

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

**ELEVATIONS:** 

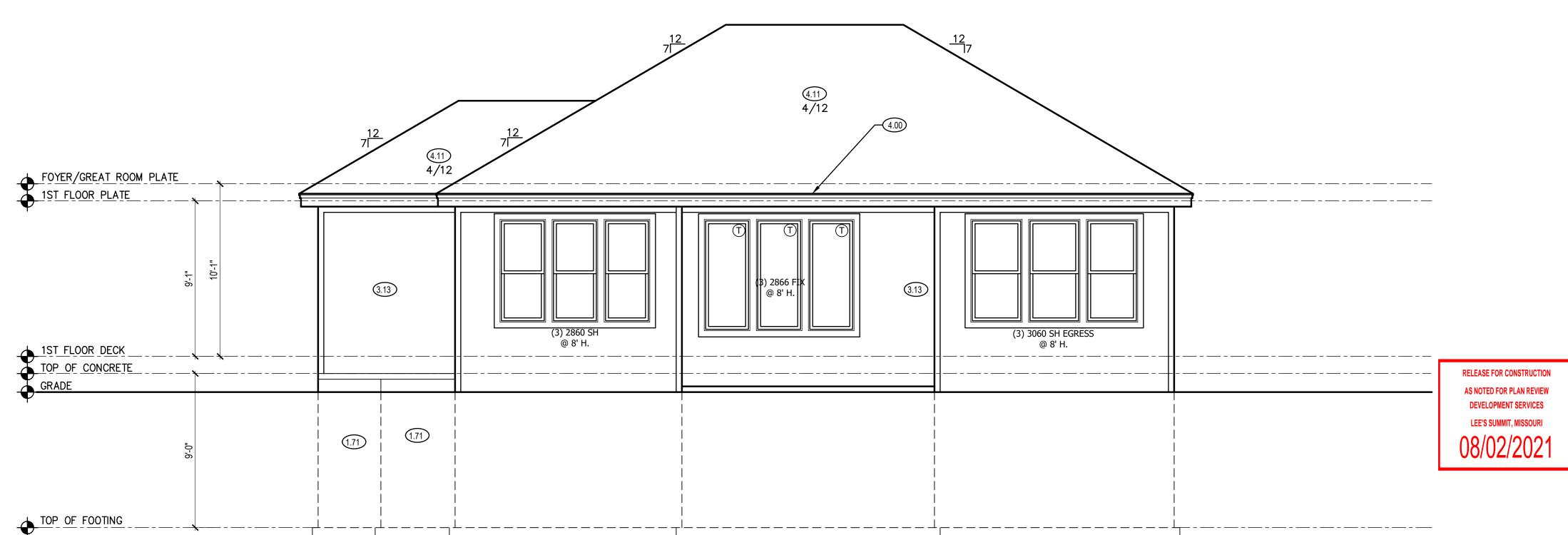
GARAGE DOORS SHALL MEET DASMA FOR ULTIMATE DESIGN WIND SPEED OF 115 MPH REQUIREMENTS. WALL FRAMING SHALL BE DOUGLAS FIR LARCH #2 UNLESS OTHERWISE NOTED. IN BEARING WALLS. STUDS WHICH ARE NOT MORE THAN TEN FEET IN LENGTH

SHALL BE SPACED NOT MORE THAN IS SPECIFIED BY IRC TABLE R602.3(5) FOR CORRESPONDING STUD SIZE. WATER-RESISTIVE EXTERIOR WALL BARRIER IN WALL SECTION SHALL COMPLY

DIAPHRAGM SHALL COMPLY WITH IRC R602.3. ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

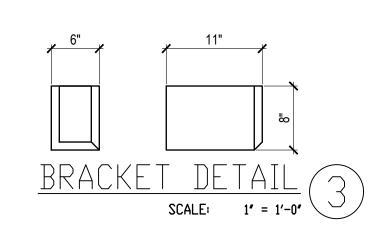
WHEN APPLICABLE, CONTINUOUS STUDS BETWEEN FLOOR AND ROOF/CEILING

SHIPLAP SIDING MUST BE FASTENED AT BOTH UNDERLAP AND OVERLAP.



FRONT & REAR ELEVATION NOTES

- 1.12 TOP OF FOOTING DEPTH DETERMINED PER SITE.
- 1.41 6X6 CEDAR POST
- 1.71 CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVED SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION.
- 2.62 DOUBLED 1X8" LP SMART TRIM. 1 1/2" ARCH ON GARAGE DOOR TRIM UNLESS NOTED OTHERWISE ON ELEVATION.
- 3.11 LP SMART LAP SIDING WITH 5/4X6 LP SMART TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE.
- 3.13 LP SMART PANEL SIDING WITH 3/4X4 LP SMART TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. BOTTOM OF SIDING SHALL BE A MINIMUM OF 6" ABOVE GRADE.
- 3.14 CEDAR SHAKE SHINGLE SIDING.
- 3.17 MANUFACTURED STONE VENEER.
- 3.18 CAST STONE CAP
- 3.45 BOX BASE WITH STONE VENEER TO 4'-6" AND 6X6 CEDAR POST. SEE PLAN FOR FINISHED SIZE.
- 3.55 6"X8"X11" CEDAR CORBEL WITH CHAMFERED EDGES 3.62 CEDAR SHUTTERS. ALL SHUTTERS TO BE 18" WIDE USING (3) 2X6 BOARDS. LP SMART TRIM TO BE INSTALLED AROUND WINDOW PRIOR TO SHUTTER INSTALLATION.
- 4.00 COVERING WILL HAVE 1 ROOF VENT AND 4 SOFFIT
- 4.11 MINIMUM ROOFING COMPOSITION— 30 YR COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR AS REQUIRED BY CODE.
- 4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.



## **GENERAL NOTES**

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.

WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.

# **SHEET INDEX**

- A1. FRONT AND REAR ELEVATION
- A2. LEFT AND RIGHT ELEVATION
- A3. FOUNDATION LEVEL PLAN
- A4. MAIN LEVEL PLAN
- A6. ROOF PLAN

| FINISHED                 |      |
|--------------------------|------|
| MAIN FLOOR               | 1787 |
| LOWER LEVEL              | 1013 |
|                          |      |
| TOTAL                    | 2800 |
|                          |      |
| UNFINISHED               |      |
| LOWER LEVEL - UNFINISHED | 561  |
| COVERED PATIO            | 148  |

| UNFINISHED              |     |
|-------------------------|-----|
| OWER LEVEL - UNFINISHED | 561 |
| OVERED PATIO            | 148 |
| ARAGE                   | 650 |

| ENGINEER  | TRUSS   | I-JOIST |
|-----------|---------|---------|
| EVERSTEAD | WHEELER |         |

**REVISIONS** 

| SHEET | NUN |
|-------|-----|
|       |     |

DESCRIPTION

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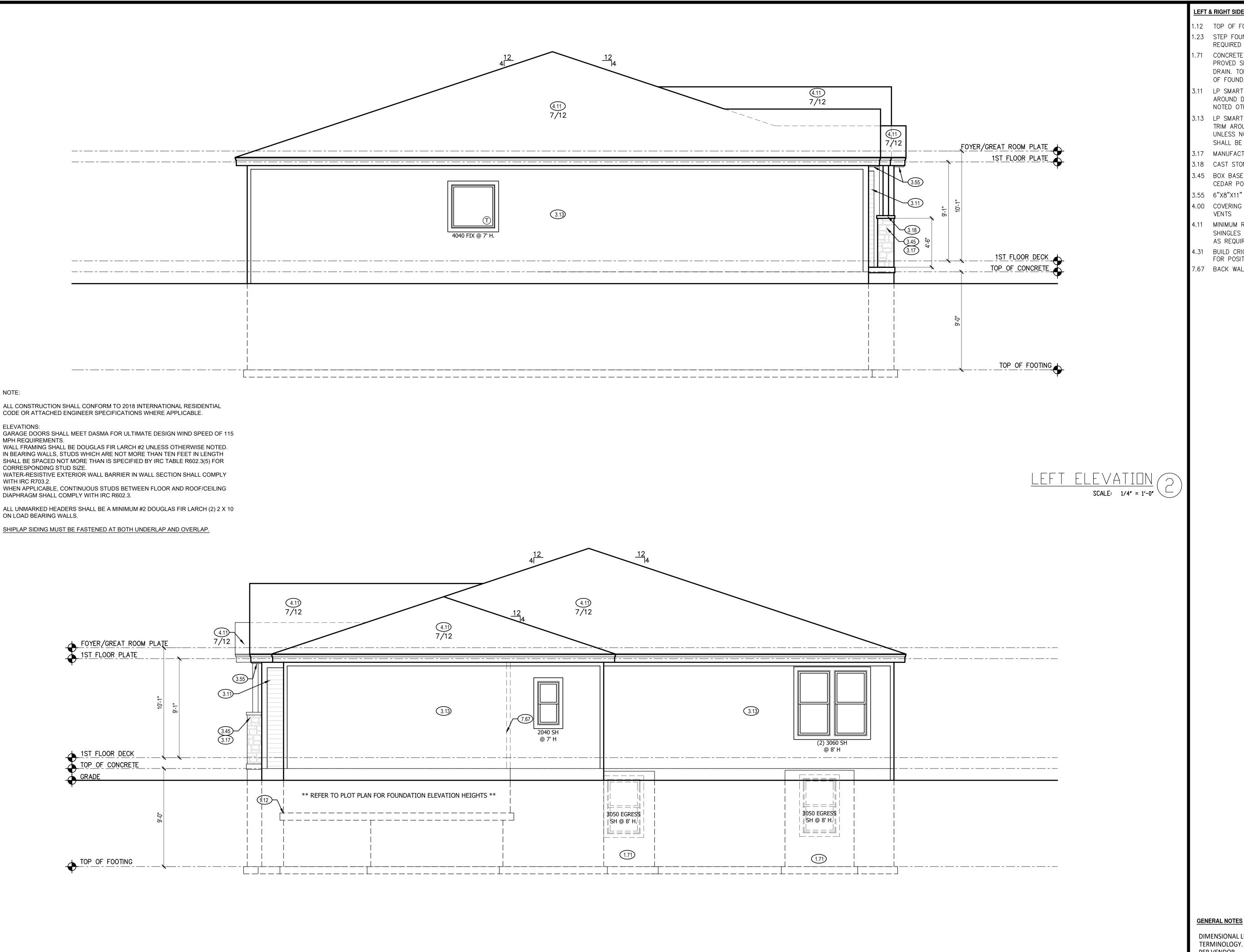
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**EVERSTEAD** 600 SW JEFFERSON SUITE 300 LEE'S SUMMIT, MO 64063 816-399-4901

> DRAWN BY: C.HOOPER

**ISSUE DATE:** 07.07.21



LEFT & RIGHT SIDE ELEVATION NOTES

- 1.12 TOP OF FOOTING DEPTH DETERMINED PER SITE.
- 1.23 STEP FOUNDATION TO BELOW FROST LINE AS REQUIRED PER SITE
- 1.71 CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVED SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION.
- 3.11 LP SMART LAP SIDING WITH 5/4X6 LP SMART TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE.
- 3.13 LP SMART PANEL SIDING WITH 3/4X4 LP SMART TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. BOTTOM OF SIDING SHALL BE A MINIMUM OF 6" ABOVE GRADE
- 3.17 MANUFACTURED STONE VENEER.
- 3.18 CAST STONE CAP
- 3.45 BOX BASE WITH STONE VENEER TO 4'-6" AND 6X6 CEDAR POST. SEE PLAN FOR FINISHED SIZE.
- 3.55 6"X8"X11" CEDAR CORBEL WITH CHAMFERED EDGES
- 4.00 COVERING WILL HAVE 1 ROOF VENT AND 4 SOFFIT VENTS
- 4.11 MINIMUM ROOFING COMPOSITION— 30 YR COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR AS REQUIRED BY CODE.
- 4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.
- 7.67 BACK WALL OF GARAGE.

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> DRAWN BY: C.HOOPER

ISSUE DATE: 07.07.21

SCALE: 1/4" = 1'-0"

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.

WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.

SHEET NUMBER:

NOTE:

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

FOUNDATION NOTES:

ALL FOOTINGS MEET OR EXCEED MINIMUM FROST DEPTH OF 36".

SOIL BEARING CAPACITY SHALL BE 1500 PSF.

COMPRESSIVE STRENGTH OF CONCRETE F'C COMPRESSIVE STRENGTH SHALL BE
AS SPECIFIED IN IRC TABLE R402.2. REQUIRED AIR ENTRAINMENT SHALL BE 5-7%.
ALL FOUNDATION WALLS ENCLOSING BELOW GRADE SPACE SHALL BE
DAMPPROOFED. DAMPPRROFING SHALL EXTEND FROM THE EDGE OF THE
FOOTING TO THE FINISHED GRADE (R-406.1). METHOD OF DAMPPROOFING OR
WATERPROOFING SHALL BE A MINIMUM 6-MIL THICK MOISTURE BARRIER OVER
POROUS GRAVEL BASE UNDER BASEMENT FLOOR SLAB PER R405.2.2. LAP JOINTS
SHALL BE A MINIMUM 6".

FOUNDATION WALLS SHALL BE DAMPPROOFED PER IRC SECTION R406.
FOUNDATION DRAINAGE WILL BE IN ACCORDANCE WITH WITH IRC SECTION R405.
BASEMENT EGRESS OPENINGS SHALL BE IN ACCORDANCE WITH IRC SECTION

ALL INTERIOR FOOTINGS OF LOAD BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB.

ALL ANCHOR BOLTS SHALL NOT BE SPACED MORE THAN 6' O.C. AND BEW8 x 10 - 3.94"

EMBEDDED INTO THE CONCRETE A MINIMUM OF 7".

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

BACKFILL SHALL NOT BE PLACED AGAINST THE WALL UNTIL THE WALL HAS SUFFICIENT STRENGTH OR HAS BEEN SUFFICIENTLY BRACED TO PREVENT DAMAGE BY BACKFILL.

IF BASEMENT SLAB ELEVATION IS ABOVE GRADE CONSULT ENGINEER.

GIRDER TRUSS BEARING:
MIN. STUD PACK OF (4) 2 x 4 OR (4) 2 x 6 DOUGLAS FIR
LARCH #2 (DEPENDING ON WALL THICKNESS) BELOW
EACH BEARING POINT OF EACH GIRDER TRUSS,
UNLESS OTHERWISE NOTED. STUD PACKS SHALL BE
CARRIED DOWN TO FOUNDATION OR LOAD
SUPPORTING MEMBER.

PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.

