RT03.7

CORROSION RESISTANT ACHOR TIES EMBEDDED IN MORTAR OR GROUT AND EXTENDING INTO THE VENEER A MINIMUM OF 1-1/1 INCH, WITH NOT LESS THAN §" MORTAR OR GROUT COVER TO OUTSIDE FACE.

CORROSION RESISTANT 22 GAGE × 1/8" OR NO. 3 GAGE WIRE SPACED NO MORE THAN 24" O.C. HORIZ, AND VERTICALLY AND SHALL SUPPORT NOT MORE THAN 2.0 SQUARE FEET OF WALL AREA.

STEEL ANGLE - MIN. 6"x4"x $\hat{g}^{*}$ " WITH THE LONG LEG VERTICAL. COMPLY WITH SECTION R103.12.1

ALL STONE AND MASONRY VENEER SHALL COMPLY WITH SECTION R703.7

#### ATTIC VENTILATION

R806

ATTIC VENTILATION SHALL COMPLY WITH SECTION R806.

THE NET FREE VENTILATION SHALL NOT BE LESS THAN I/ISO(I) OF THE AREA OF THE SPACE VENTILATED, EXCEPT THAT THE AREA MAY BE I/300(I) PROVIDED THAT AT LEAST 50% OF THE REQUIRED VENTILATING AREA IS LOCATED IN THE UPPER SPACE PORTION OF THE SPACE TO BE VENTILATED AND THE REMAINDER IS PROVIDED BY EAVES OR CORNICE VENTS. IRC 2800.

#### EXTERIOR WALL COVERING

RT03

ALL EXTERIOR COVERINGS SHALL COMPLY WITH SECTION RT03

STUCCO/(EIFS) - INSTALLATION SHALL COMPLY WITH ASTM E 2568

FIBER CEMENT SIDING - PANEL AND LAP SIDING INSTALLATION SHALL COMPLY WITH ASTM CIBE.

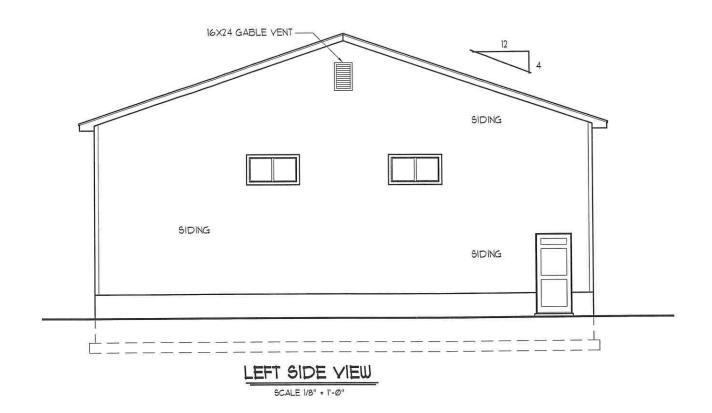
VINYL SIDING - INSTALLATION SHALL COMPLY PER ASTM D 3679

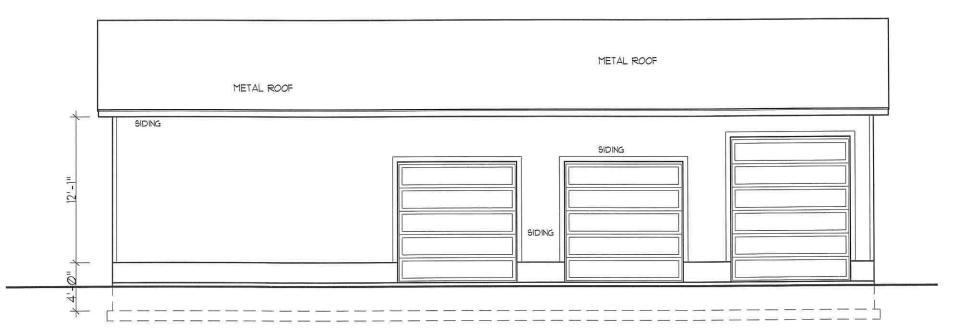
ASPHALT SHINGLES - INSTALLATION SHALL COMPLY WITH ASTM D 225 OR D 3462. CLASS "A"

BUILDING ADDRESS

IRC R319.1

BUILDING NUMBERS SHALL BE A MIN. 4" HIGH WITH A MIMINUM STROKE WITH OF  $\}^n$  INCH.







Kustom House Plans

SCALE
1/8" = 1'-0" 11x17
1/4" = 1'-0" 24x36
PLAN NUMBER

4157 W. 2200 S. Taylor, Utah McGINNIS RESIDENCE

FRONT ELEV. VIEW

SCALE 1/8" = 1'-@"

RTØ3.7

CORROSION RESISTANT ACHOR TIES EMBEDDED IN MORTAR OR GROUT AND EXTENDING INTO THE VENEER A MINIMUM OF I-\$" INCH, WITH NOT LESS THAN \$" MORTAR OR GROUT COVER TO OUTSIDE FACE.

CORROSION RESISTANT 22 GAGE  $\times$  1/8" OR NO. 9 GAGE WIRE SPACED NO MORE THAN 24" O.C. HORIZ. AND VERTICALLY AND SHALL SUPPORT NOT MORE THAN 2.0 SQUARE FEET OF WALL AREA.

STEEL ANGLE - MIN. 6"x4"x\u00e5" WITH THE LONG LEG VERTICAL. COMPLY WITH SECTION R103.12.1

ALL STONE AND MASONRY VENEER SHALL COMPLY WITH SECTION R703.7

ATTIC VENTILATION

ATTIC VENTILATION SHALL COMPLY WITH SECTION R806.

THE NET FREE VENTILATION SHALL NOT BE LESS THAN I/150th OF THE AREA OF THE SPACE VENTILATED, EXCEPT THAT THE AREA MAY BE I/300th PROVIDED THAT AT LEAST 50% OF THE REQUIRED VENTILATING AREA IS LOCATED IN THE UPPER SPACE PORTION OF THE SPACE TO BE VENTILATED AND THE REMAINDER IS PROVIDED BY EAVES OR CORNICE VENTS. IRC R800.

EXTERIOR WALL COVERING

R103

R806

ALL EXTERIOR COVERINGS SHALL COMPLY WITH SECTION R103 STUCCO/(EIFS) - INSTALLATION SHALL COMPLY WITH ASTM E 2568

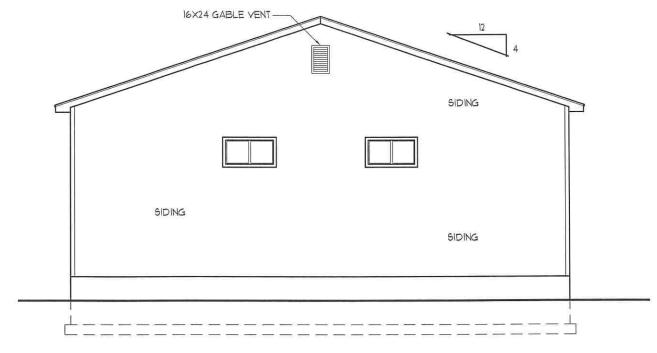
FIBER CEMENT SIDING - PANEL AND LAP SIDING INSTALLATION SHALL COMPLY WITH ASTM CIBE.

VINYL SIDING - INSTALLATION SHALL COMPLY PER ASTM D 3679 ASPHALT SHINGLES - INSTALLATION SHALL COMPLY WITH ASTM D 225 OR D 3462, CLASS "A"

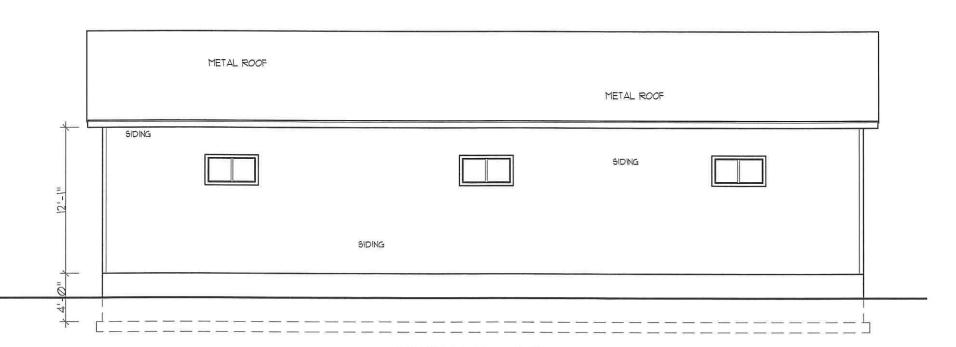
BUILDING ADDRESS

IRC R319.1

BUILDING NUMBERS SHALL BE A MIN. 4" HIGH WITH A MIMINUM STROKE WITH OF & INCH.



