

REFERENCE KEYNOTES

01 - FOUNDATION

01.12 - TOP OF FOOTING DEPTH DETERMINED PER SITE.

STEP FOUNDATION TO BELOW FROST LINE AS REQUIRED PER SITE

TO BE 3" BELOW TOP OF FOUNDATION.

01.42 - 6X6 CEDAR POST

CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVIDE SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL

STRUCTURAL DETAIL SHEET INDEX S000 STRUCTURAL GENERAL NOTES

S501 FOUNDATION DETAILS S503 GARAGE/SLAB DETAILS

S510 FRAMING STANDARDS

S550 FASTENING SCHEDULE

S560 EGRESS WINDOW

S520 DECK DETAILS S530 BRACING DETAILS

5/4"X8" LP SMART TRIM. 02.61 UNLESS NOTED OTHERWISE ON ELEVATION.

03 - SIDING

LP SMART LAP SIDING WITH 5/4X6 LP SMART TRIM - AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE.

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.

03.15 - LP SMART BOARD AND BATTEN.

03.17 - MANUFACTURED STONE VENEER.

03.18 - CAST STONE CAP

6X6 CEDAR POST. 1X6 TRIM AT BASE. 03.38 1X4 TRIM AT TOP.

03.57 - 26"X6" CEDAR BRACKET

CEDAR SHUTTERS. ALL SHUTTERS TO BE 18" WIDE USING (3) 2X6 BOARDS. LP SMART TRIM TO BE INSTALLED AROUND WINDOW PRIOR TO SHUTTER INSTALLATION.

04 - ROOF

MINIMUM ROOFING COMPOSITION -04.11 - 30 YR COMPOSITE SHINGLES ON 15# FELT ON 7/16" OSB SHEATHING OR AS REQUIRED BY CODE.

07 - MISCELLANEOUS & PLAN NOTES 07.67 - BACK WALL OF GARAGE.

CPG DBA

clover

120 SE 30TH ST. LEE'S SUMMIT, MO 64082 816-246-6700

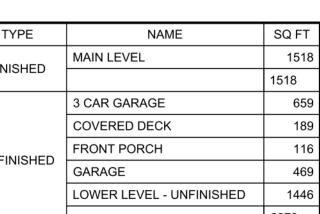
COPYRIGHT 2023 AND HIVE, OR UNDER THEIR DIRECT SUPERVISION AS AN INSTRUMENT OF SERVICE AND IS INTENDED FOR USE ONLY ON THIS PROJECT. ALL DRAWINGS SPECIFICATIONS, AND DESIGNS, INCLUDING THE OVERALL LAYOUT, FORM, AND COMPOSITION OF SPACES ARE PROTECTED BY COPYRIGHT REGISTERED TO CPG, INC. ANY REPRODUCTION USE, OR DISCLOSURE OF THE INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN CONSENT FROM CPG, INC. D/B/A SUMMIT HOMES EXCEPT AS REQUIRED FOR BIDDING AND CONSTRUCTION OF THIS PROJECT IS STRICTLY

ADDRESS: 1628 SW BUCKTHORN ST

LEES SUMMIT

MO 64082

9 RD N N



GENERAL NOTES - ELEVATIONS

STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS

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.

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

TRANSITIONAL 1

| TYPE | NAME | SQ FT |
|------------|--------------------------|-------|
| FINISHED | MAIN LEVEL | 151 |
| FINISHED | | 1518 |
| | 3 CAR GARAGE | 65 |
| | COVERED DECK | 18 |
| UNFINISHED | FRONT PORCH | 11 |
| ONFINISHED | GARAGE | 46 |
| | LOWER LEVEL - UNFINISHED | 144 |
| | | 2879 |
| | | 4398 |

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY EXPECTED TO VARY PER VENDOR.

DAVIS NUMBER PE-2015016986

PROFESSIONAL SEAL:

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

> EVERSTEAD 3741 NE TROON DR. LEES SUMMIT, MO 64064 816-399-4901

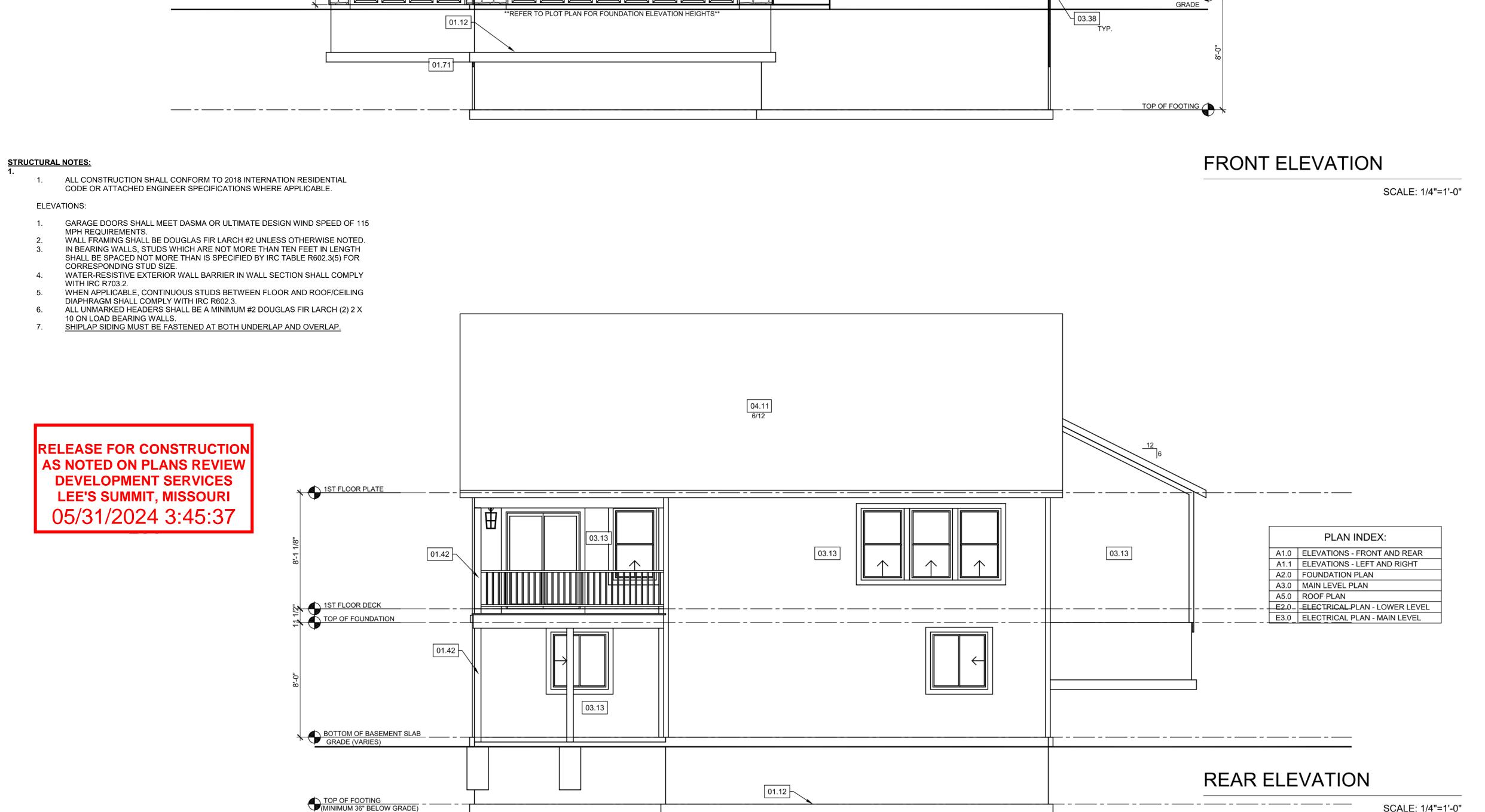
> > **VERSION:**

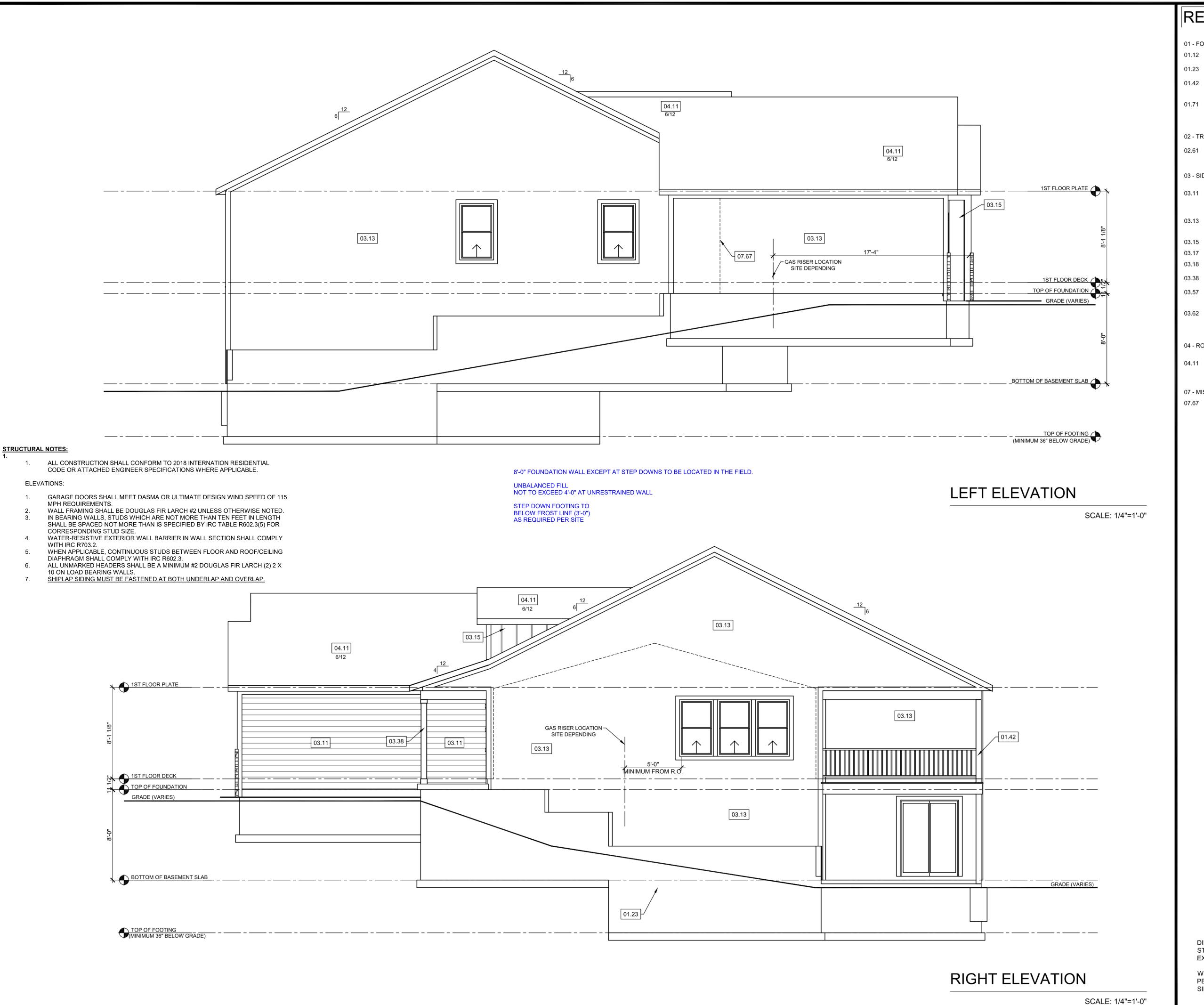
R4.02X6

05/03/2024

ISSUE DATE:

SHEET NUMBER:





REFERENCE KEYNOTES

01 - FOUNDATION

01.12 - TOP OF FOOTING DEPTH DETERMINED PER SITE.

STEP FOUNDATION TO BELOW FROST LINE AS REQUIRED PER SITE

01.42 - 6X6 CEDAR POST

CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVIDE SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION.

02 - TRIM

5/4"X8" LP SMART TRIM. UNLESS NOTED OTHERWISE ON ELEVATION.

03 - SIDING

LP SMART LAP SIDING WITH 5/4X6 LP SMART TRIM 03.11 - AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE.

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. 03.15 - LP SMART BOARD AND BATTEN.

MANUFACTURED STONE VENEER.

03.18 CAST STONE CAP

6X6 CEDAR POST. 1X6 TRIM AT BASE. 03.38 1X4 TRIM AT TOP.

03.57 - 26"X6" CEDAR BRACKET

CEDAR SHUTTERS. ALL SHUTTERS TO BE 18" WIDE USING (3) 2X6 BOARDS. LP SMART TRIM TO BE INSTALLED AROUND WINDOW PRIOR TO SHUTTER INSTALLATION.

04 - ROOF

MINIMUM ROOFING COMPOSITION -04.11 - 30 YR COMPOSITE SHINGLES ON 15# FELT ON 7/16" OSB SHEATHING OR AS REQUIRED BY CODE.

07 - MISCELLANEOUS & PLAN NOTES 07.67 - BACK WALL OF GARAGE.

