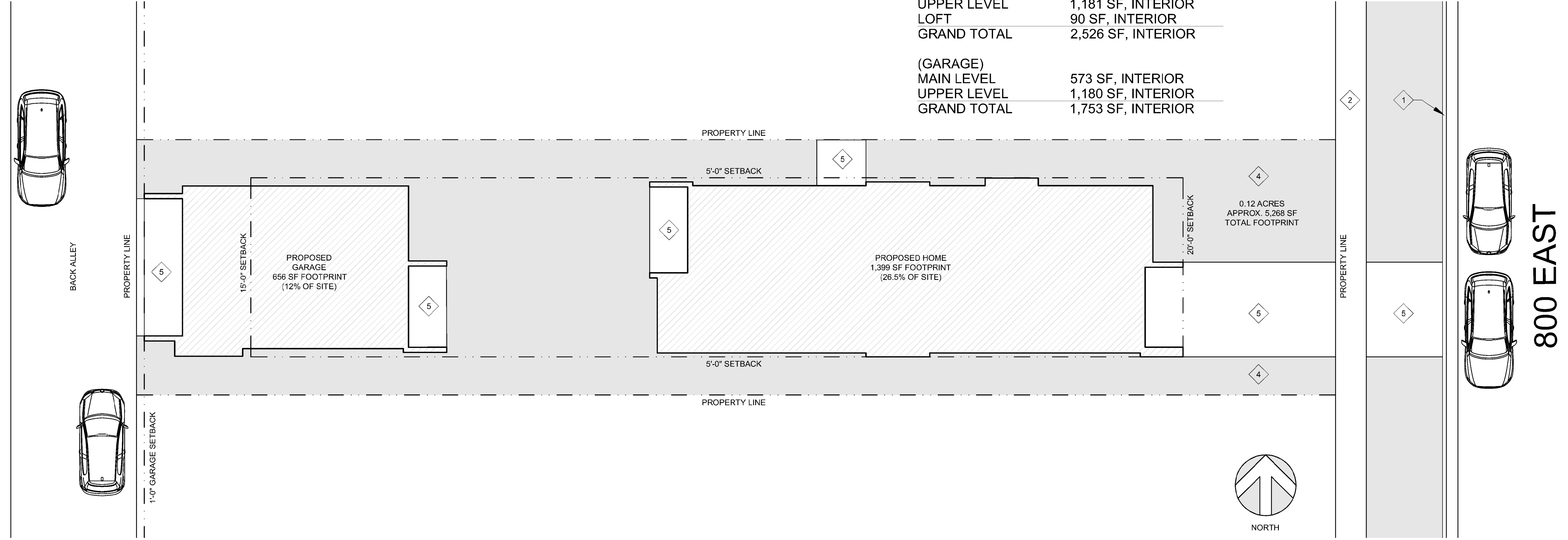


AREA CALCULATIONS

SITE AREA	0.12 ACRE / 5,268 SF
HOUSE FOOTPRINT	1,399 SF
GARAGE FOOTPRINT	656 SF
GRAND TOTAL	2,055 SF / 39% OF SITE AREA
(HOME)	
MAIN LEVEL	1,255 SF, INTERIOR
UPPER LEVEL	1,181 SF, INTERIOR
LOFT	90 SF, INTERIOR
GRAND TOTAL	2,526 SF, INTERIOR
(GARAGE)	
MAIN LEVEL	573 SF, INTERIOR
UPPER LEVEL	1,180 SF, INTERIOR
GRAND TOTAL	1,753 SF, INTERIOR

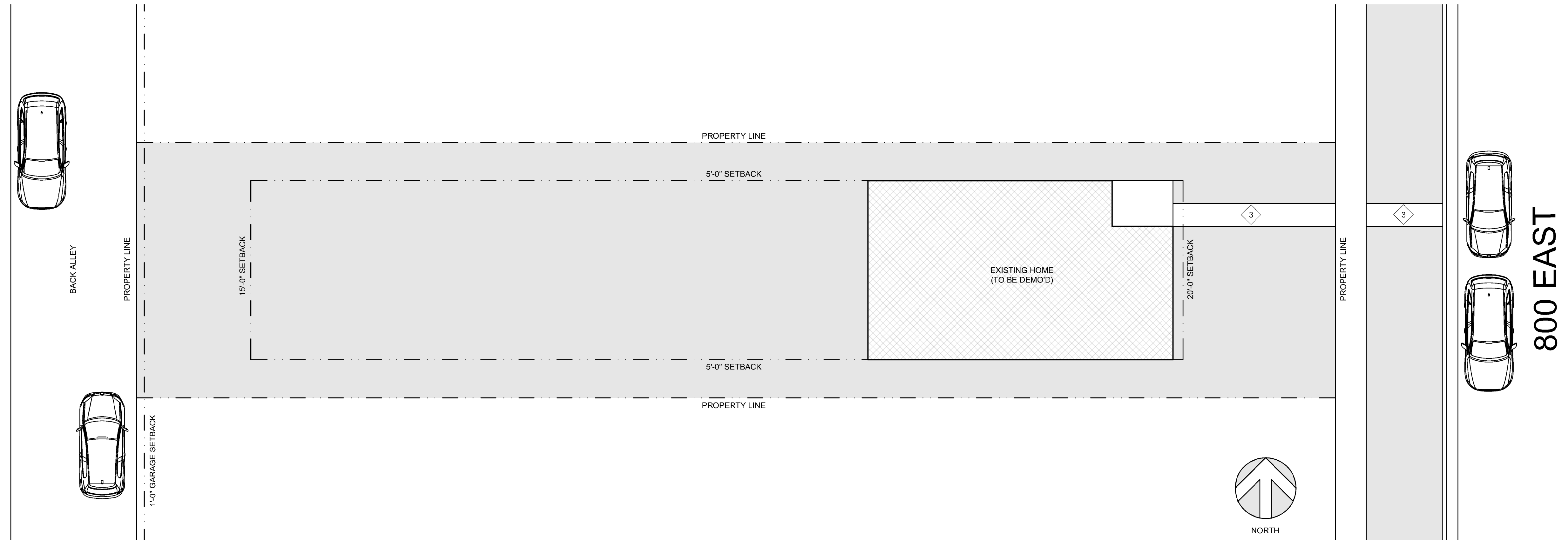
SITE PLAN KEYNOTES #

- EXISTING CURB + GUTTER
- EXISTING SIDEWALK
- EXISTING HARDSCAPE
- LANDSCAPING
- NEW HARDSCAPE



2 Proposed Site Plan

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



1 Existing Site Plan

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

SCOTT MOSES DESIGN  
801.529.7925 // KAYSVILLE, UTAH

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926  
926 SOUTH 800 EAST, SALT LAKE CITY 84105

No.	ISSUED	DESCRIPTION
1	12.13.2021	Design Development
2	02.02.2022	Design Development
3	02.25.2022	Permit Set

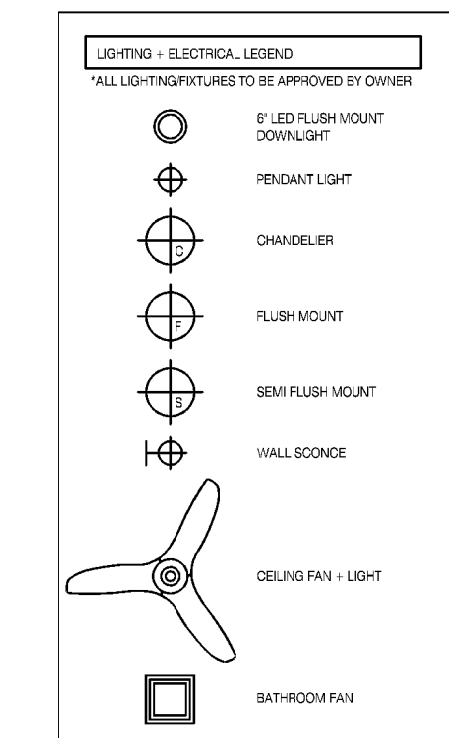
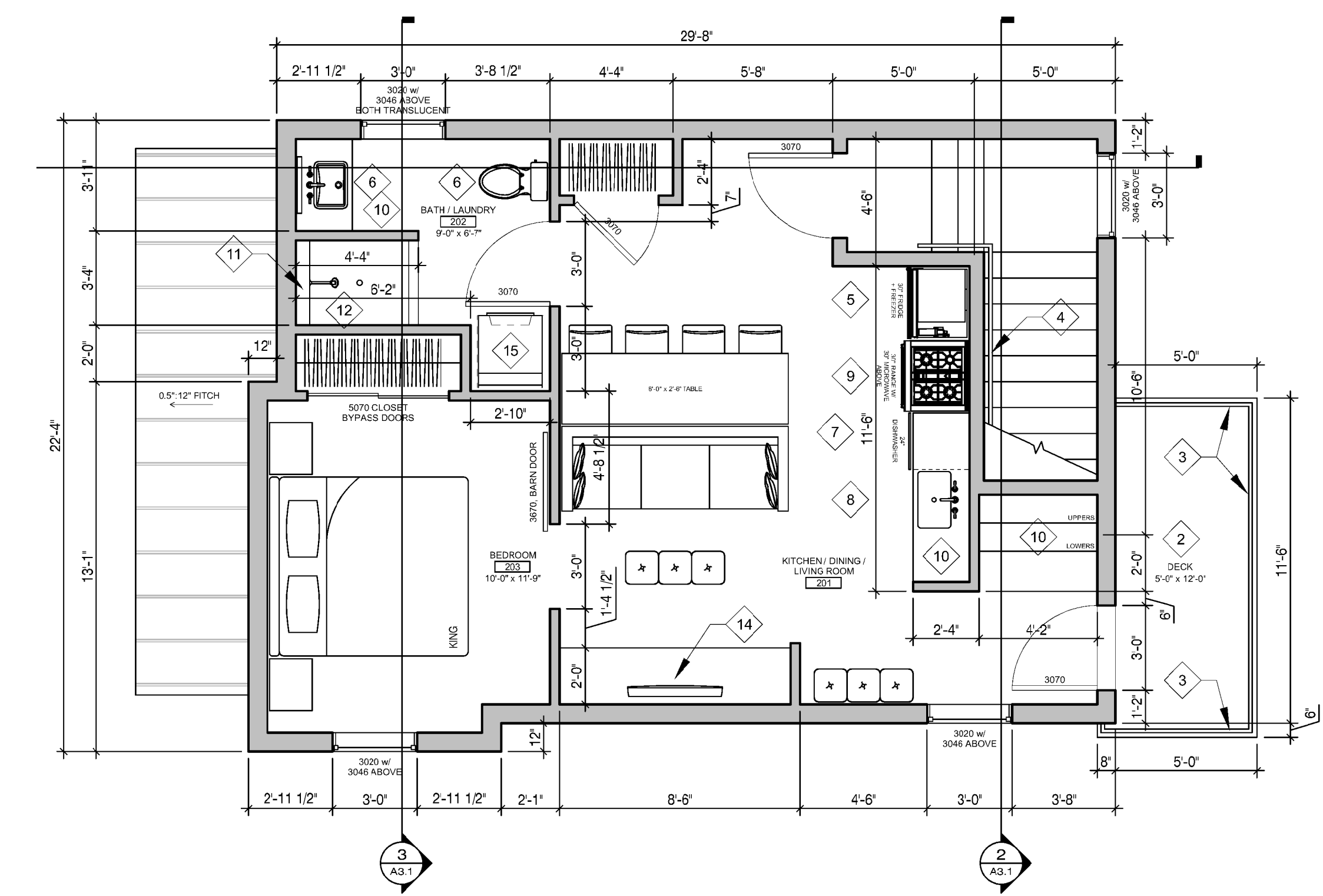
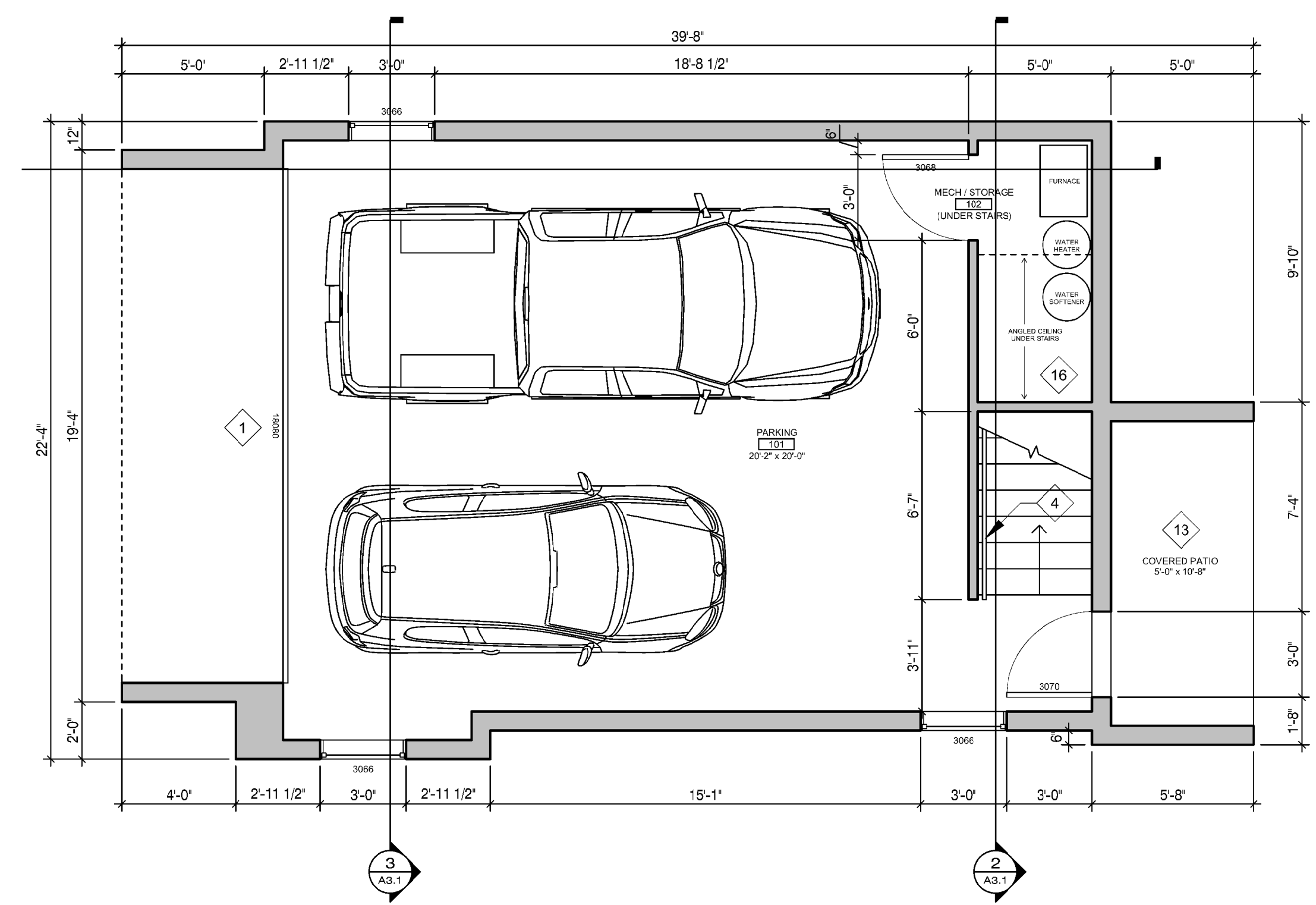
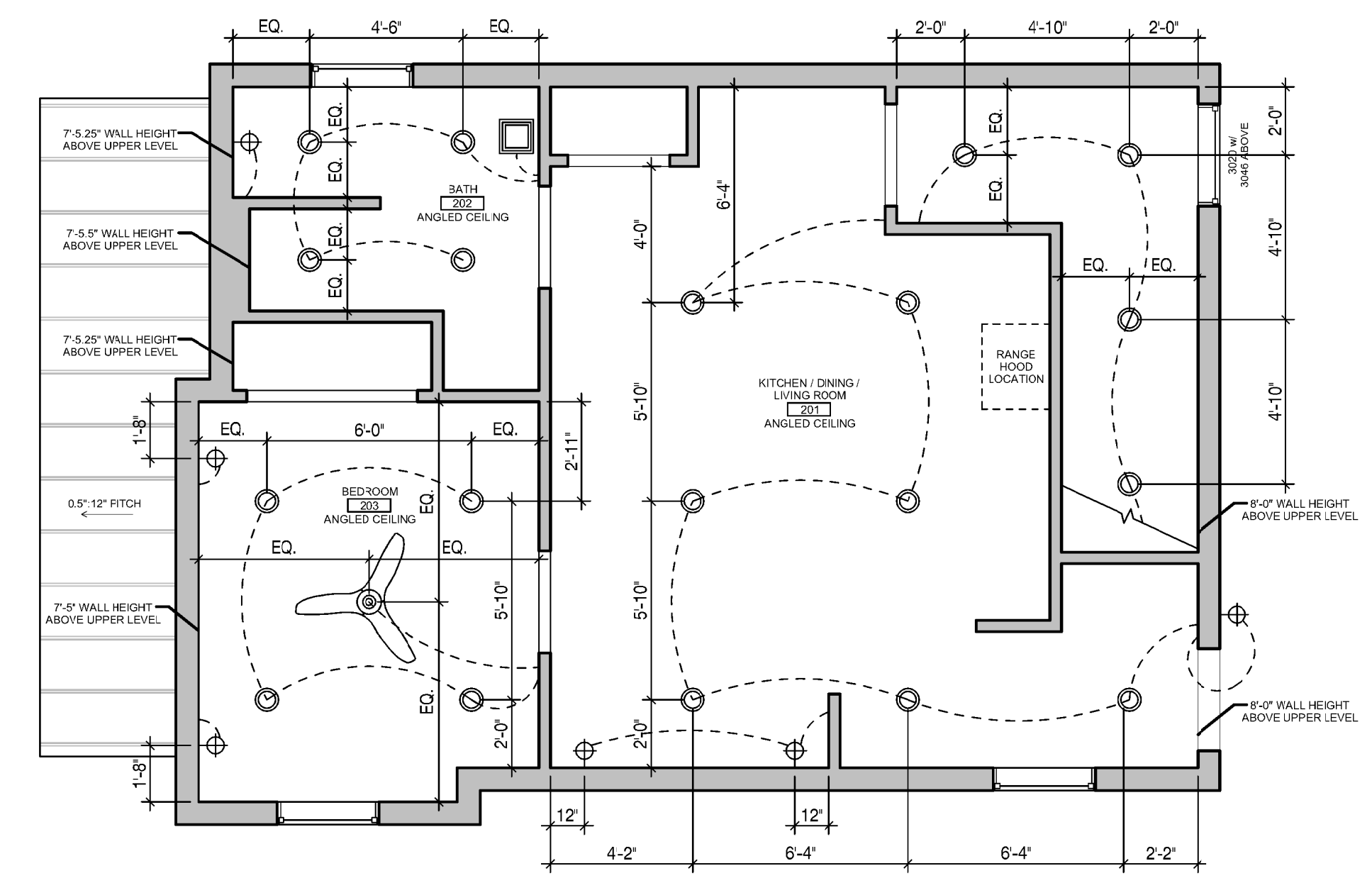
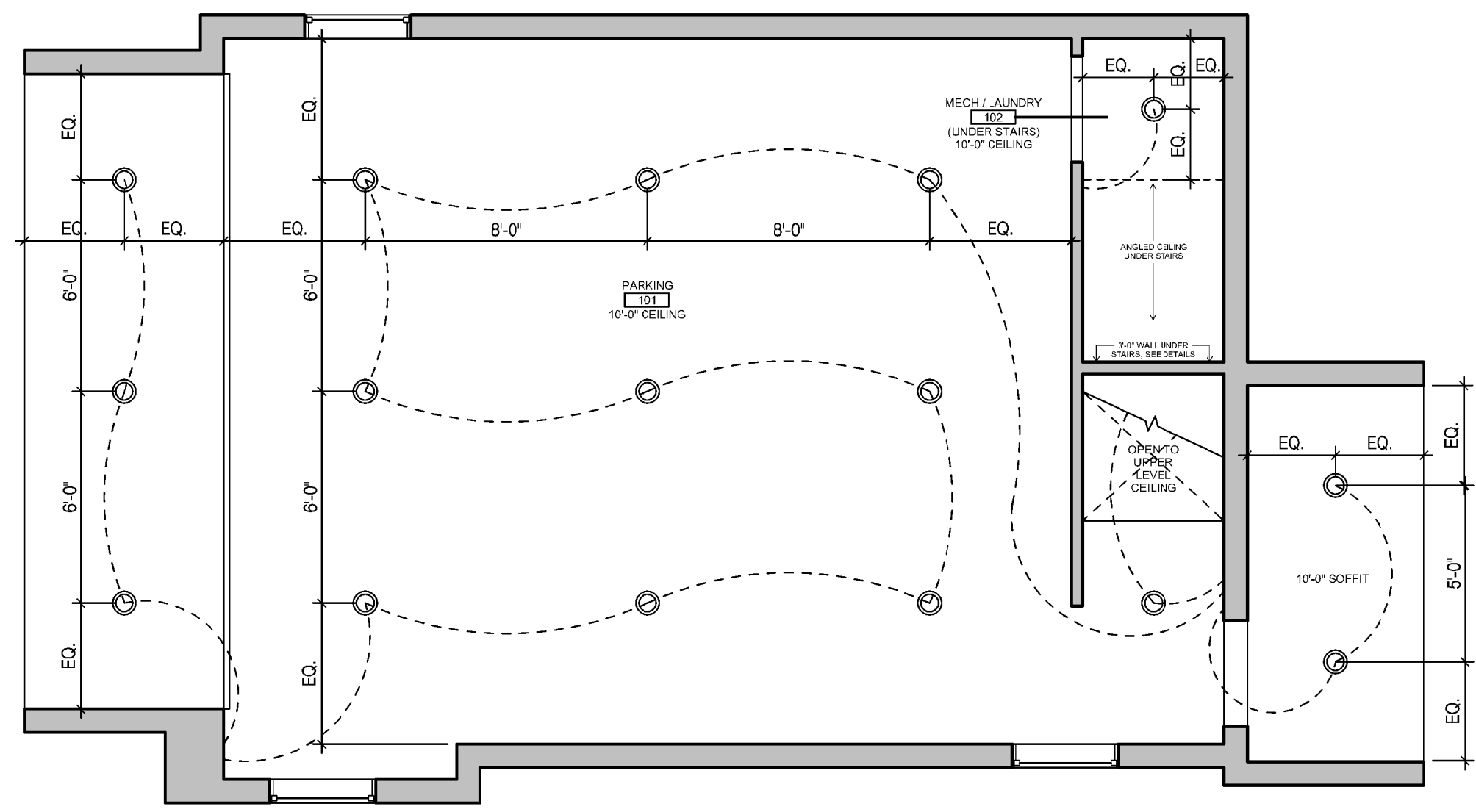
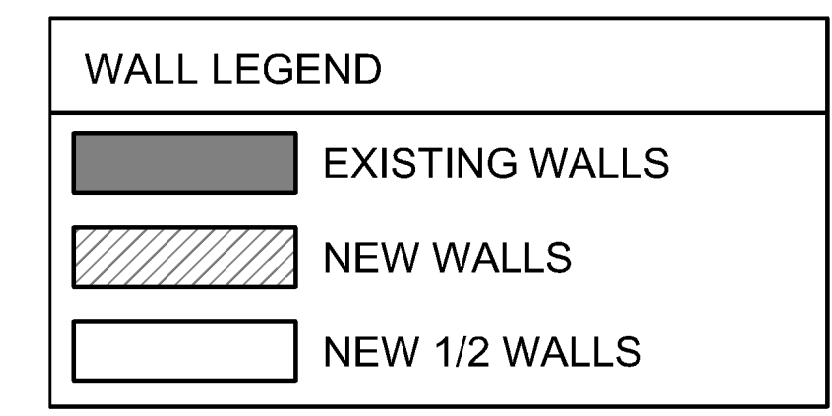
AS1.0  
SITE PLANS

