

GENERAL NOTES:

1. ALL DOOR AND WINDOW HEADERS TO BE 7-2X6 OR 6X6, UNLESS OTHERWISE NOTED.
2. ALL IN-ROOF LOAD BEARING HEADERS TO BE (2) 2X4 UNLESS OTHERWISE NOTED.
3. ALL IN-ROOF LOAD BEARING WALLS AND IN-ROOF BEARING WALLS SHALL BE 2X6 @ 16" O.C. DF STUD GRADE UNO.
4. ALL IN-ROOF FRAMED WALLS AND IN-ROOF BEARING WALLS SHALL BE 2X6 @ 16" O.C. DF STUD GRADE UNO.
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BEAMS					
Beam #	Ply	Span (ft)	Load (plf)	Size	Type
MB1	1	8	191 + 1921 lbs	5-1/8" x 10-1/2"	Gulam
MB2	1	2	n/a	5-1/8" x 10-1/2"	Gulam
MB3	1	18"	182	5-1/8" x 12"	Gulam
FB1	1	52.7'	586	4 x 8	Sawn Lumber
FB2	1	52.7'	584	4 x 8	Sawn Lumber
FB3	1	29.1'	545	4 x 8	Sawn Lumber
FB4	1	11.2'	473	4 x 8	Sawn Lumber

Multi-span beams

POST AND COLUMNS					
Column #	Load (lbs)	Ply	Height (ft)	Size	Type
P1	1403	1	9	6 x 6	Timber
P2	3797	1	9	6 x 6	Timber
P3	3722	1	8	6 x 6	Timber
P4	6857	1	8	6 x 6	Timber
P5	2237	1	9	6 x 6	Timber
P6	2486	1	9	4 x 6	Sawn Lumber
P7	5184	1	8	6 x 6	Timber
P8	4497	3	9	2 x 6	Sawn Lumber
FP1	3380	1	4	4 x 4	Sawn Lumber

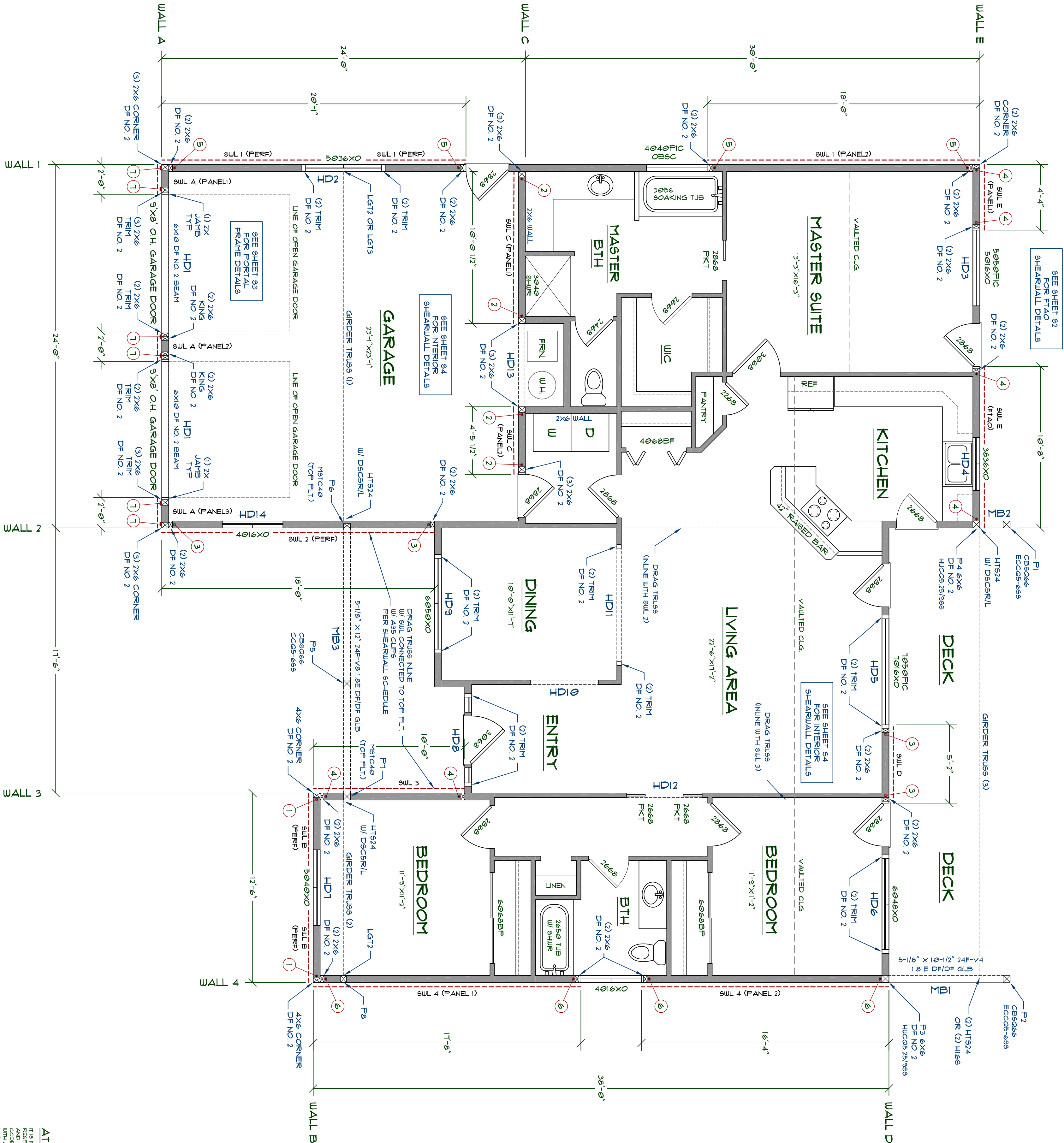
HEADERS					
Beam #	Ply	Span (ft)	Load (plf)	Size	Type
H01	1	9	164/156	6 x 10	Timber
H02	3	5.5	565 + 1596 lbs	2 x 10	Sawn Lumber
H03	2	5	604	2 x 10	Sawn Lumber
H04	2	3.7	604	2 x 10	Sawn Lumber
H05	3	7	610	2 x 12	Sawn Lumber
H06	3	6	1172	2 x 10	Sawn Lumber
H07	2	5	147	2 x 10	Sawn Lumber
H08	3	5.7	913	2 x 10	Sawn Lumber
H09	3	6	913	2 x 10	Sawn Lumber
H10	2	4.5	n/a	2 x 6	Sawn Lumber
H11	2	7.5	n/a	2 x 10	Sawn Lumber
H12	2	5	n/a	2 x 8	Sawn Lumber
H13	3	5.5	1382	2 x 12	Sawn Lumber
H14	2	4	565	2 x 10	Sawn Lumber