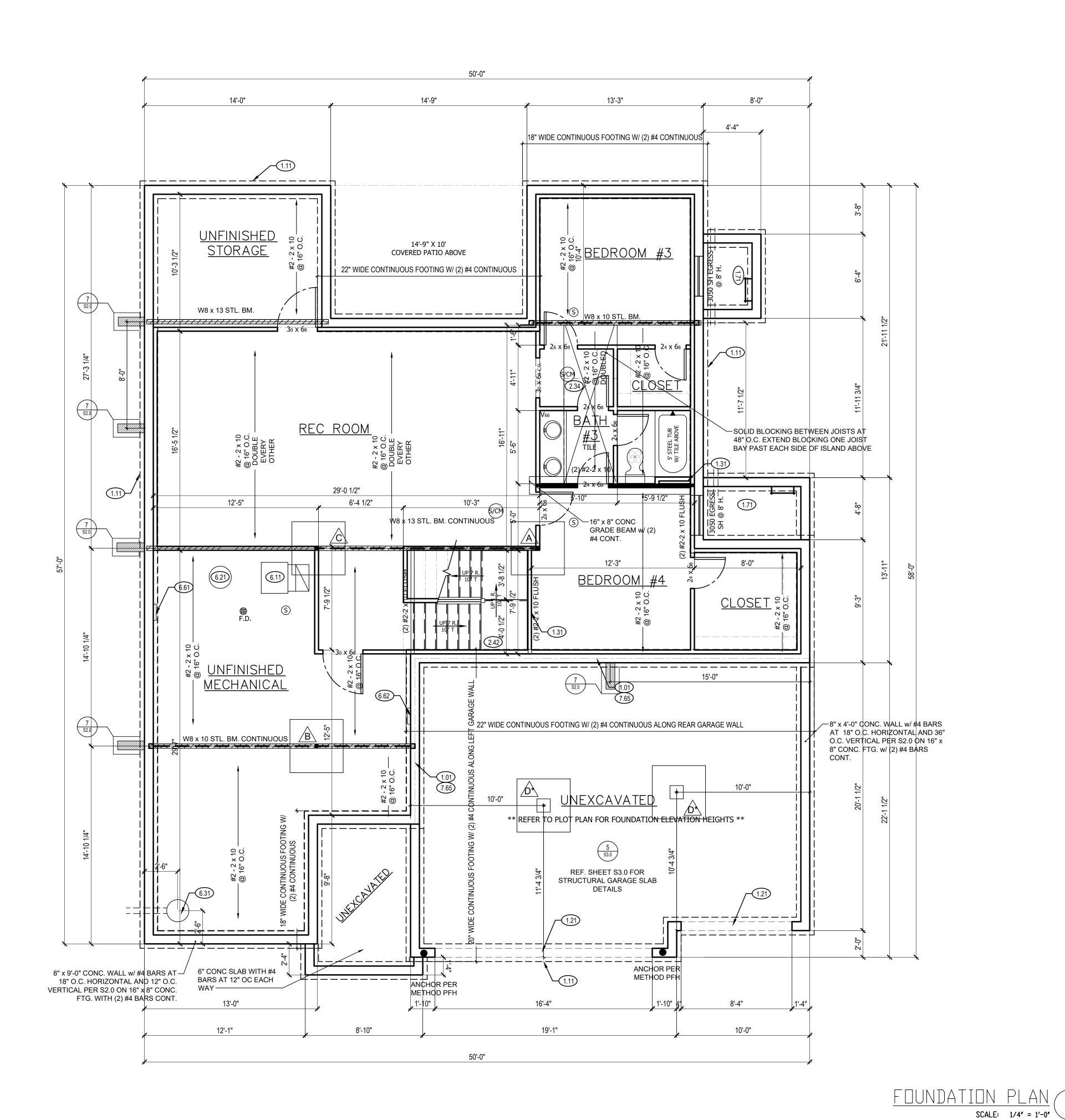
STEEL BEAM FLANGE WIDTH: W8 x 10 - 3.94" W8x13 - 4"

| IS  | SOLATE              | D FO       | OTINGS AND COLU                                | JMN PADS   |
|-----|---------------------|------------|--|--|
| MYZ | PIER<br>PAD<br>SIZE | DEPTH      | MINIMUM<br>REINFORCEMENT GRADE<br>60 KSI STEEL | SCHEDULE 40<br>STEEL<br>COLUMN, MIN<br>FY = 35 KSI |
| A   | 30″×30″             | 1'-0"      | (5) #4 BAR E.W.                                | 3" DIAMETER  |
| B   | 36″×36″             | 1'-0"      | (6) #4 BAR E.W.                                | 3" DIAMETER  |
| c   | 42″×42″             | 1′-2″      | (7) #4 BAR E.W.                                | 3" DIAMETER  |
| D   | 48″×48″             | 1'-4"      | (8) #4 BAR E.W.                                | 3" DIAMETER  |
| E   | 54″×54″             | 1'-4"      | (9) #4 BAR E.W.                                | 3.5″ DIAMETER                                      |
| F   | 60″×60″             | 1′-6″      | (10) #4 BAR E.W.                               | 3.5" DIAMETER                                      |
| ANY | SIZE F              | <br>]DTING | WITH AN (*)                                    | NO COLUMN<br>NEEDED                                |

# ISOLATED FOOTINGS AND COLUMN PADS

| MYS         | PIER<br>DIAMETER | DEPTH | MINIMUM REINFORCEMENT GRADE 40<br>KSI STEEL |
|-------------|------------------|-------|---|
| G           | 12″              | 3'-0" | (4) VERTICAL #4                             |
|             | 16″              | 3'-0" | (4) VERTICAL #4                             |
| $\triangle$ | 18″              | 3′-0″ | (4) VERTICAL #4                             |
| Ŕ           | 24″              | 3′-0″ | (4) VERTICAL #4                             |
| $\triangle$ | 28″              | 3′-0″ | (4) VERTICAL #4                             |

COLUMN AND PAD SIZES ARE FOR A MAXIMUM COLUMN HEIGHT OF 10'. COLUMNS GREATER THAN 10' REQUIRE A SEPARATE ENGINEERED DESIGN. FOOTINGS A-F SPACING OF 6" O.C. WITH 3" CLEAR COVER.



#### **FOUNDATION PLAN NOTES**

- 1.01 HOLD SILL PLATE BACK 4"
- 1.11 CONTINUOUS CONCRETE FOOTING
- 1.21 RECESS TOP OF FOUNDATION WALL
- ZI RECESS FOR OF FOUNDATION WALL
- 1.31 2X4 STUD WALL WITH TREATED SILL PLATE1.71 CONCRETE WINDOW WELL FOR EGRESS WITH L
- 1.71 CONCRETE WINDOW WELL FOR EGRESS WITH LADDER.
  PROVED SLEEVE THROUGH WALL FOR FOUNDATION
  DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP
  OF FOUNDATION.
- 2.34 PROVIDE ADDITIONAL BRACING FOR ISLAND ABOVE.2.42 FIRE RATED SHEETROCK UNDER STAIRS
- 6.11 DIRECT FURNACE. FUEL BURNING APPLIANCES SHALL BE DIRECT VENTED TO EXTERIOR FOR COMBUSTION
- 6.21 HOT WATER HEATER WITH THERMAL EXPANSION CONTROL DEVICE
- 6.31 SUMP PIT AND PUMP. PROVIDE ELECTRICAL GFCI
- PROTECTION. PROVIDE SLEEVE THROUGH FOOTING.

  6.41 HVAC CHASE ABOVE
- 6.61 200 AMP ELECTRICAL PANEL. LOCATION TO BE DETERMINED ON SITE.
- 6.62 UFER GROUND- VERIFY LOCATION WITH PROJECT MANAGER.

CPG DBA

SUMMIT
HOMES

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SOMERVIEW
CRAFTSMAN
ESERVE AT STONEY CREEK #69



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EVERSTEAD 600 SW JEFFERSON SUITE 300 LEE'S SUMMIT, MO 64063

816-399-4901

# GENERAL NOTES

BACK WATER VALVES REQUIRED ON ALL BASEMENT PLUMBING FIXTURES. PROVIDE MEANS OF CONTROLLING PRESSURE CAUSED BY THERMAL EXPANSION.

ALL SILLS & SLEEPERS SUPPORTED ON CONCRETE OR MASONRY SHALL BE OF DECAY-RESISTANT MATERIALS.

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.

ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" O.C.

SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS.

WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.

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SHEET NUMBER:

A3.0

DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS

ALL WALLS UNDER 12' SHALL BE DOUGLAS FIR LARCH #2 2X4 STUDS AT 16" O.C. FULL

ALL WALLS 12' AND OVER SHALL BE DOUGLAS FIR #2 (M-12) LUMBER 2x6 STUDS AT 16"

EXTERIOR BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL

EXTERIOR WALL BRACING 15/32" PANEL THICKNESS OSB WITH 24/0 STRUCTURAL PANEL SPAN RATING. 1-3/8" MIN PEN, 8d FASTENERS AT 6" FOR PANEL EDGES AND 12" IN FIELD. INSTALL BLOCKING AT BASE, MID-HEIGHT AND TOP OF WINDOWS. WOOD STRUCTURAL PANEL SHEATHING CONTINUOUS OVER BAND JOIST OR RIM JOIST

WITH MINIMUM LAP OF 9-1/4". ATTACH SHEATHING WITH MINIMUM 8D COMMON NAILS AT 3" O.C. AT TOP AND BOTTOM OF BAND/RIM JOIST.

MINIMUM LIB LENGTH PER 2018 IRC TABLE R602.10.5:

LEDGERS(FLOOR AND CEILING) SHALL BE IN ACCORDANCE WITH IRC 507.

A MINIMUM OF DOUBLE JOIST UNDER EACH BEARING WALL IS REQUIRED.

**BRACING METHODS** 

EXTERIOR BRACING CS-PF PER IRC R602.10

FOR CS-PF ABOVE: WOOD STRUCTURAL PANEL SHEATHING CONTINUOUS OVER <u>BAND JOIST OR RIM JOIST WITH MINIMUM LAP OF 9-1/4". ATTACH SHEATHING WITH</u>

<u>MINIMUM 8D COMMON NAILS AT 3" O.C. AT TOP AND BOTTOM OF BAND/RIM JOIST</u>

EXTERIOR BRACING CS-WSP PER IRC R602.10

INTERIOR BRACING LIB PER IRC R602.10

EXTERIOR BRACING PFH (SEE DETAILS) PER IRC R602.10.5

SPECIFIED THICKNESS OF OSB SHALL BE INSTALLED UNDERNEATH LP LAP SIDING

LP PANEL SIDING - 7/16" GROOVED SHALL BE EQUIVALENT TO  $\frac{3}{8}$ " THICK OSB. OSB MAY BE

INTERIOR LOAD BEARING WALL (EXTERIOR WALLS ARE

4040 FIX @ 7' H.

6'-4 1/2"

4040 FIX

@ 7' H.

EXTEND TUB DECK
BELOW GLASS PANEL

SCALE:  $\frac{1}{4}$ " = 1'-0"

OMITTED UNDERNEATH 7/16" GROOVED PANEL SIDING IN AREAS REQUIRING 3" THICK

INSTALL FASTENERS AND NAILING PATTERN PER 2018 IRC SECTION R602.10.

ASSUMED LOAD BEARING)

3 STUD CURB, -

HYDRORAIL SHOWER HEAD

RE: 3/A4

2'-4" GLASS DOO

3 STUD CURB,

PANELS PER IRC R602.10.5.2)

55" - 8' TALL WALL HEIGHT

62" - 9' TALL WALL HEIGHT

EXTERIOR WALL SHEATHING SHALL BE AS FOLLOWS:

3" THICK OSB FOR METHODS: WSP, CS-WSP AND PFH

AND/OR ENGINEERED BRACED WALL PANELS.

 $\frac{7}{6}$ " THICK OSB FOR METHOD CS-PF.

69" - 10' TALL WALL HEIGHT

ALL CANTILIEVERS SHALL HAVE AT LEAST A 3:1 BACK SPAN.

O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED)

N1102.4.1 AND TABLE N1102.4.1.1).

FLOOR PLANS:

KXXXXXXXX

SHALL BE SEALED (2018 IRC SECTION N1103.2.2)

IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL) BASEMENT° SLAB R-VALUE CRAWL SPACE CEILING WOOD FRAME WALL WALL CLIMATE | FENESTRATION | SKYLIGHT' FENESTRATION U-FACTOR<sup>b</sup> U-FACTOR R-VALUE R-VALUE WALL R-VALUE & DEPTH R-VALUE R-VALUÉ R-VALUE 4 EXCEP 10, 2 FT .32 8/13 10/13 10/13 20 OR 13+5 MARINE

**GIRDER TRUSS BEARING:** MIN. STUD PACK OF (4) 2 x 4 OR (4) 2 x 6 DOUGLAS FIR LARCH #2 (DEPENDING ON WALL THICKNESS) BELOW EACH BEARING POINT OF EACH GIRDER TRUSS, UNLESS OTHERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN TO FOUNDATION OR LOAD SUPPORTING MEMBER.

PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.