No.	ISSUED	DESCRIPTION
1	12.13.2021	Design Development
2	02.02.2022	Design Development
3	02.25.2022	Permit Set

**A1.3**  
GARAGE / ADU  
PLANS

FLOOR PLAN KEYNOTES

- OVERHEAD GARAGE DOOR (TBD BY CLIENT)
- OUTDOOR DECK, PROVIDE ROLL ON OR SPRAY APPLIED WATERPROOFING OVER ENTIRE DECK UNDERNEATH FINISH SURFACE MATERIAL (OR APPROVAL EQUAL MEMBRANE WATERPROOFING), LAP WATERPROOFING OVER DECK EDGE FLASHING, FLASHING LAPS OVER TOP OF EXTERIOR FINISH MATERIAL AND VERTICALLY DOWN THE WALL BY 2" MIN, PROVIDE WATERPROOF SEAL AT DECK DOOR HEAD / JAMBS / SILL PER DOOR MANUFACTURER'S INSTRUCTIONS
- DECK RAILING SYSTEM (TBD BY CLIENT), SECURED TO THE DECK (SURFACE OR WALL FACE), ANY GAP BETWEEN THE RAILING AT THE HOUSE NOT TO EXCEED 4", SEE ELEVATIONS
- INTERIOR RAILING (TBD BY CLIENT), SEE DETAILS FOR TYP. STAIR DIMENSIONS
- REFRIGERATOR / FREEZER LOCATION, PROVIDE POWER AND WATER SUPPLY
- PLUMBING FIXTURE LOCATION, PROVIDE WATER SUPPLY AND DRAINAGE
- DISHWASHER LOCATION, PROVIDE POWER, WATER SUPPLY, AND DRAINAGE
- KITCHEN SINK LOCATION, PROVIDE WATER SUPPLY, DRAINAGE, AND FOOD PROCESSOR
- RANGE LOCATION, PROVIDE POWER (OR) GAS (TBD BY CLIENT)
- BUILT-IN CABINETS (AS DIRECTED BY OWNER)
- 6" DEEP RECESSED SHOWER SHELF, SEE DETAILS SHEET FOR DIMENSIONS (OR MATCH TILE COURSE AS DIRECTED BY CLIENT)
- SHOWER LOCATION, FIXTURES MOUNTED ABOVE RECESSED SHOWER SHELF, PROVIDE DRAIN AND SLOPED FLOOR, PROVIDE SHOWER SILL TRANSITION @ 2"-4" HEIGHT ABOVE BATH FLOOR (TBD BY CLIENT)
- STEP(S) FROM GRADE OR SLAB TO MAIN LEVEL, ASSUMING CONCRETE (OR APPROVED EQUAL DURABLE MATERIAL) SINGLE RISER (OR) EQUAL RISERS NOT TO EXCEED 7" HEIGHT
- ENTERTAINMENT LOCATION, PROVIDE ADEQUATE ELECTRICAL POWER, STUD AND/OR PLYWOOD BACKING IN WALL TO SUPPORT ANY WALL-MOUNTED TV'S, SHELVING, ETC REQUESTED BY OWNER
- LAUNDRY LOCATION, PROVIDE POWER (OR) GAS (TBD BY CLIENT), WATER SUPPLY, DRAINAGE, AND DRYER VENT TO ROOF ABOVE
- MECHANICAL ROOM HOUSING FURNACE, WATER HEATER, ETC AS DIRECTED BY CLIENT

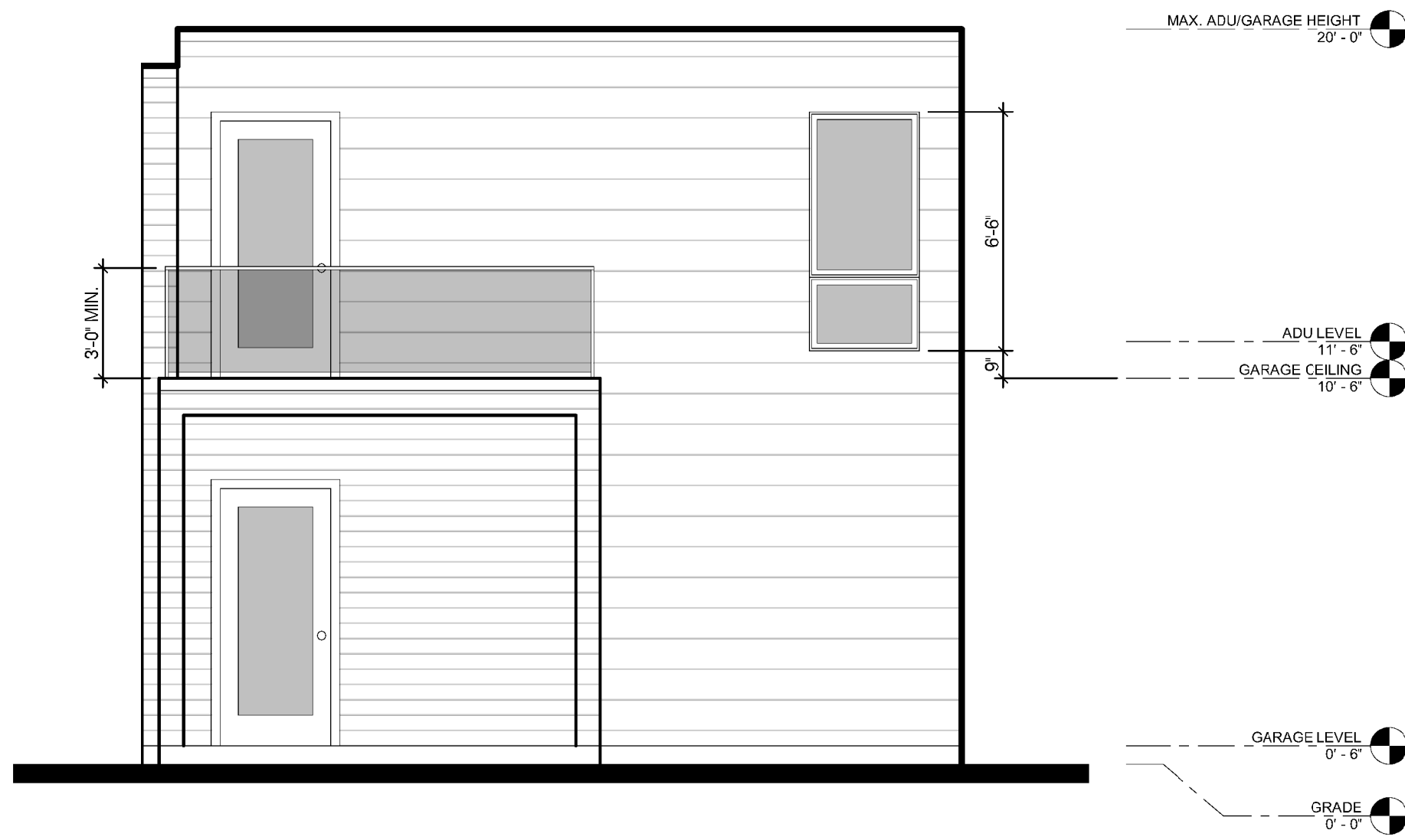


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EXTERIOR ELEVATION GENERAL NOTES

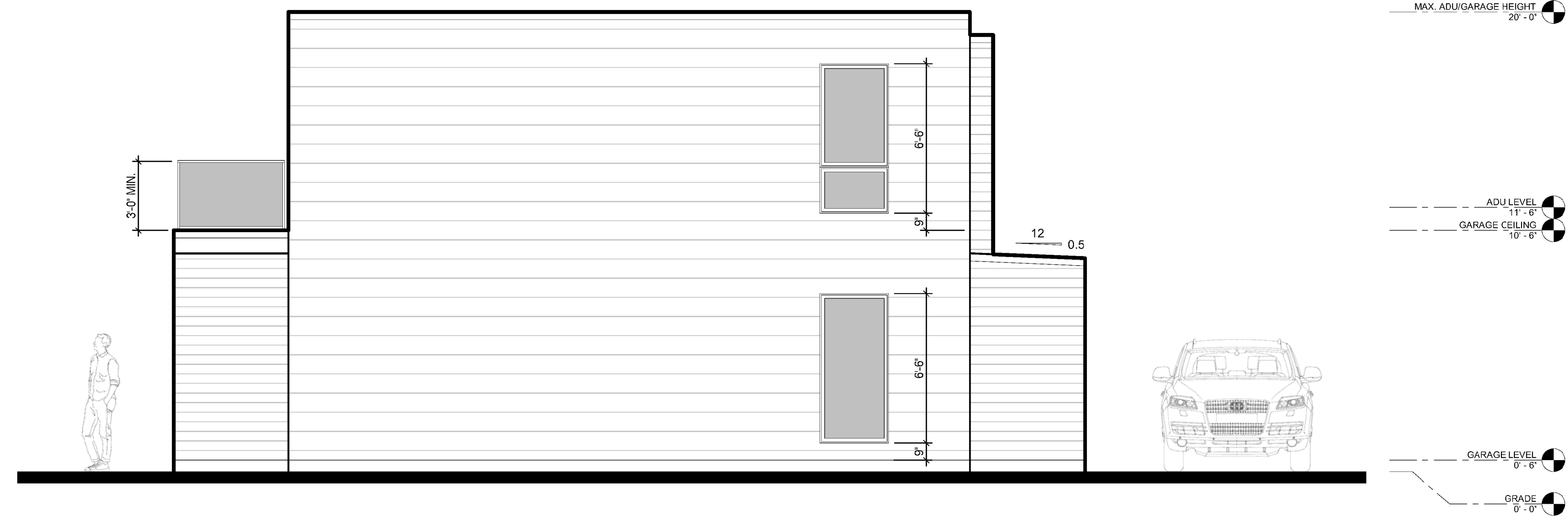
1. ARCHITECT'S "GRADE" AS SHOWN MAY VARY FROM ON SITE CONDITIONS. ANY LEVEL ABOVE GRADE TO REMAIN 6" ABOVE GRADE AT MINIMUM TO BE ACCESSED BY STAIR(S) OR RAMP
2. FINAL EXTERIOR FINISHES TBD BY OWNER. FINISHES SHOWN ON ELEVATIONS ARE MEANT TO REPRESENT ONE AESTHETIC OPTION AND PORTRAY MATERIAL SCALE ONLY

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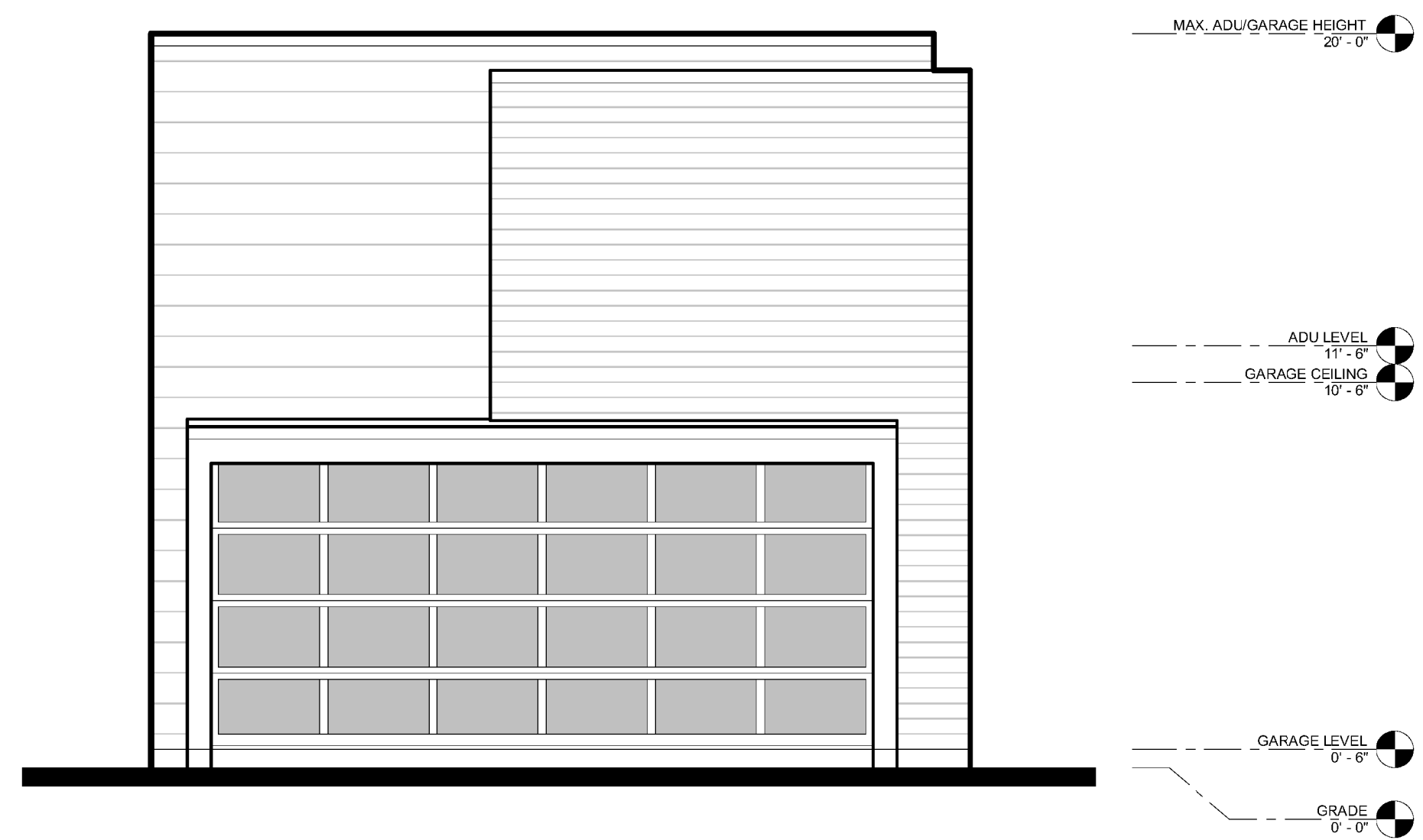
1 Garage Exterior Elevation - East

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



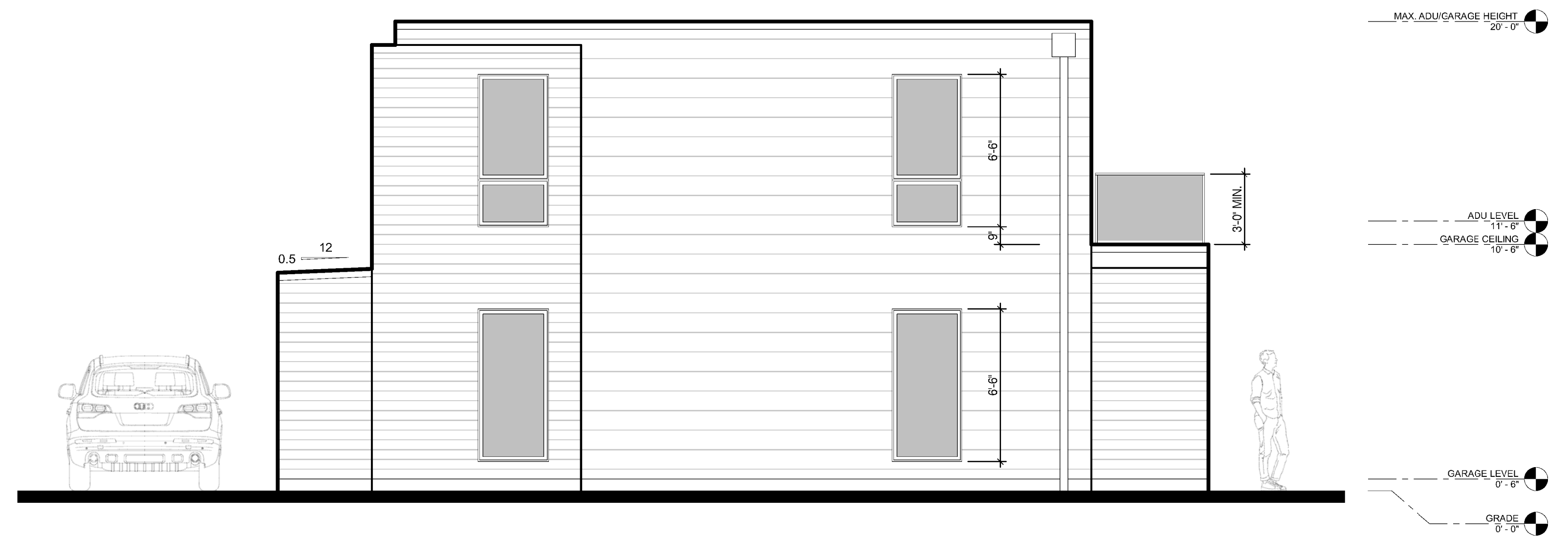
2 Garage Exterior Elevation - North

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



3 Garage Exterior Elevation - West

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



4 Garage Exterior Elevation - South

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

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**GENERAL NOTES**

- VISITS TO THE JOB SITE BY REPRESENTATIVES OF THE ENGINEER DO NOT SUBSTITUTE APPROVAL OF THE WORK PERFORMED BY THE CONTRACTOR OR HIS SUBCONTRACTORS AND ARE MERELY FOR THE PURPOSE OF OBSERVING THE WORK PERFORMED.
- CONTRACTOR SHALL NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN ALL CASES, UNLESS OTHERWISE DIRECTED, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN AND BE PERFORMED.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND ELEVATIONS, ETC., AT THE SITE AND SHALL COORDINATE WORK PERFORMED BY ALL TRADES. DO NOT SCALE DRAWINGS.
- SIZES, LOCATIONS, LOADS, AND ANCHORAGES OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO FABRICATION OR INSTALLATION OF SUPPORTING STRUCTURES.
- TEMPORARY BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY, OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE INSTALLED.
- DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOAD.
- CONTRACTOR AND ALL SUBCONTRACTORS SHALL PERFORM THEIR TRADES AND DUTIES IN A MANNER CONFORMING TO THE PROCEDURES AND REQUIREMENTS AS STATED IN THE CURRENTLY ADOPTED INTERNATIONAL BUILDING CODE, (OR LATEST ACCEPTED CODE ADOPTED BY THE LOCAL BUILDING OFFICIALS).
- ANY SPECIAL INSPECTIONS REQUIRED BY THE BUILDING OFFICIAL OR THE BUILDING CODE ARE THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.

