AB	ABBREVIATIONS
ABV	ANCHOR BOLT ABOVE
ADJ AFF	ADJACENT ABOVE FINISH FLOOR
AGGR ALT	AGGREGATE ALTERNATE
ALUM	ALUMINUM
APPROX ARCH'L	APPROXIMATELY ARCHITECTURAL
BD BLDG	BOARD BUILDING
BLK'G BM	BLOCKING BEAM
BN	BOUNDARY NAILING
BO BOTT	BOTTOM OF BOTTOM
BRG BTWN	BEARING BETWEEN
CAM CANT'L	CAMBER CANTILEVERED
CTR	CENTERED
CLR	CENTERLINE CLEAR
COL	CONC MASONRY UNIT
CONC	CONCRETE CONNECTION
CONST	CONSTRUCTION CONTINUOUS
d	PENNY
D/DIA DBL	DOUBLE DOUBLE
DEPT DFL	DEPARTMENT DOUGLAS FIR LARCH
DIAG DTL	DIAGONAL DETAIL
DIA	DIAMETER
DIM	DIMENSION DOWN
DWG DWL	DRAWING DOWEL
EA EJ	EACH EXPANSION JOINT
ELEV ELEC	ELEVATION ELECTRIC
EN	EDGE NAILING
ENCL	ENGINEER OF RECORD
EQ EQUIP	EQUAL EQUIPMENT
EXIST	EXISTING EXPANSION
EXT	EXTERIOR EXTENDED
FD FND/FDN	FLOOR DRAIN
FND/FDN FF	FOUNDATION FINISH FLOOR
FG FIN	FINISH GRADE FINISH
FLR	FLOOR
FRMG FT	FRAMING FOOT OR FEET
FTG FURR	FOOTING FURRING
GA GLB	GAUGE GLU-LAM BEAM
GRND GT	GROUND GIRDER TRUSS
GYP	GYPSUM WALLBOARD HEADER
HGR	HANGER
HGT HT HORIZ	HEIGHT HORIZONTAL
HTR INSUL	HIP TRUSS INSULATION
JT	INTERIOR JOINT
LAM LAT	LAMINATE LATERAL
LBS LSL	POUNDS LAM STRAND LUMBER
LT	LIGHT
LVL	LAM VENEER LUMBER LONG WAY
MAS MAX	MASONRY MAXIMUM
MECH MFR	MECHANICAL MANUFACTURER
MFR'D MIN	MANUFACTURED MINIMUM
MISC	MISCELLANEOUS
NO N	NUMBER COMMON NAIL
NITO	NOT TO SCALE OVER
NTS O/	
	ON CENTER OPPOSITE HAND
O/ OC OH OPN'G	
O/ OC OH OPN'G PFA PL	OPPOSITE HAND OPENING POST FROM ABOVE PLATE
O/ OC OH OPN'G PFA PL PLYWD PNL	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT #	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S SCHED	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL
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O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S SCHED SF SECT SHTHG	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSI PT # r/RAD REF REINF REQ'D S SCHED SF SECT SHTHG SIM SPEC SQ STD	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING SIMILAR SPECIFICATIONS SQUARE STANDARD
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S SCHED SF SECT SHTHG SIM SPEC SQ STD STG'D STL	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING SIMILAR SPECIFICATIONS SQUARE STANDARD STAGGERED STEEL
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S SCHED SF SECT SHTHG SIM SPEC SQ STD STG'D	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING SIMILAR SPECIFICATIONS SQUARE STANDARD STAGGERED
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S SCHED SF SECT SHTHG SIM SPEC SQ STD STG'D STRUCT SYM SWL	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING SIMILAR SPECIFICATIONS SQUARE STANDARD STAGGERED STRUCTURAL SYMMETRICAL SHEAR WALL
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S SCHED SF SECT SHTHG SIM SPEC SQ STD STG'D STL STRUCT SYM SWL SPN	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING SIMILAR SPECIFICATIONS SQUARE STANDARD STAGGERED STELL STRUCTURAL SYMMETRICAL SOLE PLATE NAILING SHORT WAY