# MAIN FLOOR PLAN NOTES

- .22 EXPOSED TOP OF FOUNDATION WALL.
- 2.11 DOUBLE 2X4 STUD WALL
- 2.31 SIX SIDED TUB ASSEMBLY INCLUDING THERMOPLY ON EXTERIOR WALL TO 2" ABOVE TOP OF TUB DECK OR TUB/SHOWER UNIT
- 2.41 CURB STAIR SYSTEM WITH OPEN HANDRAILS
- 2.51 3 STUDS BETWEEN WINDOW UNITS

- 3.45 BOX BASE WITH STONE VENEER TO 4'-6" AND 6X6 CEDAR POST. SEE PLAN FOR FINISHED SIZE.
- 4.51 SINGLE BOX VAULT
- 5.05 HOSE BIBB
- 5.22 TILE BASE WITH TILE WALLS. SEE DETAIL.
- 6.42 HVAC FLOOR OPENING. HEADER OFF FLOOR JOISTS AS REQUIRED. BUMP TRUSSES AS NECESSARY FOR HVAC ACCESS.
- 6.51 1'-10"X3'-0" MINIMUM ATTIC ACCESS WITH 3/4" BACKER BOARD AND 2 LATCHES. BUMP TRUSSES FOR ATTIC ACCESS.
- 7.21 DIRECT VENT FIREPLACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FIREPLACE PLATFORM DIMENSIONS 7  $\frac{3}{4}$ " TALL, 37" WIDE, 16" DEEP. INSTALL INSULATION AND AIR BARRIER BEHIND PLATFORM.
- 7.41 OPEN HANDRAILS
- 7.42 PROVIDE ADDITIONAL BLOCKING UNDER SUBFLOOR @ 6'-0" O.C. FOR OPEN HANDRAIL.
- 7.71 20 MINUTE FIRE RATED SOLID CORE WITH
- SELF-CLOSING HINGES 7.72 FLAT ASTRAGAL LOCK- +1" ON ROUGH OPENING
- FOR UPPER DOOR LOCK 7.88 CHANGE IN FLOORING MATERIAL
- 8.14 24" CABINET + 24" OVERHANG WITH LEGS. VERIFY LOCATION WITH PERSONAL BUILDER.
- 8.22 CONTINUOUS FLAT VANITY
- 8.44 BENCH WITH COAT HOOKS
- 8.52 FOLDING TABLE

**CPG DBA** 2.12 2X6 STUD WALL

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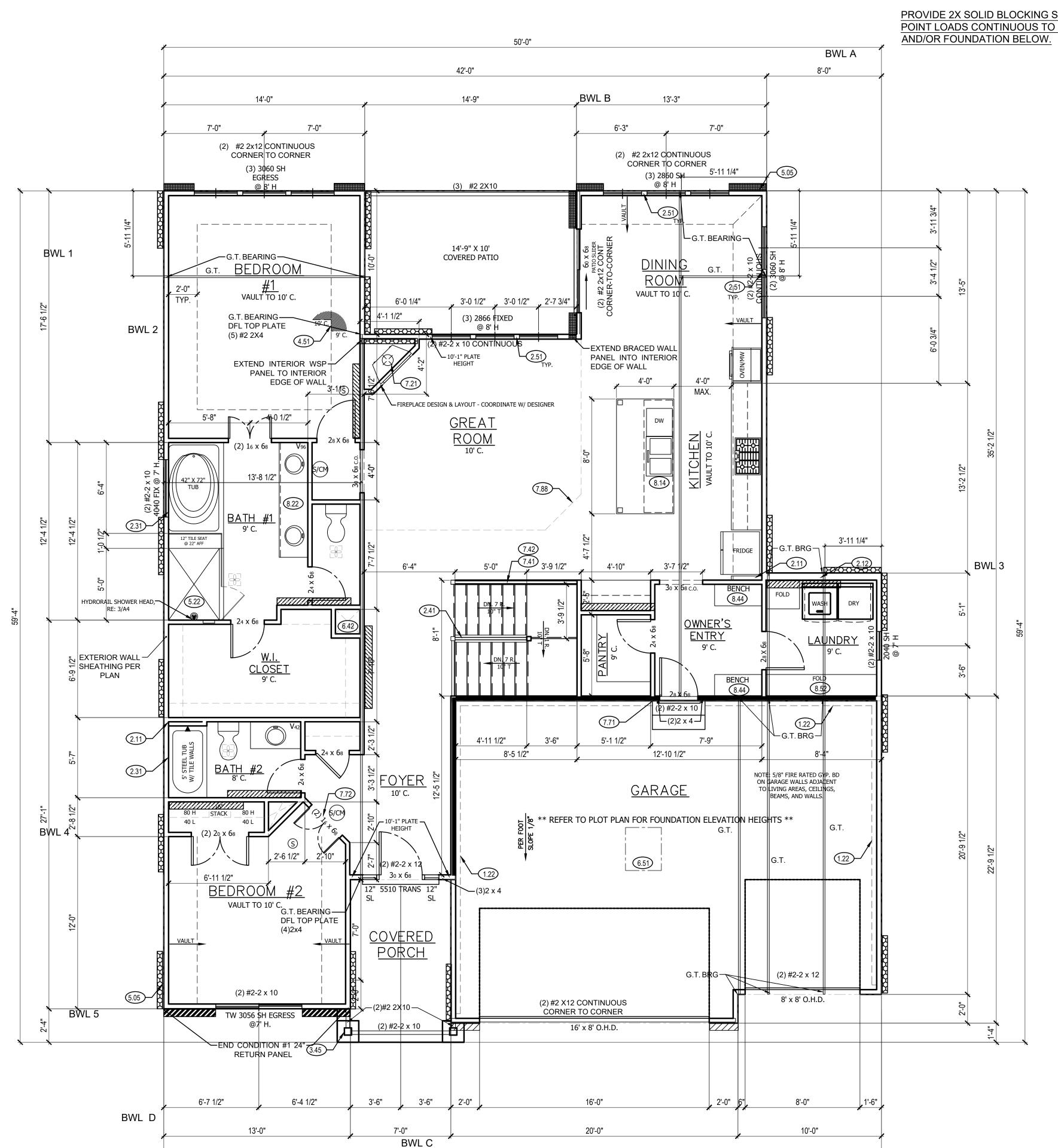
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> DRAWN BY: C.HOOPER

**ISSUE DATE:** 07.07.21

SHEET NUMBER:

REQUIREMENTS. SCALE: 1/4" = 1'-0"



50'-0"

MANUFACTURE REQUIREMENTS. ONE VALVE, TWO SHOWER HEADS. ONNECT HAND HELD UNIT AT BOTTOM OF RAIL AND STATIC UNIT AT TOP OF RAIL.

HYDRORAIL SHOWER SYSTEM SCALE: NTS

HYDRORAIL YSTEM PER

# **GENERAL NOTES**

WINDOWS TO COMPLY WITH IRC R312.2 FOR FALL PROTECTION.

ALL EXTERIOR WALLS, INTERIOR BEARING WALLS, AND INTERIOR BRACED WALLS ARE AT 16" O.C. UNLESS NOTED OTHERWISE.

ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" O.C.

ROOF AND CEILING FRAMING ARE PRE-ENGINEERED WOOD TRUSSES UNLESS NOTED OTHERWISE.

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.

HVAC DUCTWORK RUNNING THROUGH THE ATTIC SPACE SHALL BE HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION SURROUND.

PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.

2X6 EXTERIOR WALL OVER 12' SHALL BE DOUGLAS FIR #2.

SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL

TRUSS ROOF NOTES: (BY OTHERS)

1) DESIGNED FOR LIGHT ROOF COVERING
TOP CHORD:
LIVE LOAD/SNOW LOAD (PSF): 25
DEAD LOAD (PSF): 10
BOTTOM CHORD:
DEAD LOAD(PSF): 10

2) ALL EXTERIOR AND/OR LOAD BEARING WALL HEADERS
SHALL BE MIN. (2) #2 2 x 10 UNLESS OTHERWISE NOTED.

3) CONSULT ENGINEER IF TRUSSES BEAR ON INTERIOR WALLS
SHOWN AS NON-LOAD BEARING ON APPROVED PRINTS.

4) ROOF IS ENGINEERED TO COMPLY WITH IRC 802

= ROOF TRUSS FRAMING DIRECTION
"G.T." = GIRDER TRUSS LOCATION
= INTERIOR LOAD BEARING WALL

NOTE

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

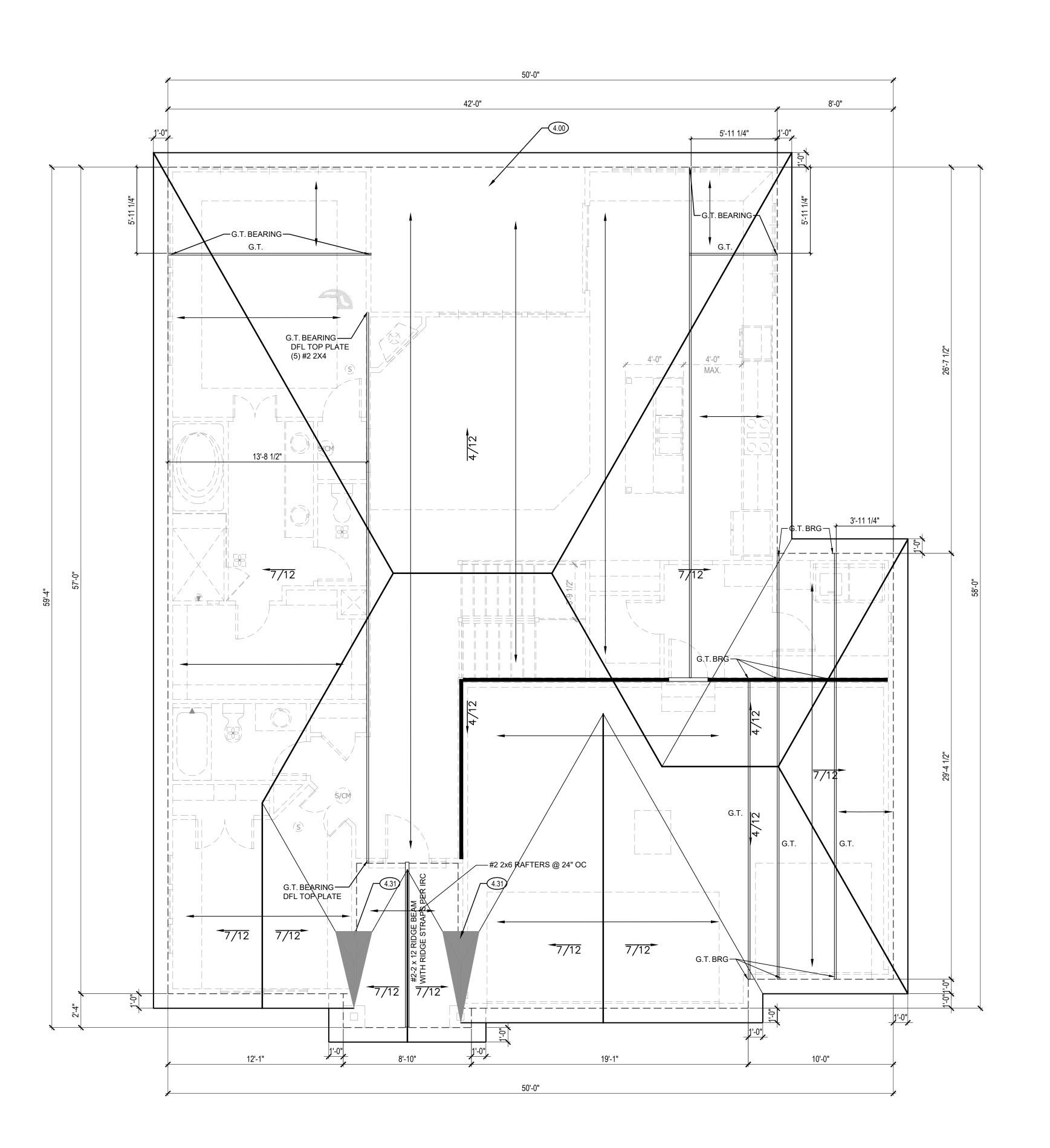
ROOF.

ROOF IS DESIGNED FOR 20 PSF SNOW LOAD.
WOOD TRUSSES SHALL BE IN ACCORDANCE WITH IRC SECTION R802.10.
CEILING JOIST OR RAFTER TIE CONNECTIONS BETWEEN RAFTERS, RIDGE BEAM,
REQUIRED COLLAR TIES OR RIDGE STRAPS SHALL COMPLY WITH DETAILS AND
IRC SECTION R802, R802.3, R802.3.1, R802.11.

GIRDER TRUSS BEARING:

MIN. STUD PACK OF (4) 2 x 4 OR (4) 2 x 6 DOUGLAS FIR LARCH #2 (DEPENDING ON WALL THICKNESS) BELOW EACH BEARING POINT OF EACH GIRDER TRUSS, UNLESS OTHERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN TO FOUNDATION OR LOAD SUPPORTING MEMBER.

PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.



### ROOF PLAN NOTES

- 4.00 COVERING WILL HAVE 1 ROOF VENT AND 4 SOFFIT VENTS
- 4.11 MINIMUM ROOFING COMPOSITION— 30 YR COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR AS REQUIRED BY CODE.
- 4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.



LEE'S SUMMIT, MO 64082

816-246-6700

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ADDRESS: 1517 SW GEORGETOWN DR

LEE'S SUMMIT, MO

SOMERVIEW
CRAFTSMAN
RESERVE AT STONEY CREEK #69



EVERSTEAD IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS WERE PRODUCED BY OTHERS.

EVERSTEAD 600 SW JEFFERSON SUITE 300 LEE'S SUMMIT, MO 64063 816-399-4901

# GENERAL NOTES

SCALE: 1/4" = 1'-0"

ROOF AND CEILING FRAMING ARE PRE-ENGINEERED ROOF TRUSSES.

ASPHALT SHINGLES MIN 2/12. FLASH ALL PENETRATIONS AND INTERSECTIONS.

VENT EACH ENCLOSED ATTIC SPACE. NET AREA OPENING = 1/50TH OF VENTED AREA OR 1/300TH IF 580% OF VENTING NEAR TOP.

BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE. SEE FRAMING SPECIFICATIONS FOR

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.

HVAC DUCTWORK RUNNING THROUGH ATTIC SHALL BE HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION SURROUND.

PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.

PROVIDE FOAM INSULATION AT EXTERIOR WHERE MAIN LEVEL ROOF LINE MEETS UPPER LEVEL WALLS.

DRAWN BY: C.HOOPER

ISSUE DATE: 07.07.21

SHEET NUMBER:

A56

RELEASE FOR CONST.

EVEL WALLS.

RELEASE FOR CAS NOTED FOR DEVELOPMENT

#### GENERAL NOTES

PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) WITH AMENDMENTS AS ADOPTED BY THE APPROPRIATE GOVERNING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CHANGES OR DEVIATIONS FROM THE PLAN ARE MADE DURING CONSTRUCTION. THE ENGINEER OF RECORD MAY REQUIRE REVISED DRAWING OR CALCULATIONS AT ITS DISCRETION.

IF DISCREPANCIES ARE IDENTIFIED THE MOST CONSERVATIVE SPECIFICATION SHALL APPLY.