**FOOTING, FOUNDATION, AND SLAB ON GRADE NOTES**

- ALL FOOTINGS SIZES ARE BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THOSE USED FOR DESIGN OF FOOTINGS AS OUTLINED IN WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING.
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL OR ENGINEERED GRANULAR FILL COMPACTED TO 95% OF MAX. DENSITY, BASED ON ASTM D 1557 METHOD OF COMPACTION. FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX IN. IN DEPTH AFTER COMPACTION AND SHALL EXTEND DOWN TO IN-SITU SOILS. FILL SHALL BE COMPACTED UNDER ALL CONCRETE WORK ON THE SITE.
- NO FOOTINGS SHALL BE PLACED IN WATER, SNOW, FROZEN GROUND, OR UNSTABLE SOILS.
- ALL EXCAVATIONS ADJACENT TO AND BELOW FOOTING ELEVATION FOR OTHER TRADES SHALL BE ACCOMPLISHED PRIOR TO POURING ANY FOOTINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LATERALLY SUPPORTING ALL RETAINING TYPE FOUNDATION WALLS WHILE COMPACTION BEHIND WALLS AND UNTIL ALL SUPPORTING MEMBERS HAVE BEEN PLACED (SUCH AS FLOOR SLABS). ALL OPEN EXCAVATIONS AND TRENCHES SHALL BE SUPPORTED AND BARRICADED BY CONTRACTOR TO CONFORM WITH OSHA SAFETY STANDARDS.
- ALL REINFORCEMENTS SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE.
- PROVIDE DOWELS IN FOOTING AND FOUNDATIONS TO MATCH ALL VERTICAL BARS IN WALLS AND COLUMNS ABOVE, UNLESS NOTED OTHERWISE.
- PROVIDE CONTROL JOINTS (SEE TYPICAL DETAILS) IN SLABS AT A MAX. OF 15 FT. O.C. EACH WAY AND AS SHOWN ON PLANS. POUR SLABS BETWEEN CONTROL JOINTS, SO THAT ADJACENT POURS ARE STAGGERED AT LEAST TWO DAYS APART. SHORTLY AFTER SLABS ARE POURED, MAKE SAW-CUT JOINTS AT A MAX. OF 15 FT. O.C. BETWEEN FOUR CONTROL JOINTS.

**CONCRETE NOTES**

- ALL COLUMNS AND WALLS AND ALL EXTERIOR FLATWORK, CURBS, GUTTERS, ETC., SHALL BE NORMAL WEIGHT CONCRETE WITH A COMPRESSIVE STRENGTH EQUAL TO AT LEAST 4000 LBS. PER SQUARE INCH WITHIN 28 DAYS AFTER POURING. THE WATER/CEMENT RATIO SHALL BE NO GREATER THAN 0.44 AND SLUMP SHALL BE 4" +/- 1. MINIMUM CEMENT CONTENT SHALL BE 564 LBS. PER CUBIC YARD.
- ALL FOOTINGS, FOUNDATIONS, INTERIOR SLABS ON GRADE, CONCRETE OVER METAL DECK, AND TOPPING SLABS OVER PRECAST CONCRETE SLABS SHALL BE NORMAL WEIGHT CONCRETE WITH A COMPRESSIVE STRENGTH EQUAL TO AT LEAST 3000 LBS. PER SQUARE INCH WITHIN 28 DAYS AFTER POURING. THE WATER/CEMENT RATIO SHALL BE NO GREATER THAN 0.50 AND SLUMP SHALL BE 3" OR LESS. MINIMUM CEMENT CONTENT SHALL BE 470 LBS. PER CUBIC YARD.
- UNLESS OTHERWISE NOTED, ALL CONSTRUCTION JOINTS SHALL BE KEPT WITH A KEY 1/2" DEEP, A LENGTH 2" LESS THAN THE MEMBER, AND A WIDTH 1/2 OF THE MEMBER. REINFORCING SHALL BE CONTINUOUS THRU JOINT.
- ALL STEEL REINFORCEMENT SHALL BE DEFORMED TYPE BARS AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS A.S.T.M. A615 GRADE 60. BEAM AND COLUMN TIE REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATION A.S.T.M. A615 GRADE 60.
- ALL SPLICES IN CONTINUOUS CONCRETE REINFORCING BARS SHALL LAP 40 BAR DIAMETERS. ALL SUCH SPLICES SHALL BE MADE IN A REGION OF COMPRESSION UNLESS OTHERWISE SHOWN.
- ALL REINFORCEMENT BARS SHALL BE SECURELY ANCHORED AND SHALL BE SPACED FROM THE FORMS (UNLESS SHOWN OTHERWISE) AS FOLLOWS: 2" IN BEAMS AND COLUMNS, 1" IN PROTECTED WALLS AND SUPPORTED SLABS, 2" IN UNPROTECTED WALLS, AND 3" ABOVE BOTTOM AND SIDES OF FOOTINGS.
- ALL OPENINGS IN CONCRETE WALLS SHALL BE REINFORCED WITH 2 # BARS EXTENDING 20" MIN BEYOND THE EDGE OF THE OPENING AT EACH FACE OF OPENING.
- ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.
- BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO INSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL SHORING AND FORMWORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENT, CLIPS OR GROUNDS, REQUIRED TO BE ENCASED IN CONCRETE AND FLOOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND SHALL HAVE A MINIMUM SIDE LAP OF 8 IN.
- ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE CURRENT VERSION OF ACI-318.
- FOR STEPS IN FOUNDATION GREATER THAN 2 FEET, WRAP CORNER W2- #4 BARS EXTENDING 18" EACH DIRECTION.

**LUMBER NOTES**

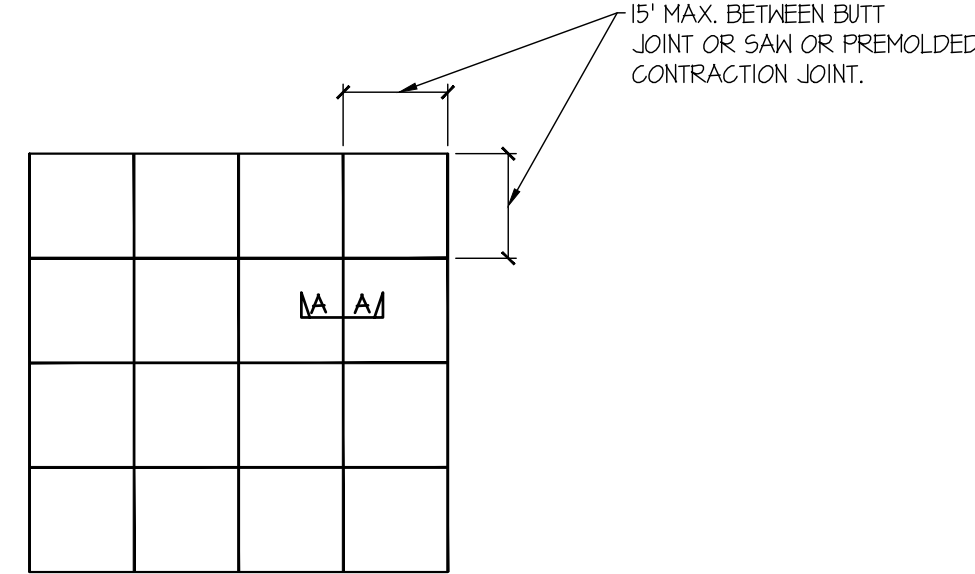
- WOOD MATERIALS
  - FRAMING LUMBER
    - STUDS BEARING WALLS DOUG-FIR LARCH #2 BTR
    - STUDS NON BEARING WALLS DOUG-FIR LARCH STUD GRADE BTR
    - JOISTS DOUG-FIR LARCH #2 BTR
    - HEADERS DOUG-FIR LARCH #2 BTR
    - POSTS DOUG-FIR LARCH #1 BTR
    - SILL PLATES IN CONTACT WITH CONCRETE DOUG-FIR LARCH #2 (PRESS. TREAT)
  - ENGINEERED LUMBER
    - GLU-LAM BEAMS 24F-V4 DOUG-FIR
    - CANTILEVERED GLU-LAM BEAMS 24F-V8 DOUG-FIR
    - LAMINATED VENEER LUMBER (LVL) 14E
    - PRE-FAB JOISTS AS PER MANUFACTURER
  - SHEATHING
    - WOOD SHEATHING SHALL BE UNSANDED FLYWOOD OR ORIENTED STRAND BOARD (OSB) AND SHALL BE INTERIOR GRADE WITH EXTERIOR GLUE AND HAVE THE MINIMUM FOLLOWING SPAN RATING AND THICKNESS, UNLESS NOTED OTHERWISE:
 

24/0	WALLS (7/16 INCH THICK)
48/24	FLOORS (23/32 INCH THICK)
32/16	ROOF (5/32 INCH THICK)

- LOAD-BEARING DIMENSION LUMBER FOR JOISTS, BEAMS AND GIRDERS SHALL BE IDENTIFIED BY A GRADE MARK OF A LUMBER GRADING OR INSPECTION AGENCY THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC P5 20.
- WHERE NOT NOTED OTHERWISE, CONNECT ALL WOOD TO CONCRETE, WOOD TO STEEL AND WOOD TO WOOD (EXCEPT STUD TO PLATE) WITH SIMPSON CONNECTORS OR APPROVED EQUAL.
- ALL WOOD IN DIRECT CONTACT WITH CONCRETE, MASONRY OR SOIL SHALL BE PRESURE TREATED OR BE REDWOOD
- ALL MULTIPLE PLATES AND LEDGERS SHALL BE NAILED TOGETHER WITH 16d NAILS AT 8" ON CENTER.
- STUD WALLS SHALL RUN CONTINUOUS BETWEEN POINTS OF HORIZONTAL SUPPORT. PROVIDE BRACING WHERE OTHERWISE.
- ALL WALLS SHALL HAVE A MINIMUM OF TWO TOP PLATES. SPLICES IN TOP PLATES SHALL BE STAGGERED A MINIMUM OF FOUR FEET FROM THE NEAREST ADJOINING SPLICE IN THE TOP PLATE.
- ALL HEADERS OVER DOORS AND WINDOWS ARE (2) 2" X 10" UNLESS NOTED OTHERWISE.
- ALL LEDGER BOLTS SHALL HAVE PLATE WASHERS WITH A MINIMUM DIA. EQUAL TO 3 TIMES THE BOLT DIA. UNLESS SHOWN OTHERWISE IN DETAILS.
- BLOCK JOISTS SOLID AT ALL BEARING POINTS.
- BLOCK ALL HORIZONTAL EDGES OF FLYWOOD WALL SHEATHING WITH 2" NOMINAL BLOCKING. BLOCK EDGES OF FLYWOOD ON FLOORS AND ROOF AS DIRECTED ON DRAWINGS.
- SOLID 2" NOMINAL BLOCKING (SHAPED AND FULL DEPTH) SHALL BE PROVIDED AT ENDS OR POINTS OF SUPPORT OF ALL WOOD JOISTS. ATTACH BLOCKING TO THE WOOD TOP PLATE WITH ONE SIMPSON 'A35' CONNECTOR PER EACH PIECE OF BLOCKING WITH (2) 8d x 1-1/2" NAILS.
- JOISTS SHALL HAVE BRIDGING, BLOCKING AND NOTCHED BEARING PLATES AS RECOMMENDED BY THE MANUFACTURER WITH A MINIMUM OF ONE ROW OF BRACING AT MID SPAN. MANUFACTURER SHALL SUPPLY AND CONTRACTOR SHALL INSTALL. PROVIDE AT 8'-0" O.C. MAXIMUM BETWEEN JOIST END SUPPORTS.
- MINIMUM NAILING FOR GENERAL FRAMING AND CARPENTRY SHALL BE PER THE IRC/IBC OR PER THE "MINIMUM NAILING SCHEDULE" IN THESE DRAWINGS.
- FASTENERS SUCH AS STAPLES, CAN ONLY BE SUBSTITUTED FOR NAILS AT A RATE EQUAL TO LOAD VALUES PROVIDED BY I.C.B.O. APPROVAL. SEE EQUIVALENT STAPLE SCHEDULE IN THESE DRAWINGS.
- ALL FASTENERS (I.E. NAILS, SCREWS, ANCHOR BOLTS, ETC.) WHICH ARE TO BE INSTALLED IN PRESERVATIVE TREATED WOOD (I.E. SILL PLATES) SHALL MEET THE REQUIREMENTS OF IBC 2304.10.1.
- USE SIMPSON HANGERS (OR EQUIVALENT) WHERE APPLICABLE

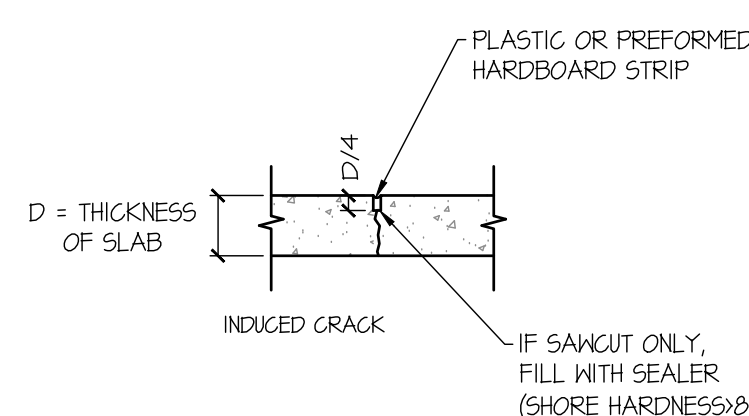
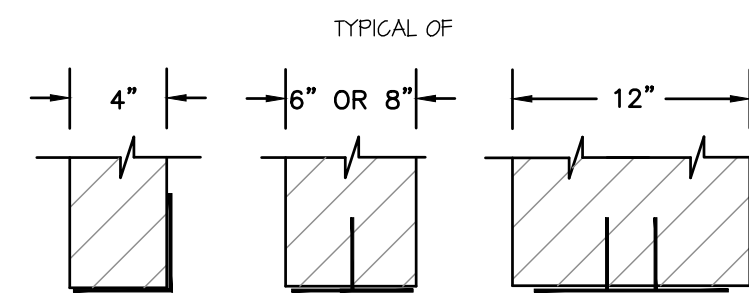
**SLAB ON GRADE CONTROL JOINTS**

NOT TO SCALE

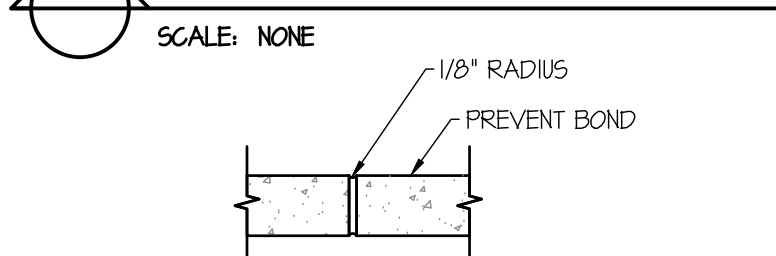


**LINTEL:**

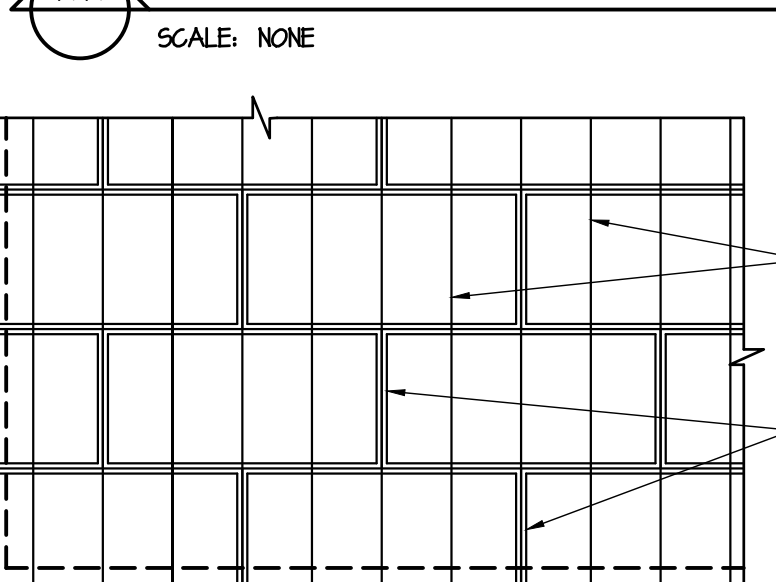
LINTELS CARRY MASONRY ONLY, WHERE FLOORS, ROOFS OR CONCENTRATED LOADS OCCUR. FURTHER ANALYSIS IS NECESSARY. PROVIDE 1" OF BEARING EACH END FOR EACH FOOT OF SPAN. MINIMUM BEARING 6" EACH SIDE ON OPENING USE THIS SCHEDULE UNLESS NOTED OTHERWISE.