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S SCHED SF SECT SHTHG SIM SPEC SQ STD STG'D STRUCT SYM SWL SPN	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING SIMILAR SPECIFICATIONS SQUARE STANDARD STAGGERED STRUCTURAL SYMMETRICAL SHEAR WALL SOLE PLATE NAILING
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S SCHED SF SECT SHTHG SIM SPEC SQ STD STG'D STL STRUCT SYM SWL SPN SW T&G	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING SIMILAR SPECIFICATIONS SQUARE STANDARD STAGGERED STEEL STRUCTURAL SYMMETRICAL SHEAR WALL SOLE PLATE NAILING SHORT WAY TONGUE AND GROOVE
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S SCHED SF SECT SHTHG SIM SPEC SQ STD STC STC STRUCT SYM SWL SPN SW T&G T&B THK	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING SIMILAR SPECIFICATIONS SQUARE STANDARD STAGGERED STEEL STRUCTURAL SYMMETRICAL SHEAR WALL SOLE PLATE NAILING SHORT WAY TONGUE AND GROOVE TOP AND BOTTOM THICK TOP OF TRIMMER
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S SCHED SF SECT SHTHG SIM SPEC SQ STD STG'D STL STRUCT SYM SWL SPN SWL SPN SW T&G T&B TAB THK TO TRIMM TR TS	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING SIMILAR SPECIFICATIONS SQUARE STANDARD STAGGERED STEEL STRUCTURAL SYMMETRICAL SHEAR WALL SOLE PLATE NAILING SHORT WAY TONGUE AND GROOVE TOP AND BOTTOM THICK TOP OF TRIMMER TRUSS TUBE STEEL
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S SCHED SF SECT SHTHG SIM SPEC SQ STD STG'D STL STRUCT SYM SWL SPN SW T&G T&B THK TO TRIMM TR TS TS LSL TYP	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING SIMILAR SPECIFICATIONS SQUARE STANDARD STAGGERED STEL STRUCTURAL SYMMETRICAL SHEAR WALL SOLE PLATE NAILING SHORT WAY TONGUE AND GROOVE TOP AND BOTTOM THICK TOP OF TRIMMER TRUSS TUBE STEEL TIMBERSTRAND BEAM TYPICAL
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D SSCHED SSF SECT SHTHG SIM SPEC SQ STD STG'D STL STRUCT SYM SWL SPN SWL SPN SWL T&G T&B TAB THK TO TRIMM TR TS TS LSL TYP UNO VERT	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING SIMILAR SPECIFICATIONS SQUARE STANDARD STAGGERED STEEL STRUCTURAL SYMMETRICAL SHEAR WALL SOLE PLATE NAILING SHORT WAY TONGUE AND GROOVE TOP AND BOTTOM THICK TOP OF TRIMMER TRUSS TUBE STEEL TIMBERSTRAND BEAM TYPICAL
O/ OC OH OPN'G PFA PL PLYWD PNL PREFAB PSL PSI PT # r/RAD REF REINF REQ'D S SCHED SF SECT SHTHG SIM SPEC SQ STD STG'D STRUCT SYM SWL SPN SW T&G T&B THK TO TRIMM TR TS TS LSL TYP UNO	OPPOSITE HAND OPENING POST FROM ABOVE PLATE PLYWOOD PANEL PREFABRICATED PARALLEL STRAND LUMBE LBS PER SQ INCH POST-TENSIONED POUND RADIUS REFERENCE REINFORCING REQUIRED SINKER NAIL SCHEDULE SQUARE FEET SECTION SHEATHING SIMILAR SPECIFICATIONS SQUARE STANDARD STAGGERED STEEL STRUCTURAL SYMMETRICAL SHEAR WALL SOLE PLATE NAILING SHORT WAY TONGUE AND GROOVE TOP AND BOTTOM THICK TOP OF TRIMMER TRUSS TUBE STEEL TIMBERSTRAND BEAM TYPICAL UNLESS NOTED OTHERWIS