# **LOADING**

| LIGHT ROOF                       | 10 PSF               |                        |
|----------------------------------|----------------------|------------------------|
| HEAVY ROOF                       | +10 PSF              | (CONCRETE, SLATE, TILE |
| ROOF + CEILING (NO STORAGE)      | 15 PSF               | •                      |
| ROOF + CEILING (STORAGE)         | 20 PSF               |                        |
| CEILING JOISTS (STORAGE)         | 10 PSF               |                        |
| EXTERIOR BACONIES / DECK         | 10 PSF               |                        |
| INTERIOR FLOOR (MAIN FLOOR)      | 15 PSF               |                        |
| INTERIOR FLOOR (UPPER FLOORS)    | 10 PSF               |                        |
| 8" THICK MASONRY WALL            | 80 PSF               |                        |
| 6" THICK MASONRY WALL            | 85 PSF               |                        |
| EXTERIOR LIGHT FRAMED WOOD WALLS | 15 PSF               |                        |
| INTERIOR LIGHT FRAMED WOOD WALLS | 10 PSF*              |                        |
| *(INTERIOR WALLS                 | <b>INCLUDED IN 1</b> | 5 PSF DEAD LOAD)       |

| LIVE  |                            |                  |
|---|----------------------------|------------------|
| ROOF LIVE LOAD<br>FLOOR LIVE LOAD<br>GARAGE           | 15 PSF<br>40 PSF<br>50 PSF | (HABITABLE)      |
| STORAGE<br>GUARDRAIL                                  | 20 PSF                     | (UN-INHABITABLE) |
| CONTINUOUS LINEAR MAXIMUM POINTLOAD                   | 50 PLD<br>200 LBS          |                  |
| SNOW  |                            |                  |
| GROUND SNOW LOAD                                      | 20 PSF                     |                  |
| WIND  |                            |                  |
| ULTIMATE DESIGN WIND SPEED VELOCITY EXPOSURE CATEGORY | 115 MPH<br>B               |                  |

## SOIL AND SITE ASSUMPTIONS:

- FOUNDATION DESIGN ASSUME A MINIMUM SOIL BEARING PRESSURE FOR THE SITE OF 1,500 PSF CONTRACTOR TO VISUALLY INSPECT SITE OR PROVIDE GEOTECHNICAL INVESTIGATION TO VERIFY MINIMUM ACCEPTABLE SOIL CONDITIONS SW, SP, SM, SC, GM, AND GX AS DEFINED PER IRC TABLE R301.5. THE CONTRACTOR IS RESPONSIBLE FOR ANY SOIL CONDITION THAT DOES NOT MEET THE MINIMUM REQUIREMENTS AND CONTACTING THE ENGINEER OF RECORD.
- PROVIDE A MINIMUM SOIL COVER OF <u>36 INCHES MEASURED FROM THE BOTTOM OF CONCRETE ON</u> ALL FOUNDATIONS.
- ACCESSORY STRUCTURES WITH AN EAVE HEIGHT LESS THAN 10'-0" AND AN AREA LESS THAN 600 FT2 MAT PROVIDE A MINIMUM SOIL COVER OF 12 INCHES MEASURED FROM THE BOTTOM OF CONCRETE.
- 4. SITE GRADING SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE AT A MINIMUM OF
- 5. LATERAL SOIL PRESSURES ACTIVE 30 PSF AT-REST 60 PSF PASSIVE 150 PSF

# FOUNDATION NOTES:

# FOUNDATION ANCHORAGE (IRC 403.1.6)

SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WALL WITH A MINIMUM 1/2" DIAMETER ANCHOR BOLTS EMBEDDER AT LEAST 7" INTO THE CONCRETE. BOLTS SHALL BE SPACED NO GREATER THAN 6' 0.C. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PLATE SECTION, WITH A BOLT PLACED WITHIN 12" AND NOT CLOSER THAN 7 BOLT DIAMETERS, OF THE END OF EACH PLATE SECTION. A PROPERLY SIZED NUT AND WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE, (NOTE: 7" EMBEDMENT + 1-1/2" SILL PLATE + 3/4" FOR NUT AND WASHER EXCEEDS A 9" LONG BOLT.)

# WALL BRACING METHODS PER IRC R602 MAY REQUIRE ADDITIONAL ANCHORAGE.

CONCRETE SLABS PLACED ON FILL MATERIAL WHICH EXCEEDS 24" OF COMPACTED GRANULATED MATERIAL (SAND OR GRAVEL) OR 8" OF EARTH: THIS MAY OCCUR AT GARAGE FLOOR FILLS. OR OVER EXCAVATED AREAS UNDER FLOOR SLABS. THE DESIGN AND INSTALLATION DETAILS IN THIS DOCUMENT (WHERE APPLICABLE BASED ON SIZE AND SPACING LIMITATIONS) MAY BE USED IN LIEU OF PROVIDING A SEPARATE DESIGN. STRUCTURAL SLABS EXCEEDING THE SPANS AND CONDITIONS OF THE APPROVED DETAILS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.

#### SLABS AT MAX 4' OVER-DIG ADJACENT TO FOUNDATION WALL: WHERE SOIL IS EXCAVATED FOR A MAXIMUM DIMENSION OF 4' HORIZONTALLY ADJACENT TO A

FOUNDATION WALL, THE STANDARD OVER-DIG DETAIL MAY BE USED IN LIEU OF A COMPLETE STRUCTURAL SLAB. SEE "TYPICAL FOOTING/FOUNDATION WALL/STANDARD SLAB AT MAX 4' OVER-DIG DIAGRAM FOR DETAILS.

# VAPOR RETARDER / BARRIER (IRC R506.2.3)

A 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED A MINIMUM OF 6" IS REQUIRED BETWEEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE OR PREPARED SUBGRADE, (NOT REQUIRED FOR GARAGE SLABS OR DETACHED ACCESSORY BUILDINGS)

# FOUNDATION AND LOT GRADING (IRC R401.3)

GRADES SHALL BE SLOPED AWAY FROM THE FOUNDATION A MINIMUM OF 6" IN THE FIRST 10'. ALTERNATE APPROACHES MAY BE APPROVED IF THE ALTERNATE DESIGN IS EQUIVALENT IN EFFECTIVENESS AND PERFORMANCE, AND PROVIDES FOR POSITIVE SITE DRAINAGE.

# IRC R403.1.4

- THE BOTTOM OF ALL FOOTINGS SHALL EXTEND NOT LESS THAN 36" BELOW GRADE FOR FROST
- FOOTINGS FOR FREESTANDING ACCESSORY STRUCTURES WITH AN AREA OF 600 SF OR LESS AND AN EAVE HEIGHT OF 10' OR LESS SHALL EXTEND BELOW GRADE A MINIMUM OF 12".

#### **FOOTINGS:**

EXTERIOR WALLS, BEARING WALLS, COLUMN AND PIERS SHALL BE SUPPORTED ON CONTINUOUS SOLID MASONRY OR CONCRETE FOOTINGS, OR APPROVED STRUCTURAL SYSTEM TO SAFELY SUPPORT THE IMPOSED LOADS AND SHALL BE SIZED AND REINFORCED IN ACCORDANCE WITH THIS STANDARD OR SHALL BE ENGINEERED DESIGN. FOOTINGS UNDER FOUNDATION WALLS SHALL BE CONTINUOUS AROUND THE STRUCTURE AND FROM ONE LEVEL TO THE NEXT. THE CONTINUOUS TRANSITIONS BETWEEN FOOTINGS AT DIFFERENT LEVELS ENCLOSING USABLE SPACE SHALL BE MADE BY APPROVED SOLID JUMPS OR SUPPORT SYSTEMS TO PROVIDE SAFE SUPPORT OF THE STRUCTURE. SEE "TYPICAL FOOTING/FOUNDATION WALLS/STANDARD SLAB AT MAXIMUM 4" OVER-DIG AND "FOOTING JUMP" DIAGRAMS FOR MORE DETAIL (PER KC, MO STANDARDS)

#### CONCRETE

- 1. ALL CONCRETE CONSTRUCTION SHOULD CONFORM TO ACI 318-11 AND THE 2018 INTERNATIONAL
- 2. THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE
- 3. CONCRETE MIX TO UTILIZE A MAXIMUM WATER-CEMENT MATERIALS RATIO OF 0.45 FOR ALL APPLICATIONS. ALL CONCRETE TO HAVE MAXIMUM 0.10 PERCENT WATER SOLUBLE CHLORIDE CONTENT BY WEIGHT OF CEMENT. ADMIXTURES SHALL NOT CONTAIN ANY CHLORIDES.
- 4. CONCRETE POURED AGAINST AN EXISTING SURGACE SHOULD BE ROUGHENED TO A MINIMUM 1/4 INCH AMPLITUDE.
- 5. REBAR CLEAR DISTANCE SHALL BE AS FOLLOWS: -CAST AGAINST AND PERMANENT CONTACT WITH GROUND3 IN -EXPOSED TO WEATHER OR IN CONTACT WITH GROUND - NOT EXPOSED TO WEATHER OR GROUND
- 6. CONCRETE MIX DESIGN SHALL BE 6% (±1%) AIR-ENTRAINED FOR GARAGE SLABS, FOOTINGS, WALLS, OR FLATWORK EXPOSED TO WEATHER.
- SHORING AND RESHORING: -SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS BEFORE CONCRETE STRENGTH REACHES 70% OF STRENGTH DETERMINED BY CYLINDERS OR 28

-SHORING MAY NOT BE REMOVED SOONER THAN RECOMMENDED BY ASTM 374-04 SECTION 3.7.2.3.

#### MINIMUM STANDARDS

CONCRETE SHALL BE 6% (± 1%) AIR-ENTRAINED FOR GARAGE SLABS AND FOR ALL LOCATION'S FOOTINGS, WALLS OR FLATWORK WHERE EXPOSED TO WEATHER. REBAR SHALL BE MINIMUM 60 KSI UNLESS NOTED OTHERWISE. REINFORCING BAR SHALL BE GRADE 60 MINIMUM.

### CONCRETE REINFORCEMENT STEEL

- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- SMOOTH BARS OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.
- 3. ALL REBAR LAP SPLICES SHALL BE CLASS B LAP SPLICES AS SHOWN ON THE LAP SPLICE SCHEDULE.
- 4. DEVELOPMENT LENGTH NOTED IS EQUAL TO 80% OF THE LENGTH NOTED IN THE LAP SPLICE SCHEDULE.
- 5. 90% HOOK SHOWN IN DRAWINGS SHALL BE STANDARD PER ACI 318-14 -STRAIGHT EXTENSION LENGTH =  $12x\emptyset_{BAR}$ -BEND DIAMETER =  $12XØ_{BAR}$
- 6. LAP SPLICE SCHEDULE (SEE TABLE 1.1)

# HOOKED DOWELS:

- 7.1. HOOKED DOWELS FROM FOUNDATIONS TO WALL SHALL BE PROVIDED TO MATCH VERTICAL WALL
- REINFORCING AND EXTENDED TO 3" CLEAR FROM BOTTOM OF FOUNDATION 7.2. HOOKED DOWELS MATCH SLAB REINFORCING FROM SLAB TO WALLS OR SLAB TO FOUNDATION
- 8. PROVIDE 2 #5 BARS AROUND PERIMETER OF ALL SUSPENDED SLABS
- 9. HORIZONTAL WALL REINFORCING SHALL TERMINATE AT THE END OF THE WALL WITH A STANDARD
- 10. TOP AND BOTTOM HORIZONTAL REINFORCING SHALL BE PLACED 1-1/2" TO 2" FROM THE TOP AND BOTTOM OF THE WALL

# FOOTNOTES:

- 1. WALL HEIGHT IS MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE FLOOR SLAB.
- 2. VERTICAL REINFORCEMENT FOR CONCRETE WALLS THAT ARE NOT FULL HEIGHT AND FOR REINFORCEMENT SPACED 24" O.C. MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER WALLS SHALL HAVE VERTICAL REINFORCEMENT PLACE AS FOLLOWS:
  - A. 8" WALL MINIMUM 5" FROM THE OUTSIDE FACE.
- B. 10" WALL MINIMUM 6-3/4" FROM THE OUTSIDE FACE. C. EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL.
- HORIZONTAL REINFORCEMENT:
  - A. ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL.
- B. OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" O.C. C. HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR); AND BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE INSIDE).
- D. SUPPLEMENTAL REINFORCEMENT AT CORNERS PLACE 1 #4 REBAR 48" LONG AT 45 DEGREE ANGLE AT CORNERS OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF THE EDGE OF INSIDE
- 4. REINFORCEMENT SHALL BE LAPPED A MINIMUM 24" AT ENDS, SPLICES, AND AROUND CORNERS.
- 5. AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 3-1/2". LEDGES SHALL NOT EXCEED A DEPTH OF MORE THAN 24" BELOW THE TOP OF THE WALL FOR WALL THICKNESS LESS THAN 4" PROVIDE #4 BARS AT MAXIMUM 24" O.C. TO WITHIN 8" OF THE TOP OF THE WALL.
- 6. STRAIGHT WALLS MORE THAN 5' TALL AND MORE THAN 16' LONG SHALL BE PROVIDED WITH EXTERIOR BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS (SEE TYPICAL DEAD MAN SECTION).

# **TABLE 1.1**

|      | NORMAL WEIGHT CONCRETE<br>LAP SPLICE SCHEDULE, IN |        |        |        |  |
|------|---|--------|--------|--------|--|
| BAR  | RBARS   |        |        |        |  |
| SIZE | CASE 1  | CASE 2 | CASE 1 | CASE 2 |  |
| #3   | 28  | 42     | 22     | 32     |  |
| #4   | 37  | 56     | 29     | 43     |  |
| #5   | 47  | 70     | 36     | 54     |  |
| #6   | 56  | 84     | 43     | 64     |  |

### STEEL DECK - SUSPENDED SLABS

- 1. STEEL DECK QUALITY, FABRICATION, DELIVERY, INSTALLATION AND ATTACHMENT SHALL COMPLY WITH THE PROVISIONS OF THE STEEL DECK INSTITUTE, SDI.
- STEEL ROOF DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION
- DRAWINGS:
- WIDE RIB CONFIGURATION 1.5" DEPTH
- 24GA DESIGN THICKNESS
- MAXIMUM SINGLE SPAN OF 4'-8" OR CONTINUOUS SPAN OF 5'-10" GALVANIZE PER ASTM A653 OR SHOP PRIME PER ASTM A1008
- ATTACH STEEL ROOF DECK TO SUPPORTS WITH #12 TEK AT 18" O.C.
- ATTACH STEEL ROOF DECK SIDELAPS WITH #10 TEK OR CRIMP/BUTTON PUNCH AT 36" O.C. OR MID-SPAN, WHICHEVER IS SMALLER
- 3. CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY DECK CLOSURE ACCESSORIES TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF ROOF INSULATION AND
- 4. STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS:

STEEL DECK - SUSPENDED SLABS STEEL DECK QUALITY, FABRICATION, DELIVERY, INSTALLATION AND ATTACHMENT SHALL COMPLY WITH THE PROVISIONS OF THE STEEL DECK INSTITUTE, SDI.

CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY DECK CLOSURE ACCESSORIES TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF ROOF INSULATION AND ROOF

STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS:

- 2" COMPOSITE DECK WITH 6" TOTAL SLAB THICKNESS
- 19GA DESIGN THICKNESS • MAXIMUM SINGLE SPAN DURING CONSTRUCTION OF 8', 2 SPAN OF 10'-1", OR 3 SPAN OF 10'-5".
- MAXIMUM SPAN SHALL NOT EXCEED 12.5'. PROVIDE W2.1xW2.1 WELDED WIRE MESH OR #4 @ 12" O.C. EACH WAY. PROVIDE 2" REBAR
- COVER MEASURED FROM TOP OF THE SLAB GALVANIZE PER ASTM A653
- MINIMUM BEARING LENGTH AT EDGE SUPPORTS IS 2"
- MINIMUM BEARING LENGTH AT INTERIOR SUPPORTS IS 4"
- ATTACH STEEL COMPOSITE FLOOR DECK TO SUPPORTS WITH 5/8" ARC PUDDLE WELDS AT 12" O.C. MECHANICAL FASTENERS EITHER POWDER ACTUATED, PNEUMATICALLY DRIVEN, OR SCREWS MAY BE USED IN LIEU OF WELDING PROVIDED THEY ARE APPROVED.
- ATTACH STEEL ROOF DECK SIDELAPS WITH #10 TEK OR CRIMP/BUTTON PUNCH AT 36" O.C. OR MID-SPAN, WHICHEVER IS SMALLER.

CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY POUR STOPS, COLUMN CLOSURES, END PLATES, AND COVER PLATES AS NEEDED.

## STRUCTURAL STEEL

- 1. STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- 2. STEEL GRADE AND SPECIFICATION SHALL BE AS FOLLOWS: **HOLLOW STRUCTURAL SECTIONS:**
- CHANNELS, PLATES AND ANGLES: WIDE FLANGES: COLUMNS: ANCHOR RODS:
- 3. BOLTS SHALL CONFORM TO ASTM A307
- WELDING SHALL CONFORM TO THE AWS CODES FOR BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE TO WELDING PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS D1.1 THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL
- 5. WELDS SHALL USE E70XX ELECTRODES AND A MINIMUM OR 3/16" SIZE UNLESS NOTED OTHERWISE
- 6. ALL WELDS SPECIFIED AS FIELD WELDS MAY BE SHOP WELDED AT THE CONTRACTOR'S OPTION IF ERECTION CAN STILL BE EXECUTED.

#### **ENERGY REQUIREMENTS:**

- 1. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE IC-RATED, LEAKAGE RATED, AND SEALED TO THE GYPSUM WALLBOARD AS REQUIRED PER IRC N1102.4.4.
- 2. PROGRAMMABLE THERMOSTATS SHALL BE INSTALLED AS REQUIRED PER N1103.1.1.
- 3. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2% AIR LEAKAGE RATE PER N1103.3.2.1.
- 4. BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.
- 5. HOT WATER PIPES SHALL BE INSULATED AS REQUIRED PER N1103.4. 6. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR AS REQUIRED PER IRC M1504.3.
- 7. MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM AS REQUIRED PER M1503.6.
- 8. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER M1601.6 ENERGY CONSERVATION.

- THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS.
- 2. DOORS BETWEEN THE GARAGE AND THE DWELLING MINIMUM 1-3/8" SOLID CORE OR HONEY COMBED STEEL DOOR OR 20 MINUTE FIRE RATED.
- 3. THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND IT'S ATTIC AREAS BY A MINIMUM 5/8" GYPSUM BOARD APPLIED TO THE GARAGE SIDE WHERE A FLOOR/CEILING SPACE IS PROVIDED
- 4. THE GARAGE COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 5/8" GYPSUM BOARD OR EQUIVALENT. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE THE FLOOR CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM PS TYPE "X" GYPSUM BOARD ON THE GARAGE CEILING.
- 5. GARAGE DOOR AND FRAME THE "H" FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING 2x6 VERTICAL JAMBS RUNNING FROM THE FLOOR TO CEILING, ATTACHED WITH 1-3/4"x0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 3-1/4"x0.120" NAILS THROUGH THE JAMB INTO THE HEADER. A MINIMUM OF 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.
- 6. SELF CLOSING DEVICES SHALL BE INSTALLED FOR GARAGE AND/OR DWELLING SEPARATION DOORS
- 7. GARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 90 MPH WIND LOAD REQUIREMENTS OF DASMA 108 AND ASTM E330-96 (IRC 301.2.1).

ASTM A500 (Fy = 46 KSI)

ASTM A36 (Fy = 36 KSI)

ASTM A992 (Fy = 50 KSI)

ASTM F1554 (Fy = 36 KSI)

ASTM A53 GR. B (Fy= 35 KSI)

- 1. STAIRWAYS SHALL PROVIDE A MAXIMUM 7-3/4" RISE AND A MINIMUM 10" RUN.
- 2. PROVIDE GUARD RAILS BETWEEN 36" GUARD RAILS ON THE OPEN SIDES OF RAISED FLOORS, PORCHES AND BALCONIES; MINIMUM 34" GUARD RAILS ON THE OPEN SIDES OF STAIRWAYS LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW.
- 3. GUARD RAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OF ORNAMENTAL PATTERNS THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.
- 4. EACH STAIRWAY OF THREE OR MORE RISERS SHALL PROVIDE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE TREADS.
- 5. HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1-1/4" TO 2-5/8" OR OTHER APPROVED GRASPABLE SHAPE PER IRC R311.5.6.
- 6. MINIMUM 6'-8" OF HEADROOM CLEARANCE IS REQUIRED IN STAIRWAYS.

1. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS; GLASS IN STORM DOORS; INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR: WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR; ENCLOSURES FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS; GLAZING IN FIXED OR OPENABLE PANELS EXCEEDING 8 SF AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36".

7. ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE

STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON ENCLOSURE SIDE PER IRC R311.2.2.

2. WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH R312.2.

# **EMERGENCY EGRESS AND RESCUE**

- 1. PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SF WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 21"
- 2. BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC R310.
- 3. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR INCLUDING BASEMENTS. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING.
- 4. CARBON MONOXIDE DETECTORS SHALL BE INSTALLED AS REQUIRED PER R315.

# FRAMING NOTES:

- 1. ALL LUMBER SIZES ARE DOUGLAS FIR-LARCH #2 UNLESS OTHERWISE NOTED.
- 2. ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2x10 ON LOAD BEARING
- 3. ALL HEADER/BEAMS TO BEAR ON A MINIMUM OF (2) 2x4 POSTS UNLESS NOTED OTHERWISE.
- 4. DOUBLE JOIST UNDER INTERIOR NON-LOAD BEARING WALLS.
- 5. CANTILEVERS, OVER BEAMS, AND DOOR JAMBS SHALL BE BLOCKED
- 6. ANY WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY (OR THE FURRING THEY ARE ATTACHED TO) SHALL BE OF DECAY RESISTANT MATERIAL.
- 7. INTERIOR NON LOAD BEARING WALLS SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE UNLESS THE INTERIOR NON LOAD BEARING WALL RESTS DIRECTLY ON A FOOTING.
- 8. LVL STRENGTH SHALL BE VERSA-LAM 3100 Fb UNLESS NOTED OTHERWISE.



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SHEET #

| TEM                             | DESCRIPTION OF BUILDING<br>ELEMENTS   | NUMBER AND TYPE OF FASTENER   | SPACING AND LOCATION   |  |
|---------------------------------|---|---|--|--|
|                                 |   | ROOF  |  |  |
| 1                               | BLOCKING BETWEEN CEILING<br>JOISTS OR RAFTERS TO TOP PLATE                          | 4-8D BOX (2-1/2"x0.113") OR<br>3-8D COMMON (2-1/2" x 0.131"); OR<br>3-10D BOX (3" x 0.128"); OR<br>3-3" x 0.131" NAILS  | TOE NAIL   |  |
| 2                               | CEILING JOSTS TO TOP PLATE  | 4-8D BOX (2-1/2"x0.113") OR<br>3-8D COMMON (2-1/2" x 0.131"); OR<br>3-10D BOX (3" x 0.128"); OR<br>3-3" x 0.131" NAILS  | PER JOIST, TOE NAIL  |  |
| 3                               | CEILING JOISTS NOT ATTACHED TO<br>PARALLEL RAFTER LAPS OVER<br>PARTITIONS           | 4-10D BOX (3" X 0.128"); OR<br>3-16D COMMON (3-1/2" X 0.162"); OR<br>4-3" X 0.131" NAILS  | FACE NAIL  |  |
| 4                               | CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)                              | TABLE R802.5.2  | FACE NAIL  |  |
| 5                               | COLLAR TIE TO RAFTER, FACE NAIL<br>OR 1-1/4"x20 GAGE RIDGE STRAP<br>TO RAFTER       | 4-10D BOX (3" X 0.128"); OR<br>3-10D COMMON (3" X 0.148"); OR<br>4-3" X 0.131" NAILS  | FACE NAIL EACH RAFTER  |  |
| 6                               | RAFTER OR ROOF TRUSS TO PLATE   | 3-16d BOX NAILS (3-1/2"x0.135") OR<br>3-10d COMMON NAILS (3"x0.148"); OR<br>4-10D BOX (3" X .128"); OR<br>4-3" X 0.131" NAILS                                       | 2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL<br>ON OPPOSITE SIDE OF EACH RAFTER OR<br>TRUSS            |  |
| 7                               | ROOF RAFTERS TO RIDGE, VALLEY<br>OR HIP RAFTERS OR ROOF RAFTER                      | 4-16D (3-1/2"x0.135"); OR<br>3-10D COMMON (3" X 0.148"); OR<br>4-10D BOX (3" X 0.128"); OR<br>4-3" X0.131" NAILS  | TOE NAIL   |  |
| ,                               | TO MINIMUM 2" RIDGE BEAM  | 3-16d BOX NAILS (3-1/2"x0.135") OR<br>2-16D COMMON NAILS (3-1/2"x0.162"); OR<br>3-10D BOX (3" X .128"); OR<br>3-3" X 0.131" NAILS                                   | END NAIL   |  |
|                                 |   | WALL  |  |  |
| 8                               | STUD TO STUD (NOT AT BRACED   | 16D COMMON (3-1/2" X 0.162")  | 24" O.C. FACE NAIL   |  |
| ŏ<br>                           | WALL PANELS)  | 10d BOX (3"x0.128"); OR<br>3" X 0.131" NAILS  | 16" O.C. FACE NAIL   |  |
| 9                               | STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL                                | 16D BOX (3-1/2"x0.135"); OR<br>3" X 0.131" NAILS  | 12" O.C. FACE NAIL   |  |
| CORNERS (AT BRACED WALL PANELS) |   | 16D COMMON (3-1/2" X 0.162")  | 16" O.C. FACE NAIL   |  |
| 10                              | BUILT-UP HEADER (2" TO 2"<br>HEADER WITH ½" SPACER)                                 | 16D COMMON (3-1/2"x0.162")  | 16" O.C. ALONG EACH EDGE FACE NAIL   |  |
|                                 | TIEADER WITT 2 OF AGERY   | 16D BOX (3-1/2" X 0.135)<br>5-8D BOX (2-1/2" X 0.113"); OR  | 12" ALONG EACH EDGE FACE NAIL  |  |
| 11                              | CONTINUOUS HEADER TO STUD   | 4-8D COMMON (2-1/2" X 0.131"); OR<br>4-10D BOX (3" X 0.128")  | TOENAIL  |  |
| 12                              | TOP PLATE TO TOP PLATE  | 16D COMMON (3-1/2" X 0.162")  | 16" O.C. FACE NAIL   |  |
| 12                              | TOT PERTE TO TOT PERTE  | 10d BOX (3"x0.128"); OR<br>3" X 0.131" NAILS  | 12" O.C. FACE NAIL   |  |
| 13                              | DOUBLE TOP PLATE SPLICE   | 8-16D COMMON(3-1/2" X 0.162"); OR<br>12-16D BOX (3-1/2" X 0.135"); OR<br>12-10D BOX (3" X 0.128"); OR<br>12-3" X 0.131" NAILS                                       | FACE NAIL ON EACH SIDE OF END JOINT<br>(MINIMUM 24" LAP SPLICE LENGTH EACH<br>SIDE OF END JOINT) |  |
|                                 | BOTTOM PLATE TO JOIST, RIM  | 16D COMMON (3-1/2" X 0.162")  | 16" O.C. FACE NAIL   |  |
| 14                              | JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)                           | 16D BOX (3-1/2"x0.135"); OR<br>3" X 0.131" NAILS  | 12" O.C. FACE NAIL   |  |
| 15                              | BOTTOM PLATE TO JOIST, RIM<br>JOIST, BAND JOIST BLOCKING (AT<br>BRACED WALL PANELS) | 3-16d BOX NAILS (3-1/2"x0.135") OR<br>2-16D COMMON (3-1/2"x0.162"); OR<br>4-3" X 0.131" NAILS   | 3 EACH 16" O.C. FACE NAIL<br>2 EACH 16" O.C. FACE NAIL<br>4 EACH 16" O.C. FACE NAIL              |  |
| 16 TOP OR BOTTOM PLATE TO STUD  |   | 4-8D BOX (2-1/2"x0.113") OR<br>3-16D BOX (3-1/2" x 0.135"); OR<br>4-8D COMMON (2-1/2" X 0.131"); OR<br>4-10D BOX (3" x 0.128"); OR<br>4-3" x 0.131" NAILS           | TOE NAIL   |  |
|                                 |   | 3-16D BOX (3-1/2" x 0.135"); OR<br>2-16D COMMON (3-1/2" X 0.162"); OR<br>3-10D BOX (3" x 0.128"); OR<br>3-3" x 0.131" NAILS   | END NAIL   |  |
| 17                              | TOP PLATES, LAPS AT CORNERS<br>AND INTERSECTIONS                                    | 3-10D BOX (3" X 0.128"); OR<br>2-16D COMMON (3-1/2" X 0.162"); OR<br>3-3" X 0.131" NAILS  | FACE NAIL  |  |
| 18                              | 1" BRACE TO EACH STUD AND<br>PLATE  | 3-8D BOX (2-1/2" X 0.113"); OR<br>2-8D COMMON (2-1/2" X 0.131"); OR<br>2-10D BOX (3" X 0.128"); OR<br>2 STAPLES 1-3/4"  | FACE NAIL  |  |
| 19                              | 1"x6" SHEATHING TO EACH<br>BEARING  | 3-8D BOX (2-1/2" X 0.113"); OR<br>2-8D COMMON (2-1/2" X 0.131"); OR<br>2-10D BOX (3" X 0.128"); OR<br>2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG                       | FACE NAIL  |  |
| 20                              | 1"x8" AND WIDER SHEATHING TO<br>EACH BEARING  | 3-8D BOX (2-1/2" X 0.113"); OR<br>3-8D COMMON (2-1/2" X 0.131"); OR<br>3-10D BOX (3" X 0.128"); OR<br>3 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG<br>WIDER THAN 1" X 8" | FACE NAIL  |  |