RIGHT SIDE YIEW



4 Z Plans House Kustom

200 S. Taylor, U. RESIDENCE

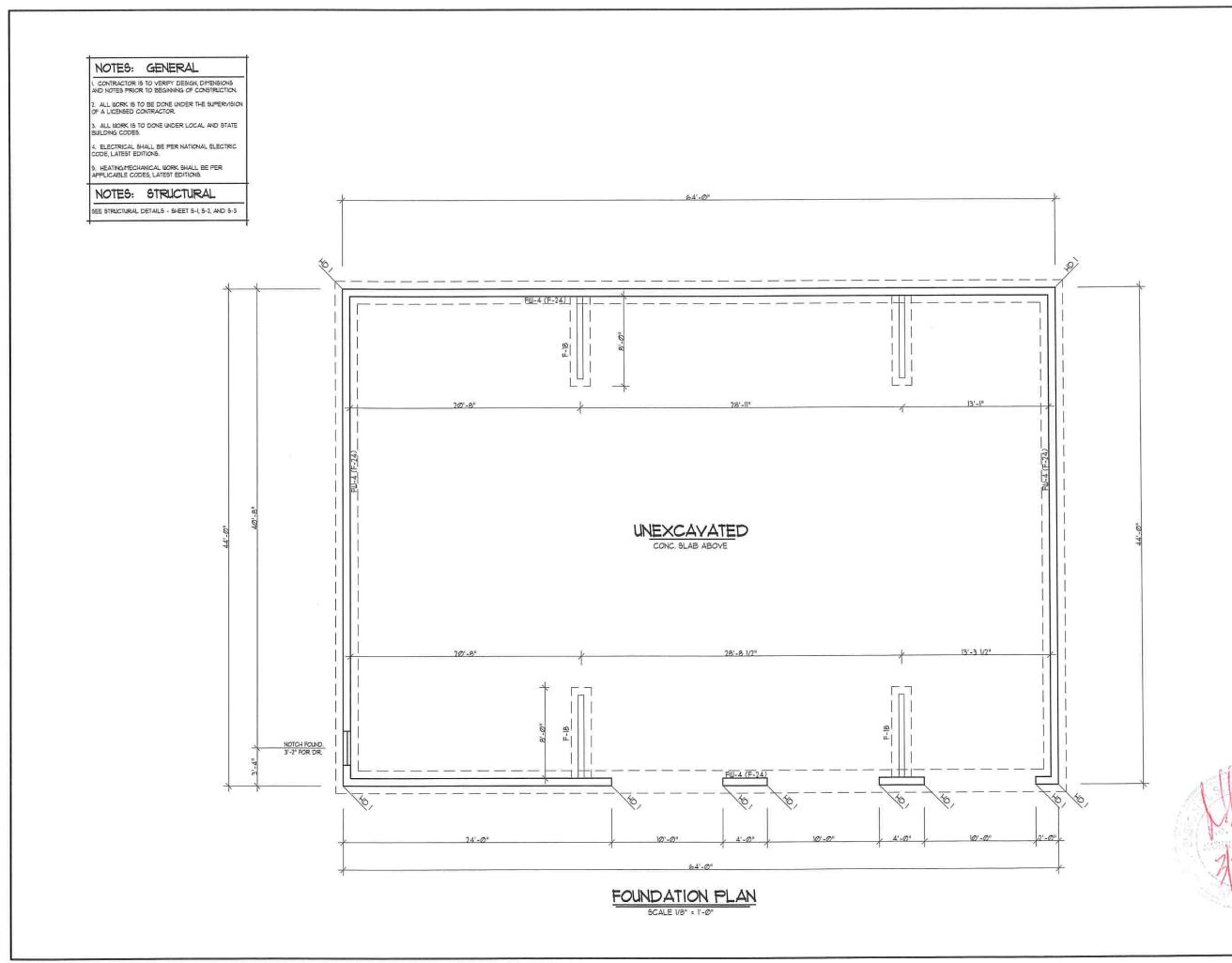
2200 IIS RE

5

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SCALE 1/8" = 1'-0" 11x17 1/4" = 1'-0" 24x36 PLAN NUMBER

REAR ELEY. YIEW SCALE 1/8" = 1'-0"



4157 W. 2200 S. Taylor, Utah McGINNIS RESIDENCE

Kustom House Plans

SCALE 1/8" = 1'-0" 11x17 1/4" = 1'-0" 24x36 PLAN NUMBER | A3

NOTES: GENERAL

I. CONTRACTOR IS TO VERIFY DESIGN, DIMENSIONS AND NOTES PRIOR TO BEGINNING OF CONSTRUCTION

2. ALL WORK IS TO BE DONE UNDER THE SUPERVISION OF A LICENSED CONTRACTOR.

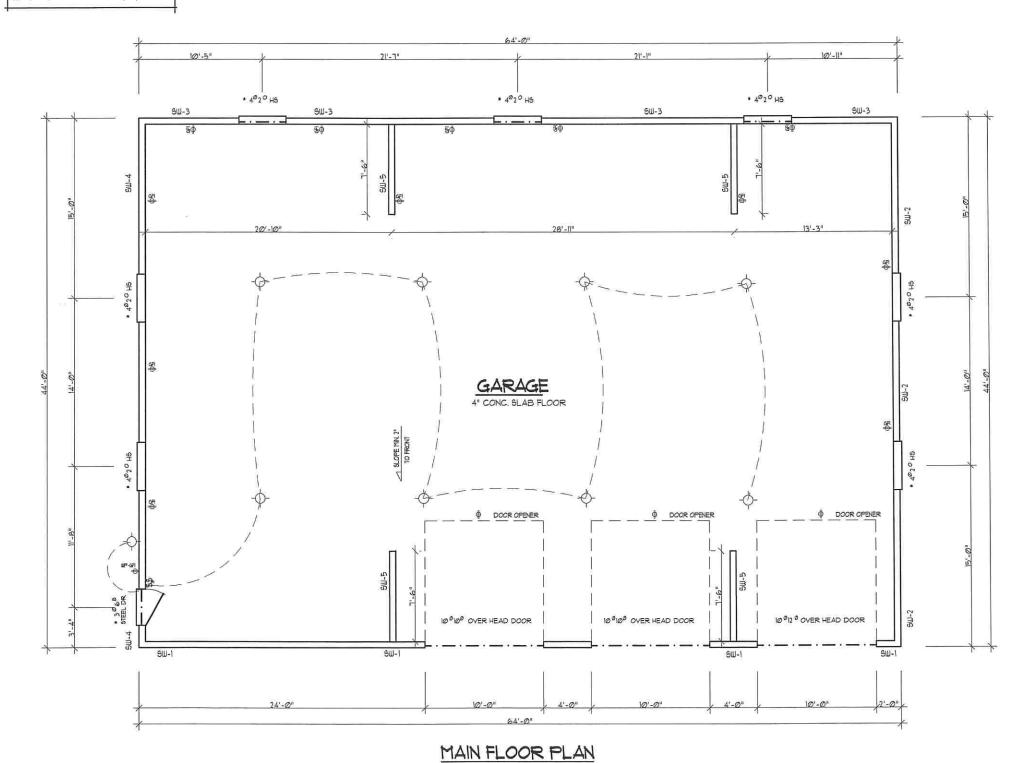
3. ALL WORK IS TO DONE UNDER LOCAL AND STATE BUILDING CODES.

4. ELECTRICAL SHALL BE PER NATIONAL ELECTRIC CODE, LATEST EDITIONS.

5. HEATING/MECHANICAL WORK SHALL BE PER APPLICABLE CODES, LATEST EDITIONS.

### NOTES: STRUCTURAL

SEE STRUCTURAL DETAILS - SHEET S-I, S-2, AND S-3

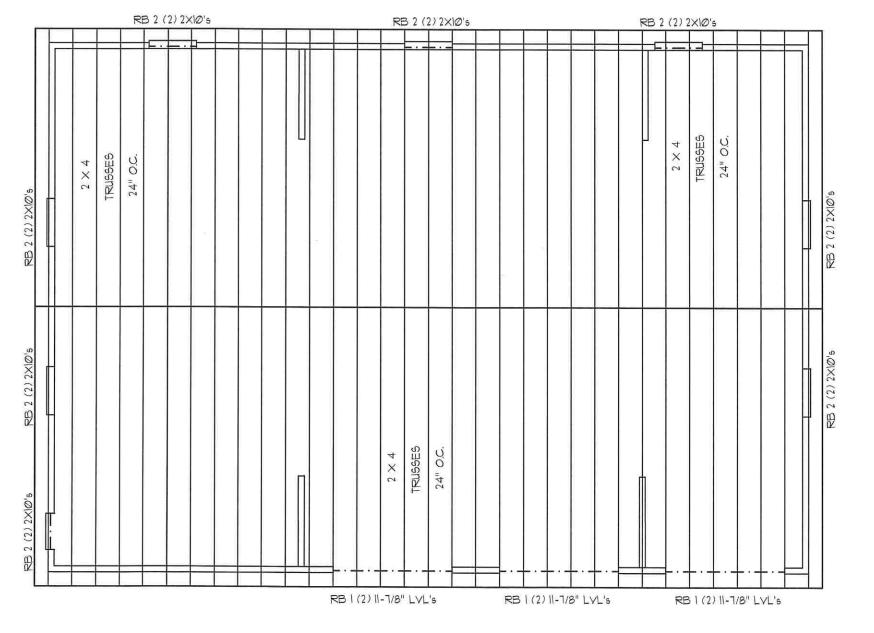


SCALE 1/8" = 1'-0"



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| Kustom House Plans | Residential Commercial Design & Engineering | Residential Commercial Design & Engineering | Residential Commercial Design & Engineering | Nate Karras P.E. (801) 786-0849 email: Kustomink@gmail.com | Nate Karras P.E. (801) 786-0849 email: Kustomink.@gmail.com | Nate Karras P.E. (801) 786-0849 email.com | Nate P.E. (801) 786



### ROOF FRAMING PLAN SCALE 1/8" = 1'-0"

#### NOTES: PRE-MANUFACTOR TRUSSES

PRE-MANUFACTORED TRUSSES SHALL CONFORM WITH SECTION R802.00 AND R502.10.

TRUSS MANUFACTURE SHALL PROVIDE DETAILS AND INSTRUCTION FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING OF TRUSSES BEFORE AND AFTER CONSTRUCTION.

TRUSS DESIGN DRAWINGS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL WHERE REQUIRED BY THE STATUES OF THE JURISDICTION IN WHICH THE PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH SECTION RIGICAL

NO ALTERATIONS SHALL BE MADE TO THE TRUSSES OR THE TRUSS LAYOUT.

ANY CHANGES TO THE ROOF FRAMING PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO MANUFACTURING AND OR CONSTRUCTION OF SAID TRUSSES.

TRUSS DESIGN DRAWINGS SHALL COMPLY WITH SECTION RS02.11.4 ( R802.10.1.