**SAWED OR PREMOLDED CONTRACTION JOINT**



**BUTT JOINT CONSTRUCTION JOINT**



**HORIZONTAL SHEATHING LAYOUT**

NOT TO SCALE

**MINIMUM NAILING SCHEDULE**

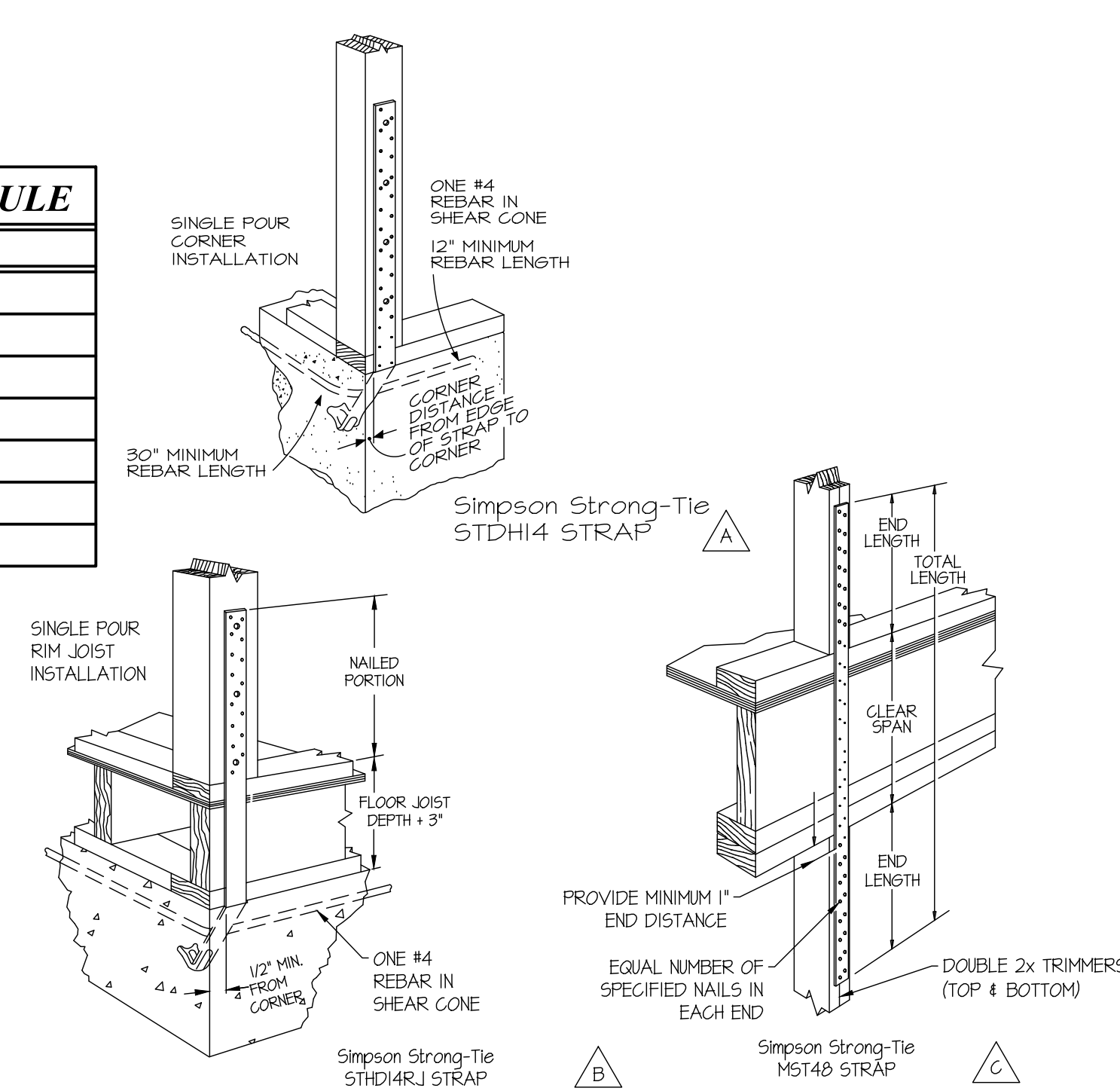
"CONNECTION"	"NAILING"
1. JOIST TO SILL GIRDER, TOENAIL	3-8d
2. BRIDGINGS TO JOIST, TOENAIL EA. END	2-8d
3. SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	8d AT 16" OC
4. TOP PLATE TO STUD, END NAIL	2-8d
5. STUD TO SOLE PLATE	4-8d TOENAIL, 2-6d END NAIL
6. DOUBLE STUDS, FACE NAIL	16d AT 24" OC
7. DOUBLE TOP PLATES, FACE NAIL	16d AT 16" OC
8. TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	2-16d
9. CONTINUOUS HEADERS TWO PIECES, ALONG EA. EDGE	16d AT 16" OC
10. CEILING JOISTS TO PLATE, TOENAIL	3-8d
11. CONTINUOUS HEADERS TO STUD, TOENAIL	4-8d
12. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-16d
13. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	3-16d
14. RAFTER TO PLATE, TOENAIL	3-8d
15. BUILT-UP CORNER STUDS	16d AT 24" OC
16. BUILT-UP GIRDER AND BEAMS	20d AT 24" OC T/B
STAGGERED	2-20d AT ENDS & SPLICES

**STEEL LINTEL SCHEDULE**

CLEAR OPENING	SIZE ANGLE
UP TO 5'-0"	3 1/2" x 3" x 1/4"
5'-1" TO 7'-0"	3 1/2" x 3 1/2" x 1/4"
7'-1" TO 9'-0"	5" x 3" x 1/4"
9'-1" TO 10'-0"	5" x 3" x 5/16"
10'-1" TO 11'-0"	5" x 3" x 3/8"
11'-1" TO 12'-0"	6" x 3" x 3/8"
12'-1" AND OVER	ANALYSIS REQD.

NOTE: ALL LINTELS SHALL BE LONG LEG UP.

STUDS	SPACING	MAX. HEIGHT
2x4	16" O.C.	10'-0"
2x4	12" O.C.	11'-6"
2x6	16" O.C.	16'-0"
2x6	12" O.C.	18'-0"
5 1/2" LVL	16" O.C.	20'-0"



**TABLE OF EQUIVALENT FASTENERS STAPLES, NAILS AND T-NAILS (VALID FOR LATERAL LOAD ONLY)**

COMMON NAIL SPACING	GAUGE	EQUIV. SPACING OF APPR. FASTENERS					
		STAPLES			NAILS/T-NAILS		
		16	15	14	13	12	11
6d AT	4"	3 1/2"	4"	5"	4"	5"	
	6"	5"	6"	7"	6"	7 1/2"	
	8"	6 1/2"	6"	9 1/2"	8"	10"	
	10"	8 1/2"	10"	12"	10"	12"	
8d AT	4"	3 1/2"	4"	5"	4"	5"	
	6"	4"	5"	6"	5"	6"	
	8"	5 1/2"	6 1/2"	8"	6 1/2"	8"	
	10"	6 1/2"	8"	10"	8"	10"	
10d AT	4"	3 1/2"	4"	5"	4"	5"	
	6"	4 1/2"	5 1/2"	6 1/2"	5 1/2"	7"	
	8"	5 1/2"	7"	8"	6 1/2"	8 1/2"	
	10"	6 1/2"	8"	9 1/2"	8 1/2"	10"	

NOTE: ALL FASTENERS (I.E. NAILS, SCREWS, ANCHOR BOLTS, ETC.) WHICH ARE TO BE INSTALLED IN PRESERVATIVE TREATED WOOD (I.E. SILL PLATES) SHALL MEET THE REQUIREMENTS OF IBC 2304.10.5

**HOLDDOWN & STRAP SCHEDULE**

MARK	DESCRIPTION
△	NO HOLDDOWN OR STRAP REQUIRED
△	SIMPSON STDH4 HOLDDOWN
△	SIMPSON STDH4RJ HOLDDOWN
△	SIMPSON MST4B STRAP

- ANCHOR ALL HOLDDOWNS THROUGH A MINIMUM OF (2) 2 x STUDS.
- THE FOUNDATION CONTRACTOR SHALL PLACE ALL HOLDDOWN STRAPS TO LINE UP WITH A CORNER, WINDOW OR DOOR JAMB STUD IN THE FRAMED WALL DIRECTLY ABOVE.

**DESIGN CRITERIA:**

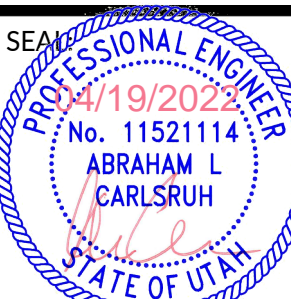
GOVERNING CODE	2018 IBC	I = 1.00
SEISMIC MAPPED ACCELERATION	180	R = 6.5
		Sds = 1.146g
BASIC WIND SPEED	105 MPH	EXPOSURE C
		I = 1.00
ROOF DEAD LOAD	15 PSF	
SNOW LOAD	21 PSF	
FLOOR DEAD LOAD	15 PSF	
LIVE LOAD	40 PSF	
SOIL BEARING PRESSURE	1500 PSF (ASSUMED)	

**\* STANDARD OCCUPANCY \***

**SHEARWALL SCHEDULE**

MARK	SHEATHING	NAILING REQUIREMENTS		ANCHOR BOLTS		SILL PLATE	NOTES
		EDGE	FIELD	DIAMETER	SPACING		
SH-1	7/16" OSB ONE SIDE	8d AT 6" O.C.	8d AT 12" O.C.	1/2"	48" O.C.		1, 2, 3, 4, 5
SH-2	7/16" OSB ONE SIDE	8d AT 4" O.C.	8d AT 12" O.C.	1/2"	32" O.C.	2 x	1, 2, 3, 4, 5
SH-3	7/16" OSB ONE SIDE	8d AT 3" O.C.	8d AT 12" O.C.	1/2"	24" O.C.		1, 2, 3, 4, 5, 6
SH-4	7/16" OSB ONE SIDE	8d AT 2" O.C.	8d AT 12" O.C.	1/2"	16" O.C.	2 x	1, 2, 3, 4, 5, 6, 7
SH-5	7/16" OSB BOTH SIDES	8d AT 3" O.C.	8d AT 12" O.C.	1/2"	8" O.C.	2 x	1, 2, 3, 4, 5, 6, 7

- NOTES:
- APPLY 7/16" APA OSB OVER DOUGLAS FIR OR SOUTHERN PINE FRAMING SPACED AT 16" O.C.
  - NAIL OR STAPLE SHEATHING ALONG INTERMEDIATE STUDS AT 12" O.C.
  - BLOCK ALL PANEL EDGES
  - PROVIDE 3" x 3" x 1/4" PLATE WASHERS ON ANCHOR BOLTS (TYPICAL).
  - ALL SHEATHING SHALL EXTEND CONTINUOUS FROM SILL PLATE TO ROOF OR FLOOR SHEATHING.
  - FRAMING AT ADJOINING PANELS SHALL BE 3" NOMINAL OR (2) 2x NAILED TOGETHER WITH (2) ROWS OF 16d COMMON NAILS AT 12" O.C.
  - OFFSET PANEL JOINTS TO AVOID SPLITTING THE STUDS.
  - INSTALL SIMPSON LCE4 CONNECTORS ON EACH CORNER OF WINDOWS NOTED AS LCE4



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SALT LAKE CITY, UT

DATE: 04/18/2022  
PROJECT: 22-118  
DRAWN BY: WM

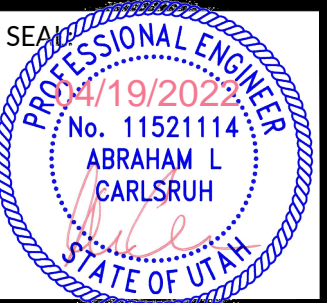
REVISIONS:

NO.	DESCRIPTION

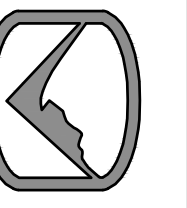
STRUCTURAL NOTES

SHEET NUMBER:

**S001**



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FOOTING / FOUNDATION PLAN

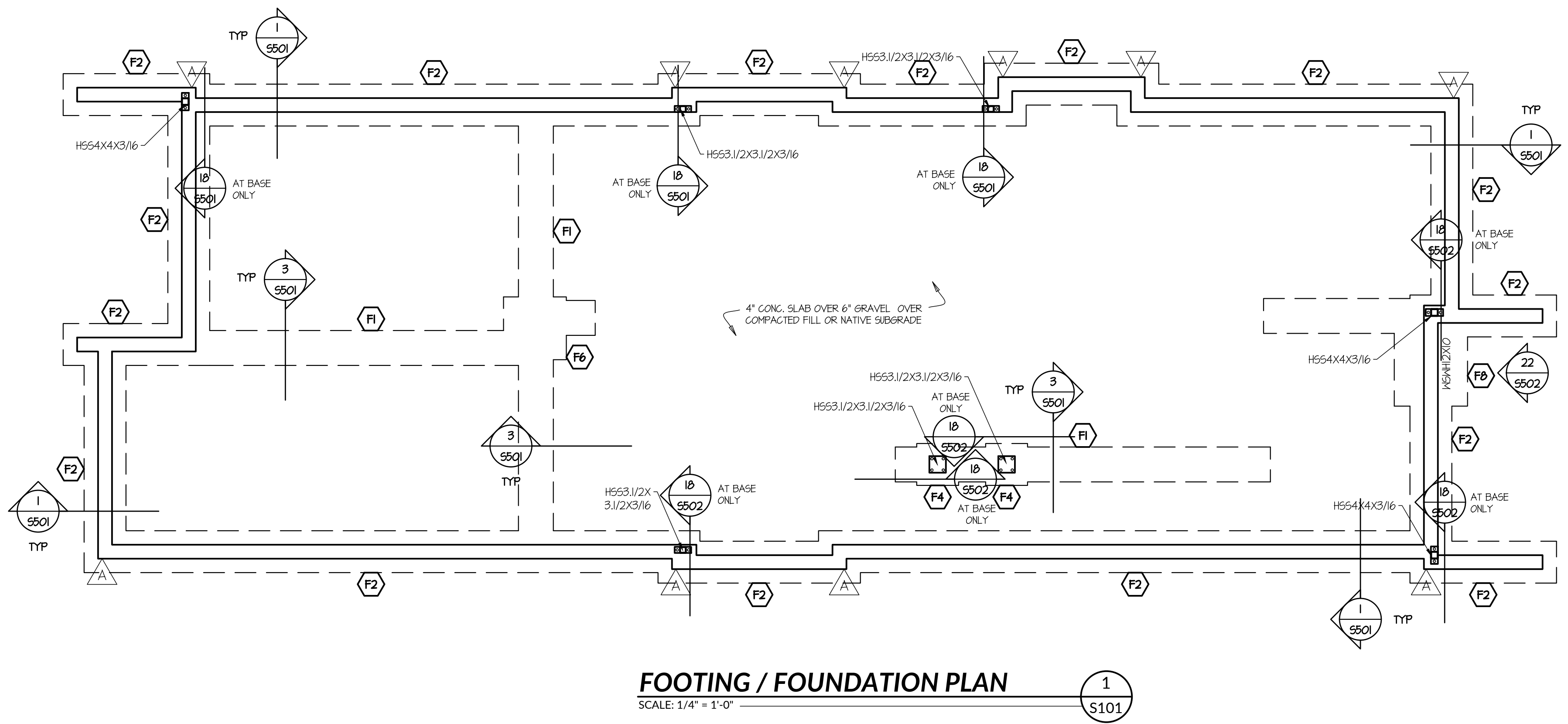
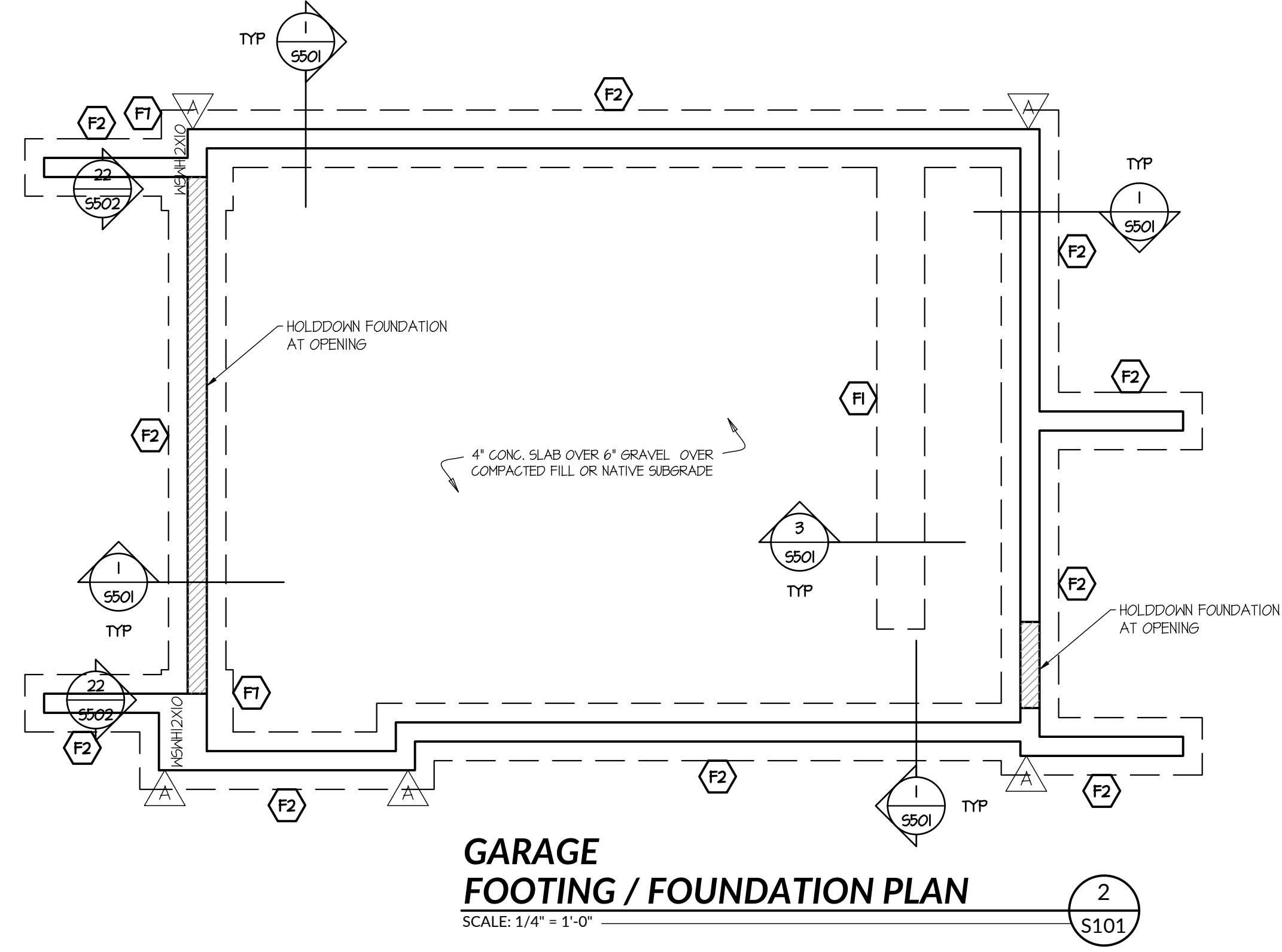
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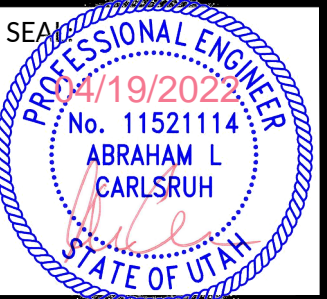
CONCRETE WALL SCHEDULE						
WALL HEIGHT	TOP EDGE SUPPORT	MINIMUM THICKNESS	REINFORCING		STEEL AT OPENINGS	REMARKS
			VERTICAL	HORIZONTAL		
2'-0"	FLOOR OR ROOF DIAPHRAGM	8"	#4 DOBELS AT 24" O.G.	2- #4 BARS	ABOVE: 2- #4 BARS	
4'-0"		8"	#4 AT 24" O.G.	4- #4 BARS	EACH SIDE: 1- #4 BAR	
6'-0"		8"	#4 AT 24" O.G.	5- #4 BARS	BELOW: 1- #4 BAR	
8'-0"		8"	#4 AT 24" O.G.	6- #4 BARS		
10'-0"		8"	#5 AT 12" O.G.	8- #4 BARS		

NOTES:  
1. FOR WALLS WITH ONE MAT OF STEEL, VERTICAL STEEL TO BE PLACED IN CENTER OF WALL AND EXTEND TO WITHIN THREE INCHES OF THE TOP OF THE WALL. DOBELS OF #4 BARS TO MATCH VERTICAL STEEL PLACEMENT SHALL BE PROVIDED IN THE FOOTING EXTENDING 24" INTO THE FOUNDATION WALL.  
2. ONE HORIZONTAL BAR SHALL BE LOCATED IN THE TOP 4" ONE BAR IN THE BOTTOM 4" AND THE OTHER BARS EQUALLY SPACED.  
3. CORNER REINFORCING SHALL BE PROVIDED 5D AS TO LAP 24".  
4. BARS SHALL BE PLACED WITHIN 2" OF OPENINGS AND EXTEND 24" BEYOND THE EDGE OF THE OPENING. VERTICAL BARS MAY TERMINATE 3" FROM THE TOP OF THE CONCRETE.  
5. PLACE ANCHOR BOLTS PER SHEARWALL SCHEDULE (1/2" # 32" O.C. MINIMUM) IN TOP OF ALL WALLS TO RECEIVE SILL PLATES. CAST ANCHOR BOLTS A MINIMUM OF 1" INTO CONCRETE. USE 3/8"x1/4" WASHERS ON ALL ANCHOR BOLTS. EACH WALL SEGMENT MUST HAVE 2 ANCHOR BOLTS MINIMUM.  
6. LINTEL DEPTH SHALL BE 2" FOR EACH FOOT OF OPENING WIDTH, MIN 6".