STRUCTURAL GENERAL NOTES

- 1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODE: THE INTERNATIONAL BUILDING AND RESIDENTIAL CODE, 2018 EDITION, OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
- 2. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE ABOVE ITEMS.
- 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- 4. DIMENSIONS SHALL TAKE PRECEDENCE OVER THE SCALE SHOWN ON DRAWINGS.
- 5. NOTES AND DETAILS ON PLANS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL
- 6. SEE ARCHITECTURAL PLANS FOR THE FOLLOWING UNO:
- SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.
- C. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFER, GROOVES, INSERTS, ETC.
- SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS. FLOOR AND ROOF FINISHES.
- STAIR FRAMING AND DETAILS.
- G. DIMENSIONS NOT SHOWN ON STRUCTURAL PLANS.
- 7. SEE MECHANICAL, PLUMBING, AND ELECTRICAL PLANS FOR THE FOLLOWING: A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., (EXCEPT AS
 - SHOWN OR NOTED) ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
 - CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES. SIZE AND LOCATION OF MACHINE EQUIPMENT BASES, OR ANCHOR BOLTS FOR MOUNTS.

SIZE AND LOCATION OF ALL MECHANICAL UNITS.

- 8. OPENINGS, POCKETS, ETC. LARGER THAN 6 INCHES SHALL NOT BE PLACED IN SLABS, DECKS, BEAMS, JOISTS, COLUMNS, WALLS, ETC., UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.

9. ASTM SPECIFICATIONS NOTED SHALL BE THE LATEST REVISION

- 10. THE CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS. ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE ENGINEER OF RECORD SHALL BE NOTIFIED
- 11. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- 12. WHERE THE LONGEST HORIZONTAL CEILING DIMENSION IS EQUAL TO OR GREATER THAN 20'-0", IT IS RECOMMENDED THAT RESILIENT CHANNEL BE USED TO HELP LIMIT DRYWALL CRACKING.

LIVE LOAD

DEAD LOAD

DESIGN CRITERIA

FLOOR LOAD

ſ	ROOF LOAD	22 PSF					
	ROOF SNOW LOAD	22 PSF	22 PSF				
	STAIR & EXIT LOAD						
-	STORAGE LOAD						
- [* SEE FRAMING NOTES FOR SPI	ECIAL LOADING CONDITIONS.					
	BASIC WIND SPEED		100 MPF	H (LRFD)), 78 MPH (<i>A</i>	ASD)	
	WIND RISK CATEGORY		II				
	WIND EXPOSURE CATEGOR	Υ		С			
Ī	INTERNAL PRESSURE COEF		± 0.18				
ı	SEISMIC RISK CATEGORY &	II	I _E = 1.0				
	MAPPED SPECTRAL RESPONSE ACCELERATIONS	3	S _S :	S _S = 0.486 & S ₁ = 0.163			
ı	SPECTRAL RESPONSE COEF	S _{DS} :	$S_{DS} = 0.421 \& S_{D1} = 0.163$				
ı	SITE CLASS			(С		
	LATERAL FORCE RESISTING	SYSTEM		LIGHT FRAME WALLS WITH SHEAR PANELS			
	SEISMIC RESPONSE COEFFI	CIENT, C _S		0.0	065		

FOUNDATION

DESIGN BASE SHEAR

ANALYSIS PROCEDURE

SEISMIC DESIGN CATEGORY

1. THIS IS TO CERTIFY THE FOUNDATION DEPICTED HEREIN HAS BEEN DESIGNED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRACTICE FOR CONDITIONS AS CLASSIFIED BY THE PROJECT GEOTECHNICAL REPORT:

C_s x DEAD WEIGHT(W)

EQUIVALENT LATERAL FORCE

CONSULTANT: DUPONT ENGINEERING, INC PROJECT NO: 19-0437 DATED: JUNE 30, 2019

- 2. FOOTINGS ARE DESIGNED BASED ON AN ALLOWABLE BEARING PRESSURE OF 2500 PSF PER SOIL
- 3. SOILS PREPARATION AND FOUNDATION CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.
- 4. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT LOCATION OF BULKHEADS AND OPENINGS, ETC.
- 5. THE CONTRACTOR SHALL PROVIDE FOR PROPER DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC. (FOOTINGS SHALL NOT BE PLACED UNDER WATER).
- 6. FOOTINGS SHALL BE PLACED ACCORDING TO DEPTHS SHOWN ON THE STRUCTURAL PLANS. ALL ABANDONED FOOTINGS, UTILITIES, ETC. THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE
- 7. CONCRETE PLACEMENT SHALL BE IN ONE CONTINUOUS OPERATION UNLESS OTHERWISE SPECIFIED AND SLAB SURFACE SHALL BE CURED WITH HUNTS COMPOUND OR EQUAL.
- 8. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. FLOODING WILL NOT BE PERMITTED.
- 9. STOOPS, PORCHES, OR OTHER ATTACHMENTS SHALL BE CAST INDEPENDENT OF THE CONCRETE FOUNDATION SLAB, UNO.