CPG DBA

clover

120 SE 30TH ST. LEE'S SUMMIT, MO 64082 816-246-6700

COPYRIGHT 2023 THIS DRAWING HAS BEEN PREPARED BY CLOVER AND HIVE, OR UNDER THEIR DIRECT SUPERVISION AS AN INSTRUMENT OF SERVICE AND IS INTENDED FOR USE ONLY ON THIS PROJECT. ALL DRAWINGS, SPECIFICATIONS, AND DESIGNS, INCLUDING THE OVERALL LAYOUT, FORM, AND COMPOSITION OF SPACES ARE PROTECTED BY COPYRIGHT REGISTERED TO CPG, INC. ANY REPRODUCTION, USE, OR DISCLOSURE OF THE INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN CONSENT FROM CPG, INC. D/B/A SUMMIT HOMES EXCEPT AS REQUIRED FOR BIDDING AND CONSTRUCTION OF THIS PROJECT IS STRICTLY

ADDRESS: 1628 SW BUCKTHORN ST

> LEES SUMMIT MO 64082

RD HORN

PROFESSIONAL SEAL



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

> **EVERSTEAD** 3741 NE TROON DR. LEES SUMMIT, MO 64064 816-399-4901

> > VERSION:

R4.02X6

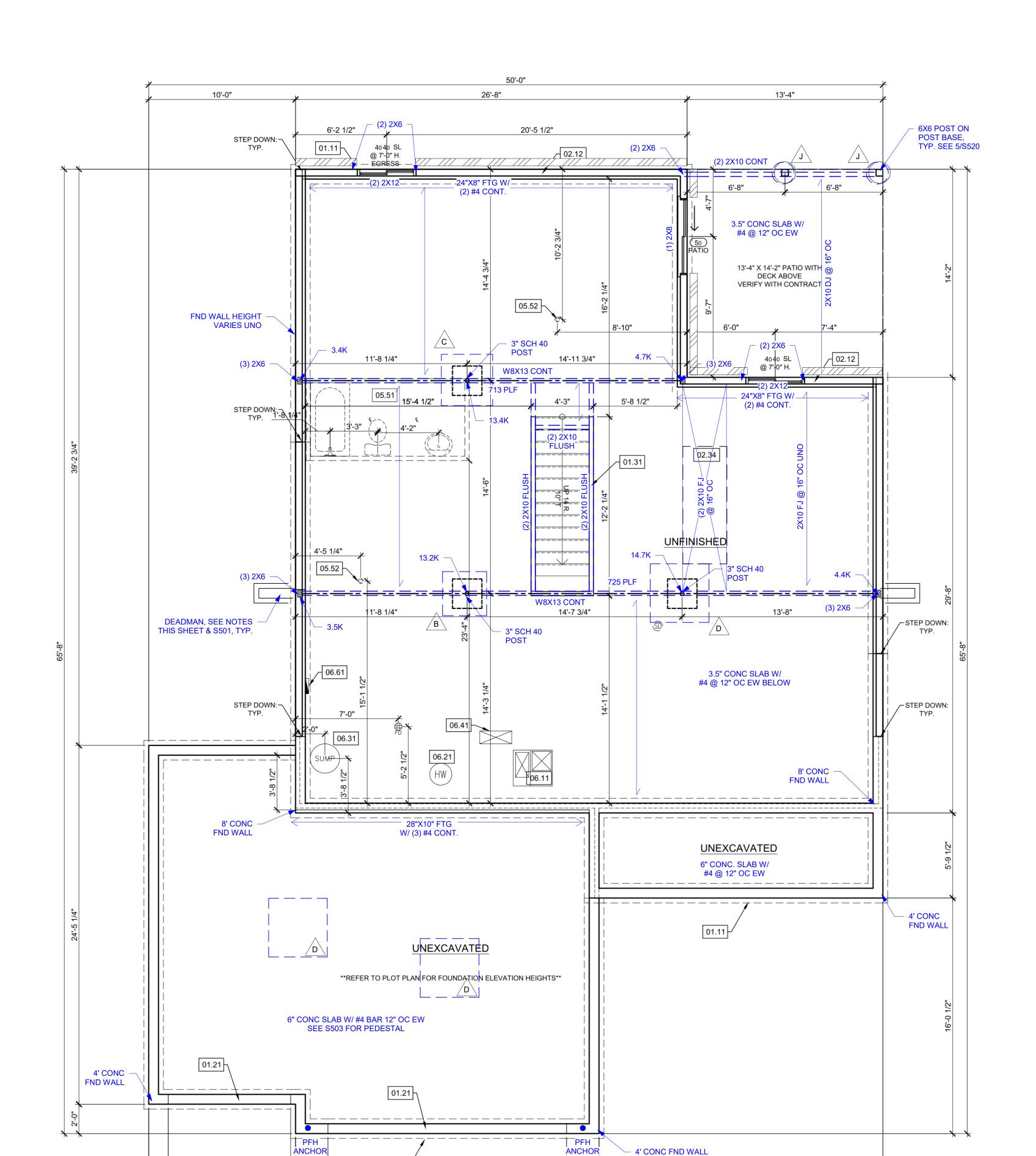
ISSUE DATE: 05/03/2024

SHEET NUMBER

GENERAL NOTES - ELEVATIONS

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.



50'-0"

19'-4"

01.11

8'-4"

10'-0"

| FOUNDATION V | | NG TABLE (3000 PSI C FROM INSIDE TENSIC | CONCRETE AND 40 KSI RI ON FACE) | EBAR PLACED 2" | |
|----------------------|---------------------------|--|------------------------------------|---|--|
| WALL TYPE | NOMINAL WALL THICKNESS | VERTICAL SPACING AND SIZE | HORIZONTAL SPACING AND SIZE | FOOTING SPECIFICATION U.N.O. ON PLANS | |
| 3'-6" TRENCH FOOTING | 16" | #4 BARS @18" O.C. (2) #4 BARS TOP & BOT. CONT. | | | |
| < 6'-0" WALL | | #4 BARS @36" O.C. | | | |
| 8'-0" WALL | 8" | #4 BARS @16" O.C. | | 16" x 8" CONC. FTG. W/ (2) #4 BARS CONT. | |
| 9'-0" WALL | 0 | #4 BARS @12" O.C. | #4 BARS @ 24" O.C. | | |
| 10'-0" WALL | | #4 BARS @8" O.C. | | | |
| 11'-0" WALL | 10" | #4 BARS @9" O.C. | | 24" x 12" CONC. FTG. | |
| 12'-0" WALL | 10" | #4 BARS @6" O.C. | | W/ (3) #4 BARS CONT. | |

| | ISOLATED FOOTINGS AND COLUMN PADS | | | | | | |
|-----|-----------------------------------|-------|--|---|--|--|--|
| SYM | PIER PAD SIZE | DEPTH | MINIMUM REINFORCEMENT GRADE 40 KSI STEEL | SCHEDULE 40 STEEL COLUMN, MIN FY = 35 KSI | | | |
| A | 30"x30" | 1'-0" | (5) #4 BAR E.W. | 3" DIAMETER | | | |
| B | 36"x36" | 1'-0" | (6) #4 BAR E.W. | 3" DIAMETER | | | |
| C | 42"x42" | 1'-2" | (7) #4 BAR E.W. | 3" DIAMETER | | | |
| D | 48"x48" | 1'-4" | (8) #4 BAR E.W. | 3" DIAMETER | | | |
| E | 54"x54" | 1'-4" | (9) #4 BAR E.W. | 3.5" DIAMETER | | | |
| F | 60"x60" | 1'-6" | (10) #4 BAR E.W. | 3.5" DIAMETER | | | |

| ISOLATED FOOTINGS AND COLUMN PADS | | | | | |
|-----------------------------------|------------------|-------|---|--|--|
| SYM | PIER DIAMETER | DEPTH | MINIMUM REINFORCEMENT GRADE 40 KSI STEEL | | |
| G | 12" | 3'-0" | (4) VERTICAL #4 | | |
| H | 16" | 3'-0" | (4) VERTICAL #4 | | |
| J | 18" | 3'-0" | (4) VERTICAL #4 | | |
| K | 24" | 3'-0" | (4) VERTICAL #4 | | |
| Ĺ | 28" | 3'-0" | (4) VERTICAL #4 | | |

*DENOTES STEEL COLUMN NOT REQUIRED 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.

BLOCKING NOTE:

1. SOLID BLOCKING BETWEEN JOISTS AT 48" O.C.

2. EXTEND BLOCKING ONE JOIST BAY PAST EACH SIDE OF ISLAND ABOVE

| WINDOW SCHEDULE | | | | | |
|-----------------|------------------------|-------|--------|------|----------|
| TYPE | STYLE | WIDTH | HEIGHT | TEMP | QUANTITY |
| SL | SLIDER | 4'-0" | 4'-0" | | 1 |
| SL | BASEMENT EGRESS SLIDER | 4'-0" | 4'-0" | | 1 |

DOOR SCHEDULE

STYLE WIDTH HEIGHT FRAME DEPTH QUANTITY
LIDING - DOUBLE - FULL LITE 5'-0" 6'-8" 5 1/2" 1

FOUNDATION PLAN

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

REFERENCE KEYNOTES

01.11 - CONTINUOUS CONCRETE FOOTING
01.21 - RECESS TOP OF FOUNDATION WALL

01.31 - 2X4 STUD WALL WITH TREATED SILL PLATE

02.34 - PROVIDE ADDITIONAL BRACING FOR ISLAND ABOVE.

DRAIN LINE ONLY FOR FUTURE USE.

AND CUT FLUSH TO FLOOR FINISH.

06.11 - SHALL BE DIRECT VENTED TO EXTERIOR FOR

200 AMP ELECTRICAL PANEL.

LOCATION TO BE DETERMINED ON SITE.

09.02 - PROVIDE GFCI RECEPTACLE FOR SUMP PUMP.

CONTINUE SWITCH CIRCUIT TO SWITCH

COMBUSTION AIR.

CONTROL DEVICE

09 - ELECTRICAL - SEE ELECTRICAL PLANS

AT TOP OF STAIRS.

06.41 - HVAC CHASE ABOVE

05.52 - PLUMBING FLANGE ABOVE. HEADER JOISTS AS NEEDED

DIRECT FURNACE. FUEL BURNING APPLIANCES

HOT WATER HEATER WITH THERMAL EXPANSION

SUMP PIT AND PUMP. PROVIDE ELECTRICAL GFCI

09.01 - PROVIDE GFCI RECEPTACLE AND SWITCH FOR HUMIDIFIER.

PROTECTION. PROVIDE SLEEVE THROUGH FOOTING.

05.51 - LOCATION TO BE MARKED WITH REBAR

01 - FOUNDATION

02.12 - 2X6 STUD WALL

02 - TRIM

05 - PLUMBING

06 - MECHANICAL

clover

hive

CPG DBA

120 SE 30TH ST. LEE'S SUMMIT, MO 64082 816-246-6700

COPYRIGHT 2023

THIS DRAWING HAS BEEN PREPARED BY CLOVER AND HIVE, OR UNDER THEIR DIRECT SUPERVISION AS AN INSTRUMENT OF SERVICE AND IS INTENDED FOR USE ONLY ON THIS PROJECT. ALL DRAWINGS, SPECIFICATIONS, AND DESIGNS, INCLUDING THE OVERALL LAYOUT, FORM, AND COMPOSITION OF SPACES ARE PROTECTED BY COPYRIGHT REGISTERED TO CPG, INC. ANY REPRODUCTION, USE, OR DISCLOSURE OF THE INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN CONSENT FROM CPG, INC. D/B/A SUMMIT HOMES EXCEPT AS REQUIRED FOR BIDDING AND CONSTRUCTION OF THIS PROJECT IS STRICTLY

ADDRESS: 1628 SW BUCKTHORN ST

LEES SUMMIT

MO 64082

9

0

 \propto

S

2

1. ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATION RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APLLICABLE.

FOUNDATION NOTES:

STRUCTURAL NOTES:

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

 2. SOIL BEARING CAPACITY SHALL BE 1500 PSF.

 3. COMPRESSIVE STRENGTH OF CONCRETE FC COMPRESSIVE STRENGTH SHALL BE DAMPPROOFED. DAMPPROOFING 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 MOISTURED BARRIER OVER POROUS GRAVEL BASE UNDER
- SHALL BE MINIMUM 6".
 4. FOUNDATION WALLS SHALL BE DAMPPROOFED PER

BASEMENT FLOOR SLAB PER R405.2.2. LAP JOINTS

- IRC SECTION R406.

 5. FOUNDATION DRAINAGE WILL BVE IN ACCORDANCE
- WITH IRC SECTION R405.

 6. BASEMENT EGRESS OPENINGS SHALL BE IN ACCORDANCE WITH IRC SECTION R310.1.
- 7. ALL INTERIOR FOOTINGS OF LOAD BEARINGS WALLS
 AND COLUMNS SHALL BE ISOLATED FROM THE
 BASEMENT FLOOR SLAB.
- 8. ALL ANCHOR BOLTS SHALL NOT BE SPACED MORE THAN 3' O.C. AND BE EMBEDDED INTO THE CONCRETE A MINIMUM OF 7".
- 9. IF BASEMENT SLAB ELEVATION IS ABOVE GRADE CONSULT ENGINEER.

DEAD MAN SPACING:

- 1. ALL DEAD MAN SHALL BE SPACED NO MORE THAN 16' FROM EGRESS WELL, REAR GARAGE WALL, 24" RETURN ON FOUNDATION WALL OR ANOTHER DEAD
- 2. DEAD MEN ARE NOT REQUIRED ON EXTERIOR GARAGE WALLS OR FOUNDATION WALLS THAT ARE 5' OR LESS.
- 3. WALL TRANSITIONING FROM ELSS THAN 5' TALL TO MORE THAN 5' TALL WITH STEP DOWNS: A DEAD MAN IS REQUIRED WITHIN 8' OF STEP DOWN (tRANSITIONING FROM LESS THAN 5' TALL TO MORE THAN 5' TALL WALL LOCATION) ON WALL 5' TALL OR MORE.

GENERAL NOTES - FOUNDATION BASEMENT

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.