#### NOTES: GENERAL

. CONTRACTOR IS TO VERIFY DESIGN, DIMENSIONS AND NOTES PRIOR TO BEGINNING OF CONSTRUCTION

2. ALL WORK IS TO BE DONE UNDER THE SUPERVISION OF A LICENSED CONTRACTOR.

3. ALL WORK IS TO DONE UNDER LOCAL AND STATE BUILDING CODES.

4. ELECTRICAL SHALL BE PER NATIONAL ELECTRIC CODE, LATEST EDITIONS.

5. HEATING/MECHANICAL WORK SHALL BE PER APPLICABLE CODES, LATEST EDITIONS.

NOTES: STRUCTURAL

SEE STRUCTURAL DETAILS - SHEET S-1, S-2, AND S-3



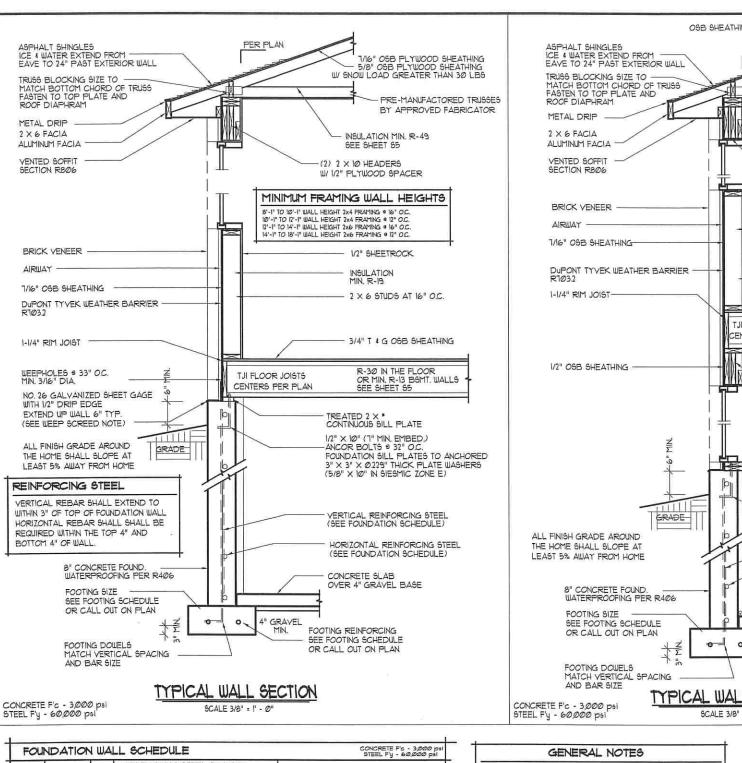
Kustom House Plans
RESIDENTIAL / COMMERCIAL DESIGN & ENGINEERING
NATE KARRAS P.E. (801) 786-0849 email: Kustom House plans
DO NOTE CODY WITHOUT WRITTEN PERMISSION

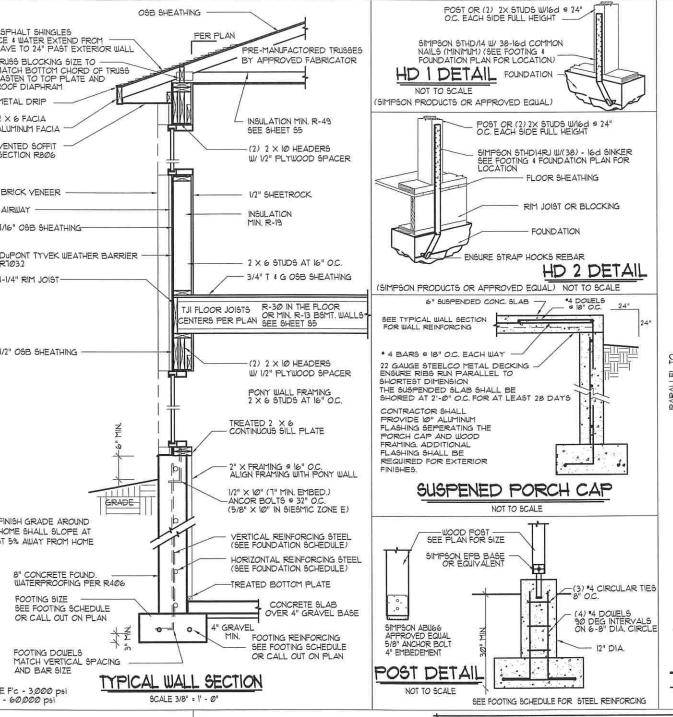
SCALE 1/8" = 1'-0" 11x17 1/4" = 1'-0" 24x36

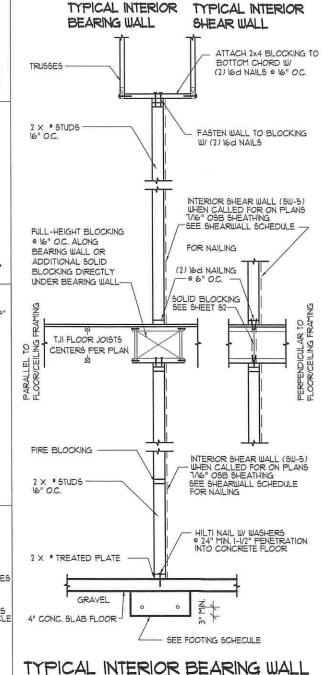
1/4" = 1'-0" 24x36

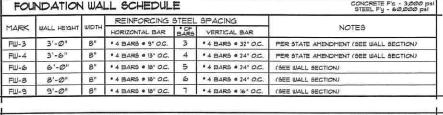
| PLAN NUMBER | A5

4157 W. 2200 S. Taylor, Utah McGINNIS RESIDENCE









MARK	NOMINA			REIN	FORC	ING STEEL		
	WIDTH	THICK -NESS	LENGTH	LENGTHUISE	BARS	CROSSWISE	BARS	NOTES
F-18	18"	9"	CONT.	• 4 BARS	2			(SEE WALL TYPICAL WALL SECTION)
F-20	20"	10"	CONT.	4 4 BARS	2			(SEE WALL TYPICAL WALL SECTION)
F-24	24"	10"	CONT.	* 4 BARS	3			(SEE WALL TYPICAL WALL SECTION)
F-30	30"	10"	CONT.	4 4 BARS	3			(SEE WALL TYPICAL WALL SECTION)
F-36	36"	12"	CONT.	• 4 BARS	4			(SEE WALL TYPICAL WALL SECTION)
P-24	24"	10"	24"	* 4 BARS	3	* 4 BARS	3	(SEE POST DETAIL)
P-30	30"	10"	30"	4 BARS	3	* 4 BARS	3	(SEE POST DETAIL)
P-36	36"	12"	36"	4 BARS	4	4 BARS	4	(SEE POST DETAIL)
P-48	48"	12"	48"	* 4 BARS	5	• 4 BARS	5	(SEE POST DETAIL)

CONTRACTOR IS TO VERIFY DESIGN, DIMENSIONS AND NOTES RIOR TO BEGINNING OF CONSTRUCTION.

ALL WORK IS TO BE DONE UNDER THE SUPERVISION OF A ICENSED CONTRACTOR ALL WORK IS TO DONE UNDER LOCAL AND STATE BUILDING

ODES.

. ELECTRICAL SHALL BE PER NATIONAL ELECTRIC CODE, ATEST EDITIONS.

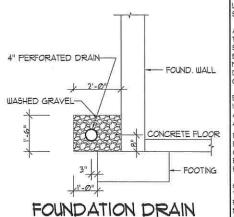
HEATING/MECHANICAL WORK SHALL BE PER APPLICABLE CODES LATEST EDITIONS

#### FOUNDATION WALL NOTES

WALLS GREATER THAN 10'-0" SEE ENGINEERING REINFORCING STEEL SHALL BE PLACED IN CENTER OF

B. FOOTING DOWELS SHALL MATCH VERTICAL STEEL AND EXTEND A MIN. OF 24" INTO FOUNDATION WALL 4. MIN. SPLICE LENGTH 4 BAR 24" INCHES - \$ 5 BAR 30" INCHES

5. CORNER REINFORCING - LAP 24" INCHES 6. OPENINGS - BARS SHALL BE PLACED WITHIN TWO INCHES OF OPENINGS AND EXTEND 24" BEYOND THE



SCALE - NOT TO SCALE

#### NOTES: FOUNDATION DRAINAGE - R405

AND DRAIN - IF A LAND DRAIN IS AVAILABLE THE FOUNDATION DRAIN SYSTEM SHALL BE EXTENDED AND CONNECTED TO THE LAND DRAIN

A SUMP SHALL BE PROVIDED TO DRAIN THE POROUS LAYER AND FOOTING THE SUMP SHALL BE AT LEAST 24 INCHES IN DIAMETER OR 20 INCHES SQUARE, SHALL EXTEND AT LEAST 24 INCHES BELOW THE BOTTOM OF THE BASEMENT FLOOR AND SHALL BE CAPABLE OF POSITIVE GRAVITY OR ECHANICAL DRAINAGE TO REMOVE ANY ACCUMULATED WATER. THE DRAINAGE SYSTEM SHALL DISCHARGE INTO AN APPROVED SEILER SYSTEM OR TO DAYLIGHT

EXCEPTION - A DRAINAGE SYSTEM IS NOT REQUIRED WHEN THE FOUNDATION IS INSTALLED ON WELL-DRAINED GROUND OR SAND GRAVEL MIXTURE SOILS ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM, GROUP I SOILS, AS DETAILED IN TABLE R405.I.