FOUNDATION HARDWARE

- 1. THICKEN SLAB AS REQUIRED FOR CONCRETE COVERAGE AT ANCHOR BOLTS PER ACI 318 WHERE OCCURS. THE CONCRETE CONTRACTOR SHALL VERIFY LOCATION OF ALL BOLTS, TIE-DOWNS, POST-ANCHORS, ETC. WITH THE ARCHITECTURAL PLANS PRIOR TO COMMENCING WORK AND BE RESPONSIBLE FOR SAME.
- 2. UNO BOLT SILL PLATES TO THE FOUNDATIONS WITH MIN 1/2" NOMINAL DIA ANCHOR BOLT WITH PLATE WASHERS. BOLTS SHALL BE SPACED NOT MORE THAN 72" O.C. THERE SHALL BE A MIN OF (2) BOLTS PER PIECE. ONE BOLT SHALL BE LOCATED NOT MORE THAN 12" AND NOT LESS THAN 4" FROM EACH END, OR FROM EACH SIDE OF A NOTCH GREATER THAN 1/2 THE WIDTH OF THE PLATE. EMBED BOLTS AT LEAST 7" INTO REINFORCED MASONRY OR CONCRETE. SILL PLATE ANCHOR BOLTS MAY BE "WET
- 3. PROVIDE 3" X 3" X 0.229" PLATE WASHERS ON ALL ANCHOR BOLTS AT SHEAR WALLS. PLATE WASHERS SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE SILL PLATE ON THE SIDE(S) WITH SHEATHING. PROVIDE STANDARD CUT WASHERS UNDER BOLT HEADS AND NUTS WHEN SLOTTED PLATE WASHERS ARE USED. PROVIDE CUT OR SLOTTED WASHERS AGAINST WOOD AT ALL REMAINING WALLS.
- 4. ALL 1/2" DIA. ANCHOR BOLTS MAY BE REPLACED WITH:
 - A. 1/2" DIA THREADED ROD EPOXY DOWELED TO FOUNDATION WITH SIMPSON SET-XP EPOXY (ICC REPORT ESR-2508) IN 5/8" DIA HOLE. PROVIDE A MIN. OF 4" EMBEDMENT AND 1 3/4" EDGE DISTANCE FROM ANY SLAB EDGE.
 - B. 1/2" DIA SIMPSON TITEN HD HIGH STRENGTH THREADED ANCHOR (ICC ESR-2713). PROVIDE A MIN. OF 4" EMBEDMENT AND 1 3/4" EDGE DISTANCE FROM ANY SLAB EDGE.
 - C. SIMPSON MASA/MASAP MUDSILL ANCHORS (ICC ESR-2555). INSTALLATION OF THE MUDSILL ANCHOR SHALL BE PER MANUFACTURER'S TYPICAL OR ALTERNATE INSTALLATION METHOD. DO NOT WET-SET THE MUDSILL ANCHOR, INSTALL WITH ONE LEG UP OR INSTALL OVER PLYWOOD OR OSB. FOLLOW ALL MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS DURING INSTALLATION. DO NOT US WHEN ANCHOR SPACING IS < 9 INCHES.
- 5. AT INTERIOR NON-BEARING AND NON-SHEARWALLS, 1/2" DIA ANCHOR BOLTS MAY BE REPLACED WITH MINIMUM 0.145" DIA X 2 7/8" POWDER DRIVEN FASTENERS AT A MAXIMUM SPACING OF 24" O.C. (HILTI ESR-2379 OR SIMPSON ESR-2138 OR EQUIVALENT)
- 6. PROVIDE REINFORCING BAR FOR HOLDOWNS PER DETAILS SHEET SD-1, UNO.
- 7. HOLDOWNS SPECIFIED ON PLANS MAY BE POST INSTALLED (RETRO-FITTED) AS NOTED BELOW. DRILL COMPLETELY THRU THE FOOTING AND PROVIDE THREADED ROD WITH BEARING PLATE, WASHER AND NUT. BACKFILL ALL AROUND THE ROD, WASHER AND NUT TO PROVIDE A MINIMUM OF 3" COVER USING LEAN CONCRETE MIX. THREADED ROD AND BEARING PLATE SHALL BE PER THE TABLE PROVIDED. SEE RETROFIT DETAIL SHEET SD-1. THE USE OF POST INSTALLED ANCHORS UNLESS NOTED OTHERWISE, E.G. EXPANSION ANCHORS OR EPOXY ANCHORS, IS NOT ALLOWED WITHOUT PRIOR REVIEW AND AUTHORIZATION BY THE ENGINEER OF RECORD. CONTACT THE ENGINEER OF RECORD FOR REQUEST OF ALTERNATE ANCHORAGE SOLUTIONS.