|   | 2018 IR  | RC TABLE R602.3(1) (SEE IRC FOR FOOTI   | NOTES)  |                               |
|---|--|---|---|-------------------------------|
|   |  | FLOOR   |   |                               |
| 21  | JOST TO SILL, TOP PLATE OR<br>GIRDER                               | 4-8D BOX (2-1/2" X 0.113"); OR<br>3-8D COMMON (2-1/2" X 0.131"); OR<br>3-10D BOX (3" X 0.128"); OR<br>3-3" X 0.131" NAILS                                   | TOE   | NAIL                          |
|   | RIM JOIST, BAND JOIST OR   | 8d BOX (2-1/2"x0.113")  | 4" O.C. T   | OE NAIL                       |
| 22  | BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)             | 8D COMMON (2-1/2" X 0.131"); OR<br>10D BOX (3" X 0.128"); OR<br>3" X 0.131" NAILS   | 6" O.C. TOE NAIL  |                               |
| 23  | 1"x6" SUBFLOOR OR LESS TO EACH<br>JOIST                            | 3-8D BOX (2-1/2" X 0.113"); OR<br>2-8D COMMON (2-1/2" X 0.131"); OR<br>3-10D BOX (3" X 0.128"); OR<br>2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG               | FACE NAIL   |                               |
|   |  | FLOOR   |   |                               |
| 24  | 2" SUBFLOOR TO JOIST OR GIRDER                                     | 3-16D BOX (3-1/2" X 0.135"); OR<br>2-16D COMMON (3-1/2"x0.162")   | BLIND AND   | FACE NAIL                     |
| 25  | 2" PLANKS (PLANK & BEAM - FLOOR<br>& ROOF)                         | 3-16D BOX (3-1/2" X 0.135"); OR<br>2-16D COMMON (3-1/2"x0.162")   | AT EACH BEAR  | ING, FACE NAIL                |
| 26  | BAND OR RIM JOIST TO JOIST   | 3-16D COMMON (3-1/2" X 0.162"); OR<br>4-10 BOX (3" X 0.128"); OR<br>4-3" X 0.131" NAILS ; OR<br>4-3" X 14 GA. STAPLES, <sup>7</sup> / <sub>16</sub> " CROWN | END   | NAIL                          |
|   | 20D COMMON (4" X 0.192");  | 20D COMMON (4" X 0.192"); OR  | NAIL EACH LAYER AS F<br>TOP END AND BOTTOM                          |                               |
| 27  | BUILT-UP GIRDERS AND BEAMS, 2"<br>LUMBER LAYERS                    | 10D BOX (3" X 0.128"); OR<br>3" X 0.131" NAILS  | 24" O.C. FACE NAIL AT TOP AND BOTTOM<br>STAGGERED ON OPPOSITE SIDES |                               |
| AND: 2-20D COMMO<br>3-10D BOX (3" X 0.12<br>3-3" X 0.131" NAILS | AND: 2-20D COMMON (4" X 0.192"); OR<br>3-10D BOX (3" X 0.128"); OR | FACE NAIL AT ENDS AND AT EACH SPLICE  |   |                               |
| 28  | LEDGER STRIP SUPPORTING<br>JOISTS OR RAFTERS                       | 4-16D BOX (3-1/2" X 0.135"); OR<br>3-16D COMMON (3-1/2" X 0.162"); OR<br>4-10D BOX (3" X 0.128"); OR<br>4-3" X 0.131" NAILS                                 | AT EACH JOIST OR RAFTER, FACE NAIL                                  |                               |
| 29  | BRIDGING OR BLOCKING TO<br>JOIST                                   | 2-10D BOX (3" X 0.128"); OR 2-8D COMMON (2-1/2" X 0.131"; OR 2-3" X 0.131") NAILS   | EACH END, TOE NAIL  |                               |
|   |  |   | SPACING OF  | FASTENERS                     |
| ITEM  | DESCRIPTION OF BUILDING<br>ELEMENTS                                | NUMBER AND TYPE OF FASTENER   | EDGES (IN)  | INTERMEDIATE<br>SUPPORTS (IN) |
| 30  | 3/8" - 1/2"  | 6d COMMON (2"x0.113") NAILS (SUBFLOOR, WALL) 8d COMMON (2-1/2"x0.131") NAIL (ROOF); OR RSRS-01 (2-38" X 0.113") NAIL (ROOF)                                 | 6   | 12                            |
| 31  | 19/32"-1"  | 8d COMMON NAIL (2-1/2"x0.131"); OR<br>RSRS-01 (2-3/8" X 0.113") NAIL (ROOF)   | 6   | 12                            |
| 32  | 1-1/8" - 1-1.4"  | 10d COMMON (3"x0.148") NAIL OR<br>8D (2-1/2"x0.131") DEFORMED NAIL  | 6   | 12                            |
|   |  | OTHER WALL SHEATHING  |   |                               |
| 33  | 1/2" STRUCTURAL CELLULOSIC<br>FIBERBOARD SHEATHING                 | 1-1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, OR 1-1/4" LONG 16 GA. STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN   | 3   | 6                             |
| 34  | 25/32" STRUCTURAL CELLULOSTIC<br>FIBERBOARD SHEATHING              | 1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, OR 1-1/2" LONG 16 GA STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN  | 3   | 6                             |
| 35  | 1/2" GYPSUM SHEATHING  | 1-1/2" GALVANIZED ROOFING NAIL; STAPLE<br>GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS,<br>TYPE "W" OR "S"  | 7   | 7                             |
| 36  | 5/8" GYPSUM SHEATHING  | 1-3/4" GALVANIZED ROOFING NAIL; STAPLE<br>GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS,<br>TYPE "W" OR "S"  | 7   | 7                             |
|   | WOOD STRUCTURA   | L PANELS, COMBINATION SUBFLOOR UI   | NDERLAYMENT TO FF   | RAMING                        |
| 37  | 3/4" AND LESS  | 6D DEFORMED (2"x0.120") NAIL OR<br>8D COMMON (2-1/2"x0.131") NAIL   | 6   | 12                            |
| 38  | 7/8" - 1"  | 8D COMMON (2-1/2"x0.131") NAIL OR<br>8D DEFORMED (2-1/2"x0.120") NAIL   | 6   | 12                            |
| 39  | 1-1/8" - 1-1/4"  | 10D COMMON (3"x0.148") NAIL OR<br>8D DEFORMED (2-1/2"x0.120") NAIL  | 6   | 12                            |

| TABLE R507.2.1 PLACEMENT OF LAG SCREWS AND BOLTS IN DECK<br>LEDGERS AND BAND JOISTS |          |             |      |             |
|---|----------|-------------|------|-------------|
| MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (INCHES)                    |          |             |      |             |
|   | TOP EDGE | BOTTOM EDGE | ENDS | ROW SPACING |
| LEDGER  | 2        | 1/4         | 2    | 1-5/8       |
| BAND JOIST  | 3/4      | 2           | 2    | 1-5/8       |

| WSP - WOOD                               |  | EXTERIOR<br>SHEATHING PER<br>TABLE R602.3(3)                           | 6" EDGES, 12"<br>FIELD                                 |
|--|--|--|--|
| STRUCTURAL<br>PANEL                      | 3/8  | INTERIOR<br>SHEATHING PER<br>TABLE R602.3(1)<br>OR R602.3(2)           | VARIES BY<br>FASTENER                                  |
| CS-WSP<br>CONTINUOUSLY                   |  | EXERIOR<br>SHEATHING PER<br>TABLE R602.3(3)                            | 6" EDGES, 12"<br>FIELD                                 |
| SHEATHED<br>WOOD<br>STRUCTURAL<br>PANEL  | 3/8  | INTERIOR<br>SHEATHING PER<br>TABLE R602.3(1)<br>OR R602.3(2)           | VARIES BY<br>FASTENER                                  |
| PFH - PORTAL<br>FRAME WITH<br>HOLD DOWNS | 3/8  | SEE IRC SECTION<br>R602.10.6.2   | SEE IRC SECTION<br>R602.10.6.2                         |
| PFG - PORTAL<br>FRAME AT<br>GARAGE       | 3/8  | SEE IRC SECTION<br>R602.10.6.3   | SEE IRC SECTION<br>R602.10.6.3                         |
| LIB                                      | 1x4 WOOD OR<br>APPROVED<br>METAL STRAPS<br>AT 45 TO 60 | WOOD: 2-8d<br>COMMON NAILS<br>OR 3-8d NAILS                            | WOOD: PER STUD<br>AND TOP AND<br>BOTTOM PLATES         |
| LET-IN-BRACING                           | DEGREE<br>ANGLES FOR<br>MAX 16" STUD<br>SPACING        | METAL STRAP:<br>PER<br>MANUFACTURER                                    | METAL: PER<br>MANUFACTURER                             |
| GB-GYPSUM                                | 1/2  | NAILS OR<br>SCREWS PER<br>TABLE R602.3(1)<br>FOR EXTERIOR<br>LOCATIONS | FOR ALL BRACED<br>WALL PANEL<br>LOCATIONS: 7"          |
| BOARD                                    | 1/2  | NAILS OR<br>SCREWS PER<br>TABLE R702.3.5                               | EDGES (INCLUDING<br>TOP AND BOTTOM<br>PLATES) 7" FIELD |

MINIMUM

STUD

NOMINAL SIZE AND

GRADE

2x4 NO 2

GRADE

2x6 STUD GRADE

METHOD

PFG

CS-PF

CS-WSP

METHODS,

MATERIAL

SUPPORTING **ROOF ONLY** SUPPORTING ONE STORY

AND ROOF

ADJACENT CLEAR

OPENING

HEIGHT

(INCHES) LESS THAN OR EQUAL TO 64

MINIMUM

THICKNESS

MAXIMUM PONY

(FEET)

0

FRAMING | WALL HEIGHT | TOTAL WALL

MAXIMUM

HEIGHT (FEET)

10

12

12

MINIMUM LENGTH OF BRACED WALL PANELS TABLE R602.10.5 (PARTIAL)

24

16

BRACING METHODS TABLE R602.10.4 (PARTIAL)

**FASTENERS** 

FOR INTERIOR LOCATIONS

|   | WIDTH<br>(FEET) | (POUNDS)<br>FOR 90 MPH | _ |                         |             |                |           |
|---|-----------------|------------------------|---|-------------------------|-------------|----------------|-----------|
|   |                 | EXPOSURE<br>B          |   | ENGINEERED              | LUMBER MINI | MUM DESIGN REQ | UIREMENTS |
|   | 18              | 1,000                  |   |                         | g (DOI)     | E (DOI)        | F (DO)    |
| I | 9               | 1,000                  |   |                         | fb (PSI)    | E (PSI)        | Fv (PSI   |
|   | 16              | 1,000                  |   | VERSA-LAM LVL           | 3100        | 2.0x106        | 285       |
| ĺ | 18              | 1,000                  |   | VEROA-EAW EVE           | 0100        | 2.07100        | 200       |
| 1 | 9               | 1,200                  |   | DOUGLAS<br>FIR-LARCH #2 | 900         | 1.6x106        | 180       |
| ĺ | 16              | 1,000                  | l | TIN-LANGIT#2            |             |                |           |
| İ | 18              | 2,025                  |   |                         |             |                | 1         |

CONTINUOUSLY SHEATHED
BRACED WALL LINE

STRAP

2,400

1,200

3,200

3,200

2,350

DR 1,000

2,050

2,450

1,500

3,150

3,675

10 FEET

24

30

20

SPACING

MAXIMUM CAPACITY

OPENING | REQUIRED

9

16

18

9

16 18

9

16

18

9

16 18

MINIMUM LENGTH (INCHES)

WALL HEIGHT

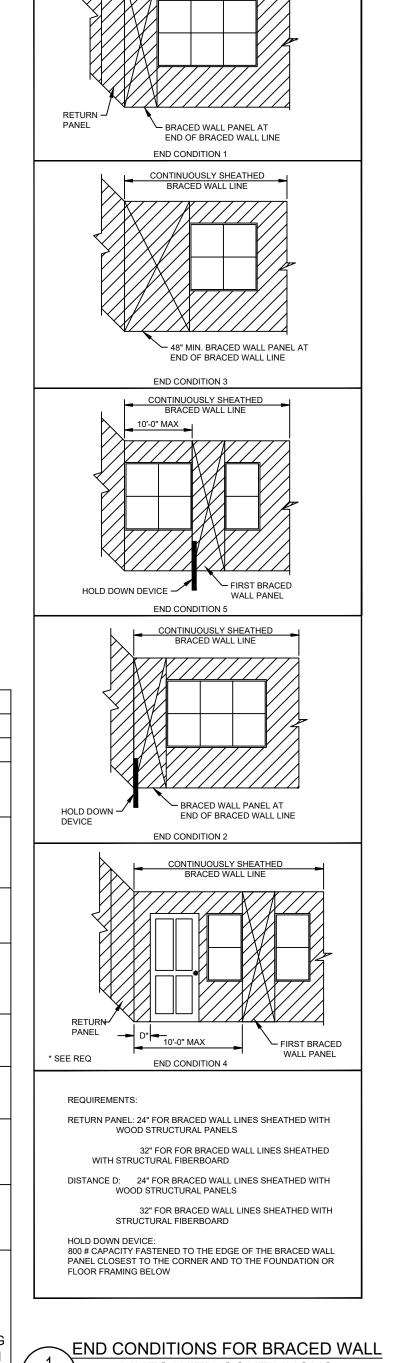
24

27

18

CONNECTION CRITEIA

8 FEET 9 FEET



LINES WITH CONTINUOUS

S1.0 SHEATHING (IRC FIGURE R602.10.7)