PORTIONS OF THE DIJELLING THAT ARE BELOW GRADE SHALL BE AT A EPTH SIMILAR TO THE SURROUNDING DWELLINGS. IF GROUND WATER IS OBSERVED AT TIME OF EXCAVATION, A GEOTECHNICAL ENGINEER SHALL EVALUATE THE SITE AND PROVIDE RECOMMENDATIONS. ALL PECOMMENDATIONS THAT ARE PROVIDED SHALL BE FOLLOWED

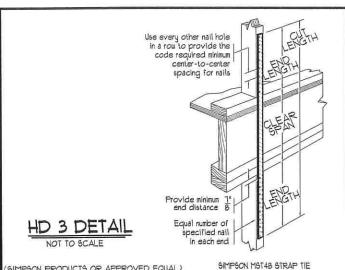
GRAVEL OR CRUSHED STONE DRAINS SHALL EXTEND AT LEAST 1 FT BEYOND THE OUTSIDE EDGE OF THE FOOTING AND & INCHES ABOVE THE TOP OF THE FOOTING AND BE COVERED WITH AN APPROVED FILTER MEMBRANE MATERIAL. THE TOP OF OPEN JOINTS OF DRAIN TILES SHALL BE PROTECTED WITH STRIPS OF BUILDING PAPER COVER THE WASHED GRAVEL OR CRUSHED ROCK COVERING THE DRAIN, DRAINAGE TILES OR PERFORATED PIPE SHALL BE PLACED ON A MINIMUM OF 2 IN. OF WASHED GRAVEL OR CRUSHED ROCK AT LEAST ONE SIEVE SIZE LARGER THAN THE TILE JOINT OFFINING OR PERFORATION AND COVERED WITH NOT LESS THAN 6 INCHES OF THE SAME



JAN 2019 S1

THIS PL NOT (

1/8" = 1'-0" 11x17 1/4" = 1'-0" 24x36 PLAN NUMBER



SECTION A-A

· With point load from above, and no support below, install web stiffener tight to top flange

Nailina Requirements

Bd

(0.113" x 21/5"

16d

Number Nails

End Intermediate

(SIMPSON PRODUCTS OR APPROVED EQUAL)

COLUMN LOADS CANNOT BE SUPPORTED BY WOOD I JOISTS

☐ BLOCKING PANEL BY JOIST MANUFACTURER

2 WEB STIFFENER BY JOIST MANUFACTURER EACH SIDE OF JOIST

3 2 x 4 MIN BLOCKS BY CONTR. EA. SIDE OF JOIST TO SUPPORT COLUMN LOAD (LENGTH = JOIST DEPTH + 1)

SOLID BLOCKING

NOT TO SCALE

2 minimum

23/4 maximum

See sizes belou

See sizes below.

Minimum Web

Stiffener Size

%" x 25/16"

7/8" x 25/16"

2×4

Web stiffener both sides.

1/2" for TJI

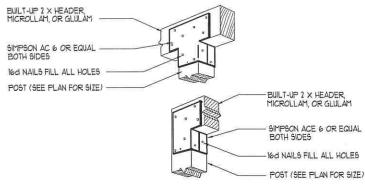
TJI Joist Series

230 4 360

560

All

ΔII



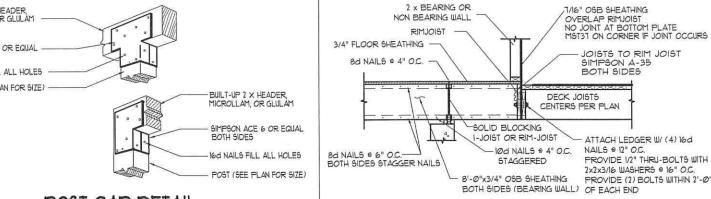
# POST CAP DETAIL

INSTALL SIMPSON HANGER PER SPECIFICATIONS

GALVANIZED FLASHING

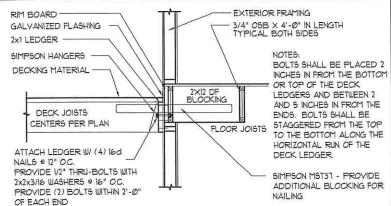
SIMPSON FACE HANGERS

2x1 LEDGER



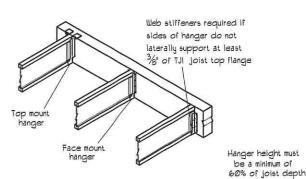
## CANTILEYER / DECK DETAIL





# DECK ATTACHMENT

INSTALL SIMPSON HANGER PER SPECIFICATIONS



# FLOOR JOIST HANGERS

Multiple-Member Connections for Top-Loaded Beams

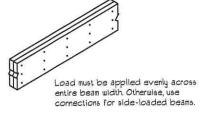
Fastener Installation Requirements

Plece	* of	of Fastener									
Width	Plies	Type <sup>(1)</sup>	Min. Length	* Rows	O.C. Spacing	Location					
		lØd nails	3"	3(2)	12"						
	2	12d-16d nails	3 /4"	2(2)	127	One side					
		Screws	336" or 3/2"	2	24"						
		lød nails	3"	3(2)	10.0						
	3	12d-16d nails	3 1/4"	2 (2)	12"	Both side					
13/4	٥	Screws	338" or 3/2"	-	2.11	Both side					
		JCI EWS	5"	2	24"	One side					
		10d nails(3)	3"	3(2)	10.11	One side					
	4	12d-16d nails (3	3 1/4"	2(2)	12"	(per ply)					

5" or 6"

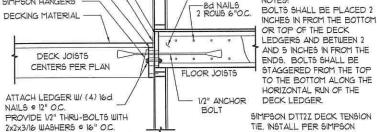
63/4"

sides, stagger fasteners on the second side so they fall halfway between



Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a

One side



TIE. INSTALL PER SIMPSON SPECIFICATIONS. ONE EACH END OF DECK

EXTERIOR FRAMING

3/4" 09B  $\times$  6'-0" IN LENGTH TYPICAL BOTH SIDES

#### SIMPSON DTT2Z HOLDOWN - SPECIFICATIONS

RIM BOARD

2x1 LEDGER

GALVANIZED FLASHING

PROVIDE (2) BOLTS WITHIN 2'-0"

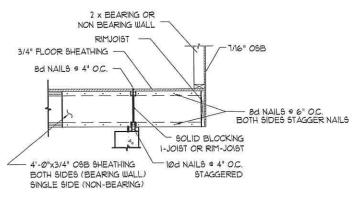
SIMPSON HANGERS

OF EACH END

INSTALLATION - USE ALL SPECIFIED FASTENERS.  $\frac{1}{2}$ " ANCHOR BOLT, 8-SDS  $\frac{1}{2}$ "XI-I/2" SIMPSON SCREWS, STANDARD CUT WASHER INSTALLED BETWEEN THE NUT AND THE SEAT 9D5 SCREWS INSTALL BEST WITH A LOW SPEED HIGH TOROUG DRILL WITH A 3" HEX. HEAD DRIVER. WHEN INSTALLING SCREWS PREVENT WOOD FROM SPLITTING. HOLDOWNS-ANCHOR BOLT - DO NOT OVER-TORQUE, FINGER TIGHT PLUS \$ TO \$ TURN WITH A HAND WRENCH.

ATTACHMENT TO TJI FLOOR SYSTEM - INSTALL  $\frac{3}{4}$ " OSB FLOOR SHEATHING BY 6'-0" WITH 8d COMMON NAILS TWO ROWS AT 6" OC TO BOTH SIDES OF I-JOISTS.

## DECK ATTACHMENT

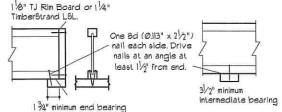


## CANTILEYER DETAIL

#### ROOFING MATERIAL PROVIDE (2) BOLTS WITHIN 2'-0" OF EACH END. LAG BOLTS TO LAG INTO 2X WALL FRAMING. CENTERS PER PLAN EXTERIOR FRAMING

## RAFTER ATTACHMENT

NAILING AT BEARING (FLOOR) TJI Joist to Bearing Plate



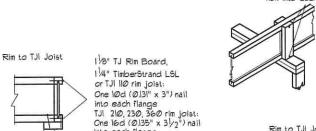
Sauash Blocks to TJI Joist (Load bearing wall above) One 10d (0.128" x 3") nail into each flange

ATTACH LEDGER W/ (3)

LAG-BOLTS WITH 2x2x3/16

16d NAILS # 16" O.C. PROVIDE 1/2"X 4"

WASHERS 9 32" O.C.



into each flange 134" minimum bearing

Rim to TJI Joist TJI 560 RIM JOIST Toe nail with 10d (0.128" x 3") nails, one TJI 560 each side of TJI joist flange floor joist

Locate rim board joint between joists.

FLOOR JOIST NAILING DETAILS

# WEB STIFFNERS DETAIL

Load bearing or braced/shear wall above(must stack over wall below. Blocking panel: 1 8" TJ Rim Board, 1 4 TimberStrand LSL or TJI Joist 2x4 minimum squash blocks Web stiffeners required on both sides