REINFORCING STEEL

- 1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 GRADE 60.
- 2. WELDED REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-706 GRADE 60.
- 3. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 4. WELDED WIRE REINFORCEMENT (WWR) SHALL BE PER ASTM A185 AND SHALL BE SUPPLIED IN SHEETS. WWR FRM ROLLS SHALL NOT BE USED.
- 5. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE AND ONE HALF SQUARES, WHICHEVER IS GREATER.
- 6. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
- 7. REBAR SPLICES ARE TO BE CLASS "B" (UNO). MAINTAIN 2 BAR DIA CLEAR SPACE BETWEEN ADJACENT
- 8. REINFORCING SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS.
- 9. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY, UNO.

REBAR SIZE	3	4	5	6	7	8	9	10	11
MINIMUM LAP LENGTH (INCHES)	22	29	36	43	68	78	88	98	107
STD HOOK LENGTH (INCHES)	4 1/2	6	7 1/2	9	10 1/2	12	13 1/2	15 1/2	16 1/2
LAP LENGTH			ایر	look ,	,				

CONCRETE

- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318 LATEST ADOPTED EDITION), WITH MODIFICATIONS AS NOTED IN THE DRAWINGS AND SPECIFICATIONS.
- 2. REINFORCED CONCRETE DESIGN IS BY THE "ULTIMATE STRENGTH DESIGN METHOD". SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTHS AND TYPES:

CATION IN STRUCTURE	STRENGTH	PSI TYPE
SLABS ON GRADE	2500 PSI	HARD ROCK
FOOTINGS	2500 PSI	HARD ROCK

DESIGN BASED ON 2500 PSI, 28-DAY STRENGTH, THEREFORE SPECIAL INSPECTION IS NOT REQUIRED.

CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL WITH

- THE FOLLOWING REQUIREMENTS: A. COMPRESSIVE STRENGTH AT AGE 28 DAYS AS SPECIFIED ABOVE.
- B. LARGE AGGREGATE-HARDROCK: 3/4" MAXIMUM SIZE CONFORMING TO ASTM C-33. CEMENT: ASTM C-150, TYPE V PORTLAND CEMENT.
- MAXIMUM SLUMP: 5 INCHES. NO ADMIXTURES, EXCEPT FOR ENTRAINED AIR, AND AS APPROVED BY THE ENGINEER. F. WATER/CEMENT RATIO SHALL BE AS FOLLOWS:
- a. fc = 4500 PSI.....w/c = 0.45 b. fc = 4000 PSI.....w/c = 0.5
- c. f'c < 4000 PSI.....w/c = PER MIX DESIGN
- G. FLY ASH: ASTM C618
- H. SLAG: ASTM C989
- I. SILICA FUME: ASTM C1240 LIGHTWEIGHT AGGREGATE: ASTM C330
- AIR ENTRAINING ADMIXTURE: ASTMC260 L. WATER REDUCERS: ASTM C494, TYPE A OR F
- 5. CONCRETE MIXING OPERATIONS, ETC, SHALL CONFORM TO ASTM C-94.
- 6. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 614 AND PROJECT SPECIFICATIONS.
- CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS: A. CONCRETE POURED DIRECTLY AGAINST EARTH: 3 INCHES CLEAR
 - B. STRUCTURAL SLABS: 3/4 INCHES CLEAR, TOP AND BOTTOM (2" TOP; 3/4" BOTTOM IN CORROSIVE ENVIRONMENTS)
 - C. FORMED CONCRETE WITH EARTH BACKFILL: 2 INCHES CLEAR
- ALL REINFORCING BARS, HOLD DOWN BOLTS AND STRAPS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- 9. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE
- 10. CONDUIT OR PIPE SIZE (O.D.) SHALL NOT EXCEED 30% OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.
- 11. MODULUS OF ELASTICITY OF CONCRETE, WHEN TESTED IN ACCORDANCE WITH ASTM C-460, SHALL BE AT LEAST THE VALUE GIVEN BY THE EQUATIONS IN SECTION 8.5.1 OF ACI 318 FOR THE SPECIFIED
- 12. SEE FOUNDATION DETAILS FOR REINFORCEMENT REQUIRED AT CORNERS AND INTERSECTIONS OF CONCRETE WALLS, CONVENTIONAL FOOTINGS AND GRADE BEAMS.

