WINDSTORM LEGEND	HD1 ▶ HOLDDOWN LOCATION AND TYPE (SEE DETAIL 3, 4, 5, 9 & 10 SHEET CS 1-1)	FULL HEIGHT SHEARWALL LOCATION	HEADER STRUT LOCATION (SEE DETAIL E8, WS 2-2)	HORIZONTAL BLOCKING BETWEEN WALL STUDS	HORIZONTAL STRAPPING SIMPSON CS18, COIL STRAP (1,700 LBS TENSION REQ. CAP.)	PLYWOOD USED FOR SHEAR AND UPLIFT RESISTANCE	ALTERNATE SHEATHING METHOD

110 MPH EXP. C

RAFTER SPAN FOR WIND LOADING* (FT) (EFFECTIVE 6-1-13)

2x6's SPACING	ROOF SLOPE	110 MPH EXP B**	110 MPH EXP C**	120 MPH EXP B**	120 MPH EXP C**
SYP#2, 16" O.C.	3:12	13'-1"	10'-8"	11'-11"	9'-6"
SYP#2, 16" O.C.	4:12	12'-10"	10'-3"	11'-8"	9'-4"
SYP#2, 16" O.C.	5:12	12'-2"	9'-8"	11'-1"	8'-10"
SYP#2, 16" O.C.	6:12	11'-6"	9'-2"	10'-5"	8'-4"
SYP#2, 16" O.C.	7:12	13'-5"	10'-6"	13'-1"	10'-6"
SYP#2, 16" O.C.	8:12	13'-5"	10'-8"	12'-4"	9'-10"
SYP#2, 16" O.C.	9:12	12'-10"	10'-3"	11'-8"	9'-4"
SYP#2, 16" O.C.	10:12	11'11"	9'-8"	10'-10"	8'-8"
SYP#2, 16" O.C.	11:12	11'-3"	9'-0"	10'-2"	8'-1"
SYP#2, 16" O.C.	12:12	10'-5"	8'-4"	9'-6"	7'-7"

PRODUCT DESIGN PRESSURE REQUIREMENTS

	110 MPH EXP B**	110 MPH EXP C**	120 MPH EXP B**	120 MPH EXP C**
PRODUCT				
WINDOWS	26.4 psf	37.0 psf	31.5 psf	*44.1 psf
DOORS	22.8 psf	28.2 psf	26.9 psf	34.7 psf
GARAGE DOOR (9x7)	21.9 psf	30.7 psf	26.1 psf	36.8 psf
GARAGE DOOR (16x7)	20.9 psf	28.8 psf	24.7 psf	34.3 psf
SIDING	30.8 psf	37.4 psf	34.7 psf	44.8 psf

*SPECIFIED DESIGN PRESSURE IS FOR CORNER LOCATIONS. WINDOW/DOOR PRODUCTS LOCATED 4' FROM ANY CORNER MAY USE A 35 PSF DESIGN PRESSURE

** EXPOSURE C SHALL BE USED FOR ANY BUILDING FACING THAT HAS FLAT OPEN TERRAIN EXTENDING FROM THE STRUCTURE FOR 600 FT. BUILDING FACINGS THAT HAVE EQUIVALENT HEIGHT OBSTRUCTIONS WITHIN 600 FT WILL USE DESIGN PRESSURES FOR EXPOSURE B

* HORIZONTAL RAFTER SPAN SHALL NOT EXCEED THE SPECIFIED RAFTER SPAN FOR WIND LOADING. RAFTERS SHALL BE BRACED TO A LOAD BEARING WALL OR MIN. 2-2x12 BEAM AND ANCHORED TO RESIST 400# PER RAFTER BRACE

TABLE 2
CORROSION RESISTANT FASTENERS

	OPEN AREAS	VENTED/ ENCLOSED
SEAWARD	HOT-DIP GALVANIZED (MIN)	ELECTRO GALVANIZED (MIN)
INLAND 1	ELECTRO GALVANIZED (MIN)	EPOXY COATED (MIN)
INLAND 2	ELECTRO GALVANIZED (MIN)	EPOXY COATED (MIN)

FOR MORE INFORMATION SEE TEXAS REVISIONS 2008

INTERIOR SHEARWALL NOTE:
ALL INTERIOR WALL SURFACES SHALL BE SHEATHED WITH 1/2" GYPSUM WALL BOARD FASTENED 7" O.C. @ PANEL EDGES AND 7" O.C. IN THE FIELD WITH A 5d COOLER NAIL. OTHER SHEARWALL LOCATIONS AND MATERIALS AS SHOWN

EXTERIOR SHEARWALLS
ALL EXTERIOR WALLS SHALL BE FULLY SHEATHED USING WALL TYPE SW4 SHEARWALLS AND SHALL EXTEND TO THE ROOF FRAMING UNLESS NOTED OTHERWISE.