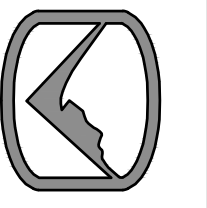
FOOTING SCHEDULE												
MARK	WIDTH	LENGTH	THICK	CROSSWISE REINFORCING				LENGTHWISE REINFORCING				REMARKS
				NO.	SIZE	LENGTH	SPAC.	NO.	SIZE	LENGTH	SPAC.	
F1	1'-8"	CONT	10"	--	NONE	REQD	--	2	#4	CONT	EVEN	
F2	2'-0"	CONT	10"	--	NONE	REQD	--	2	#4	CONT	EVEN	
F3	3'-0"	CONT	12"	--	NONE	REQD	--	3	#5	CONT	EVEN	
F4	2'-0"	2'-0"	10"	2	#4	1'-6"	EVEN	2	#4	1'-6"	EVEN	
F5	2'-6"	2'-6"	10"	3	#4	2'-0"	EVEN	3	#4	2'-0"	EVEN	
F6	3'-0"	3'-0"	10"	3	#4	2'-6"	EVEN	3	#4	2'-6"	EVEN	
F7	3'-6"	2'-6"	16"	4	#5	3'-0"	EVEN	3	#5	2'-0"	EVEN	TOP AND BOTTOM
F8	5'-0"	3'-6"	20"	1	#5	4'-6"	EVEN	5	#5	3'-0"	EVEN	TOP AND BOTTOM

NOTES:  
1. PLACE ALL FOOTING REINFORCING 3" FROM BOTTOM OF FOOTING WITH 3" CLEAR ON SIDES UNLESS NOTED OTHERWISE.  
2. STEP FOOTING PER 2/5501 AS REQ'D BY GRADE TO MAINTAIN MIN. FROST DEPTH.





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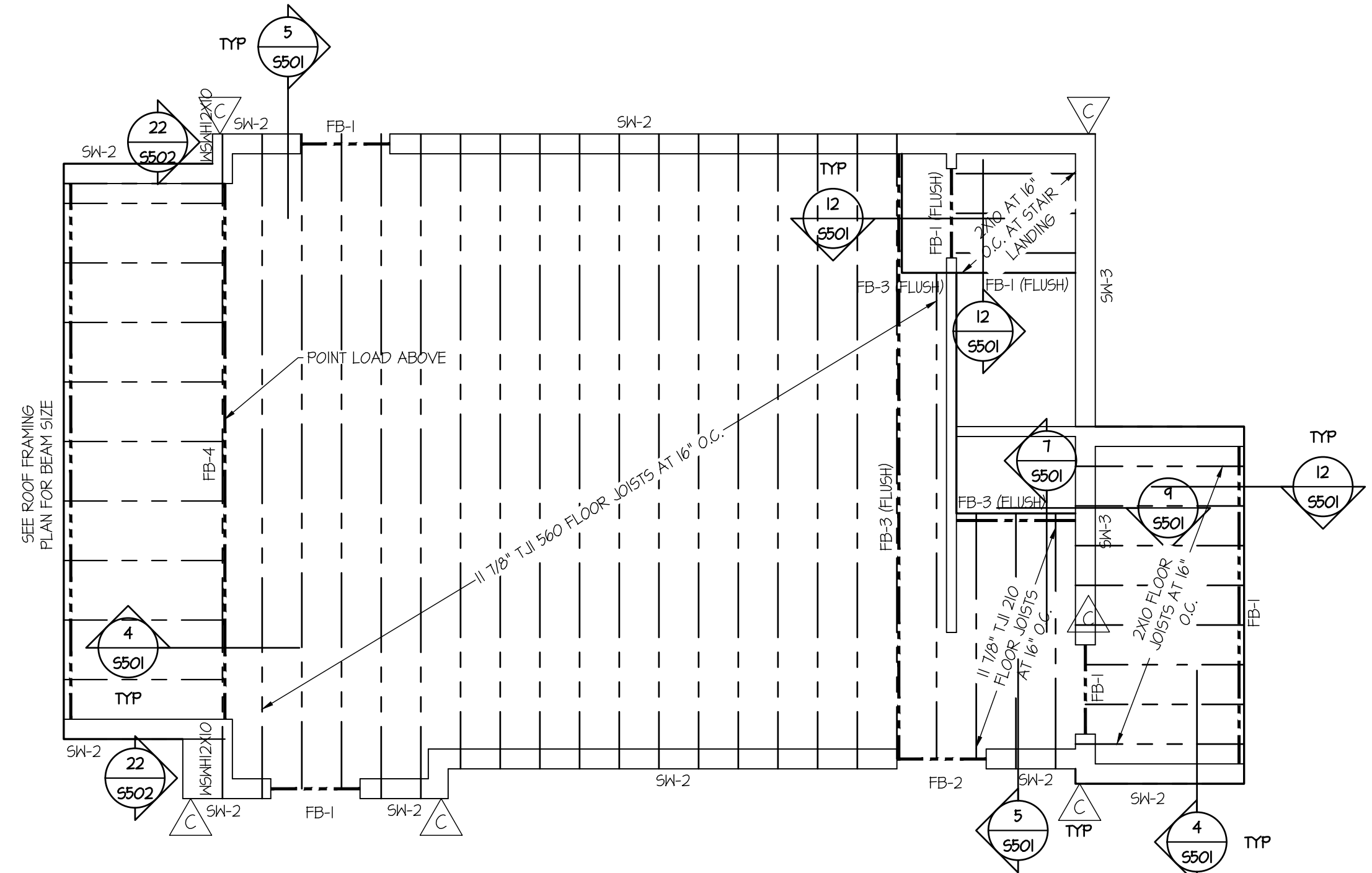

MAIN FLOOR FRAMING PLAN

SHEET NUMBER:

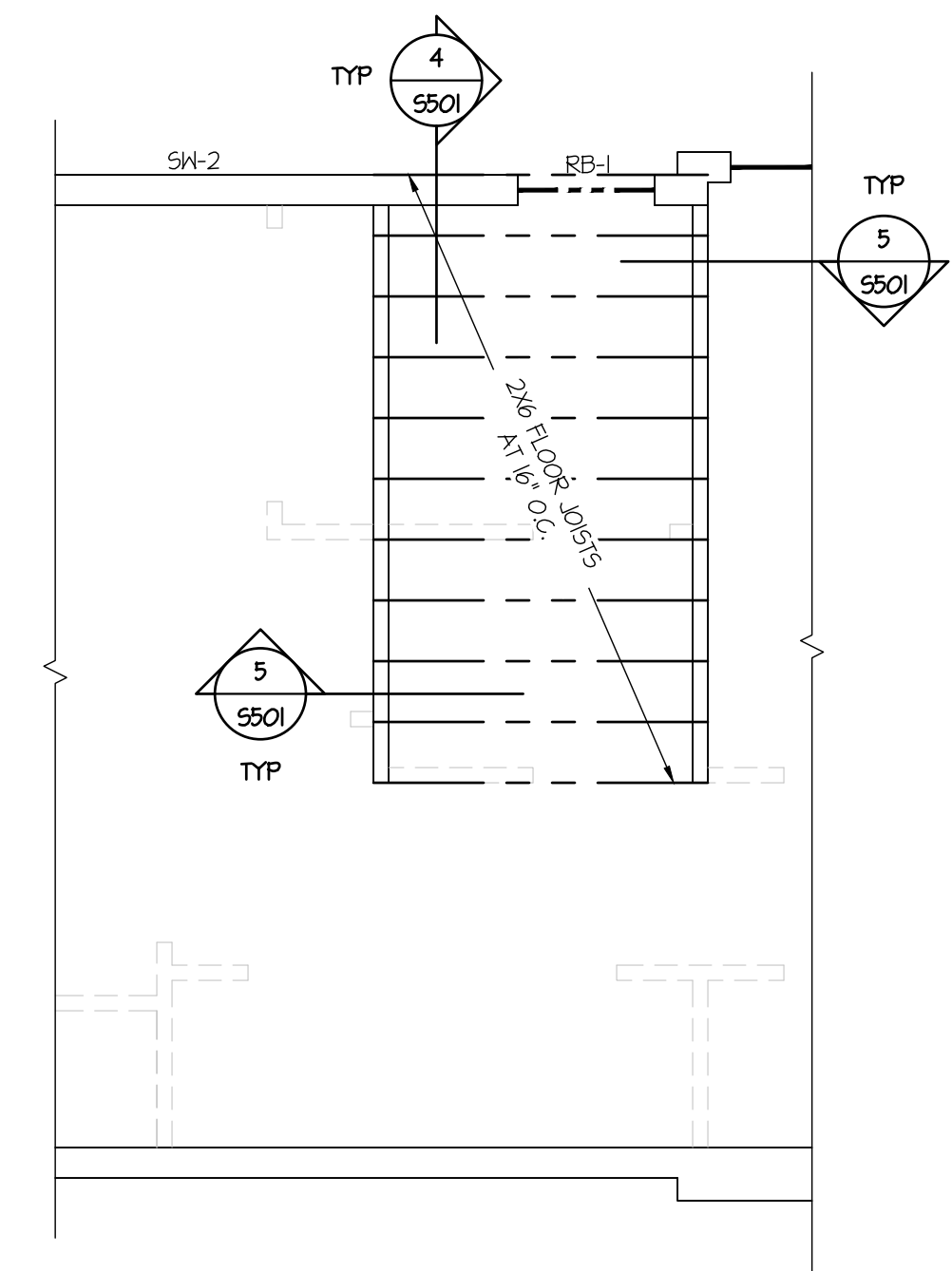
**S111**

**FLOOR FRAMING NOTES**

- USE DOUGLAS FIR-LARCH #2 AND BETTER FOR ALL SAWN LUMBER BEAMS & STRUCTURAL COLUMNS
- USE 1/4E (MIN) LVL BEAMS.
- ALL HEADERS OVER DOORS AND WINDOWS ARE (2) 2" X 10" UNO.
- CONNECT 4 PLY AND GREATER LVL BEAMS WITH (2) ROWS 1/2" THRU BOLTS AT 12" O.C. (SEE MANUFACTURERS SPECIFICATIONS)
- CARRY ALL COLUMN LOADS DOWN TO FOOTING OR FOUNDATION WALL.
- PROVIDE SOLID BLOCKING OR SQUASH BLOCKS IN JOIST SPACE AT ALL COLUMN LOCATIONS
- BLOCK JOISTS SOLID AT ALL BEARING POINTS
- ALL NOTES PERTAINING TO APPLIED LOADS ARE BASED ON ALLOWABLE STRESS DESIGN (ASD).
- FLOOR SHEATHING NOTES
  - FLOOR SHEATHING SHALL BE 3/4" T&G WAFFERBOARD GLUED & NAILED WITH 10d NAILS AT 6" OC AT ALL PANEL ENDS SUPPORTED EDGES AND ALL BLOCKING; 10d AT 12" OC ALONG INTERMEDIATE FRAMING MEMBERS. GLUE WITH GLUE CONFORMING TO AFG-01 ACCORDING TO APA SPECIFICATIONS.
- WOOD FLOOR FRAMING
  - STRUCTURAL CAPACITIES AND DESIGN PROVISIONS FOR PREFABRICATED WOOD I-JOISTS SHALL BE ESTABLISHED AND MONITORED IN ACCORDANCE WITH ASTM D 5055.
  - THE ENDS OF EACH JOIST, BEAM OR GIRDER SHALL HAVE NOT LESS THAN 15" OF BEARING ON WOOD OR METAL, AND NOT LESS THAN 3" ON MASONRY OR CONCRETE EXCEPT WHERE SUPPORTED ON A 1" X 4" RIBBON STRIP AND NAILED TO THE ADJACENT STUD OR BY THE USE OF APPROVED JOIST HANGERS.
  - JOIST FRAMING FROM OPPOSITE SIDES OVER A BEARING SUPPORT SHALL LAP A MINIMUM OF 3' AND SHALL BE NAILED TOGETHER WITH A MINIMUM OF THREE 10d FACE NAILS. A WOOD OR METAL SPLICE WITH STRENGTH EQUAL TO OR GREATER THAN THAT PROVIDED BY THE NAILED LAP IS PERMITTED.
  - SEE FLOOR FRAMING PLANS FOR SIZE, GRADE AND SPACING OF FLOOR JOISTS.
  - PROVIDE 1 1/4" X JOIST DEPTH TIMBERSTRAND RIM JOIST (OR EQUAL) AROUND THE ENTIRE PERIMETER OF FLOOR JOISTS (UNLESS NOTED OR DETAILED OTHERWISE)
- SHEARWALL NOTES
  - ALL EXTERIOR WALLS SHALL BE SHEATHED AND NAILED WITH 7/8" APA RATED OSB SHEATHING OR PER THE SHEARWALL SCHEDULE.
  - SHEATHING SHALL EXTEND CONTINUOUS FROM SILL PLATE TO TOP PLATE OF UPPER WALL AND BE NAILED PER SHEARWALL SCHEDULE.
  - NAILS SHALL BE PLACED NOT LESS THAN 1/2" FROM EDGE OF PANEL AND DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING.
  - ALL EXTERIOR WALLS ARE TO BE NAILED AS SHOWN UNLESS NOTED OTHERWISE.
  - AT LEAST (2) OF THE GARAGE RETURNS MUST BE SHEARWALLS. MINIMUM GARAGE RETURN SHEAR WALL LENGTH IS 2'-0".
  - ALL ANCHORS ARE SIMPSON STRONG-TIE OR EQUIVALENT.
  - INSTALL HOLDDOWNS AND STRAPS PER MANUFACTURERS SPECIFICATIONS.
  - ALL HOLDDOWNS AND STRAPS MUST BE CONNECTED TO AT LEAST (2) FULL-LENGTH STUDS.



**GARAGE FLOOR FRAMING PLAN** 2  
SCALE: 1/4" = 1'-0"  
S111



**UPPER FLOOR LOFT FRAMING** 3  
SCALE: 1/4" = 1'-0"  
S111

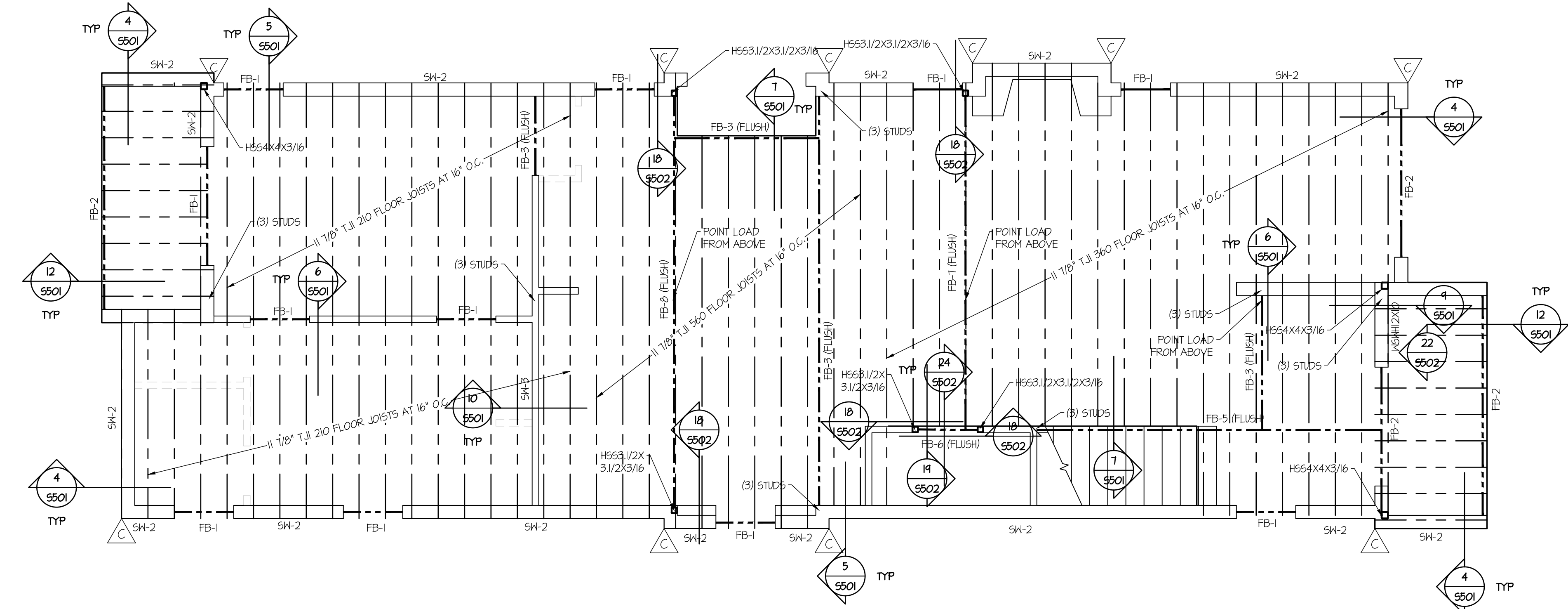
**FLOOR BEAM SCHEDULE**

FB-1	(2) 2x10
FB-2	(2) 4 1/2" MICROLLAM
FB-3	(2) 11 7/8" MICROLLAM
FB-4	(2) 10" MICROLLAM
FB-5	(3) 11 7/8" MICROLLAM
FB-6	W8X10 STEEL BEAM
FB-7	W10X19 STEEL BEAM
FB-8	W10X15 STEEL BEAM

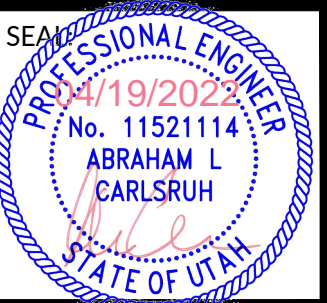
NOTE: SEE DETAIL 8/5501 FOR TYPICAL BEAM CONNECTIONS.  
PROVIDE (1) KING STUD AND (1) BEARING TRIMMER STUD AT THE EDGE OF ALL OPENINGS UP TO 6'-0". (1) KING STUD AND (2) BEARING TRIMMERS FOR OPENINGS UP TO 10'-0". (2) KING STUDS AND (2) TRIMMERS FOR OPENINGS UP TO 14'-0". ALL OTHER OPENINGS AS NOTED.