- FRAMING LUMBER, UNO:
- A. 2X AND 4X TO BE DOUGLAS FIR LARCH (DFL) NO. 2 GRADE. SEE FRAMING PLANS AND NOTES FOR WALL STUD REQUIREMENTS.
- B. 6X TO BE DOUGLAS FIR LARCH NO. 1 GRADE. C. ALL LUMBER SHALL HAVE A MOISTURE CONTENT OF LESS THAN 19%.
- 2. BOLT HOLES SHALL BE 1/16" (MAXIMUM) LARGER THAN THE BOLT SIZE. RE-TIGHTEN ALL NUTS PRIOR TO CLOSING IN.
- 3. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR USING BORON BASED PRESERVATIVES OR LSL TREATED WITH ZINC BORATE.
- 4. DO NOT NOTCH JOISTS, RAFTERS OR BEAMS, EXCEPT WHERE SHOWN IN DETAILS. OBTAIN ENGINEER'S APPROVAL FOR ANY HOLES OR NOTCHES NOT DETAILED. (i.e. ALL POSTS TO BE CONTINUOUS UNTIL FULLY SUPPORTED BY BEAM OR FOUNDATION BELOW.)
- WHERE A POST OCCURS AT AN UPPER LEVEL, ADD THE SAME POST DIRECTLY BELOW IT ON THE LOWER LEVELS AND IN BETWEEN FLOOR SHEATHING AND LOWER LEVEL WALL TOP PLATES, ALL POSTS TO BE CONTINUOUS UNTIL FULLY SUPPORTED BY BEAM OR FOUNDATION BELOW.
- 6. FACE NAIL EACH PLY OF MULTIPLE 2X POSTS WITH 16D SINKERS AT 6" O.C.
- 7. PROVIDE MULTIPLE 2X POST AT ALL GIRDER TRUSS AND BEAM BEARING LOCATIONS, WIDTH TO MATCH BEAM OR TRUSS, MIN. (2) 2X UNO.
- 8. CONNECTION HARDWARE SHALL BE SIMPSON OR EQUAL AND MUST BE I.C.C. APPROVED.
- 9. FOR CONNECTIONS NOT DETAILED, PROVIDE FASTENERS PER TABLE 2304.9.1 OF THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE.
- 10. DO NOT NOTCH TOP PLATES OR STUDS EXCEPT AS SHOWN IN DETAILS. OBTAIN ENGINEER'S APPROVAL FOR ANY HOLES OR NOTCHES NOT DETAILED.
- 11. NON-BEARING WALLS SHALL HAVE STUDS SPACED AT 24" O.C. (MAX). REFER TO ARCHITECTURAL DRAWINGS FOR SIZE. TOP PLATES SHALL BE SUCH THAT A 1/2" GAP BETWEEN THE TOP OF THE PLATES AND THE BOTTOM OF THE TRUSSES AND/OR BLOCKING PANELS EXISTS AFTER THE ROOF IS LOADED.
- 12. TYPICAL FASTENER SIZE NOTED IN DRAWINGS: 8d COMMON NAILS = 0.131" DIA X 2 1/2", 10d COMMON NAILS = 0.148" DIA 16d COMMON NAILS = 0.162" DIA 16d SINKER NAILS = 0.148" DIA X3 1/4".
- 13. 16d SINKERS NOTED IN THESE DRAWINGS MAY BE REPLACED WITH 0.131 X 3 1/4" GUN NAILS PER THE FOLLOWING TABLES:

# OF 16d SINKERS	1	2	3	4	5	6	7	8	9	10	11	12
# OF 0.131 X 3 1/4" GUN NAILS	2	3	4	5	6	7	8	9	11	12	13	14
SPACING OF 16d SINKERS	2" 00		4"	OC	6" (ОС	8" OC		10" OC	7	12" (OC
SPACING OF 0.131 X 3 1/4" GUN	1 1/2" (ос	3 1/2	2" OC	5" (ОС	7" OC	8	3 1/2" C	С	10 1/2	"OC