Blocking panels may be required with braced/shear walls above or below

FLOOR JOIST SOLID BLOCKING

NOT TO SCALE

NOT TO SCALE

When fasteners are required on both

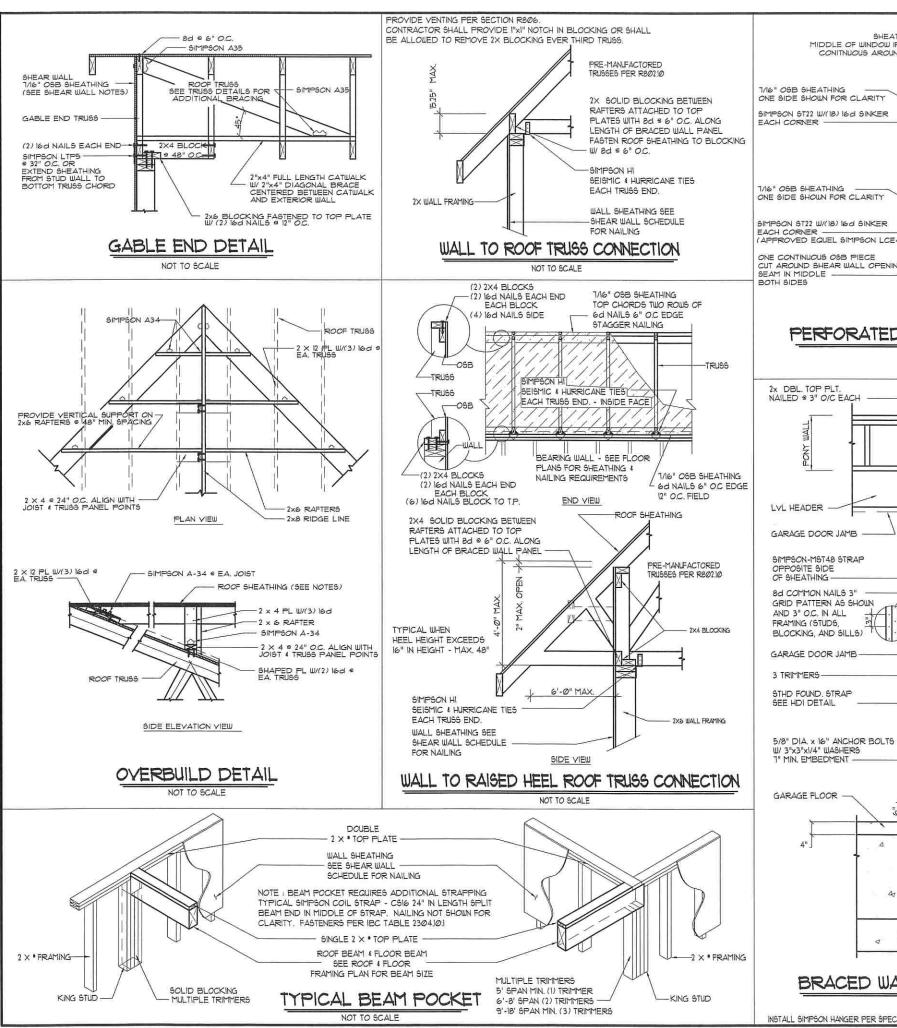


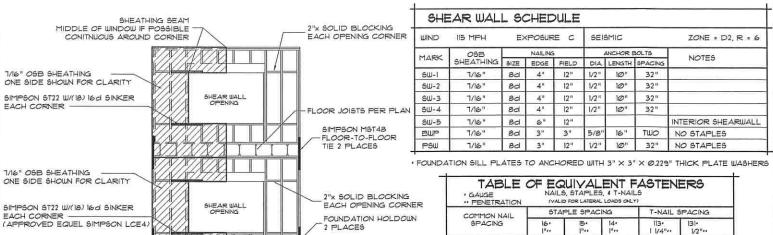
SCALE PLAN NUMBER JAN 2019 S2

(1) lød nails are 0.128" diametert 12d-16d nails are 0.148" - 0.162" diametert screws are 5D5, 5DW, W5, or Truss-LOK-EWP? (2) An additional row of nails is required with depths of 14" or greater. (3) When connecting 4-ply members, hall each ply to the other and offset hall rows by 2" from the rows in the ply below.

24"

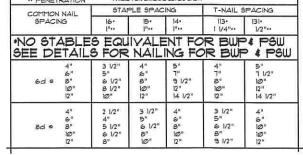
Both sides

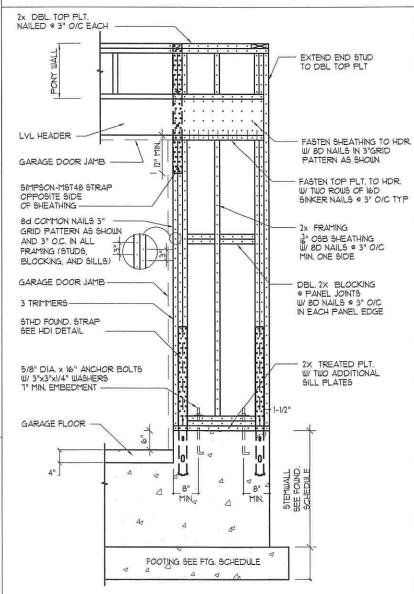




### PERFORATED SHEAR WALL FRAMING DETAIL

NOT TO SCALE

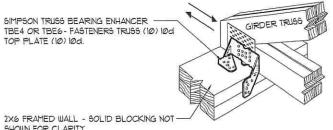




TBE4 OR TBE6 - FASTENERS TRUSS (10) 10d TOP PLATE (10) 10d.

SIMPSON TRUSS BEARING ENHANCER

SHOWN FOR CLARITY



LATERAL BRACING - SIMPSON TBE4/6 NOT TO SCALE



gineerin En S arra

1/8" = 1'-0" 11x17 1/4" = 1'-0" 24x36 PLAN NUMBER JAN 2019 S3

INSTALL SIMPSON HANGER PER SPECIFICATIONS

BRACED WALL PANEL DETAIL (BWP)

CONTRACTOR/OLNER SHALL COMPLY WITH BOTH IBC AND IRC BUILDING CODE

CONTRACTOR/OUNER SHALL COMPLY WITH UTAH ADMINISTRATIVE CODE RULE

#### DESIGN CRITERIA

GOVERNING CO	DE.																2015	IRC
SEISMIC	: ::							100	9					ti	*		ZON Ss = Fa =	116.7
WIND LOADS																		
ULTIMAT	TE WI	ND	SP	EEC	)			90						00		EX	115 1 POSUF	MPH RE C
DEAD					¥		á				9			200			. 15	PSF
ROOF S	NOW			1	90					50		*1					30	PSF
FLOOR LOADS																		
DEAD LIVE	56	ŝ			2		e <sub>v</sub>						20	$z_{_{S}}$		8,	10	PSF PSF
DECK LOADS																		
DEAD .		÷	8			T <sub>1</sub>		organisation		5		ŝ	e,	7	a.	4.5	20	PSF PSF
SOIL BEARING I	PRES	SU	RE				15						0.				1500	PSF

#### STRUCTURAL STEEL

- 1. FABRICATION AND CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS
  - A AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS "WITH " COMMENTARY.
  - AISC "CODE OF STANDARD PRACTICE" EXCLUDING THE FOLLOWING: SECTION 3.4, SECTION 4.4, SECTION 4.41.
  - C. AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
  - D. AMERICAN WELDING SOCIETY (AWS), STRUCTURAL WELDING CODE (SPECIFIC ITEMS DO NOT APPLY WHEN THEY CONFLICT WITH AISC REQUIREMENTS).
  - E. AISC "SEISMIC PROVISION FOR STRUCTURAL STEEL BUILDINGS"

#### CONCRETE

CONCRETE

- ALL CONCRETE SHALL BE MIN. OF 3,000 PSI CONCRETE TYPE I/II CEMENT COMPLYING WITH ASTM C-150 SHALL BE USED FOR ALL
- CONCRETE. THE WATER/CEMENT RATIOS AND AIR ENTRAINMENT SHALL MEET THE REQUIREMENTS OF ACI 318.
- REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVER:

A CAST IN PLACE CONCRETE... . CLEAR COVER B. CAST AGAINST PERMANENTLY EXPOSED TO EARTH... C. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:

SPIRALS. REINFORCING MIN. LAP SPLICE - "4 BARS 24" - "5 BARS 30"

#### FOOTING & FOUNDATION

R403 4 R404

FOOTINGS AND FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE TO SECTIONS

IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO VERIFY THE SITE AND GEOTECHNICAL CONDITIONS ARE IN COMPLIANCE WITH THE DESIGN CRITERIA LISTED

- FOOTINGS HAVE BEEN DESIGNED TO THE SOIL BEARING PRESSURE SPECIFIED IN THE DESIGN CRITERIA
- ALL FOOTINGS ARE TO REST ON UNDISTURBED SOIL AND SHALL BE A MINIMUM OF 30", OR LOCAL FROST DEPTH, BELOW THE FINISH GRADE.
- 3. THE CONTRACTOR SHALL ENSURE THAT THE FOOTINGS ARE PROPERLY DRAINED AND THAT THE SOIL MOISTURE CONTENT MEETS THE IBC AND IRC REQUIREMENTS.
- 4 ANY ANOMALOUS SOIL CONDITION ENCOUNTERED DURING EXCAVATION, SUCH AS SLIPPAGE, HIGH MOISTURE CONTENT, IMPROPER DRAINAGE, ETC., SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
- 5 COMPACT BACKFILL AGAINST FOUNDATION WALL TO 85% OF MODIFIED PROCTOR DRY DENSITY TO REDUCE SETTING OF FILL.
- 6. FOUNDATION ANCHOR BOLTS SHALL BE EMBEDDED IN AT LEAST 1" OF CONCRETE AND PLACED WITHIN 12" OF SILL PLATE END. IF MULTIPLE PLATES ARE USED, THE ANCHOR BOLTS SHALL EXTEND THROUGH ALL PLATES. THERE SHALL BE A MINIMUM OF 2 ANCHOR BOLT PER WALL SECTION, 3"X3"X0229" SQUARE WASHERS SHALL BE USED BETWEEN ANCHOR BOLT AND PLATE. SEE CROSS SECTION FOR SIZE AND SPACING.
- 7. GRADE 60 REBAR SHALL BE USED FOR BOTH VERTICAL AND HORIZONTAL
- 8 HOLDOUNS SHALL BE EMBEDDED IN THE FOUNDATION PER MANUFACTURERS REQUIREMENTS. THE CONTRACTOR SHALL ENSURE THAT THE FASTENERS HOOK THE REBAR AND MEETS THE MINIMUM EDGE DISTANCE.

#### CONCRETE-ENCASED ELECTRODE E3608.12

AN ELECTRODE ENCASED BY AT LEAST 2 INCHES OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 FEET OF ONE OR MORE BARE OR ZINC-GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH DIAMETER OR CONSISTING OF AT LEAST 20 FEET OF BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AUG SHALL BE CONSIDERED AS A GROUNDING ELECTRODE. REINFORCING BARS SHALL BE PERMITTED TO BE BONDED TOGETHER BY THE USUAL STEEL TIE WIRE OR OTHER EFFECTIVE MEANS.