PROFESSIONAL SEAL:



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

EVERSTEAD

3741 NE TROON DR. LEES SUMMIT, MO 64064 816-399-4901

VERSION:

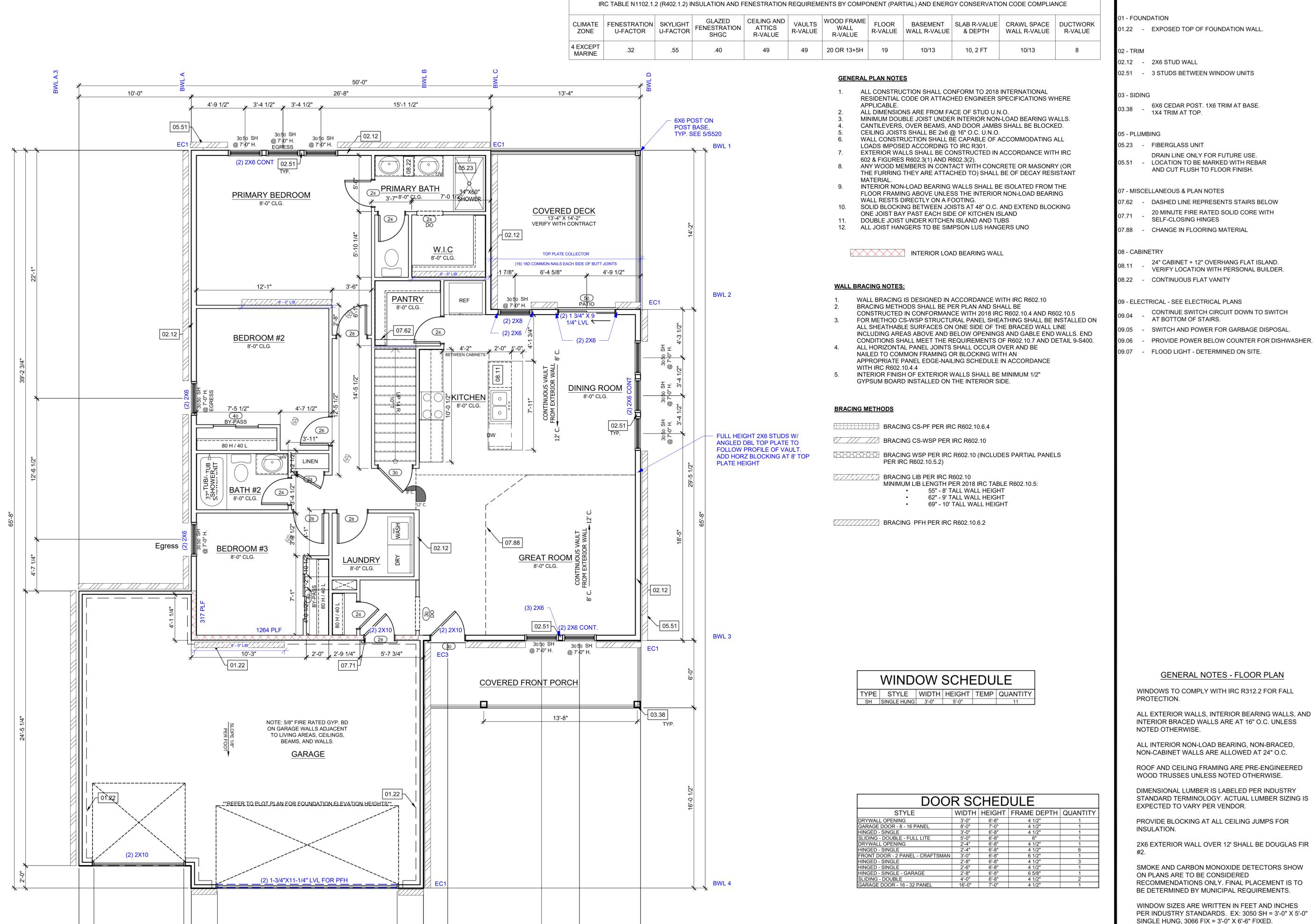
R4.02X6

05/03/2024

SHEET NUMBER:

A2.0

AS NOTED SANDLEANS REVIEW REVIEW DEVELOR WENT OF THE WAY OF THE WA



50'-0"

REFERENCE KEYNOTES

01 - FOUNDATION

01.22 - EXPOSED TOP OF FOUNDATION WALL.

02 - TRIM

02.12 - 2X6 STUD WALL

02.51 - 3 STUDS BETWEEN WINDOW UNITS

6X6 CEDAR POST. 1X6 TRIM AT BASE. 1X4 TRIM AT TOP.

05 - PLUMBING

DRAIN LINE ONLY FOR FUTURE USE. 05.51 - LOCATION TO BE MARKED WITH REBAR AND CUT FLUSH TO FLOOR FINISH.

07 - MISCELLANEOUS & PLAN NOTES

07.62 - DASHED LINE REPRESENTS STAIRS BELOW

20 MINUTE FIRE RATED SOLID CORE WITH SELF-CLOSING HINGES

07.88 - CHANGE IN FLOORING MATERIAL

08 - CABINETRY

24" CABINET + 12" OVERHANG FLAT ISLAND. VERIFY LOCATION WITH PERSONAL BUILDER.

08.22 - CONTINUOUS FLAT VANITY

09 - ELECTRICAL - SEE ELECTRICAL PLANS

CONTINUE SWITCH CIRCUIT DOWN TO SWITCH AT BOTTOM OF STAIRS.

09.05 - SWITCH AND POWER FOR GARBAGE DISPOSAL

09.06 - PROVIDE POWER BELOW COUNTER FOR DISHWASHER.

GENERAL NOTES - FLOOR PLAN

09.07 - FLOOD LIGHT - DETERMINED ON SITE.

CPG DBA

clover

120 SE 30TH ST. LEE'S SUMMIT, MO 64082 816-246-6700

COPYRIGHT 2023 THIS DRAWING HAS BEEN PREPARED BY CLOVER AND HIVE, OR UNDER THEIR DIRECT SUPERVISION AS AN INSTRUMENT OF SERVICE AND IS INTENDED FOR USE ONLY ON THIS PROJECT. ALL DRAWINGS, SPECIFICATIONS, AND DESIGNS, INCLUDING THE OVERALL LAYOUT, FORM, AND COMPOSITION OF SPACES ARE PROTECTED BY COPYRIGHT REGISTERED TO CPG, INC. ANY REPRODUCTION, USE, OR DISCLOSURE OF THE INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN CONSENT FROM CPG, INC. D/B/A SUMMIT HOMES EXCEPT AS REQUIRED FOR BIDDING AND CONSTRUCTION OF THIS PROJECT IS STRICTLY

ADDRESS: 1628 SW BUCKTHORN ST

> LEES SUMMIT MO 64082

9

R D

PROFESSIONAL SEAL:



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

> **EVERSTEAD** 3741 NE TROON DR. LEES SUMMIT, MO 64064 816-399-4901

> > **VERSION:**

R4.02X6

ISSUE DATE:

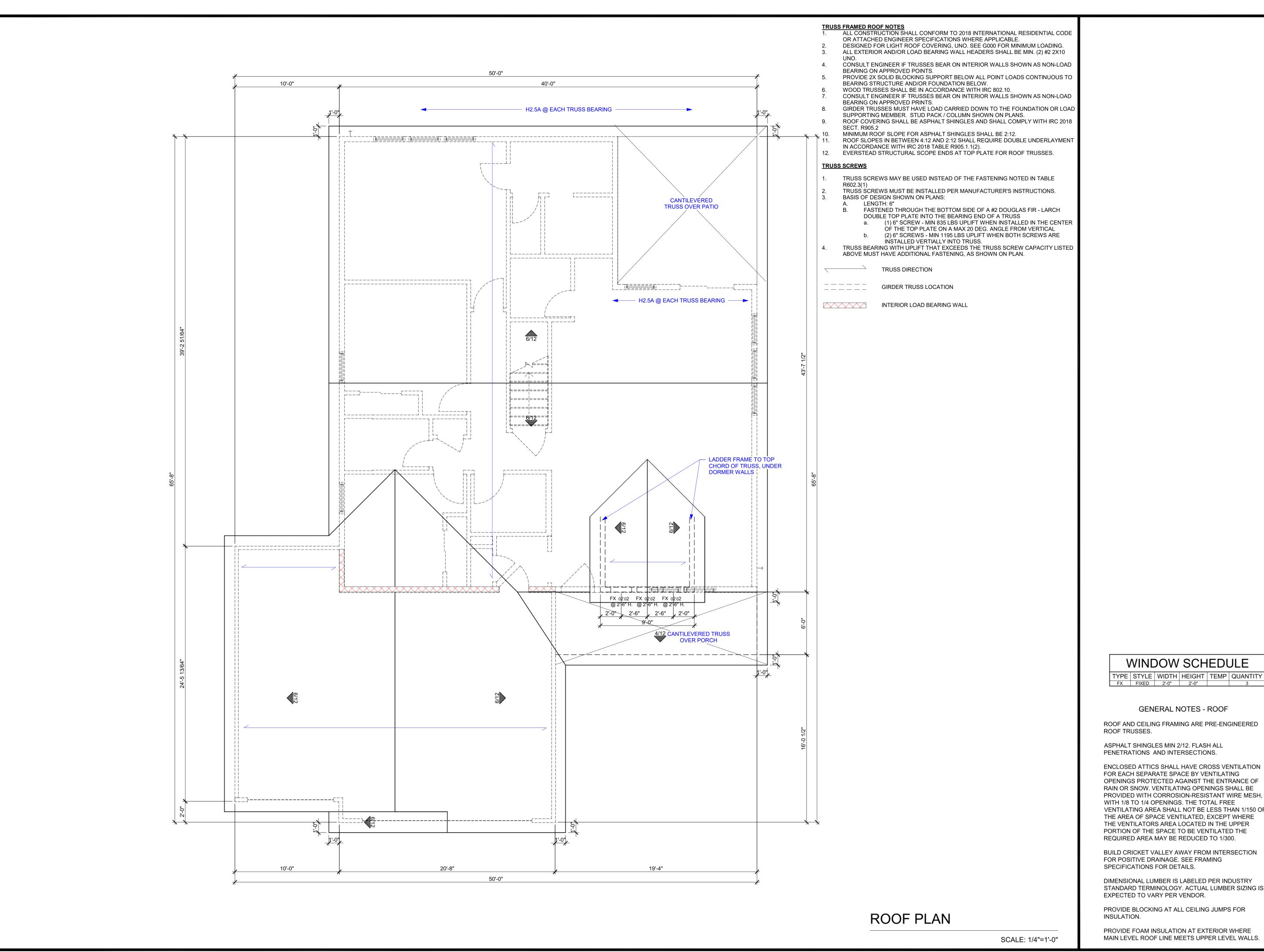
05/03/2024

SHEET NUMBER:

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

MAIN LEVEL PLAN

S NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES** 05/31/2024 3:45:58



ROOF AND CEILING FRAMING ARE PRE-ENGINEERED

GENERAL NOTES - ROOF

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

ENCLOSED ATTICS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH, WITH 1/8 TO 1/4 OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF SPACE VENTILATED, EXCEPT WHERE THE VENTILATORS AREA LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED THE

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

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

PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.

CPG DBA

clover

120 SE 30TH ST. LEE'S SUMMIT, MO 64082

COPYRIGHT 2023

816-246-6700

THIS DRAWING HAS BEEN PREPARED BY CLOVER AND HIVE, OR UNDER THEIR DIRECT SUPERVISION AS AN INSTRUMENT OF SERVICE AND IS INTENDED FOR USE ONLY ON THIS PROJECT. ALL DRAWINGS SPECIFICATIONS, AND DESIGNS, INCLUDING THE OVERALL LAYOUT, FORM, AND COMPOSITION OF SPACES ARE PROTECTED BY COPYRIGHT REGISTERED TO CPG, INC. ANY REPRODUCTION, USE, OR DISCLOSURE OF THE INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN CONSENT FROM CPG, INC. D/B/A SUMMIT HOMES EXCEPT AS REQUIRED FOR BIDDING AND CONSTRUCTION OF THIS PROJECT IS STRICTLY

ADDRESS:

1628 SW BUCKTHORN ST

LEES SUMMIT MO 64082

9

RIDG

PROFESSIONAL SEAL:



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

EVERSTEAD 3741 NE TROON DR. LEES SUMMIT, MO 64064

816-399-4901

VERSION:

R4.02X6

ISSUE DATE:

05/03/2024

SHEET NUMBER:

GENERAL NOTES IRC 2018

PLANS SHALL COMPLY WITH 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.

A.2 LOADING ASSUMPTIONS

ROOF + CEILING (NO STORAGE) 15 PSF ROOF + CEILING (STORAGE) 20 PSF 10 PSF CEILING JOISTS (STORAGE) EXTERIOR BALCONY / DECK 10 PSF INTERIOR FLOOR (MAIN FLOOR) 15 PSF INTERIOR FLOOR (UPPER FLOORS) 10 PSF 8" THICK MASONRY WALL 96 PSF 6" THICK MASONRY WALL 72 PSF 15 PSF EXTERIOR LIGHT FRAMED WOOD WALLS INTERIOR LIGHT FRAMED WOOD WALLS 10 PSF (INTERIOR WALLS INCLUDED IN 15 PSF DEAD LOAD)

ROOF LIVE LOAD

FLOOR LIVE LOAD 40 PSF (HABITABLE) GARAGE 50 PSF WITH 2000 LB POINT LOAD STORAGE 20 PSF (UNINHABITABLE) GUARDRAIL

CONTINUOUS LINEAR MAXIMUM POINT 200 LBS

GROUND SNOW LOAD 20 PSF

VELOCITY 115 MPH **EXPOSURE CATEGORY**

SOIL AND SITE ASSUMPTIONS

FOUNDATION DESIGN ASSUMES MINIMUM SOIL BEARING FOR THE SITE OF 1,500 PSF (2,000 PSF FOR KANSAS CITY, MO) UNLESS OTHERWISE NOTED. CONTRACTOR TO VISUALLY INSPECT THE SITE OR PROVIDE GEOTECHNICAL INVESTIGATION TO VERIFY MINIMUM ACCEPTABLE SOIL CONDITIONS FOR CL (SILTY CLAY) AS DEFINED BY 2018 IRC. THE CONTRACTOR IS RESPONSIBLE FOR ANY SOIL CONDITION THAT DOES NOT MEET THE MINIMUM REQUIREMENTS AND FOR CONTACTING THE ENGINEER OF

ACCESSORY STRUCTURES WITH AN EAVE HEIGHT LESS THAN 10'-0" AND AN AREA LESS THAN 600 FT MAT PROVIDE A MINIMUM SOIL COVER OF 12 INCHES MEASURED FROM THE BOTTOM OF CONCRETE.

LATERAL SOIL PRESSURES UNLESS OTHERWISE NOTED

ACTIVE AT REST 100 PSF

SITE GRADING SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE AT A MINIMUM OF 0.5% (6" IN THE FIRST 10'-0"). ALTERNATE APPROACHES MAY BE APPROVED IF THE ALTERNATE DESIGN IS EQUIVALENT IN EFFECTIVENESS AND PERFORMANCE, AND PROVIDES FOR POSITIVE SITE DRAINAGE.