**WALL TYPE LEGEND**

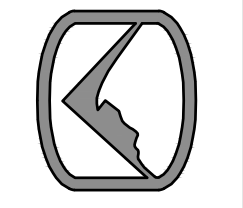
WALL TYPE	DESCRIPTION
———	INDICATES CONCRETE FOUNDATION WALL
———	INDICATES STUD BEARING WALL
----	INDICATES NON LOAD BEARING WALL



**MAIN FLOOR FRAMING PLAN** 1  
SCALE: 1/4" = 1'-0"  
S111



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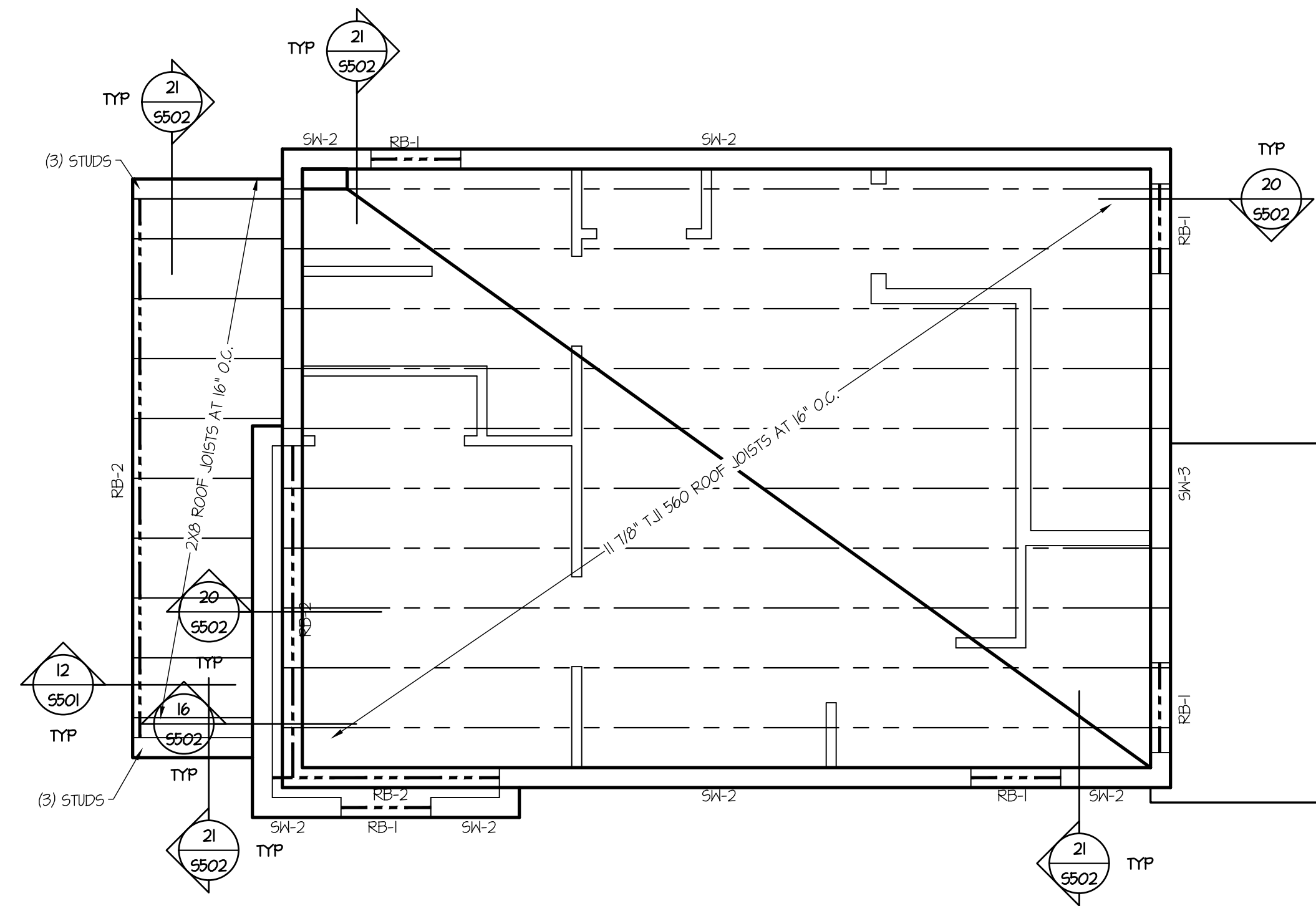
ROOF FRAMING PLAN

SHEET NUMBER:

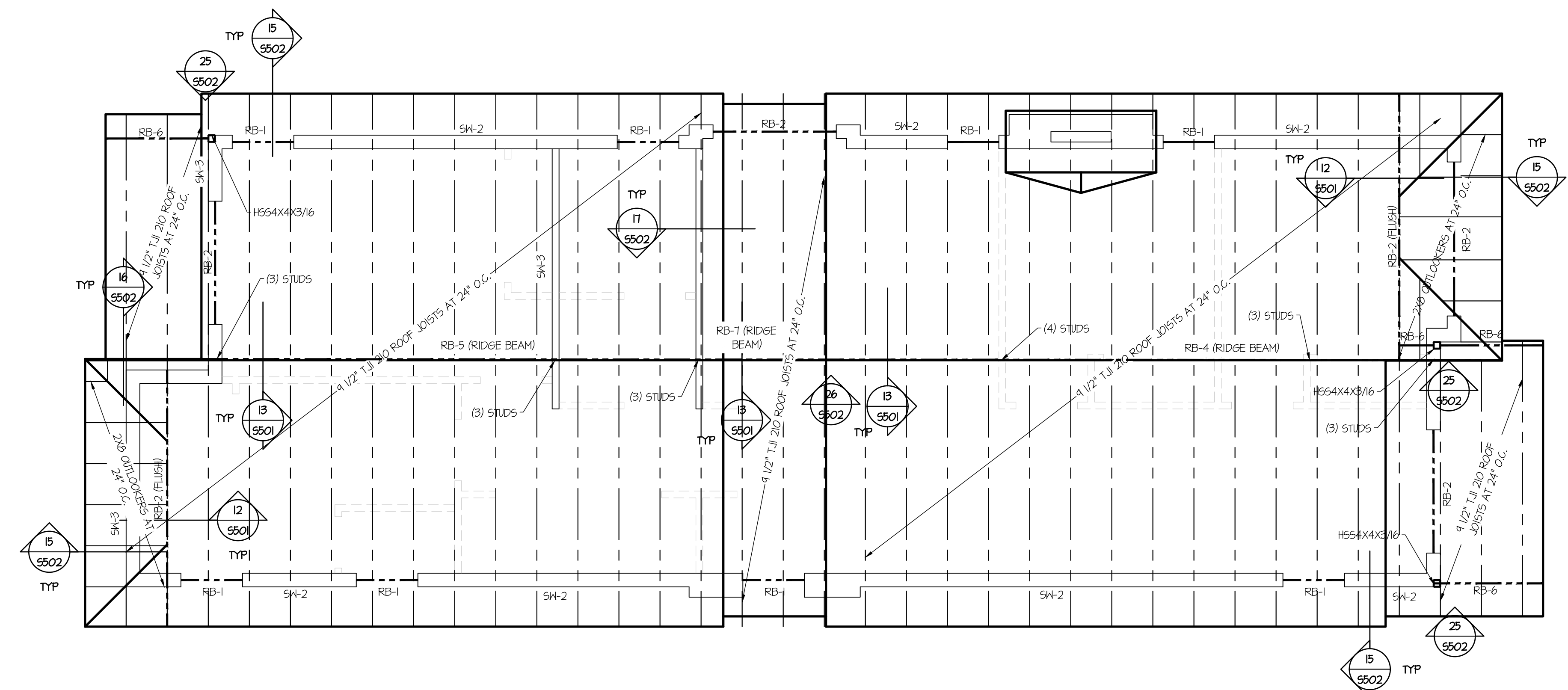
**S121**

**ROOF FRAMING NOTES**

- USE DOUGLAS FIR-LARCH #2 AND BETTER FOR ALL SAWN LUMBER BEAMS & STRUCTURAL COLUMNS
- USE 1/4" (MIN) LVL BEAMS.
- ALL EXTERIOR HEADERS SHALL BE (2) 2X10 UNO.
- CONNECT 4 PLY AND GREATER LVL BEAMS WITH (2) ROWS 1/2" THRU BOLTS AT 12" O.C. (SEE MANUFACTURERS SPECIFICATIONS)
- CARRY ALL COLUMN LOADS DOWN TO FOOTING OR FOUNDATION WALL.
- PROVIDE SOLID BLOCKING OR SQUASH BLOCKS IN JOIST SPACE AT ALL COLUMN LOCATIONS.
- PROVIDE (MIN) (3) 2X STUD WIDTH BUILT-UP COLUMN TO SUPPORT ALL MULTI-PLY GIRDER TRUSS LOADS UNLESS NOTED OTHERWISE.
- ALL NOTES PERTAINING TO APPLIED LOADS ARE BASED ON ALLOWABLE STRESS DESIGN (ASD).
- OVERBUILD NOTES
  - USE MINIMUM 2X6 OVERBUILD RAFTERS AT 24" O.C. - DO NOT SPAN MORE THAN 6'-0" AT OVERBUILDS
  - SHEATH ROOF PRIOR TO CONSTRUCTING OVERBUILDS. ROOF SHEATHING SHALL EXTEND BENEATH ALL OVERBUILDS.
- ROOF SHEATHING NOTES
  - ROOF SHEATHING SHALL BE 15/32" OR THICKER APA RATED SHEATHING W/SPAN RATING OF 32/16 NAILED WITH 8d NAILS AT 6" O.C. AT ALL PANEL ENDS, SUPPORTED EDGES, TOP OF SHEAR WALLS AND ALL BLOCKING; 8d NAILS AT 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS. PROVIDE 1/8" GAP BETWEEN ALL PANELS.
- WOOD ROOF TRUSS FRAMING NOTES
  - TRUSSES SHALL BE DESIGNED FOR 21 PSF LIVE LOAD.
  - DESIGN TRUSSES TO LIMIT DEFLECTION TO SPAN (N) DIVIDED BY 240.
  - CHECK DIMENSIONS WITH ARCH. DRAWINGS. TRUSS MANUFACTURER IS RESPONSIBLE TO PROVIDE WEB AND CHORD MEMBERS TO SATISFY LOAD REQUIREMENTS.
  - TRUSS MANUFACTURER SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL BY ENGINEER.
  - WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH APPROVED ENGINEERING PRACTICE. THE DESIGN AND MANUFACTURE OF METAL PLATE CONNECTED WOOD TRUSSES SHALL COMPLY WITH ANSI/TPI 1. THE TRUSS DESIGN DRAWINGS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER WHERE REQUIRED BY THE STATUTES OF THE JURISDICTION IN WHICH THE PROJECT IS TO BE CONSTRUCTED.
  - TRUSS MEMBERS SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL STABILITY IN ACCORDANCE WITH THE TRUSS DESIGN DRAWINGS. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE TPI, HB.
  - TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE APPROVAL OF A REGISTERED DESIGN PROFESSIONAL. ALTERATIONS RESULTING IN THE ADDITION OF LOAD (EX: HVAC EQUIPMENT, WATER HEATER, ETC.) THAT EXCEED THE DESIGN LOAD FOR THE TRUSS, SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE TRUSS IS CAPABLE OF SUPPORTING THE ADDITIONAL LOADING.
  - USE SIMPSON HI TIES AT THE END OF EACH TRUSS. USE SIMPSON VPA CONNECTORS AT THE END OF EACH TJI ROOF JOIST.
- SHEARWALL NOTES
  - ALL EXTERIOR WALLS SHALL BE SHEATHED AND NAILED WITH 1/8" APA RATED OSB SHEATHING OR PER THE SHEARWALL SCHEDULE.
  - SHEATHING SHALL EXTEND CONTINUOUS FROM SILL PLATE TO TOP PLATE OF UPPER WALL AND BE NAILED PER SHEARWALL SCHEDULE.
  - NAILS SHALL BE PLACED NOT LESS THAN 1/2" FROM EDGE OF PANEL AND DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING.
  - ALL EXTERIOR WALLS ARE TO BE NAILED AS SH-1 UNLESS NOTED OTHERWISE.
  - AT LEAST (2) OF THE GARAGE RETURNS MUST BE SHEARWALLS. MINIMUM GARAGE RETURN SHEAR WALL LENGTH IS 2'-0".
  - ALL ANCHORS ARE SIMPSON STRONG-TIE OR EQUIVALENT.
  - INSTALL HOLDDOWNS AND STRAPS PER MANUFACTURER'S SPECIFICATIONS.
  - ALL HOLDDOWNS AND STRAPS MUST BE CONNECTED TO AT LEAST (2) FULL-LENGTH STUDS.



**GARAGE ROOF FRAMING PLAN** 2  
SCALE: 1/4" = 1'-0" S121



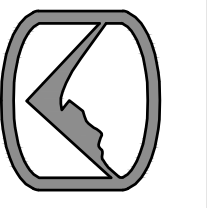
**ROOF FRAMING PLAN** 1  
SCALE: 1/4" = 1'-0" S121

ROOF BEAM SCHEDULE	
RB-1	(2) 2x10
RB-2	(2) 4 1/2" MICROLLAM
RB-3	(2) 1 7/8" MICROLLAM
RB-4	5 1/8" X 18" GLULAM 24F/VB
RB-5	5 1/8" X 12" GLULAM 24F/VB
RB-6	H564X43/16 TUBE STEEL
RB-7	(3) 4 1/2" MICROLLAM

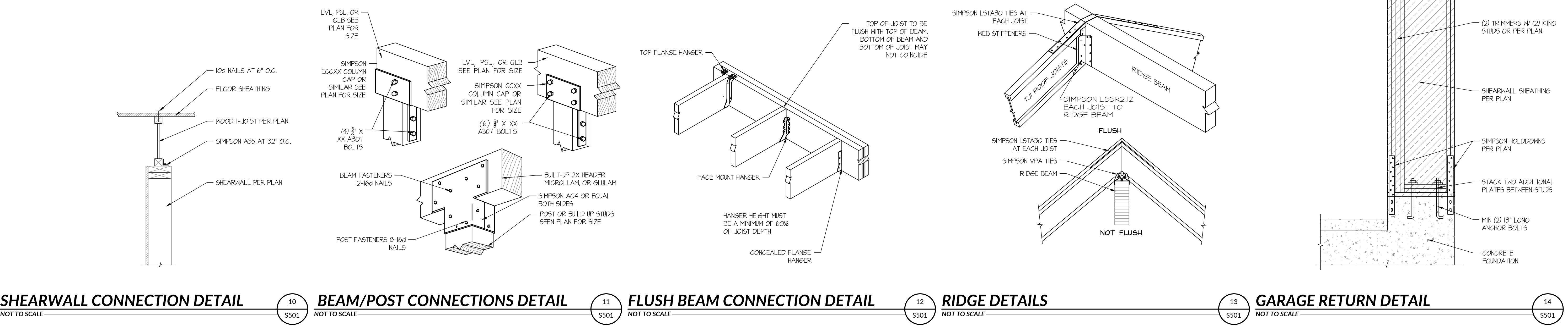
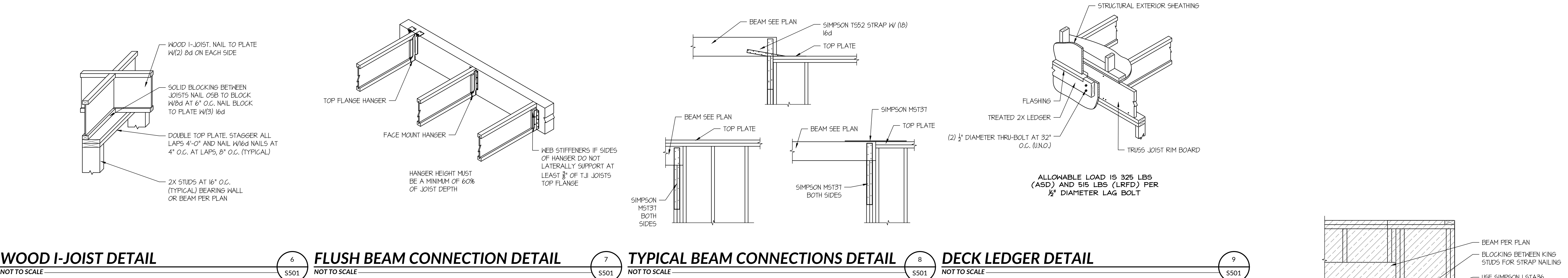
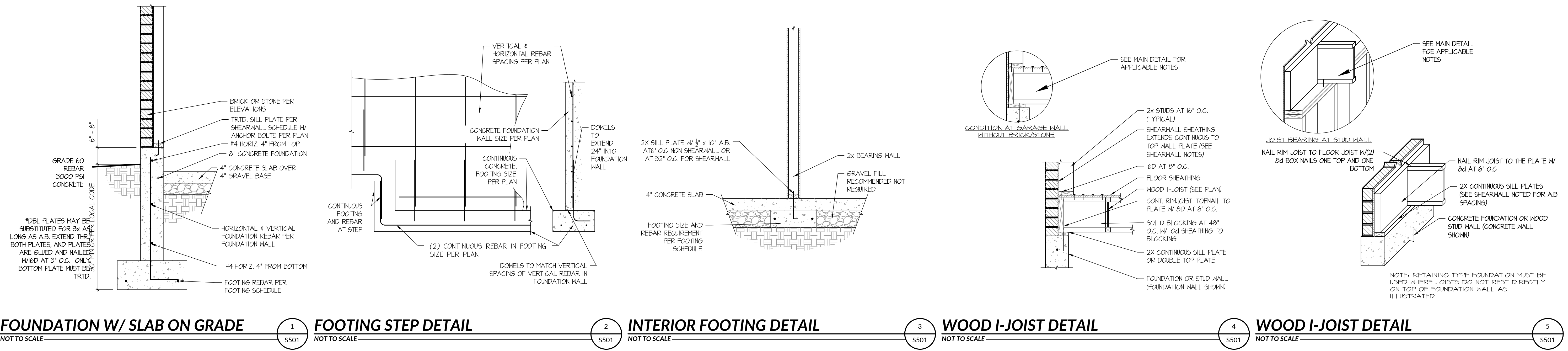
NOTE: SEE DETAIL 0/5501 FOR TYPICAL BEAM CONNECTIONS.  
PROVIDE (1) KING STUD AND (1) BEARING TRIMMER STUD AT THE EDGE OF ALL OPENINGS UP TO 6'-0". (1) KING STUD AND (2) BEARING TRIMMERS FOR OPENINGS UP TO 10'-0". (2) KING STUDS AND (2) TRIMMERS FOR OPENINGS UP TO 14'-0". ALL OTHER OPENINGS AS NOTED.

**WALL TYPE LEGEND**

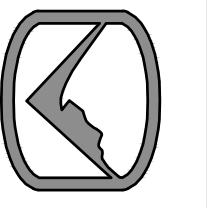
WALL TYPE	DESCRIPTION
	INDICATES CONCRETE FOUNDATION WALL
	INDICATES STUD BEARING WALL
	INDICATES NON LOAD BEARING WALL