#### FOOTINGS ON OR ADJACENT TO SLOPES

THE PLACEMENT OF BUILDINGS AND STRUCTURES ON OR ADJACENT TO SLOPES IN ONE UNIT VERTICAL IN THREE UNITS HORIZONTAL (333-PERCENT SLOPE) SHALL CONFORM TO SECTIONS R403.17.1 THROUGH R403.17.4

#### BUILDING CLEARANCES FROM ASCENDING SLOPE SURFACES

R403.1.7.1

R403.1.7

IN GENERAL, BUILDINGS BELOW SLOPES SHALL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION FROM SLOPE DRAINAGE, EROSION AND SHALLOW FAILURES.

#### FOOTING SETBACK FROM DESCENDING SLOPE SURFACES

R403.1.7.2

R4Ø3.1.7.3

FOOTINGS ON OR ADJACENT TO SLOPE SURFACES SHALL BE FOUNDED IN MATERIAL WITH AN EMBEDMENT AND SETBACK FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOOTING WITHOUT DETRIMENTAL SETTLEMENT.

#### FOUNDATION ELEVATION

ON GRADED SITES. THE TOP OF ANY EXTERIOR FOUNDATION SHALL EXTEND ABOVE THE ELEVATION OF THE STREET GUTTER AT POINT OF DISCHARGE OR THE INLET OF AN APPROVED DRAINAGE DEVICE A MINIMUM OF 12 INCHES (3/05 MM) PLUS 2 PERCENT

#### STRUCTURAL FILL

STRUCTURAL FILL SHALL BE IMPORTED FILL MATERIAL.

IMPORTED FILL MATERIAL SHALL CONSISTS OF WELL-GRADED SANDY GRAVELS TO SILTY SANDS WITH A MAXIMUM SIZE OF 4" AND 5 TO 20 PERCENT FINES (MATERIALS PASSING NO. 200 SIEVE). THE LIQUID LIMIT OF THE FINES SHALL NOT EXCEED 35% AND THE PLASTICITY INDEX SHALL BE BELOW IS

CLEAN GRAVEL RANGING FROM PEA GRAVEL TO 4" WITH LESS THAN 5 PERCENT FINES AND SAND COMBINED MAY ALSO BE USED AS STRUCTURAL FILL

ALL FILL SOILS SHALL BE FREE FROM TOPSOIL, HIGHLY ORGANIC MATERIAL, FROZEN

THE THICKNESS OF EACH LIFT SHALL BE APPROPRIATE FOR THE COMPACTION EQUIPMENT BEING USED. MAX. 6" LIFT FOR HAND COMPACTION. MAX. 8" FOR TRENCH COMPACTORS

THE FULL THICKNESS OF EACH LIFT OF STRUCTURAL FILL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1551.

CLEAN GRAVEL FILL MAY BE PLACED IN MAX. 24" LIFTS. THE GRAVEL WILL NEED TO BE COMPACTED WITH AT LEAST 4 PASSES OF A VIBRATORY PLATE OR DRUM COMPACTOR

#### WOOD - GENERAL FRAMING NOTES

R502 4 R602

WOOD FRAMING SHALL BE CONSTRUCTED IN ACCORDANCE TO SECTIONS R5/02 AND FASTENERS SCHEDULE FOR STRUCTURAL MEMBERS PER TABLE R6023(1).

- FRAMING LUMBER SHALL BE 2 DOUGLAS FIR-LARCH OR BETTER UNLESS NOTED OTHER WISE.
- 2. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY OR SOIL SHALL BE PRESSURE TREATED OR BE REDWOOD. 3. ALL FRAMING ANCHORS, POST CAPS, HOLD DOWNS, COLUMN BASES, ETC
- SHALL BE PROVIDED BY SIMPSON STRONG-TIE OR APPROVED EQUAL 4. ALL WALLS SHALL HAVE A MINIMUM OF THE TOP PLATES. SPLICES IN TOP PLATES SHALL BE STAGGERED A MINIMUM OF FOUR FEET FROM THE NEAREST SPLICE IN
- ADJOINING TOP PLATE. 5. ALL EXTERIOR AND LOAD BEARING WINDOW AND DOOR HEADERS SHALL HAVE (2) 2xIØ DF No. 2 W/FILLER UNLESS NOTED OTHERWISE ON DRAWING.
- 6. ALL HEADERS SUPPORTING A GIRDER TRUSS SHALL BE A MIN. OF (2) 1-3/4"x9-1/2" LYLS UNLESS NOTED OTHERWISE ON DRAWING.
- MULTIPLE BEAMS AND HEADERS SHALL BE NAILED TOGETHER ACCORDING TO DETAIL
- 8. ALL POINT LOADS SHALL BE SOLID BLOCKED TO THE FOUNDATION. SEE SHEETS
- 9. MULTIPLE TRIMMERS SEE TYPICAL BEAM POCKET SHEET 3.
- 10. USE SIMPSON OR EQUIVALENT HARDWARE TO CONNECT BEAMS 6' AND LONGER TO STUDS OR POSTS.
- II. TALL WALL FRAMING SHALL BE BALLOON FRAMING WALL FRAMING SHALL BE FULL HEIGHT AND CONTINUOUS FROM FLOOR TO CEILING. SEE TYPICAL WALL SECTION OR FLOOR PLANS FOR FRAMING MATERIAL AND SIZES
- 12. MULTI LEVEL FRAMING MULTI LEVEL FRAMING SHALL BE STAKE AND VERTICALLY ALIGNED TO CREATE DIRECT LOAD PATH.

#### FLOOR SHEATHING NOTES

TYPICAL FLOOR SHEATHING SHALL BE 3/4" T&G WAFER BOARD NAILED W/ 8d NAILS & 6" O.C. ON ALL EDGES, AND 9 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS.

SOLID JOIST BLOCKING REQUIRED AT ALL BEARING POINTS.
INSTALL FLOOR SHEATHING WITH FACE GRAIN AT RIGHT ANGLES TO FRAMING WITH END JOINTS STAGGERED

4. USE DOUBLE FLOOR JOISTS UNDER ALL LOAD BEARING WALLS RUNNING PARALLEL WITH FLOOR JOISTS

USE DOUBLE FLOOR JOISTS UNDER ALL SHEAR WALLS RUNNING PARALLEL WITH FLOOR JOISTS. NAIL BOTTOM PLATE TO JOISTS W/ 16d NAILS 9 3" OC 6. USE DOUBLE JOISTS TO SOLID BLOCK UNDER ALL SHEAR WALLS RUNNING PERPENDICULAR TO FLOOR JOISTS. NAIL BOTTOM PLATE TO BLOCKING W/ 16d NAILS .

3" O.C T. FLOOR JOIST INTSTALLATION PER MANUFACTORS SPECIFICATIONS.

#### SHEAR WALL NOTES

AS A MINIMUM, ALL EXTERIOR WALL SHALL BE SHEATHED WITH 1/16" APA RATED C-D OR C.-C SHEATHING AND NAILED WITH 8d's 4" OC EDGE AND 12" OC FIELD IF NOT INDICATED ON PLANS. SEE SHEARWALL SCHEDULE.
2. SHEATHING SHALL EXTEND CONTINUOUS FROM MUD SILL TO TOP PLATE AND NAILED

AT LEAST 1" O.C. ALONG SILL PLATE. SHEATHING SHALL EXTEND FROM FLOOR FRAMING TO HIGH ROOF FRAMING ON UPPER LEVEL EXTERIOR WALLS.

3. NAILS SHALL BE PLACED NOT LESS THAN 1/2" FROM EDGE OF PANEL AND DRIVEN FLUSH. NAIL SHALL NOT FRACTURE THE SURFACE OF THE SHEATHING.

#### WOOD TRUSS NOTES

RE-MANUFACTORED TRUSSES SHALL CONFORM WITH SECTION R80210 AND R5021

RUSS MANUFACTURE SHALL PROVIDE DETAILS AND INSTRUCTION FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING OF TRUSSES BEFORE AND AFTER CONSTRUCTION

TRUSS DESIGN DRAWINGS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL WHERE REQUIRED BY THE STATUES OF THE JURISDICTION IN WHICH THE PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH SECTION

NO ALTERATIONS SHALL BE MADE TO THE TRUSSES OR THE TRUSS LAYOUT.

ANY CHANGES TO THE ROCF FRAMING PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO MANUFACTURING AND OR CONSTRUCTION OF SAID TRUSSES.

TRUSS DESIGN DRAWINGS SHALL COMPLY WITH SECTION R502.11.4 4 R802.10.1

DEFERRED TRUSS DESIGN SHALL BE SUBMITTED TO KARRAS ENGINEERING AND THE BUILDING OFFICIAL FOR REVIEW AND GENERAL CONFORMANCE PRIOR TO INSTALLATION IN ACCORDANCE WITH IBC 1013.4.1.

CONTRACTOR SHALL PROVIDE MINIMUM 22" × 30" ATTIC ACCESS. - FIELD LOCATE PROVIDE WEATHER STRIPPING AROUND OPENING, R801.I.

THE CONTRACTOR SHALL BLOCK BETWEEN TRUSSES AND CONNECT EACH TRUSS TO WALL TOP PLATE WITH SIMPSON HI CONNECTORS.

GABLE ENDS SHALL HAVE SIMPSON STRONGTIE STRAPS @ 32" O.C. CONNECTING GABLE TRUSS TO WALL FRAMING.

TRUSSES TO BE INSTALLED PER MANUFACTURES SPECIFICATIONS.

BLOCKING BETWEEN TRUSSES SHALL MATCH BOTTOM CHORD OF TRUSS

BRACING - TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERL STABILITY

#### ROOF SHEATHING NOTES

I. SHEATHING SHALL BE 1/16", 24/16, APA RATED SHEATHING. NAIL W/ 8d's © 6" O.C. 3/8" FROM EDGE OF PANEL AT ALL PANEL ENDS, SUPPORTED EDGES, SHEARWALL TOPS, AND ALL BLOCKING. NAIL @ 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS. (5/8" SHEATHING WITH SNOW LOADS GREATER THAN 30 LBS) 2. LAY SHEATHING WITH FACE GRAIN AT RIGHT ANGLES TO FRAMING WITH STAGGERED

#### BRICK VENEER SUPPORT / LINTELS

RT03.72.1

A MINIMUM 6 INCHES BY 4 INCHES BY \$ INCH STEEL ANGLE, WITH THE LONG LEG PLACED VERTICALLY, SHALL BE ANCHORED TO DOUBLE 2 INCHES BY 4 INCHES WOOD STUDS AT A MAXIMUM ON-CENTER SPACING OF 16 INCHES. ANCHORAGE OF THE STEEL ANGLE AT EVERY DOUBLE STUD SPACING SHALL BE A MINIMUM OF TWO ?" DIAMETER BY 4 INCH LAG SCREWS.