MANUFACTURED BEAMS

- GLUE LAMINATED BEAMS (GLB)
- GLB SHALL BE 24F-V4, (CONTINUOUS AND CANTILEVERED GLB SHALL BE 24F-V8) AND HAVE THE FOLLOWING MINIMUM PROPERTIES: FB=2400 PSI, FV=240 PSI FC (PERPENDICULAR) = 650 PSI
- E=1.800.000 PSI B. ALL BEAMS SHALL BE FABRICATED USING EXTERIOR GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCCA STANDARDS. BEAMS TO BEAR GRADE STAMP AND AITC STAMP AND
- . MOISTURE CONTENT SHALL BE LIMITED TO A MAXIMUM OF 12%.
- D. ALL GLB SHALL HAVE STANDARD CAMBER, UNO. ON PLANS.
- LAMINATED STRAND LUMBER (1.3E OR 1.5E LSL) A. LSL BEAMS SHALL HAVE I.C.C APPROVAL AND HAVE THE FOLLOWING MINIMUM PROPERTIES:
- 1) LSL (1.3E) E = 1,300,000 PSI, FB = 1700 PSI, FV = 400 PSI
- FC (PERPENDICULAR) = 680 PSI, FC (PARALLEL) = 1400 PSI 2) LSL (1.5E) - E = 1,500,000 PSI, FB = 2250 PSI, FV = 400 PSI
- FC (PERPENDICULAR) = 750 PSI, FC (PARALLEL) = 1950 PSI
- B. ALL MULTI-PLY LSL MEMBERS SPECIFIED ON PLANS MAY BE REPLACED WITH SOLID MEMBERS OF EQUAL OR GREATER PROPERTIES WITH EQUAL OR GREATER WIDTH AND DEPTH WITHOUT FURTHER REVIEW.
- LAMINATED VENEER LUMBER (LVL)
- . LVL BEAMS SHALL HAVE I.C.C APPROVAL AND HAVE THE FOLLOWING MINIMUM PROPERTIES
- 1) LVL (1.7E) E = 1,700,000 PSI, FB = 2650 PSI, FV = 285 PSI, FC (PERPENDICULAR) = 750 PSI, FC (PARALLEL) = 3000 PSI
- 2) LVL (1.9E) E = 1,900,000 PSI, FB = 2600 PSI, FV = 285 PSI, FC (PERPENDICULAR) = 750 PSI, FC (PARALLEL) = 2510 PSI
- 3) LVL (2.0E) E = 2.000.000 PSI, FB = 2800 PSI, FV = 285 PSI,
- FC (PERPENDICULAR) = 750 PSI, FC (PARALLEL) = 3000 PSI B. MULTIPLE-PLY LVL BEAMS SHALL BE NAILED TOGETHER AS FOLLOWS:
- 1) PROVIDE (2) ROWS OF 16D SINKERS AT 12" O.C.
- FOR BEAMS ≤ 11 7/8" DEEP.
- 2) PROVIDE (3) ROWS OF 16D SINKERS AT 12" O.C. FOR BEAMS > 11 7/8" DEEP.
- C. ALL MULTI-PLY LVL MEMBERS SPECIFIED ON PLANS MAY BE REPLACED WITH SOLID MEMBERS OF EQUAL OR GREATER PROPERTIES WITH EQUAL OR GREATER WIDTH AND DEPTH WITHOUT FURTHER REVIEW.

4. PARALLEL STRAND LUMBER (PSL)

- A. PSL BEAMS SHALL HAVE I.C.C APPROVAL AND HAVE THE FOLLOWING MINIMUM PROPERTIES:
- E = 2,000,000 PSI, FB = 2900 PSI, FV = 290 PSI FC (PERPENDICULAR) = 750 PSI, FC (PARALLEL) = 2900 PSI

PREFABRICATED WOOD TRUSSES

- 1. PREFABRICATED WOOD ROOF TRUSSES SHALL BE AS DESIGNED BY THE TRUSS MANUFACTURER (INCLUDING BRIDGING SIZE AND SPACING) UNO. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ERECTION DRAWINGS, AND DESIGN CALCULATIONS, SEALED BY AN ENGINEER, REGISTERED IN THE STATE OF THE GOVERNING JURISDICTION, FOR REVIEW PRIOR TO MANUFACTURE. CALCULATIONS AND SHOP DRAWINGS SHALL SHOW ANY SPECIAL DETAILS REQUIRED AT BEARING POINTS. ALL CONNECTORS SHALL HAVE CURRENT I.C.C. APPROVAL.
- 2. TRUSS MANUFACTURER TO DESIGN TRUSSES FOR LATERAL LOAD (LAT. = XXXX) IN POUNDS, AS SHOWN ON
- 3. UNLESS OTHERWISE NOTED, TRUSSES TO BE DESIGNED FOR LOADS INDICATED IN THE DESIGN CRITERIA AND AS FOLLOWS:
- A. TOP CHORD DEAD LOAD = XXX + ADDITIONAL 5 PSF AT OVERFRAMING. B. BOTTOM CHORD DEAD LOAD = XXX. WIND LOAD: WHEN CALCULATING NET UPLIFT REACTIONS, USE MAXIMUM RESISTING DEAD LOAD =
- 4. TRUSS MANUFACTURER TO DESIGN TRUSSES TO SUPPORT MECHANICAL EQUIPMENT AS REQUIRED. ADDITIONAL TRUSSES MAY BE SUPPLIED AS REQUIRED

XXX PSF ON TOP CHORD AND XXX PSF ON BOTTOM CHORD

5. ALL TRUSS TO TRUSS CONNECTORS PER TRUSS MANUFACTURER.

MAY BE USED FOR THE VERTICAL WEB.