Multi-span headers

TIES, STRAPS & HANGERS		
Location	Part No.	Instructions
TRUSS / TOP PLATE	HT	The ends of rafters and trusses to ext. wall top plate.
TRUSS / TOP PLATE	H6 or H10A	The ends of rafters and trusses to ext. wall top plate for all truss bearing points with uplift greater than 600 lbs. See truss shop drawings.
TRUSS / TOP PLATE	LG12 or LG13	The ends of girder trusses to ext. wall top plate and post below.
TRUSS / TOP PLATE	DSCSRIL	The end of girder trusses to ext. wall top plate for lateral load cont.
TRUSS / TOP PLATE	AS5	Attach truss/rafter blocking to ext. wall top plate @ 4ft o/c spacing.
TRUSS / TOP PLATE	H4 or Equiv.	The all lookouts to top chord of gable end trusses or rafters.
TRUSS / TOP PLATE	MS7C40	The top plate to beam where top plate is not continuous over beam.
FLOOR BEAM / FLOOR BEAM	ST22	Use horizontal strap at beam-to-beam splice.

STRUCTURAL NOTES:

1. ALL FASTENERS INTO PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED.
2. ALL FASTENERS, RAFTERS AND JOISTS SHALL HAVE SOLID BLOCKING AT POINTS OF BEARING.
3. GAP ALL SHEATHING AS PER MANUF. SPEC. INSTALL H-CLIPS ON 1/16" OSB OR 1/2" PLY ROOF SHEATHING WHEN SPAN IS EXCEEDS OR 12" O/C SPACING.
4. NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED UNLESS SPECIFICALLY NOTED OR APPROVED BY ENGINEER.
5. DOUBLE TOP PLATES ARE TO HAVE A MIN. 48" LAP SPICE W/ (4) 16D NAILS STAGGERED EACH SIDE OF SPICE.
6. WHERE TOP PLATE IS NOT CONTINUOUS OVER TOP OF BEARING BELOW, AREA OF BLOCKING MUST EQUAL AREA OF POSTS OR STUDS ABOVE.
7. SOLID BLOCK (GOLASH BLOCK) ALL CORNING AND BEARING WALLS END STUDS FROM ABOVE TO BEARING BELOW. AREA OF BLOCKING MUST EQUAL AREA OF POSTS OR STUDS ABOVE.
8. WHERE BEARING WALLS RUN PARALLEL TO FLOOR JOISTS AT EXTERNAL WALLS BLOCK ONE END WALL FULL DEPTH @ 16" O/C W/ SOLID BLOCKING. ALIGN BLOCKING WITH STUDS ABOVE.
9. WHERE BEARING WALLS RUN PARALLEL TO FLOOR JOISTS AT EXTERNAL WALLS BLOCK ONE END WALL FULL DEPTH @ 16" O/C W/ SOLID BLOCKING. ALIGN BLOCKING WITH STUDS ABOVE.
10. INSTALL DOOR JOISTS WHERE INTERNAL BEARING WALLS RUN PARALLEL TO JOISTS.
11. USE IMPROVISED CHW CORNER UNITS AND FAB BOLTS TO EXTEND ANCHOR BOLT HOLDINGS THRU T/J JOIST FLOOR.