# AMIN

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SHEET#

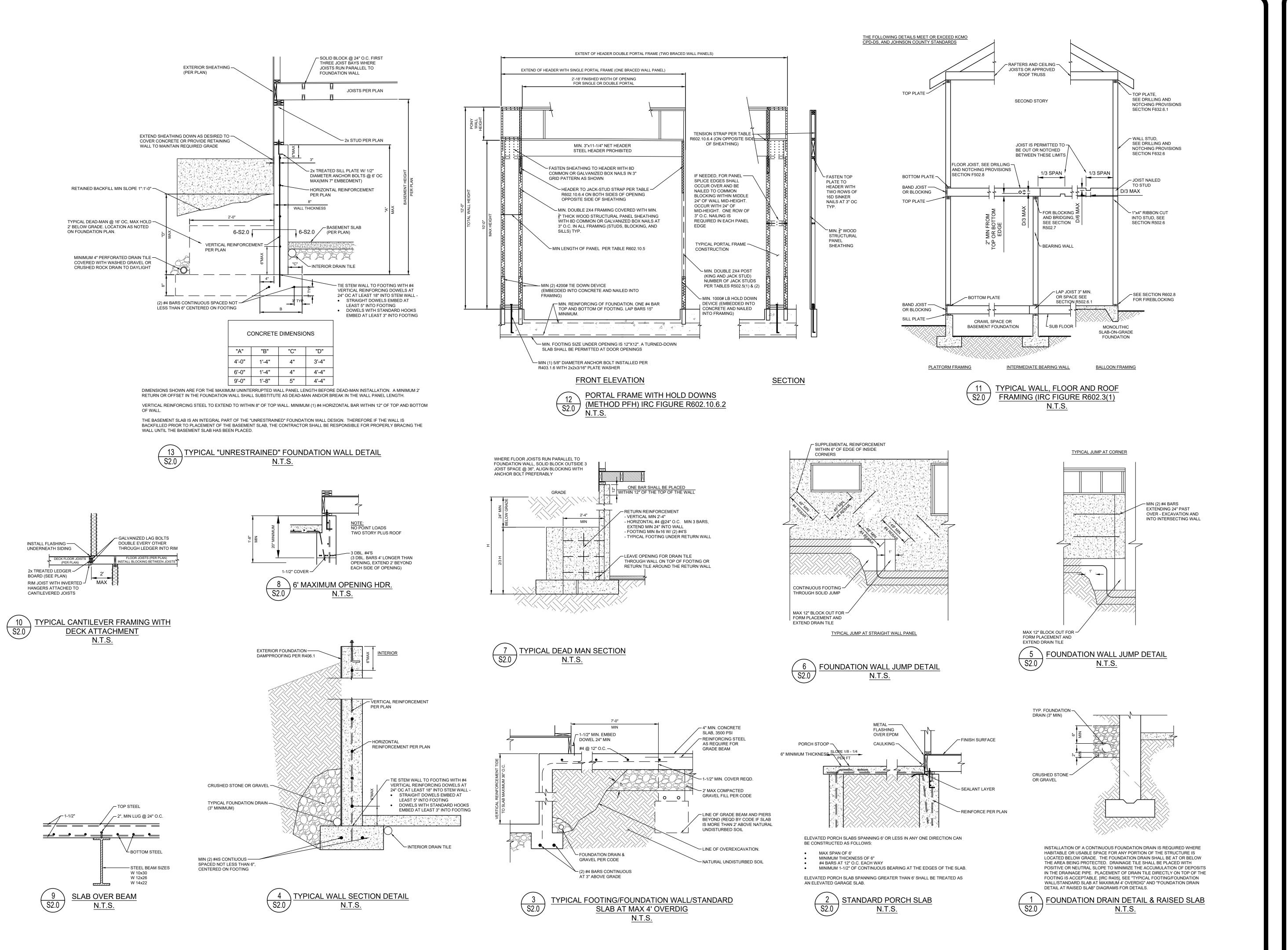
TABLE R507/2 FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER 2" NOMINAL SOLID SAWN SPRUCE-PINE-FIR BAND JOIST (DECK LIVE LOAD = 40PSF, DECK DEAD LOAD = 10 PSF)

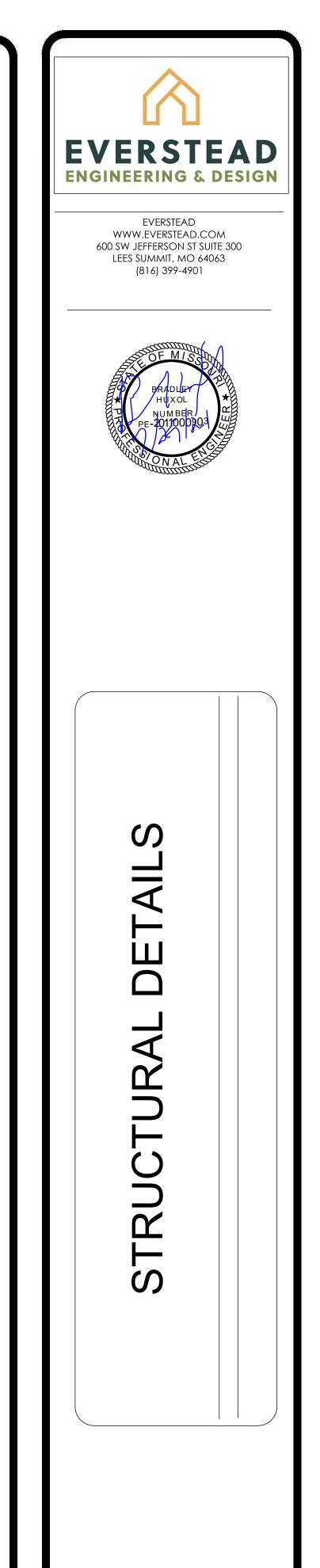
3-10D BOX (3" X 0.128"); OR

4 STAPLES, 1" CROWN, 16 GA.., 1-3/4" LONG

| JOIST SPAN  | 6' AND LESS | 6'1 TO 8' | 8'1 TO 10' | 10'1 TO 12'       | 12'1 TO 14' | 14'1 TO 16' | 16'1 TO 18' |
|---|-------------|-----------|------------|-------------------|-------------|-------------|-------------|
| CONNECTION DETAILS  |             |           | ON CENT    | TER SPACING OF FA | STENERS     |             |             |
| 1/2" DIAMETER LAG SCREW WITH<br>15/32" MAX SHEATHING                        | 30          | 23        | 18         | 15                | 13          | 11          | 10          |
| 1/2" DIAMETER BOLT WITH 15/32"<br>MAX SHEATHING                             | 36          | 36        | 34         | 29                | 24          | 21          | 19          |
| 1/2" DIAMETER BOLT WITH 15/32"<br>MAX SHEATHING AND 1/2" STACKED<br>WASHERS | 36          | 36        | 29         | 24                | 21          | 18          | 16          |

| I            | REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES IRC TABLE 602.3(3) (PARTIAL) |                            |                          |               |                    |                    |  |  |  |  |  |  |
|--------------|--|----------------------------|--------------------------|---------------|--------------------|--------------------|--|--|--|--|--|--|
| MINIMUM NAIL |  | MINIMUM WOOD<br>STRUCTURAL | MINIMUM<br>NOMINAL PANEL | MAX WALL STUD | PANEL NAI          | L SPACING          | ULTIMATE DESIGN WIND SPEED,<br>V ULT (MPH) |  |  |  |  |  |
| SIZE         | PENETRATION<br>(IN)  | PANEL SPAN<br>RATING       | THICKNESS (IN)           | SPACING       | EDGES<br>(IN O.C.) | FIELD<br>(IN O.C.) | В  |  |  |  |  |  |
| 6d COMMON    | 1.5  | 24/0                       | 3/8                      | 16            | 6                  | 12                 | 140  |  |  |  |  |  |
| 8d COMMON    | 1 75   | 24/16                      | 7/16                     | 16            | 6                  | 12                 | 170  |  |  |  |  |  |
|              | 1.75   | 24/10                      | //10                     | 24            | 6                  | 12                 | 140  |  |  |  |  |  |



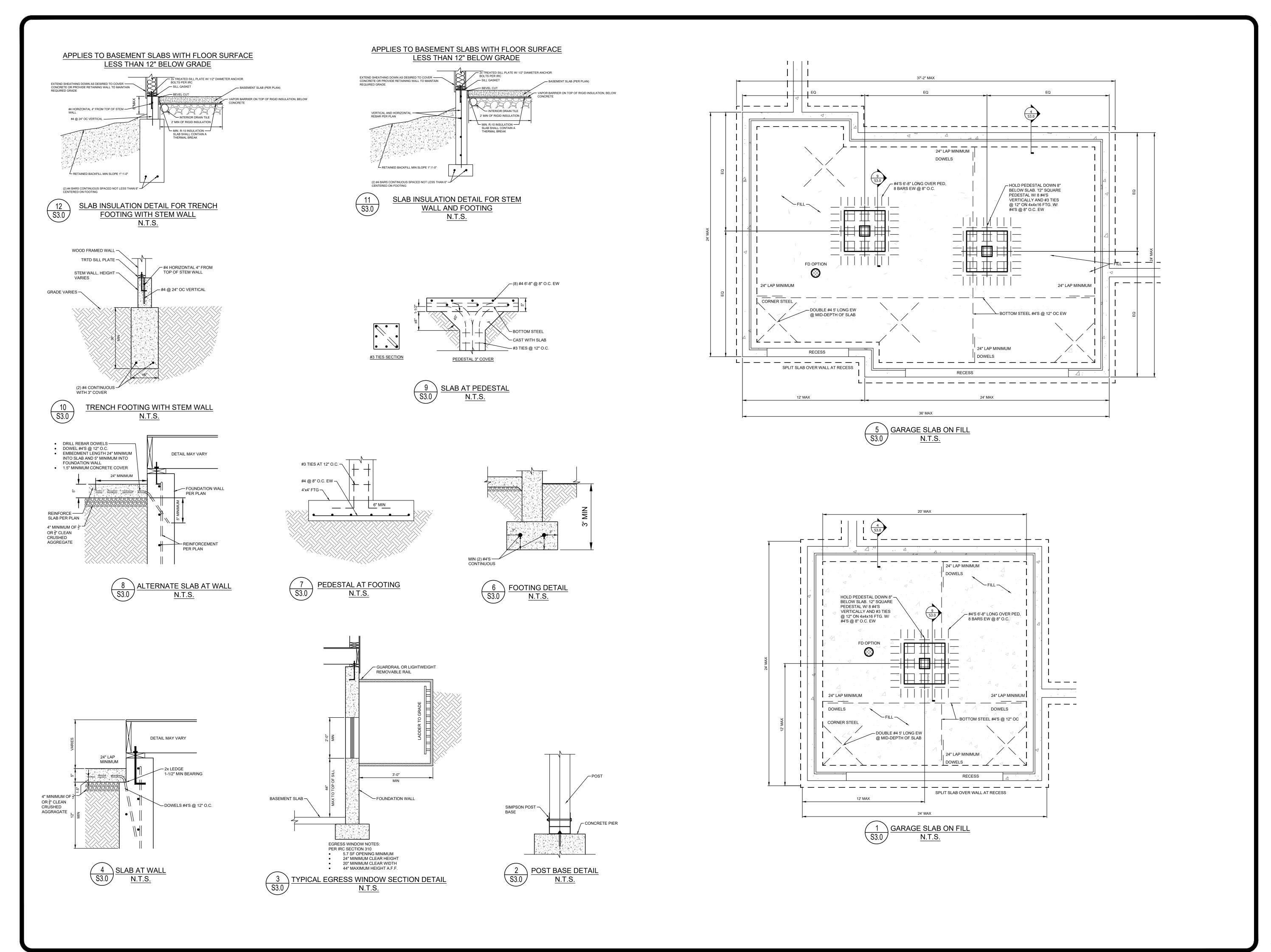


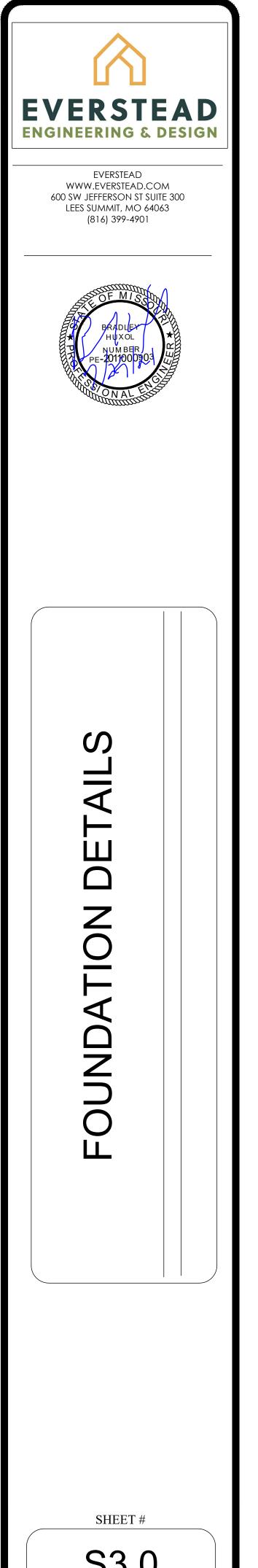
AS NOTED FOR PLAN REVIE

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

SHEET#





#### HELIX REQUIREMENTS:

- FOUNDATION WALL SHALL NOT EXCEED 9' HEIGHT.
- DEAD MAN SHALL BE A MAXIMUM 3'8" FROM TOP OF FOUNDATION WALL ELSE HELIX NOT PERMITTED.

#### ALL CONCRETE SHALL BE REINFORCED WITH HELIX MICRO REBAR ALONG WITH ANY ADDITIONAL REBAR AS NOTED:

- 9.0 LB/CUBIC YARD DOSAGE OF HELIX 5-25.
- VERIFY DOSAGE AT FORM INSPECTION.
- SEE MIXING REQUIREMENTS ON THIS PAGE. MINIMUM 3000 PSI FOOTING COMPRESSIVE STRENGTH
- MINIMUM 3000 PSI WALL COMPRESSIVE CONCRETE STRENGTH.
- AIR ENTRAINED BETWEEN 5-7% OF CONCRETE VOLUME.
- GRADE 60 REINFORCING STEEL UNLESS OTHERWISE NOTED.
- LAP SPLICES 24" MINIMUM. ASSUMED 1500 PSF SOIL BEARING.
- WALL SHALL BE BACK-FILLED WITH CLEAN, LEAN CLAY, OR BETTER, LOW VOLUME CHANGE MATERIAL. ON-SITE MATERIAL MAY BE USED IF DEEMED ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.

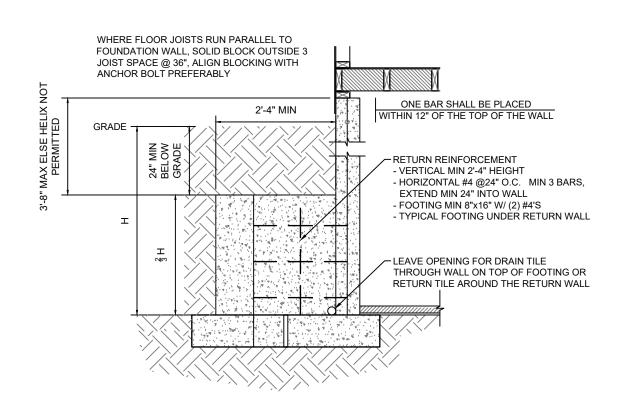
#### HELIX ALTERNATE DESIGN NOT VALID IF ANY ONE OF THE FOLLOWING CONDITIONS ARE MET:

- NON-UNIFORM FOOTING SUPPORT (IE. CAST IN PLACE PIERS, PUSH PILES).
- DAYLIGHT WALLS EXCEEDING 6' TALL FOR A LENGTH GREATER THAN 6'.

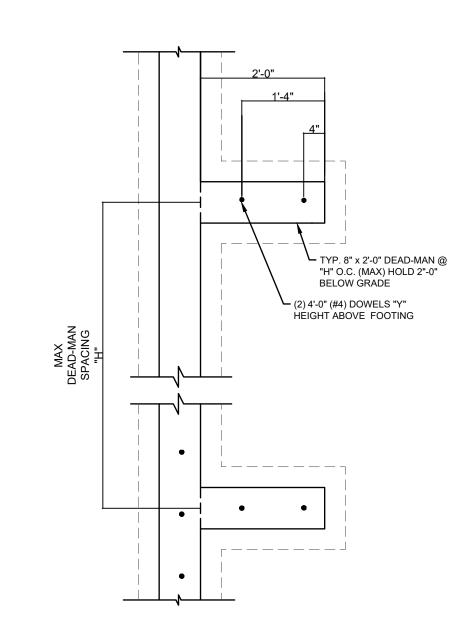
#### **HELIX DOSING INSTRUCTIONS:**

MIXING SHOULD BE DONE ACCORDANCE WITH ASTM C94 AND THE MIXING INSTRUCTIONS BELOW. THE DOSAGES OF HELIX ADDED TO THE MIX SHOULD BE NOTED ON THE BATCH DOCUMENTATION IN ACCORDANCE WITH UNIFORM EVALUATION SERVICE ER 279 SECTION 5.15. VERIFIED USING PROCEDURE IN ER 279 APPENDIX A.