FOUNDATION NOTES

FOUNDATION ANCHORAGE (IRC R403.1.6)

- SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WALL WITH A MINIMUM 1/2" DIAMETER ANCHOR BOLTS EMBEDDED AT LEAST 7" INTO THE CONCRETE.
- BOLTS SHALL BE SPACED NO GREATER THAN 6'-0" O.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 EQUALS A 9-1/4" LONG
- WALL BRACING METHODS (IRC R602) MAY REQUIRE ADDITIONAL ANCHORAGE.

C.2 CONCRETE SLABS

- CONCRETE SLABS PLACED ON FILL MATERIAL WHICH SHALL BE COMPARED TO ENSURE UNIFORM SUPPORT OF THE SLAB AND SHALL NOT EXCEED 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'-0" OVER-DIG ADJACENT TO FOUNDATION WALL:
 - WHERE SOIL IS EXCAVATED FOR A MAXIMUM DIMENSION OF 4'-0" 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'-0" OVER-DIG" DETAIL.

VAPOR RETARDER / BARRIER (IRC R506.2.3)

A 6 MILLIMETER 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 UNHEATED ACCESSORY BUILDINGS).

C.4 FOOTINGS

- THE BOTTOM OF ALL FOOTINGS SHALL EXTEND NOT LESS THAN 36" BELOW GRADE FOR FROST PROTECTION (IRC R403.1.4).
- FOOTINGS FOR FREESTANDING ACCESSORY STRUCTURES WITH AN AREA OF 600 SQ. FT. OR LESS AND AN EAVE HEIGHT OF 10'-0" OR LESS SHALL EXTEND BELOW GRADE A MINIMUM OF
- EXTERIOR WALLS, BEARING WALLS, COLUMNS 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" DETAILS.

C.5 CONCRETE

- ALL CONCRETE CONSTRUCTION SHOULD CONFORM TO ACI 318-14 (OR ACI 332) OR 2018 IRC.
- THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2.

C.5 CONCRETE (CONT.)

- CONCRETE MIX TO UTILIZE A MAXIMUM WATER-CEMENT MATERIALS RATIO OF 0.45 FOR ALL APPLICATIONS. ADMIXTURES SHALL NOT CONTAIN ANY CHLORIDES.
- CONCRETE POURED AGAINST AN EXISTING SURFACE SHOULD BE ROUGHENED TO A MINIMUM
- REBAR PLACEMENT SHALL BE AS FOLLOWS:

BEAMS, COLUMNS

- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3.0 IN CLR CONCRETE EXPOSED TO EARTH OR WEATHER 1.5 IN CLR NOT EXPOSED TO WEATHER OR GROUND SLABS, WALLS, JOISTS 3/4 IN CLR
- CONCRETE MIX DESIGN SHALL BE 6% (±1%) AIR-ENTRAINED FOR GARAGE SLABS, FOOTINGS, WALLS, OR FLATWORK EXPOSED TO WEATHER
- SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS BEFORE CONCRETE STRENGTH REACHES 70% OF STRENGTH DETERMINED BY CYLINDERS OR 28 DAYS.
- ALL FOUNDATION WALLS ENCLOSING BELOW GRADE SPACE SHALL BE DAMPPROOFED. THE DAMPPROOFING SHALL EXTEND FROM THE EDGE OF THE FOOTING TO THE FINISHED GRADE. (IRC R406.1)

C.6 CONCRETE WALLS WITH REINFORCEMENT STEEL

- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 40.
- SMOOTH BARS OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.
- 90 DEG. HOOK SHOWN IN DRAWINGS SHALL BE STANDARD PER ACI 318-14.
 - STRAIGHT EXTENSION LENGTH = 12X BAR DIA BEND DIAMETER = 12X BAR DIA.

HOOKED DOWELS:

- HOOKED DOWELS FROM FOUNDATIONS TO WALL SHALL BE PROVIDED TO MATCH VERTICAL WALL REINFORCING AND EXTENDED TO 3" CLEAR FROM BOTTOM OF
- HOOKED DOWELS MATCH SLAB REINFORCING FROM SLAB TO WALLS OR SLAB TO
- PROVIDE (2) #5 BARS AROUND PERIMETER OF ALL SUSPENDED SLABS.
- WHERE SPLICES ARE NECESSARY IN REINFORCEMENT, THE LENGTH OF LAP SPLICE SHALL BE IN ACCORDANCE WITH TABLE R608.5.4(1) AND FIGURE R608.5.4(1). THE MAXIMUM GAP BETWEEN NONCONTACT PARALLEL BARS AT A LAP SPLICE SHALL NOT EXCEED THE SMALLER OF ONE-FIFTH THE REQUIRED LAP LENGTH AND 6 INCHES (152MM) [SEE FIGURE R608.5.4.(1)].
- TOP HORIZONTAL REINFORCEMENT SHALL BE PLACED WITHIN 12" FROM THE TOP OF THE
- HORIZONTAL WALL REINFORCEMENT SHALL TERMINATE AT THE END OF THE WALL WITH A STANDARD HOOK

C.7 COLD WEATHER CONCRETE

- COLD WEATHER IS DEFINED AS THREE CONSECUTIVE DAYS WHERE THE AVERAGE DAILY TEMPERATURE DROPS BELOW 40 DEGREES FAHRENHEIT AND NOT ABOVE 50 DEGREES FAHRENHEIT FOR MORE THAN HALF OF ANY ONE OF THOSE THREE DAYS.
- COLD WEATHER CONCRETE WORK SHALL CONFORM TO ACI 306.
- ALL MATERIALS AND EQUIPMENT REQUIRED FOR PROTECTION SHALL BE AVAILABLE AT THE PROJECT SITE BEFORE COLD WEATHER CONCRETING BEGINS.
- THE CONCRETE MIX DESIGN PROVIDED BY THE SUPPLIER SHALL AT A MINIMUM REACH THE AVERAGE 28 DAY MIX DESIGN COMPRESSIVE STRENGTH IN MINIMUM 72 HOURS OR 2000 PSI -WHICHEVER IS GREATER.
- THE TEMPERATURE OF CONCRETE AT PLACEMENT SHALL BE A MINIMUM OF 55 DEGREES
- THE MINIMUM CONCRETE TEMPERATURE AT THE TIME OF MIXING SHALL NOT BE BELOW 65
- ALL SNOW, ICE AND FROST MUST BE REMOVED PRIOR TO PLACING CONCRETE.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR CONCRETE AGAINST FREEZING AND MAINTAIN A CONCRETE TEMPERATURE OF 55 DEGREES FAHRENHEIT FOR A 72 HOUR PERIOD AFTER CONCRETE PLACEMENT. THIS MAY BE ACHIEVED WITH THE USE OF INSULATING BLANKETS AND/OR THE USE OF TEMPORARY HEATERS.
- GROUND TEMPERATURE AT THE TIME OF PLACEMENT OF SLAB OR FOOTINGS SHALL NOT BE LESS THAN 35 DEGREES FAHRENHEIT.
- INSULATION, FORMS AND HEATERS MAY BE REMOVED AFTER 72 HOURS.
- MAINTAIN ADEQUATE PROTECTION OF SUB GRADE AND ADEQUATE DRAINAGE AWAY FROM EXPOSED CONCRETE ELEMENT TO PREVENT FREEZING.

C.8 FOOTNOTES

- 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 PLACED AS FOLLOWS:
- 8" WALL MINIMUM 2" FROM TENSION FACE
- 10" WALL MINIMUM 6-3/4" FROM THE OUTSIDE FACE
- EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL

HORIZONTAL REINFORCEMENT:

- ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" O.C.
- HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE
- (INTERIOR); AND BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" FROM INSIDE FACE) 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 CORNERS.
- 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.
- STRAIGHT WALLS MORE THAN 5'-0" TALL AND MORE THAN 16-0" 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).

MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE PER TABLE R402.2 MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f'c) TYPE OR LOCATION OF CONCRETE FOR SEVER WEATHERING POTENTIAL CONSTRUCTION BASEMENT WALLS, FOUNDATIONS AND OTHER CONCRETE NOT 2,500 EXPOSED TO THE WEATHER BASEMENT SLABS AND INTERIOR SLABS ON 2,500 GRADE, EXCEPT GARAGE FLOOR SLABS BASEMENT WALLS, FOUNDATION WALLS, EXTERIOR WALLS AND OTHER VERTICAL CONCRETE WORK 3,000 EXPOSED TO THE WEATHER PORCHES, CARPORT SLABS AND STEPS EXPOSED TO THE WEATHER, AND GARAGE 3,500 FLOOR SLABS SUSPENDED SLABS 4,000

D. FRAMING/STRUCTURE

D.1 FRAMING NOTES

1.5 IN CLR

- ALL TREATED LUMBER SIZES ARE DOUGLAS FIR-LARCH #2 UNLESS OTHERWISE NOTED
- ALL NON TREATED LUMBER OR ROT RESISTANT SIZES ARE #2 TREATED SOUTHERN YELLOW PINE UNLESS OTHERWISE NOTED.
- ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR-LARCH (2) 2X10 ON LOAD
- ALL HEADERS/BEAMS TO BEAR ON A MINIMUM OF (2) 2X4 JACK STUDS UNO. KING STUDS
- SHALL BE PROVIDED AT ALL HEADERS IN ACCORDANCE WITH IRC TABLE R602.7.5.
- DOUBLE JOIST UNDER PARALLEL INTERIOR NON-LOAD BEARING WALLS.

CANTILEVERS, OVER BEAMS AND DOOR JAMBS SHALL BE BLOCKED.

- ANY WOOD MEMBER IN CONTACT WITH CONCRETE OR MASONRY (OR THE FURRING THEY ARE ATTACHED TO) SHALL BE OF DECAY RESISTANT MATERIAL.
- IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN 10'-0" FEET IN LENGTH SHALL BE SPACED NOT MORE THAN IS SPECIFIED IN IRC TABLE R602.3(5) FOR THE CORRESPONDING STUD SIZE. THOSE STUDS GREATER THAN 10'-0" FEET IN LENGTH SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.
- ALL WOOD STRUCTUAL PANELS SHALL CONFORM TO THE MOST CURRENT APPLICABLE SPECIFICATION AND SUPPLEMENTS OF THE APA OR EQUIVALENT. ALL PANEL END JOINTS SHALL OCCUR OVER SUPPORTS AND SHALL BE STAGGERED ONE HALF PANEL LENGTH FROM ADJACENT PANELS. PROVIDE 1/8" INCH SPACE AT PANEL ENDS. WOOD STRUCTURAL PANEL MOISTURE CONTENT SHALL BE LESS THEN OR EQUAL TO 16%.
- ALL STRUCTURAL FRAMING MEMBERS SHALL BE AS FOLLOWS UNO:
- EXTERIOR WALLS TO BE CONTINUOUSLY SHEATHED WITH MIN. 7/16" OSB

2X4 OR 2X6 EXTERIOR WALLS AS PERMITTED BY CODE: DOUGLAS FIR-LARCH #2 (DF-L #2)

- EXTERIOR OSB SHEATHING TO BE FASTENED WITH 8D COMMON NAILS; 6" O. C. AT PANEL EDGES, 12" O. C. IN THE FIELD. 2X4 OR 2X6 INTERIOR LOAD BEARING WALLS DF-L #2 OR BETTER.
- LOAD BEARING, BRACED, AND SHEAR WALLS, REQUIRE A DOUBLE TOP PLATE. THE TOP PLY BEING FIELD APPLIED WITH A MIN. 24" LAP SPLICE
- FIELD APPLIED LAP SPLICED TOP PLATE: DF-L #2 OR BETTER LOAD BEARING HEADERS PER HEADER SCHEDULE OR AS SHOWN ON FRAMING PLANS. LOAD BEARING HEADERS TO BE FABRICATED WITH THE HEADER AT THE UNDER SIDE OF
- THE TOP PLATE WITH CRIPPLE FRAMING BELOW AS NEEDED UNO. INTERIOR NON LOAD BEARING WALLS: DF-L #2 STUD GRADE OR BETTER
- DOUBLE TOP PLATE IS NOT REQUIRED FOR INTERIOR NON LOAD BEARING WALLS HEADER CRIPPLE SPACING CAN BE 24" O. C. REGARDLESS OF WALL STUD SPACING FOR NON LOAD BEARING WALLS CRIPPLE FRAMING NOT REQUIRED ABOVE OR BELOW OPENINGS WHERE THE VERTICAL
- CLEAR HEIGHT IS 22" OR LESS FOR NON-LOAD BEARING WALLS. ALL LUMBER IN CONTACT WITH MASONRY OR OTHERWISE EXPOSED TO WEATHERING TO BE
- PRESSURE TREATED (PT). FIELD APPLIED SILL PLATE: PT DF-L #2
- BOTTOM (SOLE) PLATE IN CONTACT WITH MASONRY: PT DF-L #2 ALL PRESSURE TREATED WOOD SHALL BE PRESSURE TREATED WITH WATER-BORNE PRESERVATIVES. PRESSURE TREATMENT SHALL COMPLY WITH THE REQUIREMENTS OF AWPB,

C2, LP-22, AND IRC SECTION R317. ALL LUMBER < 8" ABOVE THE FINISHED GRADE SHALL BE

FASTENERS, INCLUDING NUTS AND WASHERS, FOR PRESSURE TREATED WOOD SHALL BE HOT-DIPPED, ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. COATING TYPES AND WEIGHTS FOR CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE IN ACCORDANCE WITH THE CONNECTOR MANUFACTURER'S RECOMMENDATIONS. IN THE ABSENCE OF MANUFACTURER'S RECOMMENDATIONS, A MIN. OF ASTM A653 TYPE G185 ZINC-COATED GALVANIZED STEEL, OR EQUIVALENT, SHALL BE USED. FOR EXCEPTIONS, REFER TO R317.3.1.

| ENGINEERED LUMBER MIIMUM DESIGN REQUIREMENTS | | | | | |
|--|---|---------------------|-----|--|--|
| | F _b (PSI) E (PSI) F _v (PSI) | | | | |
| LVL | 3100 | 1.9X10 ⁶ | 285 | | |
| DOUGLAS FIR-LARCH | 900 | 1.6X10 ⁶ | 180 | | |
| GLU-LAM | 2400 | 1.8X10 ⁶ | 230 | | |

D.2 STRUCTURAL STEEL

PRESSURE TREATED.

- STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- STEEL PIPE COLUMNS SHALL BE A MINIMUM OF SCHEDULE 40.
- STEEL GRADE AND SPECIFICATION SHALL BE AS FOLLOWS **HOLLOW STRUCTURAL SECTIONS:** CHANNELS, PLATES, ANGLES, AND COLUMNS:
 - WIDE FLANGES: STEEL PIPE COLUMN ANCHOR RODS:
- ASTM A500 ($F_Y = 46 \text{ KSI}$) ASTM A36 (F_Y = 36 KSI) ASTM A992 ($F_Y = 50 \text{ KSI}$) ASTM A53 GR.B ($F_Y = 35$ KSI) ASTM F1554 (F_Y = 36 KSI)
- 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 SPECIFICATIONS (WPS) AS REQUIRED IN AWS D1.1. THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER.
- WELDS SHALL USE E70XX ELECTRODES AND A MINIMUM OF 3/16" SIZE UNLESS NOTED
- ALL WELDS SPECIFIED AS FIELD WELDS MAY BE SHOP WELDED AT THE CONTRACTOR'S OPTION IF ERECTION CAN STILL BE EXECUTED.

E. <u>GLAZING</u>

- GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS.
 - GLASS IN STORM DOORS: INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE FLOOR.
 - GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF THE STAIRWAY WHERE THE GLAZING IS LESS THAN 36 INCHES ABOVE THE LANDING AND WITHIN A 60 IN HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING SHALL BE CONSIDERED A HAZARDOUS LOCATION.
- GLAZING IN WALLS, ENCLOSURES OR FENCES CONTAINING OR FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS, AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.
- WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH IRC R312.2.

F. <u>STAIRWAYS</u>

STAIRWAYS SHALL PROVIDE A MAXIMUM 7-3/4" RISE AND A MINIMUM 10" RUN.

EDGES OF THE TREADS.

- REQUIRED GUARD RAILS AT OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, PORCHES, BALCONIES, OR LANDINGS, SHALL NOT BE LESS THAN 36" HIGH MEASURED VERTICALLY ABOVE THE ADJACENT WALKING SURFACE.
 - EXCEPTION (1): GUARD RAILS ON THE OPEN SIDES OF STAIRS SHALL HAVE A HEIGHT NOT LESS THAN 34" MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING
 - EXCEPTION (2): WHERE THE TOP OF THE GUARD ALSO SERVES AS A HANDRAIL ON THE OPEN SIDES OF STAIRS, THE TOP OF THE GUARD SHALL NOT BE LESS THAN 34" AND NOT MORE THAN 38" MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS.
- GUARD RAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OF ORNAMENTAL PATTERNS THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.
- EACH STAIRWAY OF FOUR OR MORE RISERS SHALL PROVIDE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE TREADS.
- HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1-1/4" TO 2" OR OTHER APPROVED GRASPABLE SHAPE PER IRC R311.7.8.5.
- MINIMUM 6'-8" OF HEADROOM CLEARANCE IS REQUIRED IN STAIRWAYS. ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON ENCLOSURE PER IRC

GARAGES

- THE GARAGE FLOOR SHALL SLOPE 1/8" PER 12" TO DRAIN OR VEHICLE ENTRY DOORWAYS.
- DOORS BETWEEN THE GARAGE AND THE DWELLING TO BE: SELF CLOSING, MINIMUM 1-3/8" SOLID CORE OR HONEYCOMBED STEEL DOOR, AND AT LEAST 20 MINUTE FIRE RATED.
- THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY A MINIMUM 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE WHERE A FLOOR/CEILING SPACE IS
- THE GARAGE COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 1/2" GYPSUM BOARD OR EQUIVALENT.
- WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE FLOOR/CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM 5/8" TYPE "X" GYPSUM BOARD ON THE GARAGE CEILING.
- 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 CEILINGS, ATTACHED WITH 1-3/4" X 0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 3-1/4" X 0.120" NAILS THROUGH THE JAMB INTO THE HEADER, 2X8 HEADER (MINIMUM) FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.
- GARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115 MPH WIND LOAD REQUIREMENT OF DASMA 108 AND ASTM E330-96 (IRC R301.2.1).

- THE ROOF IS DESIGNED FOR 20 PSF GROUND SNOW LOAD (MINIMUM)
- PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.
- ROOF IS ENGINEERED TO COMPLY WITH IRC R802.
- ROOF TO BE ASPHALT SHINGLES UNO AND SHALL COMPLY WITH IRC 2018 SECT. R905.2
- MINIMUM ROOF SLOPE FOR ASPHALT SHINGLES SHALL BE 2:12.
- ROOF SLOPES IN BETWEEN 2:12 AND 4:12 SHALL REQUIRE DOUBLE UNDERLAYMENT IN ACCORDANCE WITH IRC 2018 SECTION R905.2.2:
- THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. STARTING AT THE EAVE, APPLY 36-INCH-WIDE (914 MM) SHEETS OF UNDERLAYMENT, OVERLAPPING SUCCESSIVE SHEETS 19 INCHES (483MM), AND FASTENED SUFFICIENTLY TO HOLD IN PLACE, END LAPS SHALL BE 4-INCH (102MM) AND SHALL BE OFFSET BY 6 FEET (1829 MM). DISTORTIONS IN THE UNDERLAYMENT SHALL NOT INTERFERE WITH THE ABILITY OF THE SHINGLES TO SEAL."

"APPLY A 19-INCH (483MM) STRIP OF UNDERLAYMENT FELT PARALLEL TO AND STARTING AT

SAFETY REQUIREMENTS

I.1 EMERGENCY EGRESS AND RESCUE

- PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SQ. FT. WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 20".
- BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC R310.

I.2 SMOKE AND CARBON MONOXIDE SAFETY (PER IRC R314)

- PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR INCLUDING BASEMENTS.
- SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING.
- CARBON MONOXIDE DETECTORS SHALL BE INSTALLED AS REQUIRED PER IRC R315.

J. <u>ENERGY REQUIREMENTS</u>

LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE IC-RATED, LEAKAGE RATED AND SEALED TO THE GYPSUM WALLBOARD AS REQUIRED PER IRC N1102.4.5.

AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2% AIR LEAKAGE RATE PER IRC N1103.3.2.1.

MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400

AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER

- PROGRAMMABLE THERMOSTATS SHALL BE INSTALLED AS REQUIRED PER IRC N1103.1.1.
- BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.
- HOT WATER PIPES SHALL BE INSULATED AS REQUIRED PER IRC N1103.4. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR AS REQUIRED PER IRC
- CFM AS REQUIRED PER IRC M1503.6.

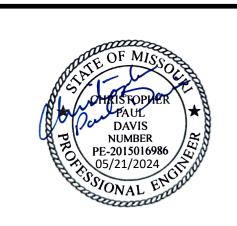
IRC M1601.6 ENERGY CONSERVATION.

- **ABBREVIATIONS** AFF: ABOVE FINISHED FLOOR
- CLR: CLEAR EFF: EFFECTIVE **EFP: EQUIV FLUID PRESSURE**
- EOR: ENGINEER OF RECORD **EQUIV: EQUIVALENT** MAX: MAXIMUM
- MIN: MINIMUM NTS: NOT TO SCALE O.C.: ON CENTER
- PCF: POUNDS PER CUBIC FOOT PLF: POUNDS PER LINER FOOT PSF: POUNDS PER SQUARE FOOT

PSI: POUNDS PER SQUARE INCH

UNO: UNLESS NOTED OTHERWISE FV: FIELD VERIFY





3741 NE TROON DRIVE, SUITE 200 LEE'S SUMMIT, MO 64064 everstead.com (816)399-490°

EVERSTEAD

0

(7)