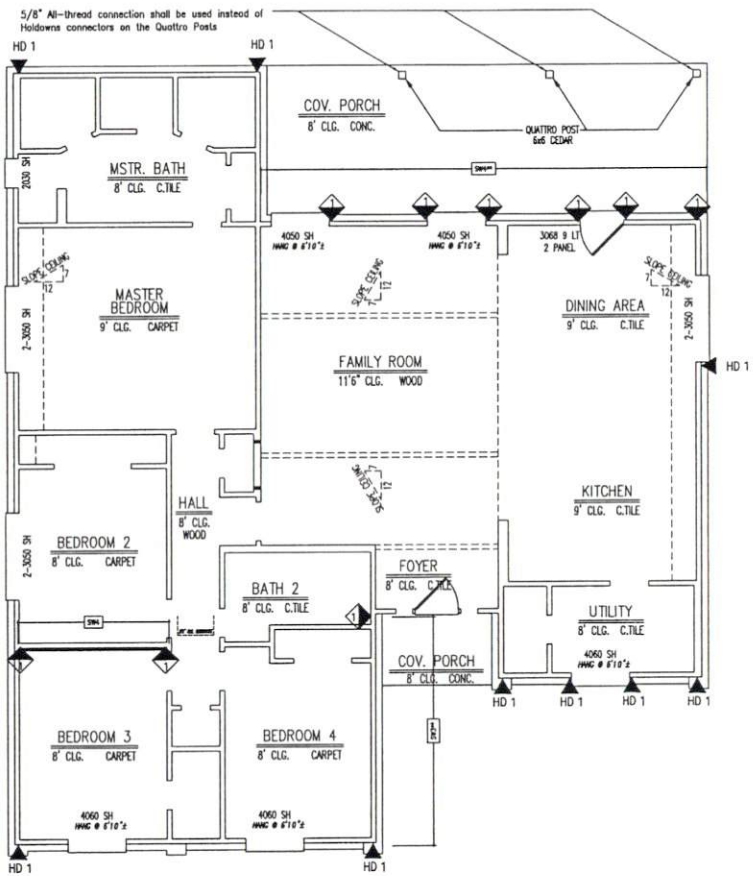
** INTERIOR SHEARWALLS SHALL EXTEND TO THE ROOF FRAMING ABOVE WITH A DOUBLE RAFTER DRAG STRUT AT THE TOP SEE DETAIL M1 WS2-2

SHEARWALL LEGEND

Wall Type		Sheathing (in)		Fasteners		Spacg (in)		Framing Members (in)				Apply
Grp	Surf	Material	Thick	Size	Type	Edg	Fld	Blkg	Species	G	Spc	Notes
SW4	Ext	OSB/PLYWOOD	7/16	8d	Nail	6	12	yes	S-P-F	0.50	1'-4"	1,3
SW4	Ext	OSB/PLYWOOD	7/16	8d	Nail	4	12	yes	S-P-F	0.50	1'-4"	1,3
SW3	Ext	OSB/PLYWOOD	7/16	8d	Nail	3	12	yes	S-P-F	0.50	1'-4"	1,3
SW2	Ext	OSB/PLYWOOD	7/16	8d	Nail	2	12	yes	S-P-F	0.50	1'-4"	1,2*,3

Grp - Wall Design Group; Surf - Exterior or interior surface of exterior wall; Spcg - Edge or field nail spacing; Blkg - Blocked; G - Specific gravity; Spc - Wall stud spacing

Notes: (1.) Capacity has been reduced according to IBC specific gravity adjustment. (2)* Framing at adjoining panel edges shall be 3-inch nominal or wider, and nails shall be staggered where nails are 2" o.c. (3). Shear capacity for current design has been increased to the value for 15/32" sheathing with same nailing because stud spacing is 16" max. or panel orientation is horizontal.



FLOOR PLAN
Scale: 1/8" = 1'-0"

STATE OF TEXAS
BRUCE ANDERSON LEWIS
68721
REGISTERED
PROFESSIONAL ENGINEER
1/6/16

GENERAL CONSTRUCTION AND DESIGN REQUIREMENTS

GENERAL CONSTRUCTION REQUIREMENTS:

ALL OTHER CONSTRUCTION SHALL BE PER CONSTRUCTION STANDARD SHEET CS 1-1, AND WINDSTORM DETAIL SHEETS WS 1-1 AND WS 2-2. WHERE THE CONSTRUCTION STANDARD AND THIS DOCUMENT VARY, THIS TEMPLATE SHALL TAKE PRECEDENCE. THIS DESIGN IS FOR WIND ONLY.