STEEL LINTELS SHALL BE SHOP COATED WITH RUST INHIBITIVE PAINT, EXCEPT FOR LINTELS MADE OF CORROSION-RESISTANT STEEL.

#### FASTENERS

FASTENERS AND CONNECTORS IN CONTACT WITH PRESERVATIVE - TREATED WOOD SHALL BE HOT DIPPEED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A 153. EXCEPTIONS AT DIAMETER OR GREATER STEEL BOLTS.

#### DWELLING/GARAGE SEPERATION

STRUCTURAL MEMBERS SUPPORTING THE SEPARATION SHALL BE PROTECTED BY FIRE-RESISTIVE CONSTRUCTION. 4"-INCH GYPSUM BOARD TYPICAL. 8"-INCH TYPE X GYPSUM BOARD FOR HABITABLE ROOMS ABOVE THE GARAGE.

COMPLY WITH SECTION \$3026

#### CEILING HEIGHT

HABITABLE SPACE, HALLWAYS, BATHROOMS, TOILET ROOMS, LAUNDRY ROOMS AND PORTIONS OF BASEMENTS CONTAINING THESE SPACES SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 1 FEET. BASEMENTS 6'-8" MIN. EXCEPTIONS UNDER BEAMS, GIRDERS, DUCTS OR OTHER OBSTRUCTIONS MAY PROJECT TO WITHIN 6'-4" OF THE FINISHED FLOOR.

### WINDOW WELLS

R3102

R312.2.1

WINDOW WELLS REQUIRED FOR EMERGENCY ESCAPE AND RESCUE SHALL HAVE HORZ. DIMENSIONS THAT ALLOW THE DOOR OR WINDOW OF THE EMERGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENED. THE HORIZONTAL DIMENSIONS OF THE WINDOW WELL SHALL PROVIDE A MINIMUM NET CLEAR AREA OF 9 SQUARE FEET WITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36". WINDOW WELLS WITH A VERTICAL DEPTH GREATER THAN 44 INCHES SHALL BE EQUIPPED WITH A PERMANENTLY AFFIXED LADDER. COMPLY WITH SECTION R3102.1 R31022

### BASEMENT - WINDOW SILL HEIGHT

BASEMENT WINDOWS SHALL HAVE A SILL HEIGHT OF NO MORE THAN 44-INCHES ABOVE THE FLOOR. WHERE THE SILL HEIGHT IS BELOW GRADE THE WINDOW SHALL BE PROVIDED WITH A WINDOW WELL IN ACCORDANCE WITH R31023.

#### WINDOW SILL HEIGHTS

N DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE HAN 72 INCHES ABOVE THE FINISH GRADE OR SURFACE BELOW, THE LOWEST PART OF THE OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24" INCHES ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED. OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW PASSAGE OF A 4 INCH DIA. SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES OF THE FINISHED FLOOR.

MEANS OF EGRESS

HERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SERVED. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION OF 36 INCHES MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 0.25 UNIT VERTICAL IN 12 UNITS. (2%)

#### GUARDS AND WINDOW FALL PROTECTION

R312

GUARDS SHALL BE LOCATED ALONG OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, RAMPS AND LANDINGS, THAT ARE LOCATED MORE THAN 30 INCHES MEASURED ERTICALLY TO THE FLOOR OR GRADE BELOW AT ANY POINT 36 INCHES HORIZONTALLY TO THE EDGE OF THE OPEN SIDE.

OPENING LIMITATIONS - REQUIRED GUARDS SHALL NOT HAVE OPENINGS FROM THE WALKING SURFACE TO THE REQUIRED GUARD HEIGHT THAT ALLOW PASSAGE OF A SPHERE 4 INCHES IN DIAMETER.

#### SMOKE ALARMS

R802.10 MOKE ALARMS SHALL BE IN ACCORDANCE WITH SECTION R314

> ALL SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND THE HOUSEHOLD FIRE JARNING EQUIPMENT PROVISIONS OF NFPA 12.

SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS. IN EACH SLEEPING ROOM, OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, ON EACH ADDITIONAL STORY OF THE DIJELLING. NCLUDING BASEMENTS AND UNINHABITABLE ATTICS.

HIHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED HITHIN AN MINIONAL DUELLING UNIT THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS

#### THE INDIVIDUAL UNIT. CARBON MONOXIDE ALARMS

CARBON MONOXIDE ALARMS SHALL BE IN ACCORDANCE WITH SECTION R3IE

AN APPROVED CARBON MONOXIDE ALARMS SHALL BE INSTALLED ON EACH HABITABLE LEVEL WITHIN WHICH FUEL-FIRED APPLIANCES ARE INSTALLED AND IN DWELLINGS UNITS THAT HAVE ATTACHED GARAGES.

SINGLE STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING WITH UL 2034 AND SHALL BE INSTALLED IN ACCORDANCE WITH THIS CODE AND NFPA 120.

GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS AND SHOWERS. GLAZING IN ANY PART OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING

- GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE ADJACENT TO A DOOR WHERE THE EAREST VERTICAL EDGE IS WITHIN A 24-INCH ARC OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OR VALKING SURFACE.
- 3 GLAZING IN IJALLS ENCLOSING STAIRIJAY LANDING OR WITHIN 60 INCHES OF THE TOP AND BOTTOM OF STAIRWAYS WHERE THE BOTTOM EDGE OF THE GLASS IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.

#### WEATHER-RESISTANT BARRIER

RT0363

RT0362.1

R307

R314

R315

WEATHER-RESISTANT BARRIERS SHALL BE INSTALLED AS REQUIRED IN SECTION R1032 AND, WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WEATHER-RESISTANT VAPOR PERMEABLE BARRIER WITH A PERFORMANCE AT LEAST EQUIVALENT TO TWO LAYERS OF GRADE D PAPER.

#### WEEP SCREEDS

A MINIMUM ØØ13-INCH (NO. 26 GALVANIZED SHEET GAGE), CORROSION-RESISTANT WEEP

SCREED OR PLASTIC WEEP SCREED, WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 3-1" INCHES SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE WITH ASTM C 926. THE WEEP SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2" ABOVE PAVED AREAS AND SHALL BE OF TYPE THAT WILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE WEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE WEEP SCREED. ARC-FAULT PROTECTION E39@2.12

ALL BRANCH CIRCUITS THAT SUPPLY 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE OUTLETS IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUN-ROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.

#### TUB AND SHOWER TUB AND SHOWER SPACES - R3012

BATHTUB NO SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABOSORBANT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO HEIGHT OF NOT

LESS THAN 6 FEET ABOVE THE FLOOR. I IMIT WATER TEMPERATURE TO A MAX 120° F PER SECTION P27083 AND P27133.

JETTED TUB ACCESS - 12"X12" ACCESS PER IRC P272Ø.

CODES LATEST EDITIONS.

GENERAL NOTES CONTRACTOR IS TO VERIFY DESIGN, DIMENSIONS AND NOTES PRIOR TO BEGINNING OF CONSTRUCTION

2. ALL WORK IS TO BE DONE UNDER THE SUPERVISION OF A ICENSED CONTRACTOR 3. ALL WORK IS TO DONE UNDER LOCAL AND STATE

BILL DING CODES 4. ELECTRICAL SHALL BE PER NATIONAL ELECTRIC CODE, LATEST EDITIONS.

HEATING/MECHANICAL WORK SHALL BE PER APPLICABLE

yathan John Karras

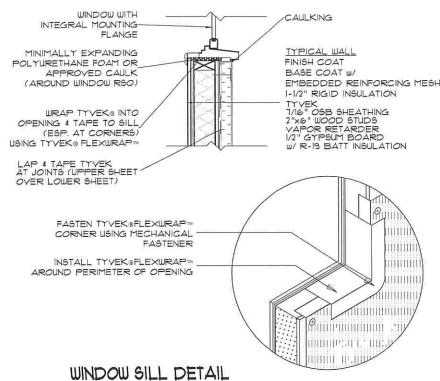
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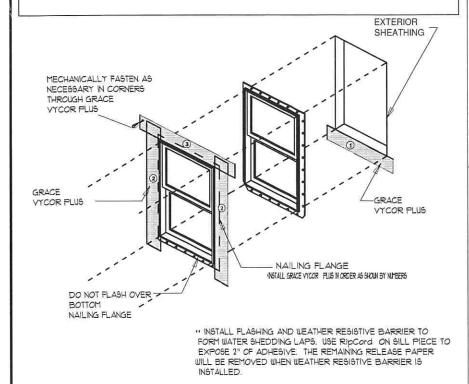
1/8" = 1'-0" 11x17 1/4" = 1'-0" 24x36 JAN 2019 S4