12. USE 2X6 STUD GRADE FOR FRAMING OF ALL EXT. WALLS UNO. HDSPAN BLOCKING SHALL BE WITHIN 24" OF HD HEIGHT OF WALL.
13. USE 2X6 STUD GRADE FOR FRAMING OF ALL EXT. WALLS UNO. HDSPAN BLOCKING SHALL BE WITHIN 24" OF HD HEIGHT OF WALL.
14. USE 2X6 DF NO. 2 STUDS @ 16" O/C SPACING WHERE STUD LENGTH EXCEEDS 9' (IE EXT. GARAGE WALLS).



DESIGN LOADS

- FLOOR DEAD LOAD: 10 PSF
- FLOOR LIVE LOAD: 40 PSF
- ROOF DEAD LOAD: 5 PSF
- ROOF LIVE LOAD: 5 PSF
- CEILING DEAD LOAD: 5 PSF
- CEILING LIVE LOAD: 5 PSF
- ROOF LIVE LOAD: 20 PSF
- ROOF DEAD LOAD: 5 PSF
- ROOF LIVE LOAD: 20 PSF
- DECK DEAD LOAD: 10 PSF
- DECK LIVE LOAD: 40 PSF

BUILDING CODE COMPLIANCE

THE STRUCTURAL DESIGN WAS PREPARED TO COMPLY WITH THE 2012 INTERNATIONAL RESIDENTIAL BUILDING CODE (IRC) AND THE 2012 INTERNATIONAL BUILDING CODE (IBC). THE DESIGNER HAS BEEN MADE TO DESIGN THESE PLANS WITHIN THE SCOPE OF THE DESIGNER'S RESPONSIBILITY. THE DESIGNER'S RESPONSIBILITY IS LIMITED TO THE DESIGN OF THE STRUCTURAL ELEMENTS SHOWN ON THE PLAN AND THE DESIGNER IS NOT RESPONSIBLE FOR THE DESIGN OF THE FOUNDATION, ROOF, OR OTHER STRUCTURAL ELEMENTS NOT SHOWN ON THE PLAN.

DESIGN CRITERIA

- GROUND SNOW LOAD: 25 PSF
- FROST LINE DEPTH: 12" PSF
- RISK CATEGORY: R
- WIND SPEED: 105 MPH (ULT)
- WIND FACTOR: 0.6
- WIND FACTOR ASD: 0.6
- SITE CLASS: D (GIRTH 60L)
- SEISMIC DESIGN CATEGORY: D
- SEISMIC IMPORTANCE FACTOR: 1.0
- FP CONSTRUCTION TYPE: V-B
- 90L BEARING CAPACITY: 1500 PSF

HOLD-DOWNS:

1. SHOWS LOCATION OF 681 HDJZ HOLD-DOWNS & 4X6 CHORD, AB MIN. EMBEDMENT 16"
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ATTENTION !

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY AND THAT IT IS THE DESIGNER'S RESPONSIBILITY TO BE SURE THAT THE PROJECT IS CONSTRUCTED IN FULL COMPLIANCE WITH ALL STATE AND LOCAL BUILDING CODES AND ORDINANCES. THE DESIGNER'S RESPONSIBILITY IS LIMITED TO THE DESIGN OF THE STRUCTURAL ELEMENTS SHOWN ON THE PLAN AND THE DESIGNER IS NOT RESPONSIBLE FOR THE DESIGN OF THE FOUNDATION, ROOF, OR OTHER STRUCTURAL ELEMENTS NOT SHOWN ON THE PLAN.



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PLAN NO. SMITH RESIDENCE  
SCALE 1/4"=1'-0"

DESIGNED BY: NFW  
DATE: 9/21/2015

SHEET STRUCTURAL DETAILS 1

REVISION HISTORY:

CUSTOMER: FIRSTNAME LASTNAME  
LOCATION: 123 STREET SW CITY, STATE 99999