 $\overline{\mathbf{x}}$

 O

 Δ

 \bigcirc

Q

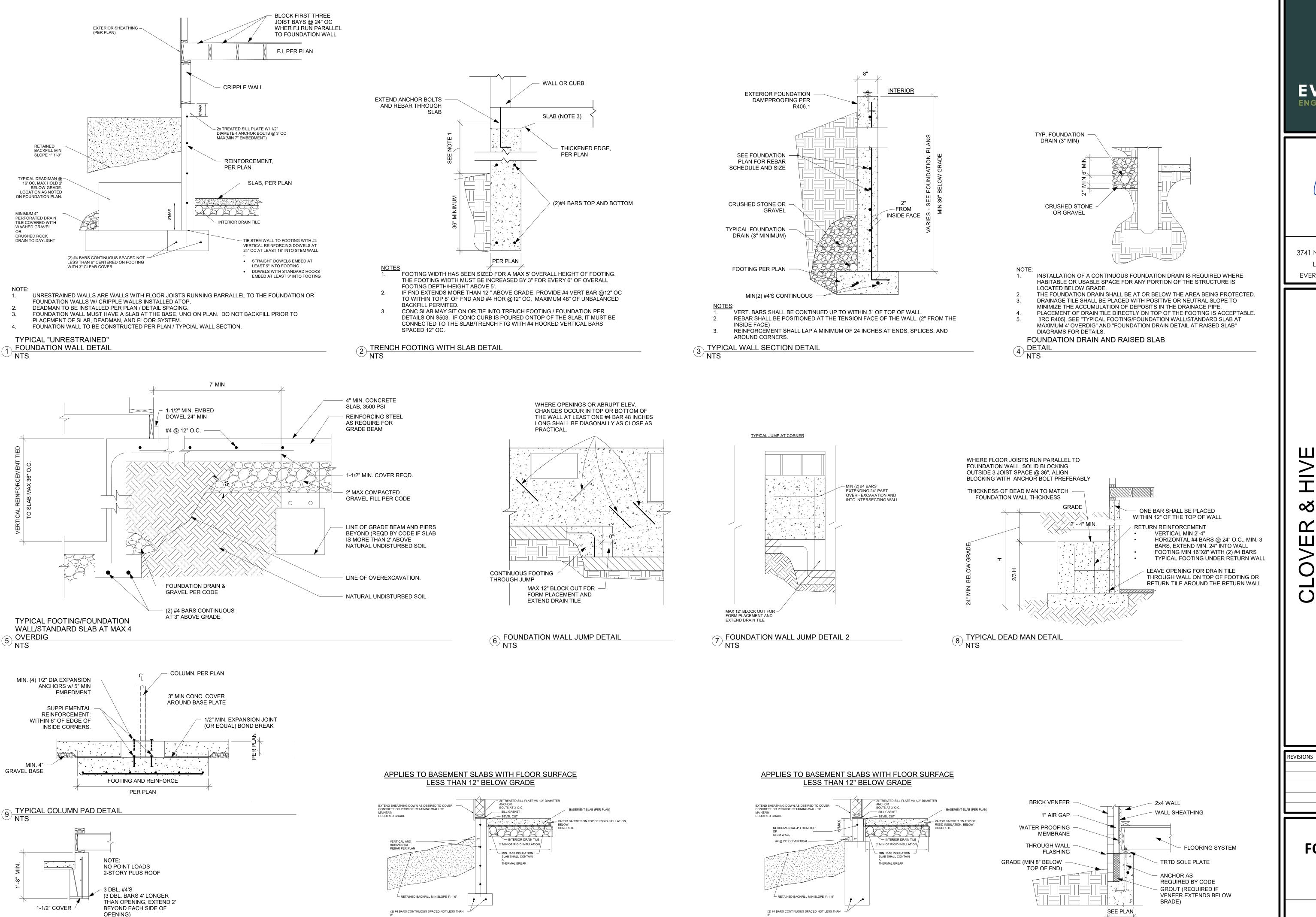
REVISIONS

STRUCTURAL GENERAL NOTES

SCALE

10/10/202399FOR:SONATOU

DEVELD/MENT1SERVI 05/31/2024 3:45:58



CENTERED ON FOOTING

12 FOOTING WITH STEM WALL NTS

SLAB INSULATION DETAIL FOR TRENCH

13 BRICK VENEER DETAIL NTS

CENTERED ON FOOTING

WALL AND FOOTING NTS

6' MAXIMUM OPENING HEADER DETAIL NTS

SLAB INSULATION DETAIL FOR STEM

NUMBER

PE-2015016986

EVERSTEAD

3741 NE TROON DRIVE, SUITE 200

LEE'S SUMMIT, MO 64064

EVERSTEAD.COM (816)399-4901

0

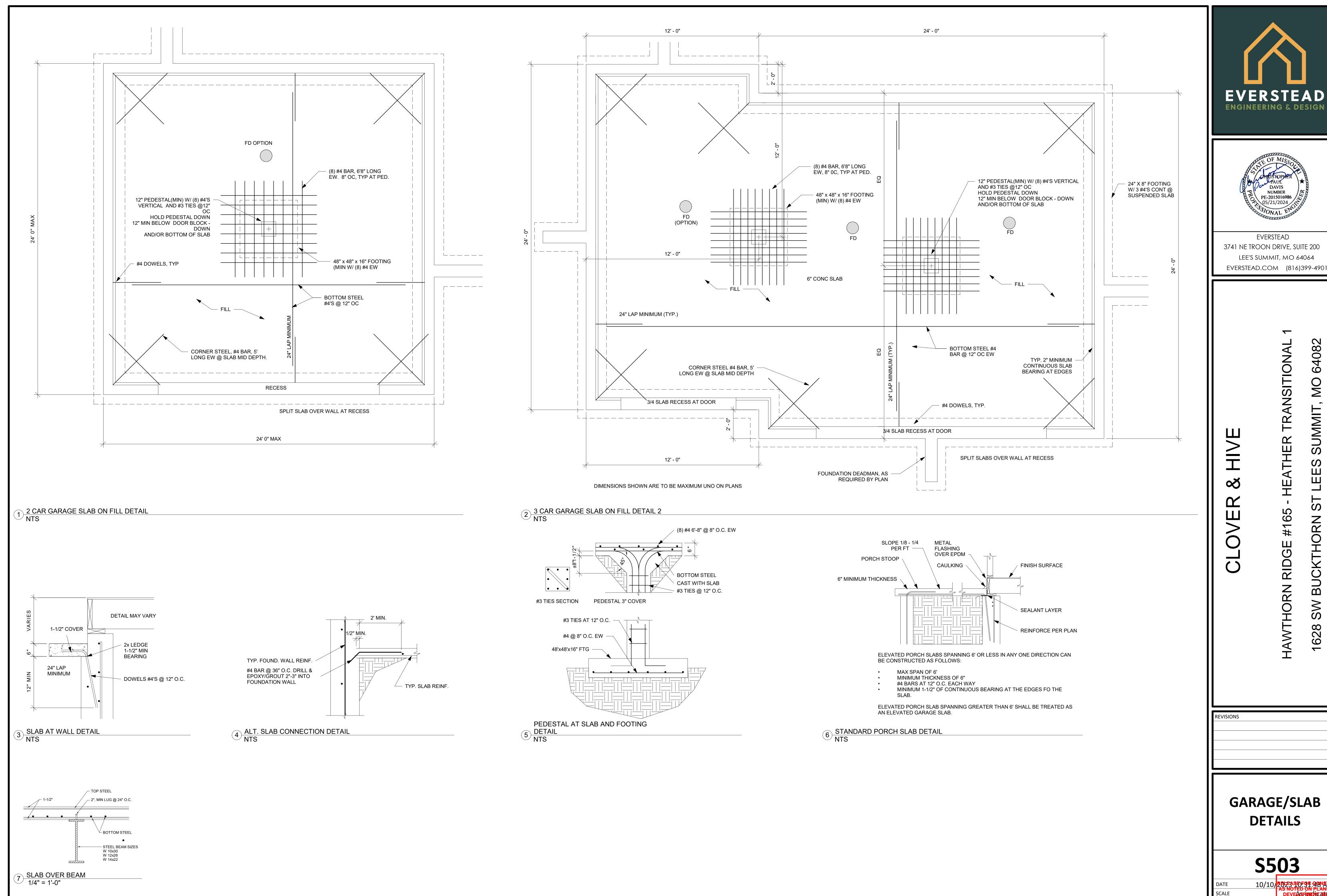
A N

RD

FOUNDATION DETAILS

S501

SCALE 05/31/2024 3:45:58



65 RIDGE

S503

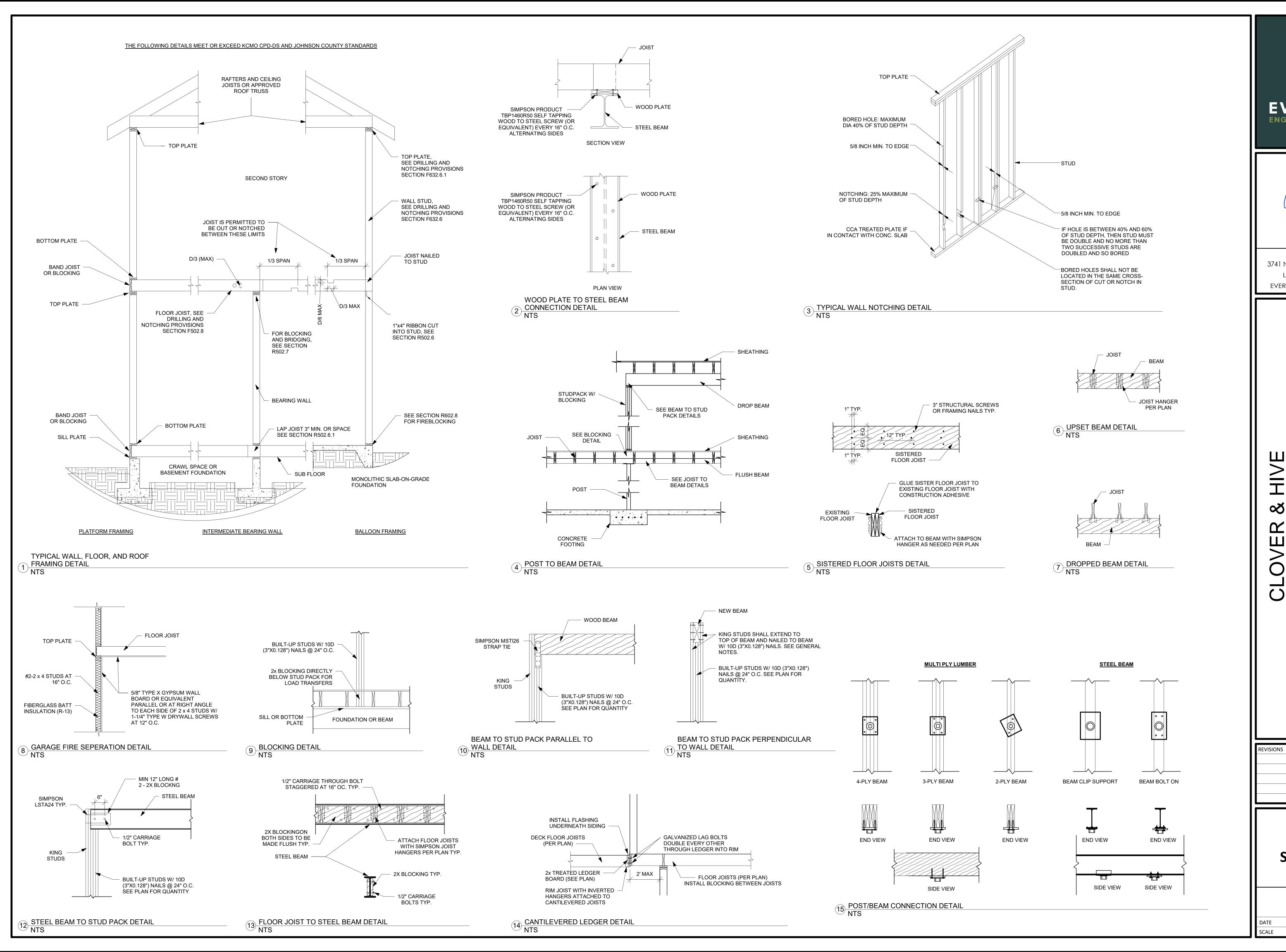
10/10/202390F9R-98NATMUC AS NOTED ON PLANS REV DEVEASHINENIC SERVICE

05/31/2024 3:45:58

6408 BUCKTHORN

EVERSTEAD







DAVIS NUMBER

PE-2015016986

EVERSTEAD

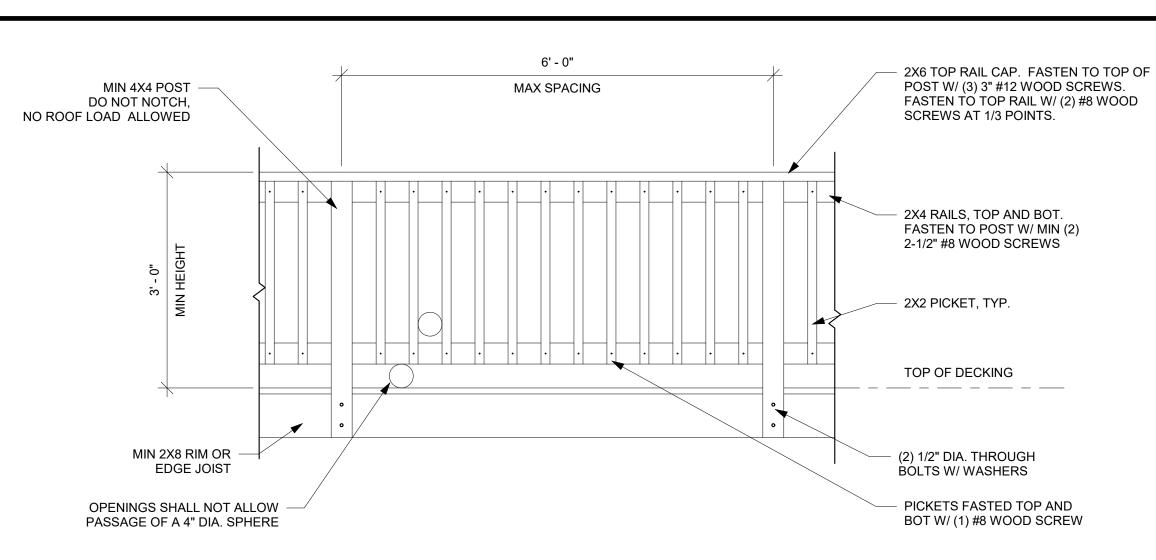
HAWTHORN RIDGE #165 - HEATHER TRANSITIONAL 1628 SW BUCKTHORN ST LEES SUMMIT, MO 6408;

FRAMING STANDARDS

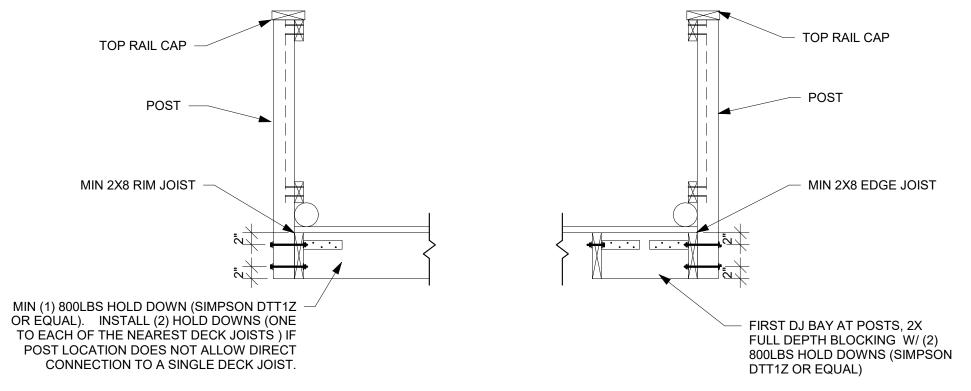
S510

10/10/202390F9R:59NATMU AS NOTED ON PLANS RE DEVEASRIMENICATERONIC

05/31/2024 3:45:58



DECK RAILING DETAIL DRAWN TO MEET THE INTENT OF R312 OF THE 2018 IRC AND A CONCENTRATED LOAD OF 200 LBS PER 1607.8.1 OF THE 2018 IBC.



RAILING ATTACHED TO EDGE JOIST **RAILING ATTACHED TO RIM JOIST**

DECK RAILING NTS

1/2" DIAMETER BOLT WITH 15/32"

MAX SHEATHING

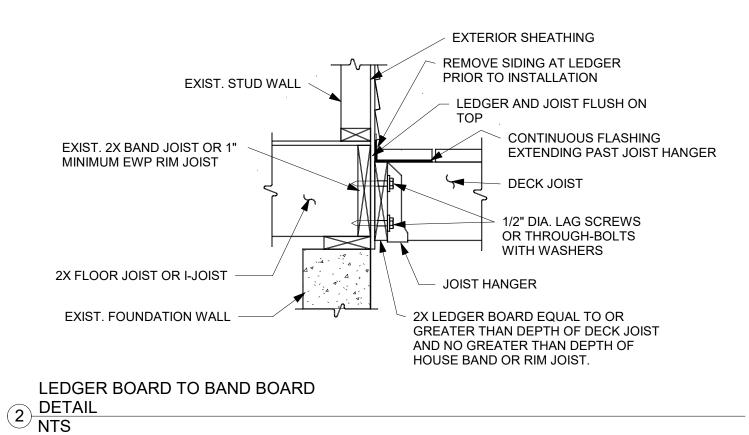
1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING AND 1/2" STACKED

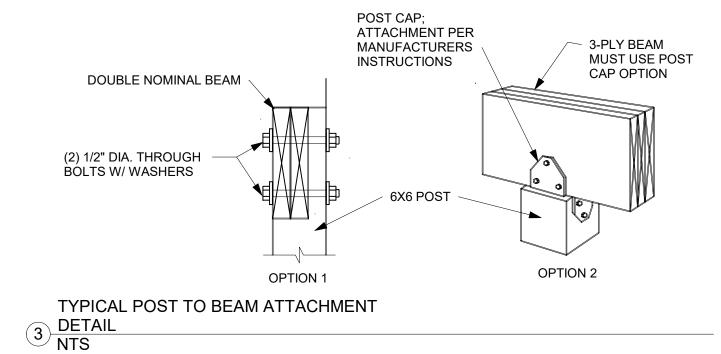
WASHERS

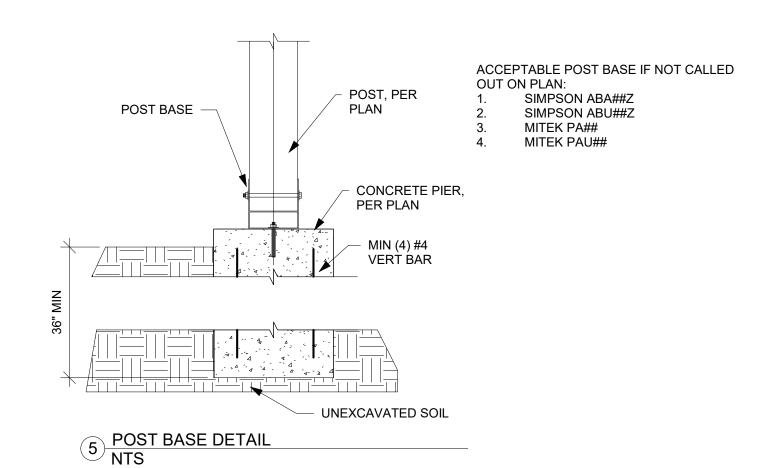
LEDGER LAG SCREW OR BOLT D = 5.5" MIN. FOR 2x8* D = 6.5" MIN. FOR 2x10 D = 7.5" MIN. FOR 2X12 *DISTANCE SHALL BE PERMITTED TO BE REDUCED TO 4.5" IF LAG SCREWS ARE USED OR BOLT SPACING IS REDUCED TO THAT OF LAG SCREWS TO ATTACH 2x8 LEDGERS TO 2X8 BAND JOISTS