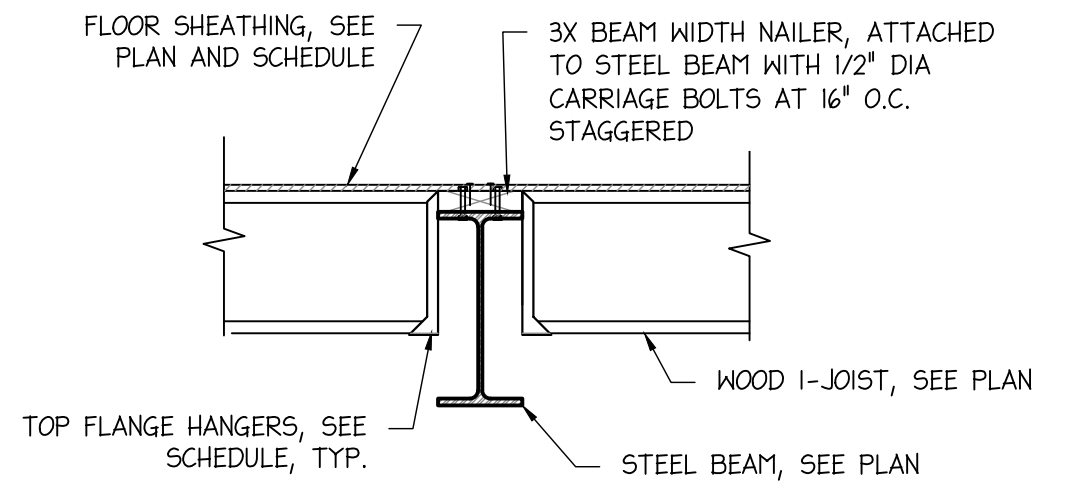
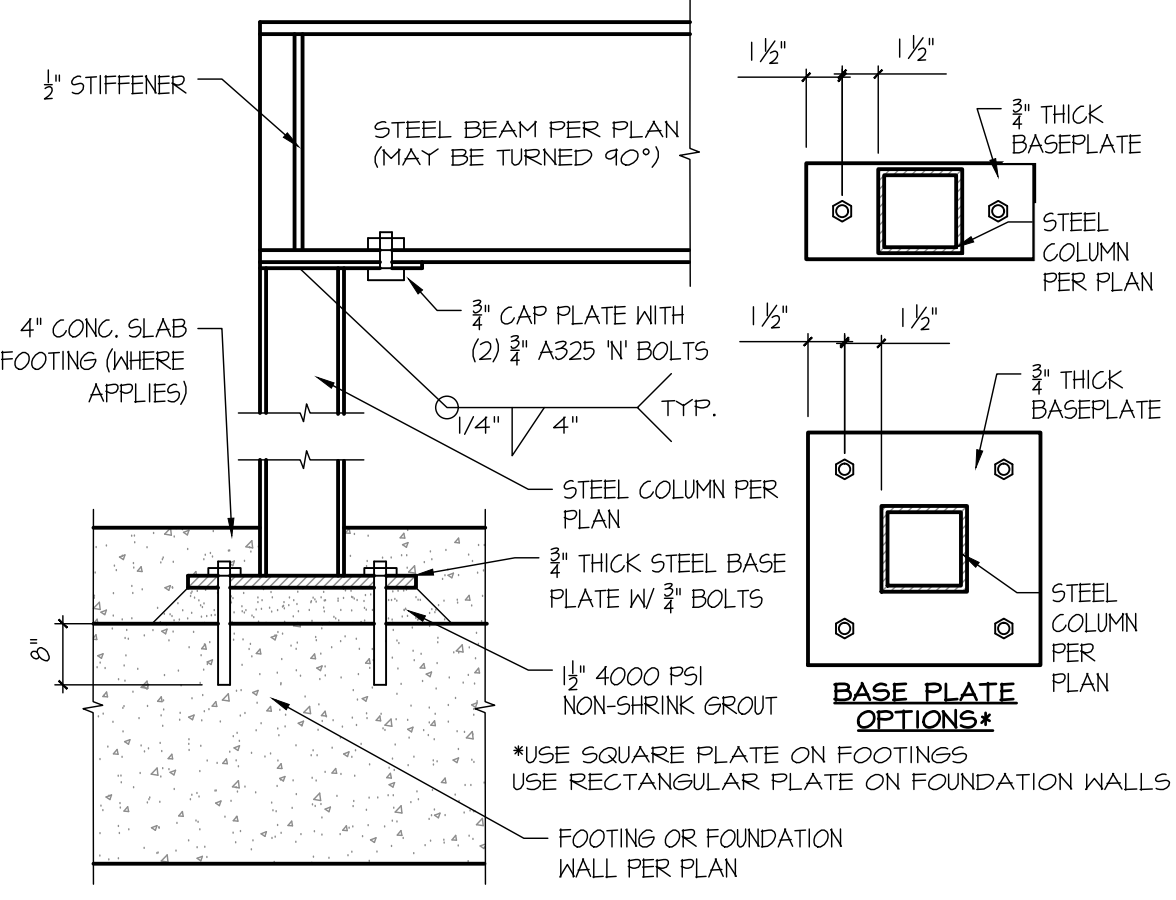
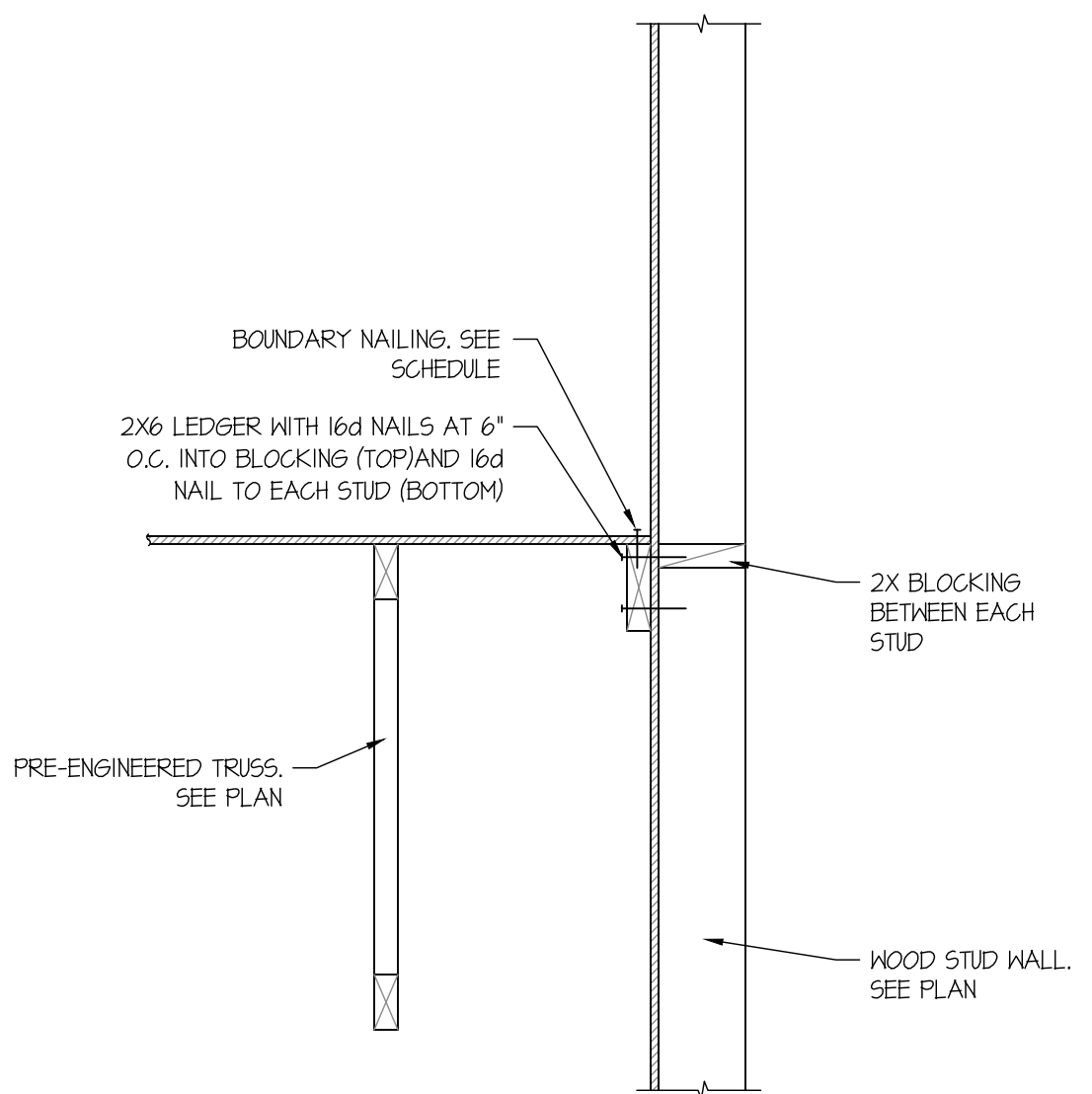
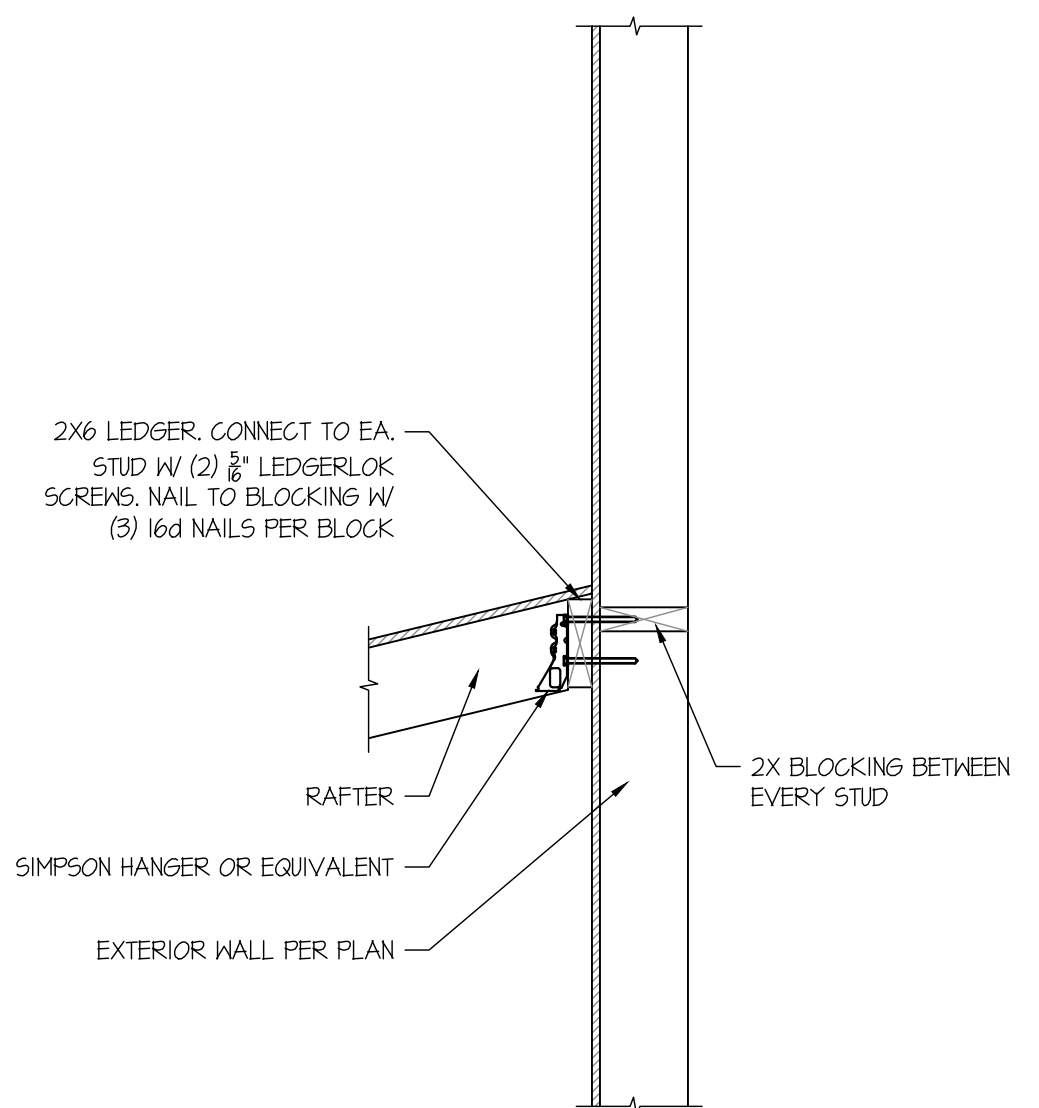
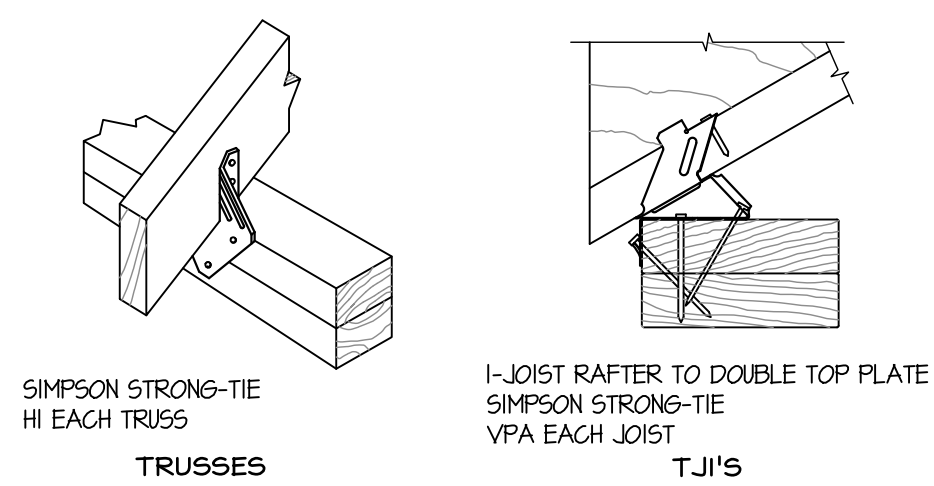
REVISIONS:





REVISIONS:

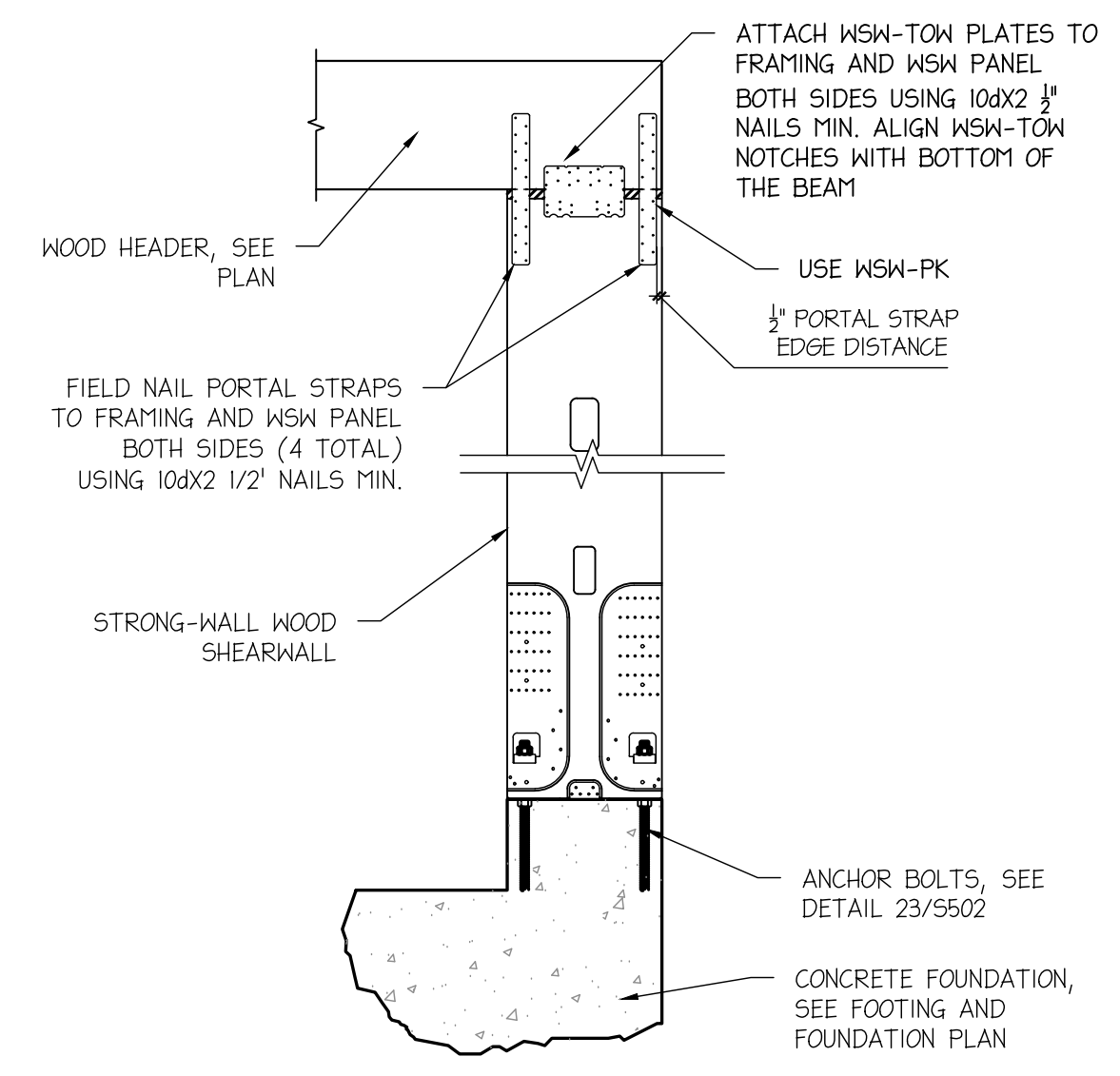
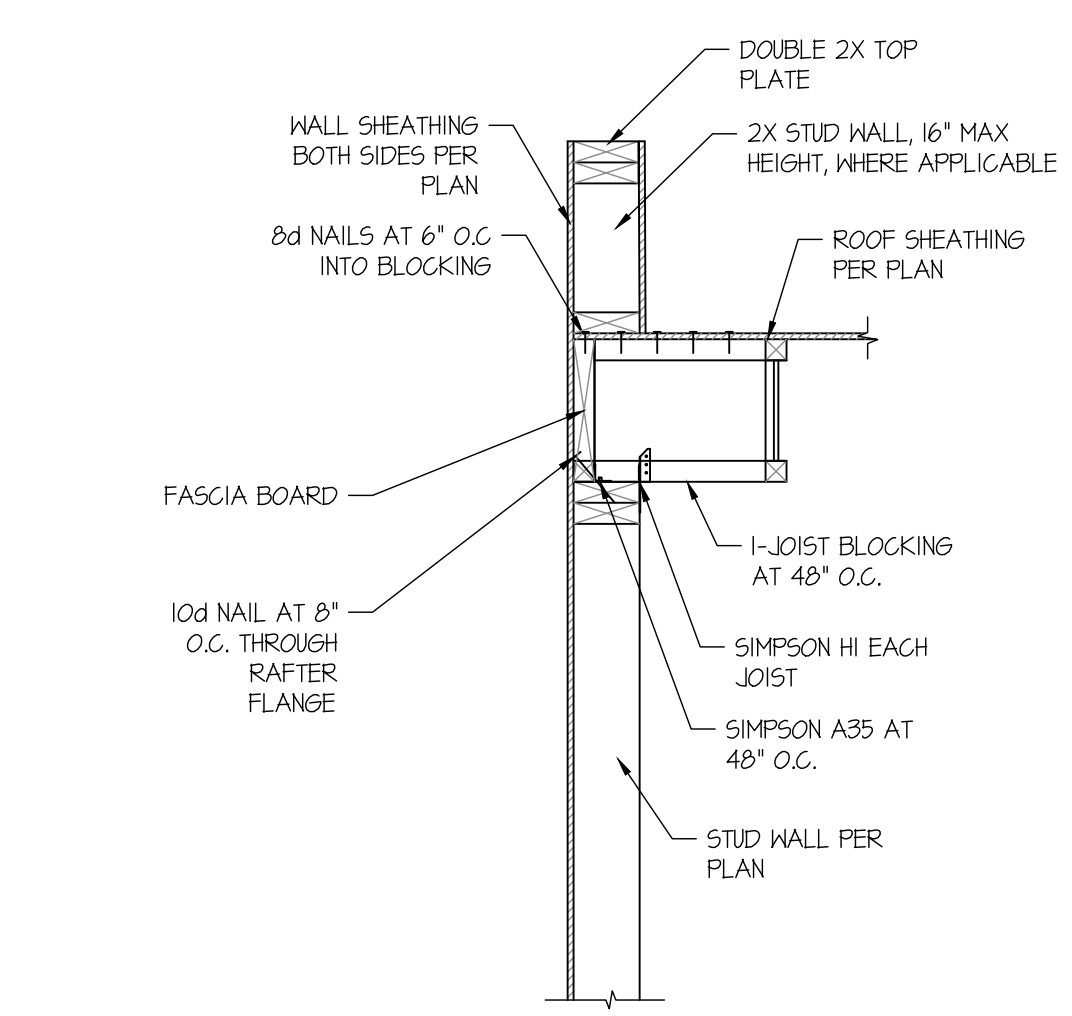
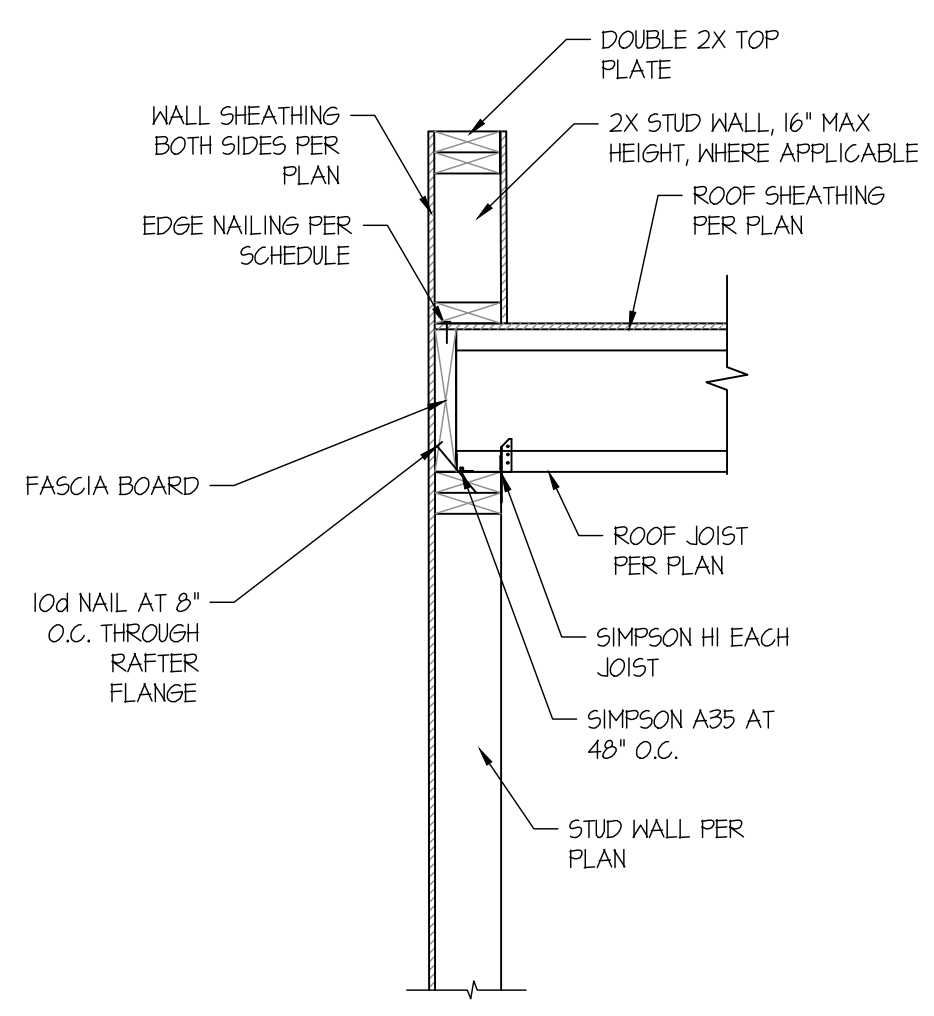
**ROOF JOIST CONNECTIONS DETAIL**  
NOT TO SCALE