OTHER OR NON SPECIFIED CONSTRUCTION DETAILS, MATERIAL REQUIREMENTS AND LOADS SHALL BE PER THE 2006 INTERNATIONAL RESIDENTIAL CODE.

DESIGN CRITERIA:

DESIGN STANDARD:
2001 WOOD FRAME CONSTRUCTION MANUAL, CHAPTER 7
AND ASCE 7-02

BASIC WIND SPEED: 120 MPH (3-SECOND GUST)
EXPOSURE CATEGORY: "B"

BASIC WIND SPEED: 110 MPH (3-SECOND GUST)
EXPOSURE CATEGORY: "B"

SHEARWALL REQUIREMENTS

SHEARWALL REQUIREMENTS:

WALL SHEATHING SHALL BE MINIMUM 7/16" OSB (3/8" PLYWOOD IS ACCEPTABLE WHERE WALL FRAMING IS 16" O.C. UNLESS SPECIFIED IN THE DESIGN PLAN). THE SHEAR WALL SHALL BE FASTENED TO THE SOLE PLATE TO THE ROOF DIAPHRAGM. SHEARWALLS SHALL BE FASTENED 7" O.C. IN THE FIELD AND AS SPECIFIED ON THIS PLAN AT THE PERIMETER.

REQUIRED HOLDOWN CONNECTOR CAPACITY **

▲ 4,000 LBS. HD1 ▲ 5,500 LBS. HD2 ▲ 7,800 LBS. HD3

ACCEPTABLE HOLDOWN CONNECTORS PER TABLE 1, CS 1-1

UPLIFT REQUIREMENTS

UPLIFT LOAD PATH MUST BE CONTINUOUS FROM THE ROOF TO THE FOUNDATION. ACCEPTABLE HURRICANE CONNECTOR PER TABLE 3, CS 1-1

-RAFTER AND STUD ANCHORAGE (PER MEMBER)-

	ANCHORAGE
RAFTER TO TOP PLATE:	200 LBS
TOP PLATE TO STUD:	150 LBS
STUD TO SOLE PLATE:	420 LBS

-HEADER ANCHORAGE-

	OPENING SIZE	ANCHORAGE
HEADER STUDS TO HEADER AND SOLE PLATE:	3'	800 LBS
	6'	1125 LBS

-OVERHANG ANCHORAGE-

	ANCHORAGE
RAFTER TO BEAM:	200 LBS
POST TO BEAM/POST TO SLAB:	4,000 LBS

HOLDDOWN CONNECTOR LEGEND AND FOUNDATION NOTES

HD 1 ▶ SIMPSON STHD14 CONNECTOR OR EQUIV. PLACED PRIOR TO FOUNDATION POUR ACCORDING TO DETAIL A1, WINDSTORM DETAIL SHEET WS 1-2

1 SIMPSON HTT4 CONNECTOR OR EQUIV. PLACED AFTER POUR ACCORDING TO DETAIL A2, WINDSTORM DETAIL SHEET WS 1-2

2 SIMPSON HTT5KT CONNECTOR OR EQUIV. SET AFTER POUR ACCORDING TO DETAIL A3, WINDSTORM DETAIL SHEET WS 1-2

3 SIMPSON HDQ8-SDS3 CONNECTOR OR EQUIV. SET AFTER POUR ACCORDING TO DETAIL 5, WINDSTORM DETAIL SHEET WS 1-2

ANCHOR BOLT NOTES:

- ANCHOR BOLTS SHALL BE 5/8"DIAMETER X 10" BOLTS PLACE 32" O.C. EMBEDDED 7" INTO SLAB.

- RETRO FIT BOLTS SHALL BE 5/8" DIA. AND HAVE A TENSION CAPACITY OF 1,300 LBS.

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COASTAL BUILDING INSPECTIONS
Coastal Building Inspections
Engineering
WINDSTORM.
Firm# F-003193

WINDSTORM DESIGN PLANS

CUSTOMER INFORMATION
TILSON HOMES
Houston

PROJECT INFORMATION

WINDSTORM DESIGN PLAN - 110c
HAL McCLAIN ROAD
MANVEL, TEXAS
1/4/15

PLAN NO: 1154233

SHEET NO: 1-2