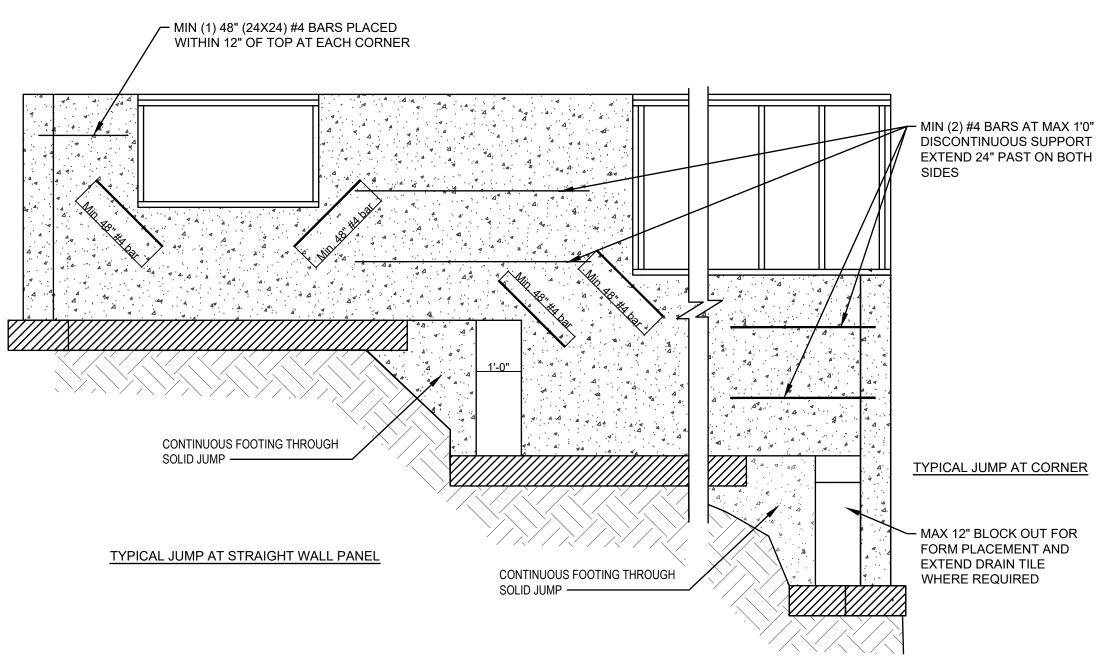
A SLUMP OF 125 MM OR 5" OR HIGHER WILL FACILITATE STRIKE OFF. A SLUMP OF LESS THAN 4" IS NOT RECOMMENDED AS THIS WILL PREVENT SURFACE SEGREGATION OF THE CEMENT AND FINES FROM THE AGGREGATE AND HELIX. SLUMP SHOULD BE MEASURED ON THE INITIAL LOAD AND ADJUSTMENTS MADE WITH A WATER REDUCER OR PLASTICIZER (NOT WATER).





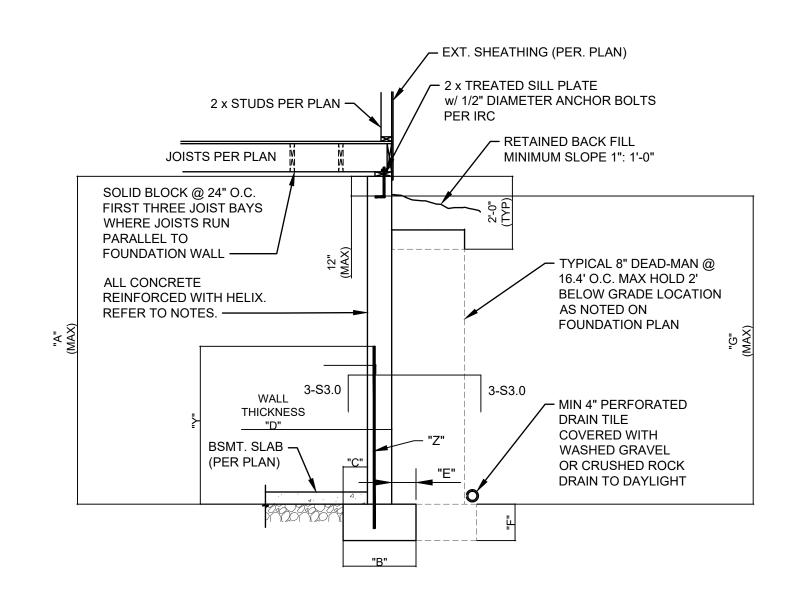


TYPICAL DEAD MAN SECTION S3.1 N.T.S.





PER KCMO CPD-DS STANDARDS



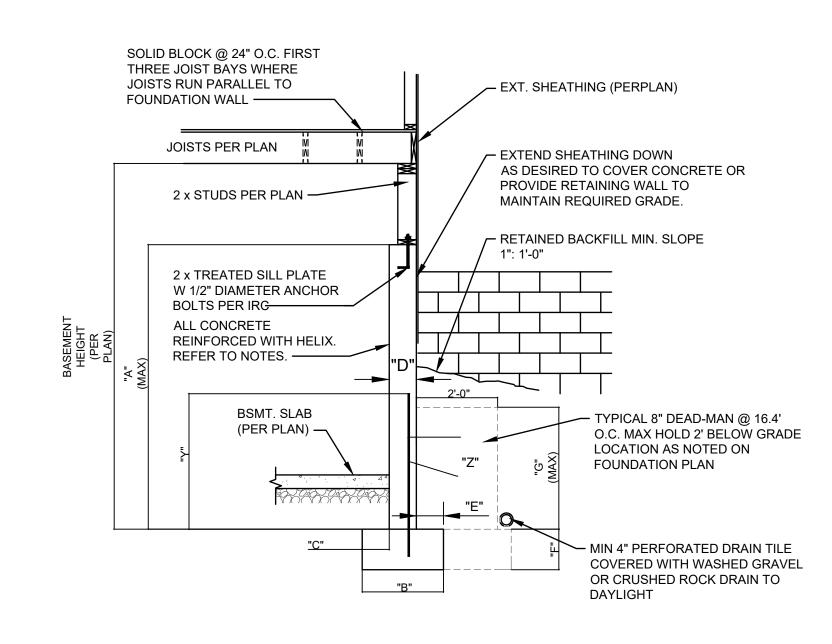
|       |       |     | CON | CRETE | DIMENS | SIONS | HEIGHT ABOVE<br>FOOTING | REINFORCINGBARS<br>(GRADE 60) | HELIX DOSAGE.     |
|-------|-------|-----|-----|-------|--------|-------|-------------------------|-------------------------------|-------------------|
| "A"   | "B"   | "C" | "D" | "E"   | "F"    | "G"   | "Y"                     | "Z"                           | TIEEIX BOOKGE.    |
| 8'-0" | 1'-4" | 4"  | 8"  | 4"    | 8"     | 7'-6" | 2'-6"                   | 4 BARS AT 24" O.C.            | 9.0 LB/CUBIC YARD |
| 9'-0" | 1'-4" | 4"  | 8"  | 4"    | 8"     | 8'-6" | 2'-6"                   | 4 BARS AT 24" O.C.            | 9.0 LB/CUBIC YARD |

DIMENSIONS SHOWN IS FOR THE MAXIMUM UNINTERRUPTED WALL PANEL LENGTH BEFORE DEAD-MAN SHALL BE INSTALLED. A MINIMUM 2' RETURN OFFSET IN THE FOUNDATION WALL SHALL SUBSTITUTE AS DEAD-MAN AND/OR BREAK IN THE WALL PANEL LENGTH. WALL WILL NOT ACHIEVE FULL STRENGTH UNTIL FIRST FLOOR DECK AND BASEMENT SLAB HAVE BEEN PLACED.

TYPICAL FOUNDATION WALL DETAIL N.T.S.

|             |                  | HELIX DOSAGE |       |   |   |               |  |
|-------------|------------------|--------------|-------|---|---|---------------|--|
| А           | LL STRI          | 9 LB/CU FT   |       |   |   |               |  |
|             |                  | S            |       |   |   |               |  |
| SYM         | PIER PAD<br>SIZE | DEP          | PTH   | MINIMUM REINFORCEMENT<br>GRADE 60 KSI STEEL | SCHEDULE 40<br>STEEL COLUMN,<br>MIN FY = 35 KSI | HELIX DOSAGE  |  |
| A           | 30"x30"          | 1'-(         | 0"    | (5) #4 BAR E.W.                             | 3" DIAMETER                                     | 12.5 LB/CU FT |  |
| B           | 36"x36"          | 1'-(         | 0"    | (6) #4 BAR E.W.                             | 3" DIAMETER                                     | 12.5 LB/CU FT |  |
| Ĉ           | 42"x42"          | 1'-2         | 2"    | (7) #4 BAR E.W.                             | 3" DIAMETER                                     | 12.5 LB/CU FT |  |
| $\triangle$ | 48"x48"          | 1'-4         | 4"    | (8) #4 BAR E.W.                             | 3" DIAMETER                                     | 12.5 LB/CU FT |  |
|             | 48"x48"          | 1'-4         | 4"    | (8) #4 BAR E.W.                             | N/A   | 12.5 LB/CU FT |  |
| É           | 54"x54"          | 1'-4         | 4"    | (9) #4 BAR E.W.                             | 3.5" DIAMETER                                   | 12.5 LB/CU FT |  |
| F           | 60"x60"          | 1'-6         | 6"    | (10) #4 BAR E.W.                            | 3.5" DIAMETER                                   | 12.5 LB/CU FT |  |
| SYM         | PIER<br>DIAMETE  | ER C         | DEPT  | H MINIMUM REINFORCE<br>GRADE 60 KSI STE     |   | HELIX DOSAGE  |  |
| G           | 12"              |              | 3'-0' | (4) VERTICA                                 | (4) VERTICAL #4                                 |               |  |
| <u>H</u>    | 16"              |              | 3'-0' | (4) VERTICA                                 | (4) VERTICAL #4                                 |               |  |
| $\triangle$ | 18"              |              | 3'-0' | (4) VERTICA                                 | (4) VERTICAL #4                                 |               |  |
| k           | 24"              |              | 3'-0' | (4) VERTICA                                 | AL #4   | 12.5 LB/CU FT |  |
| $\triangle$ | 28"              |              | 3'-0' | (4) VERTICA                                 | AL #4   | 12.5 LB/CU FT |  |

COLUMN AND PAD SIZES ARE FOR A MAXIMUM COLUMN HEIGHT OF 10'. COLUMNS GREATER THAN 10' REQUIRE A SEPARATE ENGINEERED DESIGN. FOOTINGS A-F SPACING OF 6" O.C. WITH 3" CLEAR COVER.

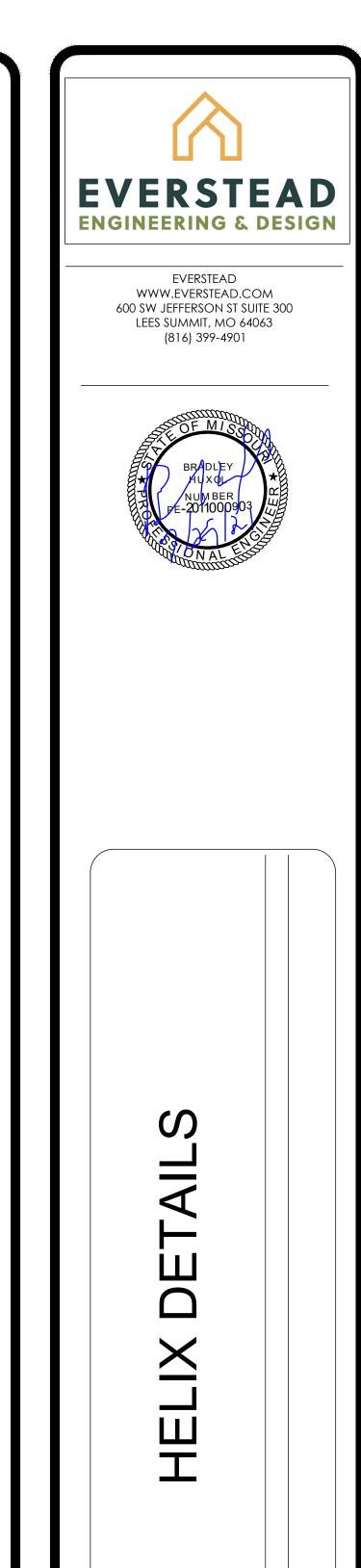


|       |                             |    | CONCR | ETE DIM | MENSION | IS    | HEIGHT ABOVE<br>FOOTING | REINFORCINGBARS<br>(GRADE 60) | HELIX DOSAGE.     |  |  |
|-------|-----------------------------|----|-------|---------|---------|-------|-------------------------|-------------------------------|-------------------|--|--|
| "A"   | "A" "B" "C" "D" "E" "F" "G" |    |       |         | "F"     | "G"   | "Y"                     | "Z"                           |                   |  |  |
| 4'-0" | 1'-4"                       | 4" | 8"    | 4"      | 8"      | 3'-4" | 2'-6"                   | 4 BARS AT 24" O.C.            | 9.0 LB/CUBIC YARD |  |  |
| 6'-0" | 1'-4"                       | 4" | 8"    | 4"      | 8"      | 4'-4" | 2'-6"                   | 4 BARS AT 24" O.C.            | 9.0 LB/CUBIC YARD |  |  |

DIMENSIONS SHOWN IS FOR THE MAXIMUM UNINTERRUPTED WALL PANEL LENGTH BEFORE DEAD-MAN SHALL BE INSTALLED. A MINIMUM 2' RETURN OFFSET IN THE FOUNDATION WALL SHALL SUBSTITUTE AS DEAD-MAN AND/OR BREAK IN THE WALL PANEL LENGTH. THE BASEMENT SLAB IS AN INTEGRAL PART OF THE "UNRESTRAINED" FOUNDATION WALL DESIGN. THEREFORE, IF THE WALL IS BACKFILLED PRIOR TO PLACEMENT OF THE BASEMENT SLAB, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY BRACING THE WALL UNTIL THE BASEMENT SLAB HAS BEEN PLACED.



TYPICAL "UNRESTRAINED" FOUNDATION WALL DETAIL



SHEET#