**ROOF LEDGER DETAIL**  
NOT TO SCALE

**SHEAR TRANSFER DETAIL**  
NOT TO SCALE

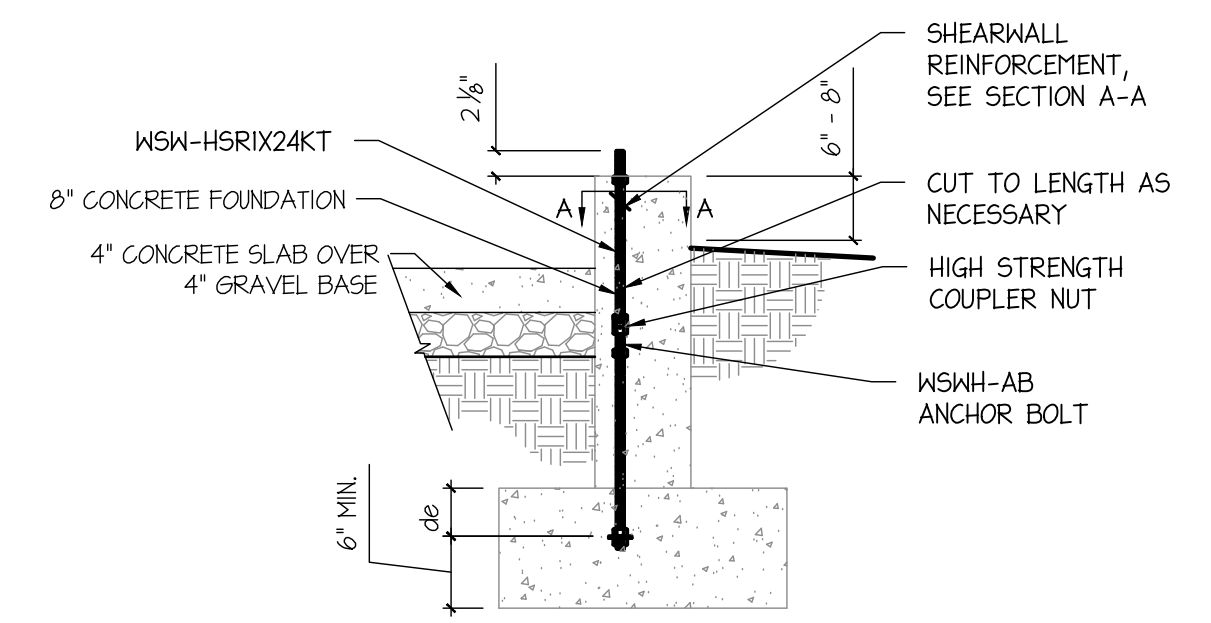
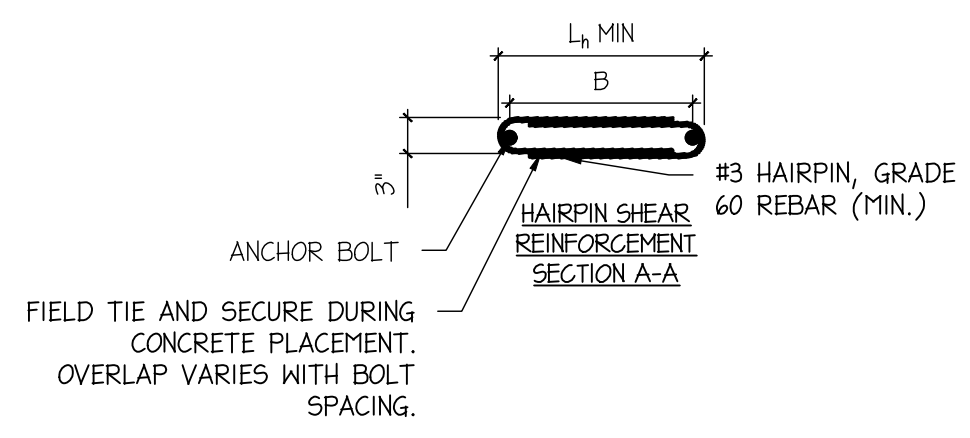
**STEEL COLUMN DETAIL**  
NOT TO SCALE

**FLOOR JOISTS TO STEEL BEAM**  
NOT TO SCALE



**ANCHOR SOLUTION ASSUMING CRACKED CONCRETE DESIGN:**

MODEL	de	B	ANCHOR BOLT	STRENGTH	L <sub>h</sub>	SHEAR REINFORCEMENT
W6WH2X10	10"	8 1/8"	W6WH-AB1X24	STANDARD	10 1/4"	(1) #3 HAIRPIN
W6WH24X10	13"	20"	W6WH-AB1X24	HIGH STRENGTH	19"	(2) #3 HAIRPIN



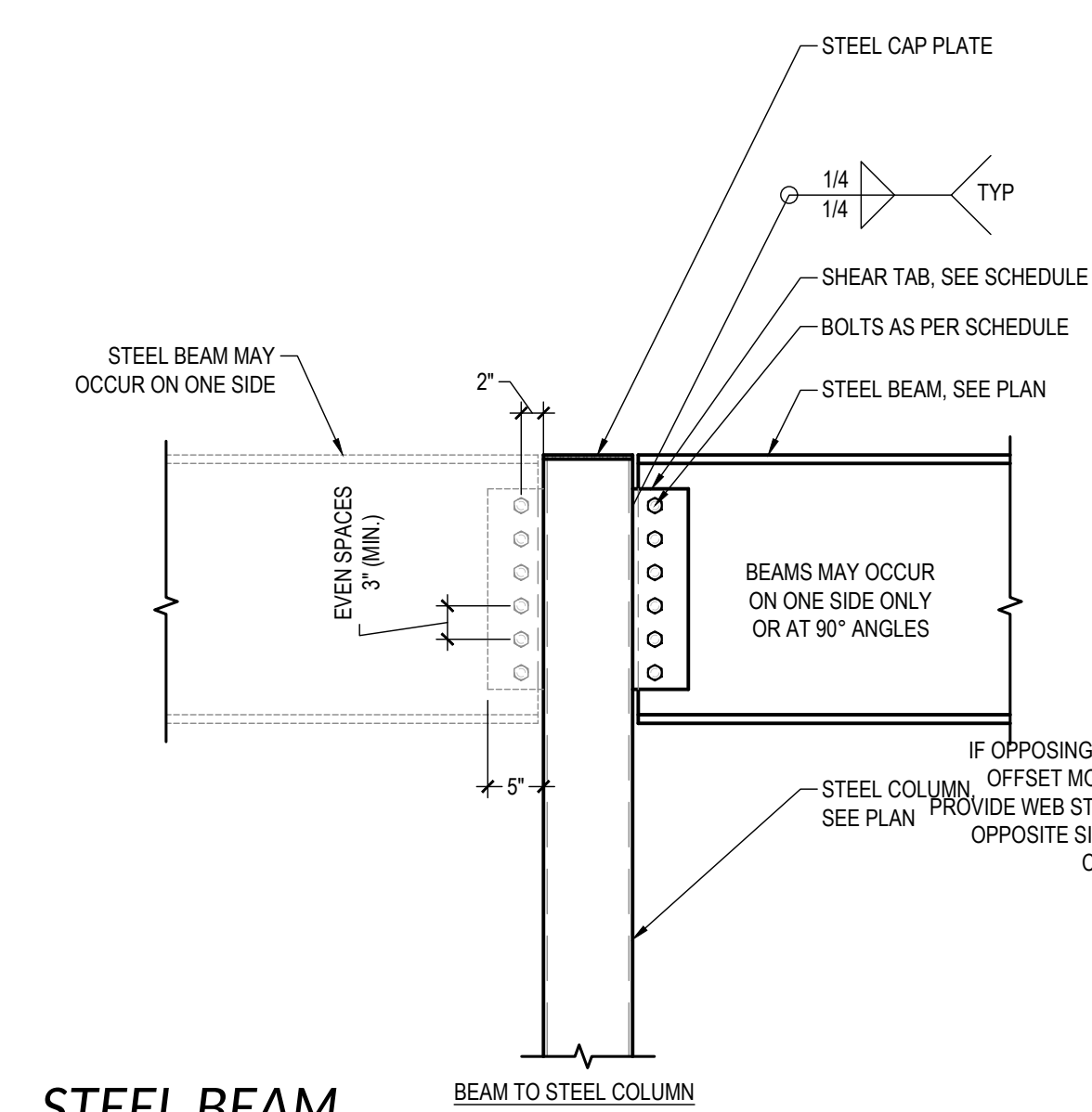
**ROOF JOIST CONNECTION (PERPENDICULAR)**  
NOT TO SCALE

**ROOF JOIST CONNECTION (PARALLEL)**  
NOT TO SCALE

**STRONG-WALL WOOD SHEARWALL SINGLE PORTAL ASSEMBLY DETAIL**  
NOT TO SCALE

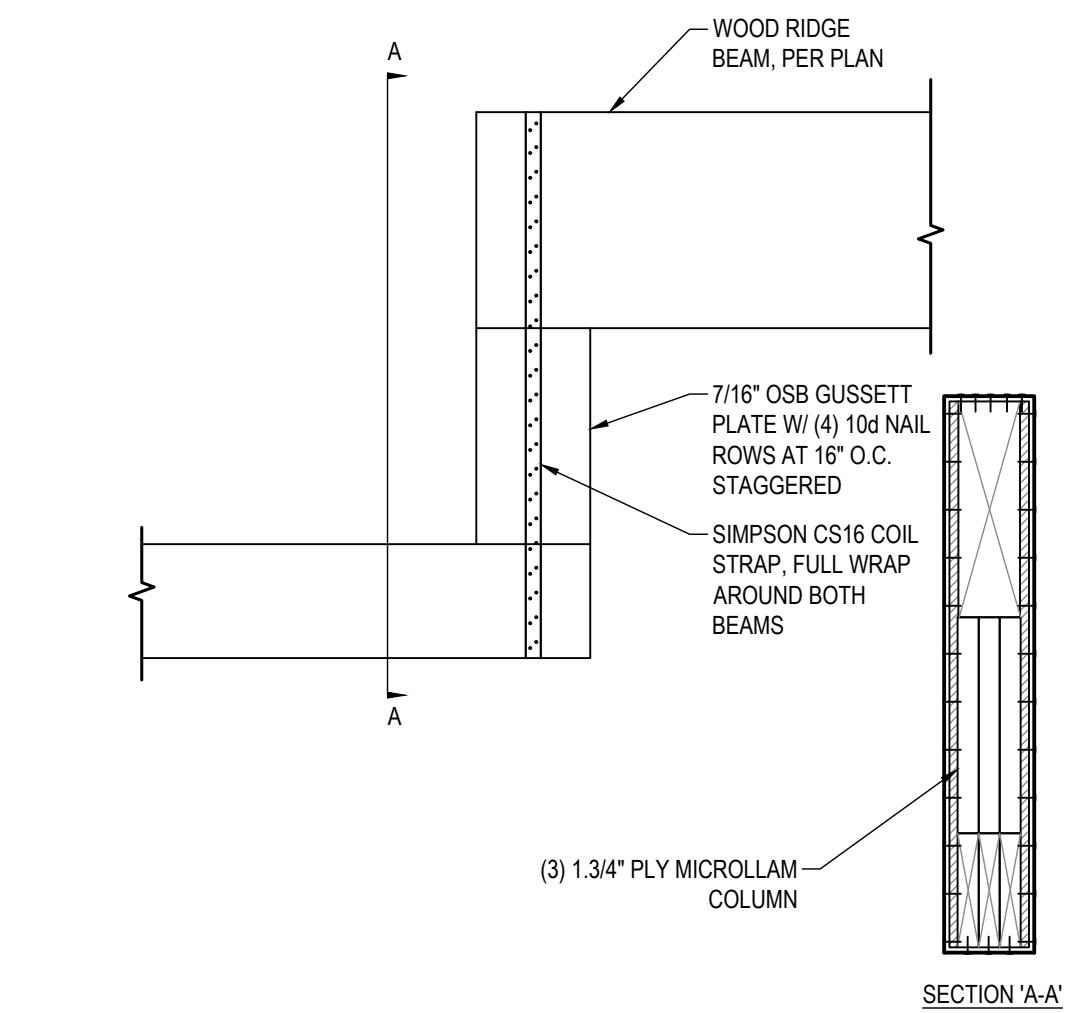
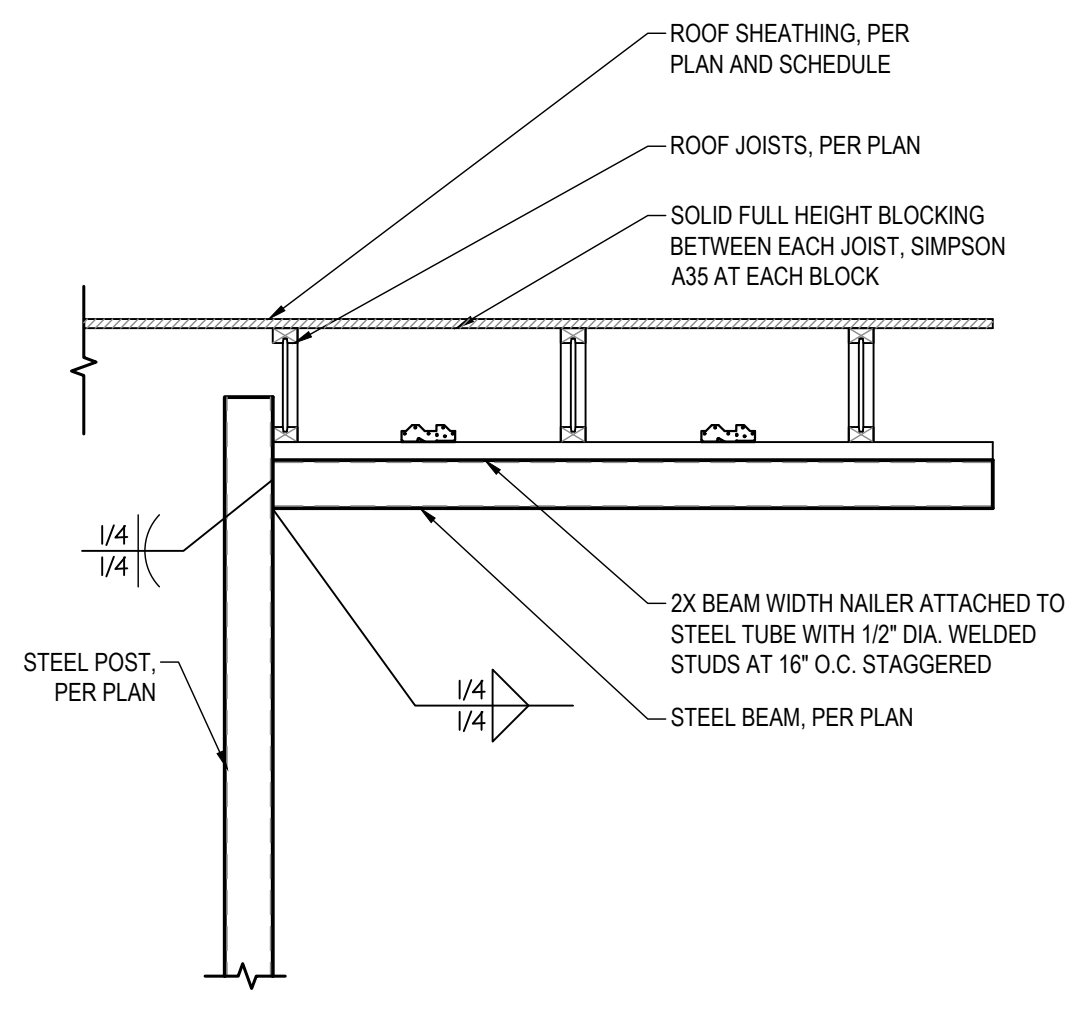
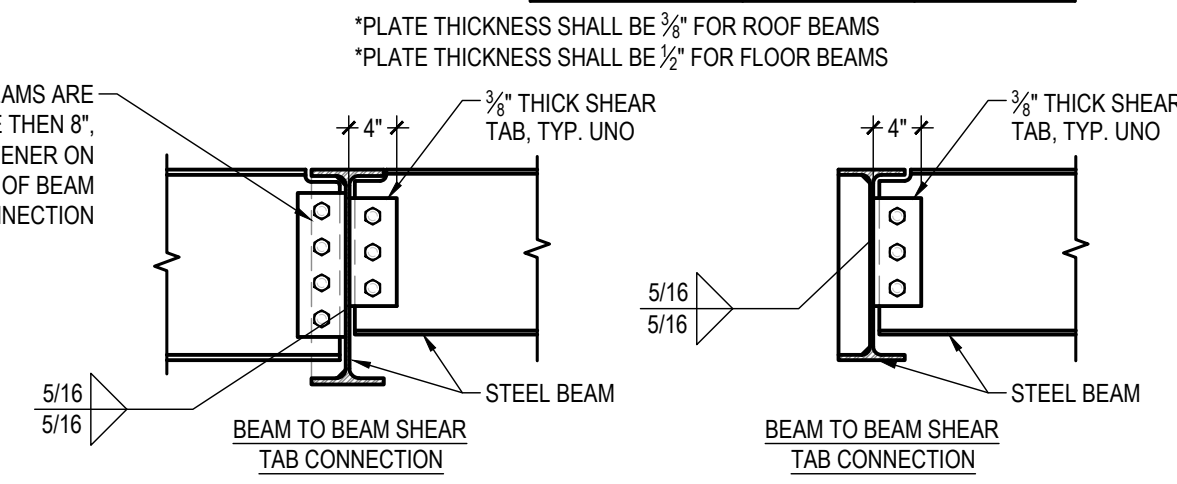
**STEMWALL EXTENSION ANCHOR BOLT INSTALLATION**  
NOT TO SCALE

**STEMWALL EXTENSION ANCHOR BOLT INSTALLATION**  
NOT TO SCALE



**"USE A325 'N' BOLTS"**

BEAM SIZE	*PLATE SIZE	BOLTS
W8	0'-5 1/2"	(2) 3/4" Ø
W10	0'-6"	(2) 3/4" Ø
W12	0'-9"	(3) 3/4" Ø
W16	1'-1"	(4) 3/4" Ø
W16	1'-3"	(5) 3/4" Ø
W21	1'-6"	(6) 3/4" Ø
W24	1'-8"	(6) 3/4" Ø
W27	1'-11"	(7) 3/4" Ø
W30	2'-2"	(8) 3/4" Ø
W33	2'-5"	(9) 3/4" Ø



**STEEL BEAM BOLT DETAILS (DOES NOT APPLY TO PRE-MANUFACTURED METAL BUILDING)**  
NOT TO SCALE

**SINGLE PORTAL ASSEMBLY DETAIL**  
NOT TO SCALE

**ROOF RIDGE BEAM CONNECTION DETAIL**  
NOT TO SCALE