## WEATHER RESISTIVE BARRIER (RTØ3.2) WINDOW WITH CAULKING

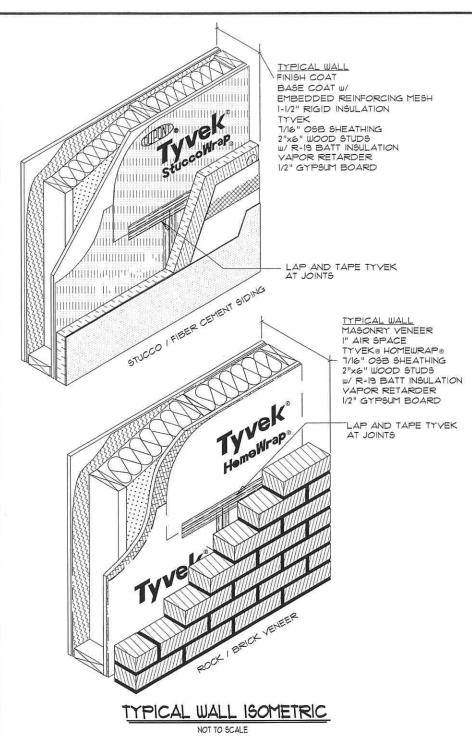


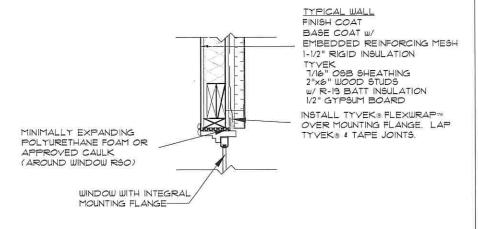
15EAL ALL TYVEK, JOINTS AND PENETRATIONS WITH APPROVED TAPE. (ex. DUPONT CONTRACTOR TAPE)
1FASTEN TYVEK TO SHEATHING WITH LARGE HEAD NAILS OR USE NAILS WITH LARGE PLASTIC WASHER HEADS.(ex. DUPONT LOCAL LAWS, ZONING, AND BUILDING CODES VARY AND THEREFORE GOVERNS OVER MATERIAL SELECTION AND DETAILING

SHOUN BELOW.
INSTALL EIFS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS



WINDOW / DOOR HEAD DETAIL





WINDOW / DOOR HEAD DETAIL

### 2015 IECC REQUIREMENTS FOR UTAH HOMES

	WIND	OWS		INSUL	ATION	FOUNDATION							
	FENESTRATION U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB R-VALUE AND DEPTH	CRAWL SPACE WALL R-VALUE				
ZONE 6	Ø.32	NR	49	20 +5 OR 13 + 10	15/20	30	15/20	10, 4 FT	15/19				
ZONE 5	0.32	NR	49	20 OR 13 + 5	13/17	30	13/17	1Ø, 2 FT	15/19				
ZONE 3	Ø.32	0.25	38	20 OR 13 + 5	8/13	9	8/13	0	5/13				
ZONE 3	WASHIN	NGTON .	ZONE 5	BEAVER	R, DAVIS, EM	IERY, GAR	FIELD, GRANI	O, IRON, JUA	B, KANE,				
ZONE 5	MILLARD,	BIUTE, SAL	T LAKE, SA	AN JUAN, SANF	PETE, SEVIE	R, TOOELE	E UTAH, WAYN	E, WEBER					
ZONE 6	BOX EL	DER, CACH	E, CARBON	BOX ELDER, CACHE, CARBON, DAGGETT, DUCHESNE, MORGAN, RICH, SUMMIT, UINTAH, WASATCH									

#### FENESTRATION

#### (IECC SECTIONS R303.13, R4023, R4025)

FENESTRATION (INCLUDING ALL WINDOWS AND DOORS) AND SKYLIGHT U-FACTORS ARE MAXIMUM ACCEPTABLE LEVELS. THE GLAZED FENESTRATION SHIGC MAXIMUMS APPLY TO ALL WINDOWS, SKYLIGHTS AND GLAZED DOORS. AN AREA-WEIGHTED AVERAGE OF FENESTRATION PRODUCTS IS PERMITTED TO SATISFY THESE REQUIREMENTS. (SEE IECC SECTION R402.3)

IIIINDOIU DOOR AND SKYLIGHT U-FACTORS AND SHGC'S MUST BE DETERMINED BY AN ACCREDITED, INDEPENDENT LABORATORY, AND LABELED AND CERTIFIED BY THE MANUFACTURER, IN ACCORDANCE WITH A NATIONAL FENESTRATION RATING COUNCIL (NFRC) RATING, PRODUCTS WITHOUT AN NFRC LABEL MUST USE THE DEFAULT VALUES IN IECC SECTION R303.13

WINDOWS, SKYLIGHTS, AND SLIDING GLASS DOORS MUST BE LABELED TO SHOW THAT THEY MEET THE IECC'S AIR INFILTRATION

UP TO 15 SQUARE FEET OF GLAZED FENESTRATION IS PERMITTED TO BE EXEMPT FROM THE U-FACTOR AND SHIGC REQUIREMENTS. ONE SIDE HINGED OPAQUE DOOR ASSEMBLY UP TO 24 SQUARE FEET IS EXEMPTED FROM THE FENESTRATION U-FACTOR REQUIREMENTS IN THERMALLY ISOLATED SUNROOMS. (IECC SECTION R402.3.5.)

#### (IECC SECTIONS R303.1.4 AND R4022)

INSULATION R-VALUES ARE MINIMUM ACCEPTABLE LEVELS AND MUST BE DETERMINED ACCORDING TO FEDERAL TRADE

R-VALUES FOR WALLS REPRESENT THE SUM OF CAVITY INSULATION PLUS INSULATED SHEATHING, IF ANY, THE SECOND R-VALUE FOR MASS WALLS APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR OF THE MASS WALL.

THE INSULATION FOR BASEMENT WALLS MUST BE FROM THE TOP OF THE WALL DOWN 10 FEET BELOW GRADE OR TO THE BASEMENT FLOOR, WHICHEVER IS LESS, BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED IN IECC FIGURE R301.1. INSULATION REQUIREMENTS FOR CRAWL SPACE WALLS ARE FURTHER SPECIFIED IN IECC SECTION R402.2.11

FLOOR INSULATION MUST BE INSTALLED TO MAINTAIN CONTACT WITH THE UNDERSIDE OF THE SUBFLOOR DECKING, REFER TO THE CODE FOR DETAILS ALLOWING INSULATION TO BE INSTALLED ON THE LOWER SIDE OF THE CEILING CAVITY.

ACCESS DOORS FROM CONDITIONED SPACES (E.G., ATTICS AND CRAWL SPACES TO UNCONDITIONED SPACES SHALL BE WEATHER STRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES. VERTICAL ACCESS DOORS ARE PERMITTED TO MEET THE FENESTRATION REQUIREMENTS.

INSULATION REQUIREMENTS FOR SLAB ON GRADE FLOORS ARE FURTHER SPECIFIED IN IECC SECTION R402.2.10. R-5 SHALL BE ADDED TO THE REQUIRED SLAB EDGE R-VALUES FOR HEATED SLABS.

SPECIAL INSULATION EXCEPTIONS RELATED TO CEILINGS WITH OR WITHOUT ATTIC SPACES, MASONRY VENEER AND THERMALLY ISOLATED SUNROOMS ARE SET FORTH IN IECC SECTION R402.

#### (IECC SECTION R4033)

DUCTS MUST BE TESTED AND VERIFIED TO HAVE TOTAL LEAKAGE OF NO MORE THAN 4cfm/100 SQ. FT. (OR 3cfm IF AIR HANDLER IS NOT INSTALLED), EXCEPT WHERE AIR HANDLER AND ALL DUCTS ARE LOCATED INSIDE CONDITIONED SPACE. AIR HANDLERS AND FILTER BOXES MUST ALSO BE PROPERLY SEALED.

SUPPLY AND RETURN DUCTS SHALL BE SEALED AND INSULATED AS FOLLOWS

00000	DUCT LOCATION	LESS THAN 3 INCHES IN DIAMETER	GREATER THAN 3 INCHES IN DIAMETER
	ATTIC	R-6	R-8
	OTHER PORTIONS OF THE BUILDING	R-4.2	R-6
	COMPLETELY INSIDE CONDITIONED SPACE	EXEMPT	EXEMPT

#### AIR SEALING

#### (IECC SECTION R402.4)

THE BUILDING ENVELOPE IS REQUIRED TO BE PROPERLY SEALED AND TESTED, AND VERIFIED AS HAVING AN AIR LEAKAGE RATE NO HIGHER THAN 3 ACH AT 02 INCH W.G. (50 PASCAL) IN CLIMATE ZONES 3, 5 AND 6. RECESSED LIGHTING MUST ALSO BE SEALED TO LIMIT AIR LEAKAGE.

### DOCUMENTATION (IECC SECTIONS RIØ3, R3Ø33, R4Ø13)

THE APPROPRIATE CONSTRUCTION DOCUMENTS AND PREVENTATIVE MAINTENANCE INFORMATION MUST BE PROVIDED, ALONG WITH A PERMANENT CERTIFICATE LISTING CERTAIN INSULATION, WINDOW AND HVAC PERFORMANCE INFORMATION ..

#### SYSTEMS

#### (IECC SECTION R403)

HVAC SYSTEM MUST BE PROPERLY SIZED IN ACCORDANCE WITH ACCA MANUAL S BASED ON BUILDING LOADS CALCULATED IN ACCORDANCE WITH ACCA MANUAL J OR OTHER APPROVED METHODOLOGIES, NEW OR REPLACEMENT HEATING AND COOLING EQUIPMENT MUST MEET OR EXCEED FEDERAL MINIMUM EFFICIENCY REQUIREMENTS FOR GEOGRAPHIC LOCATION IN WHICH IT IS

TEMPERATURE CONTROLS MUST BE INSTALLED, INCLUDING A PROGRAMMABLE THERMOSTAT WHERE REQUIRED.

MECHANICAL SYSTEM PIPING MUST BE INSULATED TO A MINIMUM OF R-3. HOT WATER PIPING MUST BE INSULATED TO R-3, WITH CERTAIN

SPECIFIC REQUIREMENTS APPLY TO CIRCULATING HOT WATER SYSTEMS, MECHANICAL VENTILATION, SNOW MELT SYSTEMS, AND

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#### LIGHTING

#### (IECC SECTIONS R202 AND R404.1)

A MINIMUM OF 15% OF LAMPS IN PERMANENTLY INSTALLED FIXTURES MUST BE HIGH-EFFICACY AS DEFINED IN THE IECC.

1/8" = 1'-0" 11x17 1/4" = 1'-0" 24x36 LAN NUMBER

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