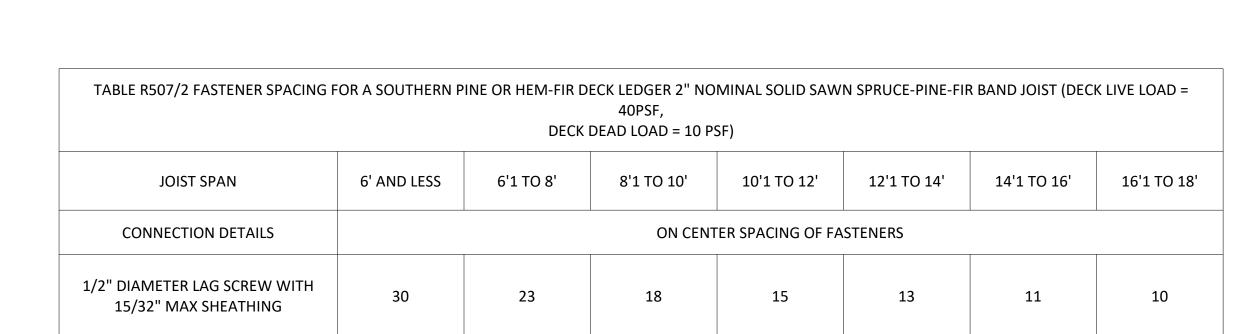
- STAGGER FASTENERS IN TWO ROWS

 $\underbrace{\textbf{4} \frac{\text{DECK LEDGER DIMENSION DETAIL}}{\text{NTS}}}$









34

29

29

24

21

18

19

16

24

21

36

∞

REVISIONS

65 BUCKTHORN RIDGE HORN

DAVIS NUMBER PE-2015016986

EVERSTEAD 3741 NE TROON DRIVE, SUITE 200

LEE'S SUMMIT, MO 64064 EVERSTEAD.COM (816)399-4901

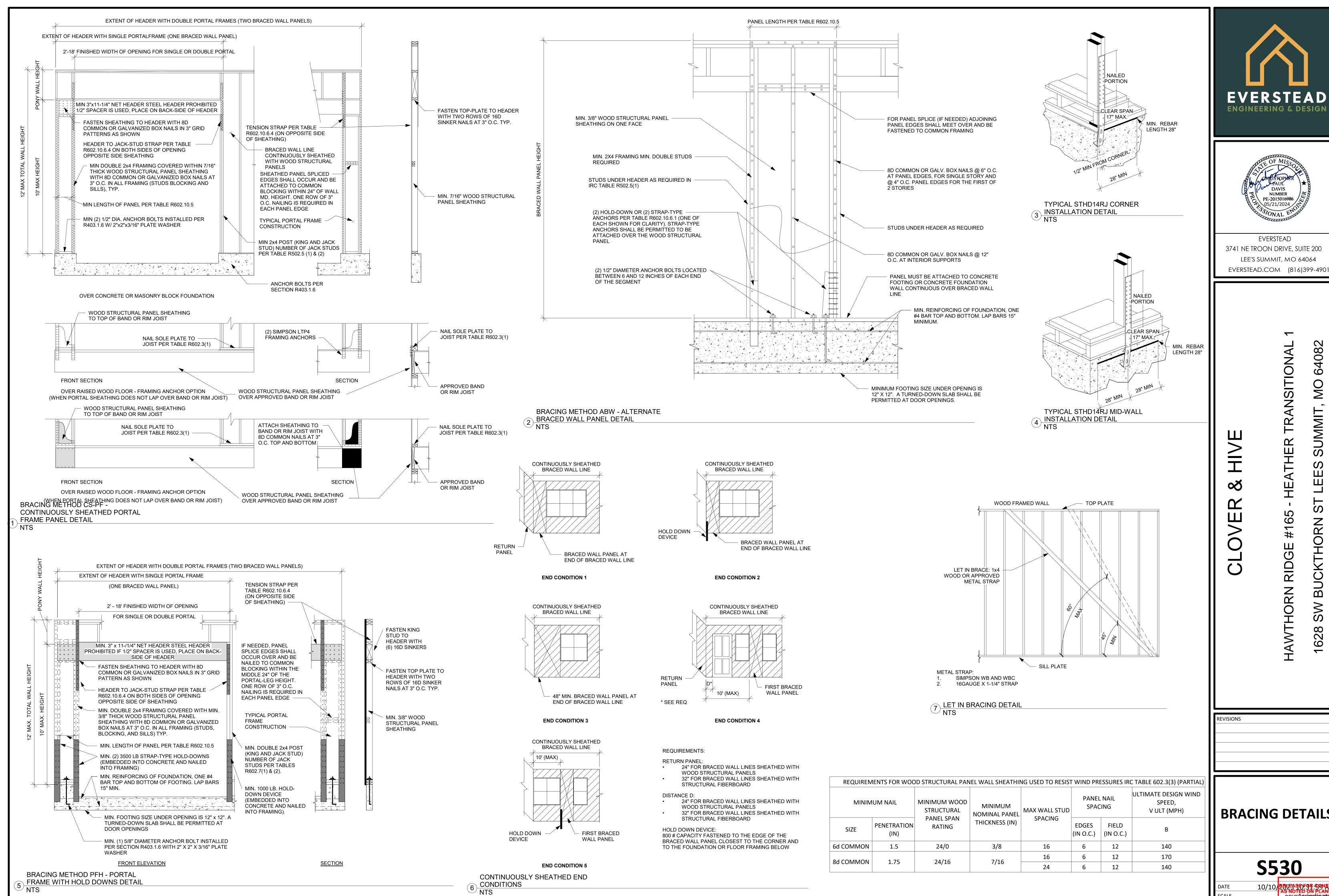
ANSITIONAL

64082

05/31/2024 3:45:58

S520 SCALE

DECK DETAILS



0 Δ

DAVIS NUMBER PE-2015016986 **EVERSTEAD** 3741 NE TROON DRIVE, SUITE 200 LEE'S SUMMIT, MO 64064

BRACING DETAILS

SCALE

05/31/2024 3:45:58

| | BRACING METHODS TABLE R602 | 10.4 (PARTIAL) | | |
|---|--|---|--|--|
| METHODS MATERIAL | MINIMUM | CONNECTION CRITERIA | | |
| METHODS, MATERIAL | THICKNESS | FASTENERS | SPACING | |
| WSP - WOOD STRUCTURAL PANEL AND CS-WSP CONTINUOUSLY SHEATHED | 3/8" PANEL W/ MINIMUM 24/0 STRUCTURAL PANEL SPAN RATING | 6d COMMON NAILS (2.0" x .113") W/ MINIMUM 1.5" PENETRATION | 6" EDGES, 12" FIELD | |
| WOOD STRUCTURAL PANEL | 7/16" PANEL W/ MINIMUM 24/16 STRUCTURAL PANEL SPAN RATING | 8d COMMON NAILS (2.5" x .131") W/ MINIMUM 1.75" PENETRATION | 6" EDGES, 12" FIELD | |
| PFH - PORTAL FRAME WITH HOLD-DOWNS | 3/8" | SEE DETAIL ON THIS PAGE | SEE DETAIL ON THIS PAGE | |
| PFG - PORTAL FRAME AT GARAGE | 3/8" | SEE IRC SECTION R602.10.6.3 | SEE IRC SECTION R602.10.6.3 | |
| LIB LET-IN-BRACING | 1x4 WOOD OR APPROVED METAL | WOOD: 2-8d COMMON NAILS OR 3-8d (2-1/2" LONG x .113" DIA.) NAILS | WOOD: PER STUD AND TOP AND BOTTOM PLATES | |
| | STRAPS AT 45 TO 60 DEGREE ANGLES FOR MAX 16" STUD SPACING | SIMPSON WB/WBC INSTALLED IN "X" PAIRS OR IN OPPOSING "V" FASHION AND FASTENED W/ (2) 16d COMMON NAILS FOR PLATE AND (1) 8d COMMON NAIL FOR STUDS | METAL: PER STUD AND TOP AND BOTTOM PLATES | |
| | | 1/2" INTERIOR SHEATHING W/ STUDS AT 16" O.C.: 13 GAGE, 1-3/8" LONG, 19/64" HEAD; .098" DIA., 1-1/4" LONG, ANNULAR-RINGED; 5d COOLER NAIL, .086" DIA., 1-5/8" LONG, 15/64" HEAD; OR GYPSUM BOARD NAIL, .086" DIA. 1-5/8" LONG, 9/32" HEAD PER TABLE R702.3.5 (SEE TABLE FOR OTHER PANEL THICKNESS OPTIONS) | FOR ALL BRACED WALL PANEL | |
| GB-GYPSUM BOARD | 1/2" | EXTERIOR 1/2" SHEATHING: 1-1/2" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE W OR S PER TABLE R602.3(1) | LOCATIONS: 7" EDGES (INCLUDING TOP AND BOTTOM PLATES) 7" FIELD | |
| | | EXTERIOR 5/8" SHEATHING: 1-3/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE W OR S PER TABLE R602.3(1) | | |

| DESCRIPTION OF BUILDING MATERIALS | NUMBER AND TYPE OF FASTENER | SPACING AND LOCATION OF FASTENERS | |
|---|--|---|--|
| | ROOF | | |
| BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE | 4-8d BOX (2-1/2"x0.113") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS | TOE NAIL | |
| CEILING JOISTS TO PLATE | 4-8d BOX (2-1/2"x0.131") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10 BOX (3"x0.128") OR 3-3"x0.131" NAILS | TOE NAIL | |
| CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER LAPS OVER PARTITIONS | 4-10d BOX (3"x0.128") OR 3-16d COMMON (3-1/2"x0.162") OR 4-3"x0.131" NAILS | FACE NAIL | |
| COLLAR TIE TO RAFTER, FACE NAIL OR 1-1/4"x20 GAGE RIDGE STRAP | 4-10d BOX (3"x0.128") OR 3-10d COMMON (3"x0.148") OR 4-3"x0.131" NAILS | FACE NAIL EACH RAFTER | |
| RAFTER OR ROOF TRUSS TO TOP PLATE, TOE NAIL | 4-16d BOX (3-1/2"x0.135") OR 3-10d COMMON (3"x0.148") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS | 2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS | |
| ROOF RAFTERS TO | 4-16d BOX (3-1/2"x0.135") OR 3-10d COMMON (3"x0.148") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS | TOE NAIL | |
| RIDGE, VALLEY OR HIP RAFTERS | 3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS | END NAIL | |
| | WALL | | |
| STUD TO STUD (NOT | 16d COMMON (3-1/2"x0.162") | 24" O.C. FACE NAIL | |
| AT BRACED WALL PANELS) | 10d BOX (3"x0.128") OR 3"x0.131" NAIL | 16" O.C. FACE NAIL | |
| STUD TO STUD AND ABUTTING STUDS AT | 16d BOX (3-1/2"x0.135") OR 3"x0.131" NAIL | 12" O.C. FACE NAIL | |
| INTERSECTION WALL CORNERS (AT BRACED WALL PANELS) | 16d COMMON (3-1/2"x0.162") | 16" O.C. FACE NAIL | |
| BUILT-UP HEADER, TWO PIECES | 16d COMMON (3-1/2"x0.162") | 16" O.C. EACH EDGE FACE NAIL | |
| WITH 1/2" SPACER | 16d BOX (3-1/2"x0.135") | 12" O.C. EACH EDGE FACE NAIL | |
| CONTINUOUS HEADER TO STUD | 5-8d BOX (2-1/2"x0.113") OR 4-8d COMMON (2-1/2"x0.131") OR 4-10d BOX (3"x0.128") | TOE NAIL | |
| TOD DI ATE TO TOD DI ATE | 16d COMMON (3-1/2"x0.162") | 16" O.C. FACE NAIL | |
| TOP PLATE TO TOP PLATE | 10d BOX (3"x0.128") OR 3"x0.131" NAIL | 12" O.C. FACE NAIL | |
| DOUBLE TOP PLATE SPLICE | 8-16d COMMON (3-1/2"x0.162") OR 12-16d BOX (3-1/2"x0.135") OR 12-10d BOX (3"x0.128") OR 12-3"x0.131" NAILS | FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT) | |
| BOTTOM PLATE TO JOIST, RIM JOIST, | 16d COMMON (3-1/2"x0.162") | 16" O.C. FACE NAIL | |
| BAND JOIST, OR BLOCKING (NOT BRACED WALL PANELS) | -16d BOX (3-1/2"x0.135") OR 3"x0.131" NAIL | 12" O.C. FACE NAIL | |
| BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (AT BRACED WALL PANELS) | 3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162") OR 4-3"x0.131" NAILS | 3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL | |
| TOD OD DOTTOM DI ATE TO CTUD | 4-8d BOX (2-1/2"x0.113") OR 3-16d BOX (3-1/2"x0.135") OR 4-8d COMMON (2-1/2"x0.131") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS | TOE NAIL | |
| TOP OR BOTTOM PLATE TO STUD | 3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS | END NAIL | |
| TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS | 3-10d BOX (3"x0.128") OR 2-16d COMMON (3-1/2"x0.162") OR 3-3"x0.131" NAILS | FACE NAIL | |
| 1" BRACE TO EACH STUD AND PLATE | 3-8d BOX (2-1/2"x0.113") OR 2-8d COMMON (2-1/2"x0.131") OR 2-10d BOX (3"x0.128") OR 2 STAPLES 1-3/4" | FACE NAIL | |
| 1"x6" SHEATHING TO EACH BEARING | 3-8d BOX (2-1/2"x0.113") OR 2-8d COMMON (2-1/2"x0.131") OR 2-10d BOX (3"x0.128") OR 2 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG | FACE NAIL | |
| 1"x8" AND WIDER SHEATHINGTO EACH BEARING | 3-8d BOX (2-1/2"x0.113") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 3 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG WIDER THAN 1"x8": 4-8d BOX (2-1/2"x0.113") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 4 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG | FACE NAIL | |

| | FLOOR | | | |
|--|---|---------------------------|--|--|
| JOIST TO SILL, TOP PLATE, OR GIRDER | 4-8d BOX (2-1/2"x0.113") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS | TOE | E NAIL | |
| RIM JOIST, BAND JOIST OR | 8d BOX (2-1/2"x0.113") | 4" O.C. | TOE NAIL | |
| BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO) | 8d COMMON (2-1/2"x0.131") OR 10d BOX (3"x0.128") OR 3"x0.131" NAIL | 6" O.C. | TOE NAIL | |
| 1"x6" SUBFLOOR OR LESS TO EACH JOIST | 3-8d BOX (2-1/2"x0.113") OR 2-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 2 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG | FACE NAIL | | |
| 2" SUBFLOOR TO JOIST OR GIRDER | 3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162") | BLIND AND FACE NAIL | | |
| 2" PLANKS (PLANK & BEAM-FLOOR & ROOF) | 3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162") | AT EACH BEARING FACE NAIL | | |
| BAND OR RIM JOIST TO JOIST | 3-16d COMMON (3-1/2"x0.162") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS OR 4 3"x14 GA. STAPLES, 7/16" CROWN | ENI |) NAIL | |
| | 20d COMMON (3"x0.128") | O.C AT TOP ENI | ER AS FOLLOWS: 32 D AND BOTTOM AND GGERED. | |
| BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS | 10d BOX (3"x0.128") OR 3"x0.131" NAIL | BOTTOM STAGE | NAIL AT TOP AND BERED ON OPPOSITI BIDES | |
| | AND: 2-20d COMMON (4"x0.192") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS | | ENDS AND AT EACH PLICE | |
| LEDGER STRIP SUPPORTING JOISTS OR RAFTERS | 4-16d BOX (3-1/2"x0.135") OR 3-16d COMMON (3-1/2"x0.162") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS | | AT EACH JOIST OR RAFTER, FACE NAIL | |
| BRIDGING OR BLOCKING TO JOIST | 2-10d BOX (3"x0.128") OR 2-8d COMMON (2-1/2"x0.131") OR 2-3"x0.131" NAILS | EACH END, TOE NAIL | | |
| DESCRIPTION OF BUILDING MATERIALS | NUMBER AND TYPE OF FASTENER | EDGES (IN) | INTERMEDIATE SUPPORTS (IN) | |
| | LS, SUBFLOOR, ROOF AND INTERIOR WALL SI | | IING AND | |
| | PARTICLEBOARD WALL SHEATHING TO FRAMIN OOD STRUCTURAL PANEL EXTERIOR WALL SH | | FRAMING] | |
| | 6d COMMON (2"x0.113") NAIL (SUBFLOOR, | | | |
| 3/8" - 1/2" | WALL) OR 8d COMMON (2-1/2"x0.131") NAILS (ROOF) OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF) | 6 | 12 | |
| 19/32" - 1" | 8d COMMON NAIL (2-1/2"x0.131") OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF) | 6 | 12 | |
| 1-1/8" - 1-1.4" | 10d COMMON (3"x0.148") NAIL OR 8d (2-1/2"x0.131") DEFORMED NAIL | 6 | 12 | |
| | OTHER WALL SHEATHING | | | |
| 1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING | 1-1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN | 3 | 6 | |
| 25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING | 1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN | 3 | 6 | |
| 1/2" GYPSUM INTERIOR COVERING (R702.3.5) | 1-1/2" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE "W" OR "S" | 7 | 7 | |
| 5/8" GYPSUM INTERIOR COVERING (R702.3.5) | 1-3/4" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE "W" OR "S" | 7 | 7 | |
| WOOD STRUCTURAL | PANELS, COMBINATION SUBFLOOR UNDERLA | YMENT TO FRAMIN | G | |
| 3/4" AND LESS | 6d DEFORMED (2"x0.120") NAIL OR 8d COMMON (2-1/2"x0.131") NAIL | 6 12 | | |
| 7/8" - 1" | 8d COMMON (2-1/2"x0.131") NAIL OR 8d DEFORMED (2-1/2"x0.120") NAIL | 6 12 | | |
| 1-1/8" - 1-1/4" | 10d COMMON (3"x0.148") NAIL OR 8d DEFORMED (2-1/2"x0.120") NAIL | 6 | 12 | |
| | | 1 | I. | |

TABLE R507.9.1.3(2) PLACEMENT OF LAG SCREWS AND BOLTS IN DECK
LEDGERS AND BAND JOISTS

MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (INCHES)

TOP EDGE

LEDGER

BAND JOIST

BOTTOM EDGE

3/4

ROW SPACING

1-5/8 MIN. 5 MAX

1-5/8 MIN 5 MAX

NUMBER AND TYPE OF FASTENER

DESCRIPTION OF BUILDING MATERIALS



EVERSTEAD 3741 NE TROON DRIVE, SUITE 200

LEE'S SUMMIT, MO 64064 EVERSTEAD.COM (816)399-4901

TRANSITIONAL

∞

64082

SUMMIT,

BUCKTHORN

SPACING AND LOCATION OF FASTENERS

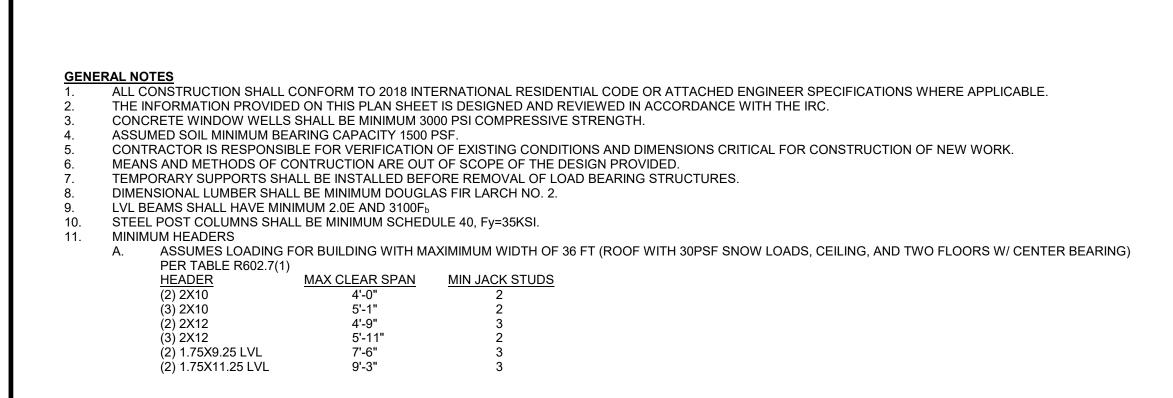
HAWTHORN RIDGE #165

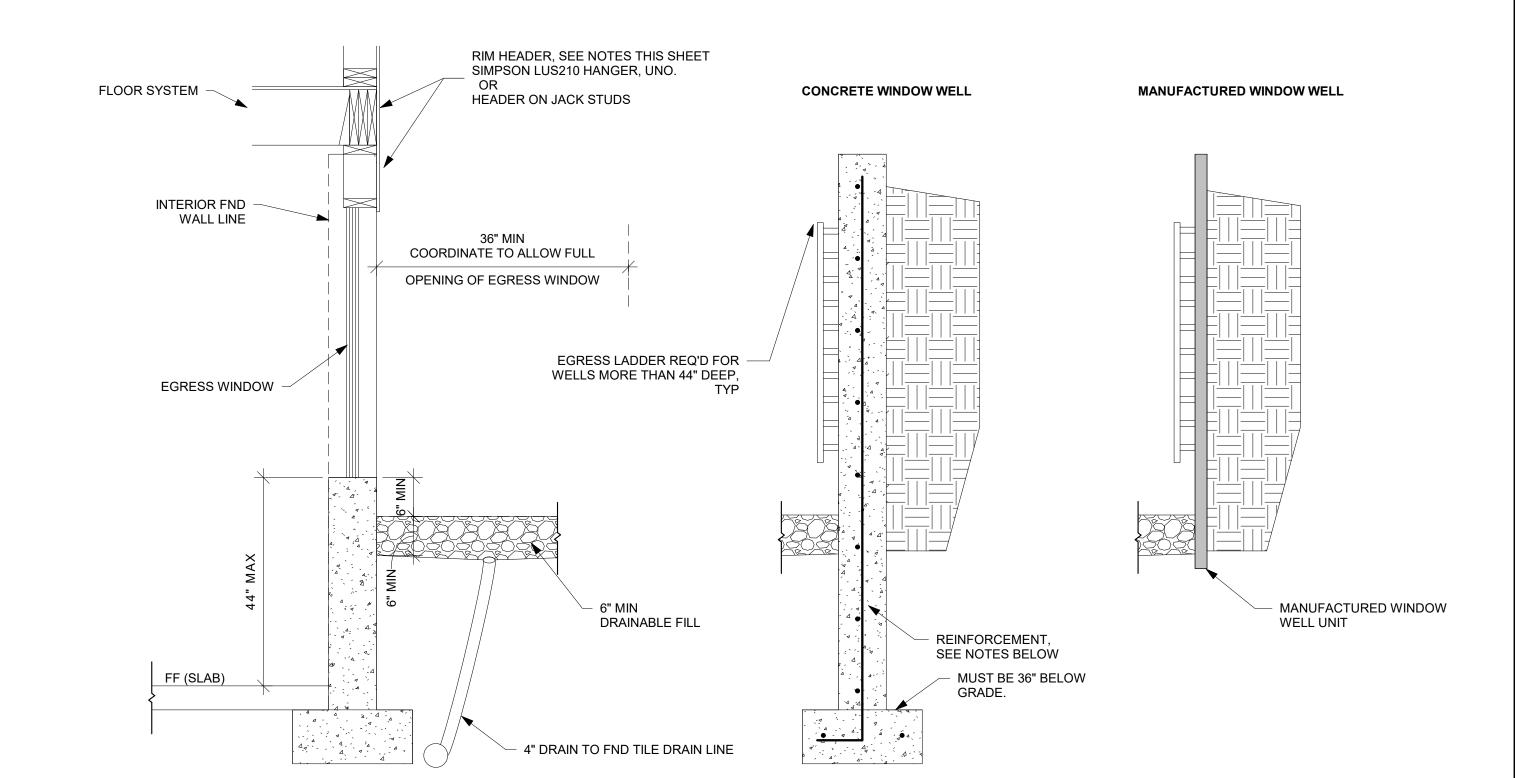
FASTENING SCHEDULE

S5<u>50</u>

REVISIONS

10/10/202390F93-CQNSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELO/#MENTISEBVICES
LEE'S SUMMIT, MISSOURI
05/31/2024 3:45:50





WINDOW WELL MUST MEET REQUIREMENT IN R310.2.6 OF THE IRC AND LOCALLY ADOPTED CODE CONCRETE WINDOW WELL INTALLED WITH NEW FOUNDATION POUR WINDOW WELL MONOLITHICALLY WITH ADJACENT FND WALL.

REINFORCEMENT MATCH ADJACENT WALL REINFORCEMENT, SEE PLANS

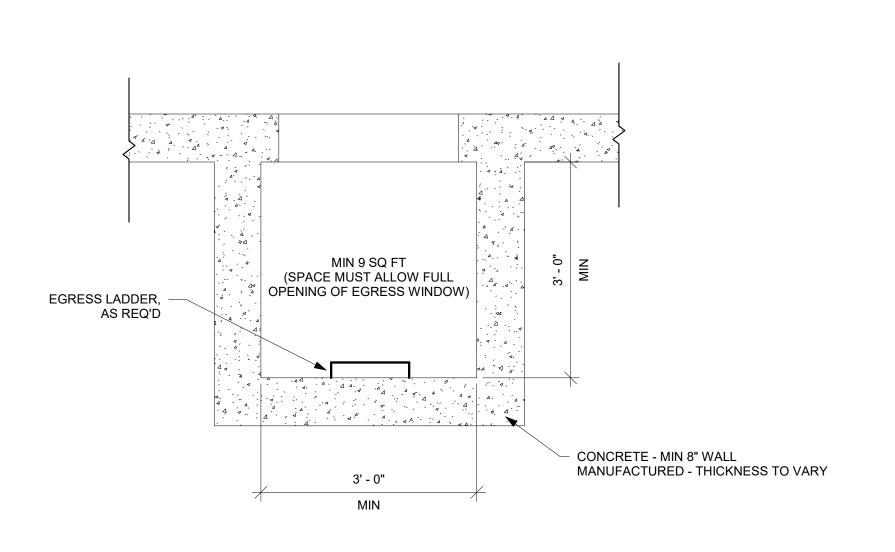
B. INSTALLED TO EXISTING FOUNDATION a. REINFORCEMENT

DRILL AND EXPOY HOR BAR INTO EX FND, MIN 6" EMBEDMENT INTO EX FND WALL. (2) #4 BAR CONT IN WALL FTG.

b. SEAL WHERE NEW CONCRETE IS POURED AGAINST EX FND WITH MASTIC STRIPS OR OTHER WATER STOP MATERIAL. MANUFACTURED WINDOW WELL

A. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS COORDINATE DEPTH OF WELL WITH WINDOW AND MANUFACTURER REQUIREMENTS.

SECTION



PLAN

EGRESS WINDOWS

NUMBER PE-2015016986

EVERSTEAD 3741 NE TROON DRIVE, SUITE 200

LEE'S SUMMIT, MO 64064

EVERSTEAD.COM (816)399-4901

#165

RIDGE

BUCKTHORN

∞

0

S560

SCALE

REVISIONS

05/31/2024 3:45:59

WINDOW EGRESS (NTS)

FF ELEV

VARIES (SEE TABLE)

SINGLE HUNG WINDOW

EGRESS WINDOWS MUST CONFORM TO R310 OF THE 2018 IRC

200 SERIES

400 SERIES

250 SERIES

150 SERIES

V-2500

V-4500

MIN NET CLEAR HEIGHT SHALL BE NOT LESS THAN 2 FT MIN NET CLEAR WIDTH SHALL BE NOT LESS THAN 20 INCH

ABOVE GRADE FLOOR NOT LESS THAN 5.7 SQ FT PER R310.2.1 AT OR BELOW GRADE NOT LESS THAN 5.0 SF FT PER 310.2.1

36X60

MIN CLEAR OPENING

MATERIAL, AND STYLE.

MANUFACTURER

ANDERSON

ANDERSON

JELD-WEN

JELD-WEN

PELLA

PELLA

1' - 8"

MIN CLEAR **CASEMENT WINDOW**

MINIMUM WINDOW SIZES SHOWN BELOW ARE SPECIFIC TO THE MANUFACTURER AND VINYL WINDOW MODEL NUMBER LISTED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WINDOW SIZES WITH THE SELECTED MANUFACTURER, WINDOW FRAMING

36X40

36X48

36X42

48X40

48X48

48X48

1' - 8"

SLIDER WINDOW

WINDOW WELL FOR EGRESS (NTS)