- 6. WHERE POST OCCURS ABOVE A MANUFACTURED TRUSS, A VERTICAL WEB SHALL BE PROVIDED UNDER THE POST. THE WEB SECTION AREA SHALL BE EQUAL TO OR LARGER THAN POST SECTION AREA. MULTIPLE 2X4S
- 7. THE TOP CHORD OF ALL TRUSSES SHALL HAVE A SPECIES WITH SPECIFIC GRAVITY EQUAL TO OR GREATER
- 8. TRUSS MANUFACTURER SHALL LIMIT TOTAL LOAD DEFLECTIONS TO LESS THAN L/240 AND LIVE LOAD DEFLECTIONS TO LESS THAN L/360. DEFLECTION SHALL BE LIMITED SO AS NOT TO CREATE A BEARING

CONDITION AT NON-BEARING WALLS. REFER ALSO TO NOTE 11 OF THE WOOD SECTION.

- 9. CONNECTION OF MANUFACTURED TRUSSES FOR UPLIFT SHALL BE PER THE TABLES ON SHEET S1.1.
- 10. TRUSSES SHALL BE DESIGNED TO SUPPORT A 250 POUND CONCENTRATED LOAD AT ANY LOCATION ALONG THE BOTTOM CHORD.

ST	ANDARD TRUSS	ES ⁽²⁾
REACTIONS	TO THE BEARING V	VALL OR BEAM BELOW:
TRUSS TYPE & TOTAL LENGTH	HARDWARE REQUIRED	NAILING REQUIRED
JACK TRUSSES ≤ 10'-0"	NONE REQUIRED	UPLIFT IS RESISTED BY EXISTING NAILED CONNECTION OF TRUSS TO PLATE $^{(1)}$
HIP/COMMON TRUSSES ≤ 30'-0"	NONE REQUIRED	UPLIFT IS RESISTED BY EXISTING NAILED CONNECTION OF TRUSS TO PLATE $^{(1)}$
HIP/COMMON TRUSS $30'-0" \le L \le 50'-0"$	H1 OR H2.5	(6) 8d x 1 1/2" INTO TRUSS (4) 8d x 1 1/2" INTO PLATE
ALL HIP/COMMON DRAG TRUSSES $L \leq 50'\text{-}0"$	H1 OR H2.5	(6) 8d x 1 1/2" INTO TRUSS (4) 8d x 1 1/2" INTO PLATE
HIP/COM. GIRDER 8FT SETBACK L ≤ 30'-0"	H10 OR (2) H2.5	(8) 8d x 1 1/2" INTO TRUSS (8) 8d x 1 1/2" INTO PLATE
HIP/COM. GIRDER 8FT SETBACK $L \le 40'-0"$	HTS20	(12) 10d x 1 1/2" INTO TRUSS (12) 10d x 1 1/2" INTO PLATE & STUD BLW
HIP/COM. GIRDER 8FT SETBACK L $\leq 50'$ -0"	(2) HTS20	(12) 10d x 1 1/2" INTO TRUSS (12) 10d x 1 1/2" INTO PLATE & STUD BLW
ALL OTHER NON-DRAG GIRDER TR $L \le 40'-0"$	H1 OR H2.5	(6) 8d x 1 1/2" INTO TRUSS (4) 8d x 1 1/2" INTO PLATE
ALL OTHER GIRDER TRUSSES L ≤ 50'-0"	H10 OR (2) H2.5	(8) 8d x 1 1/2" INTO TRUSS (8) 8d x 1 1/2" INTO PLATE

AT TRUSSES WHERE THE HARDWARE ABOVE CANNOT BE INSTALLED, PROVIDE AN HTS20 STRAP

HARDWARE

(6) 8d x 1 1/2" INTO TRUSS (4) 8d x 1 1/2" INTO PLATE LTP4 AT 32" OC UNO SEE DETAIL 1/SD-3 FOR STANDARD NAILING REQUIREMENTS

(2) SEE FRAMING PLANS FOR NON-STANDARD UPLIFT HARDWARE

GABLE END WALL TRUSSES

NAILING REQUIRED

31	GENERAL NOTES
S1.1	SCHEDULES AND NOTES
S2	FOUNDATION PLAN
S3	FLOOR FRAMING PLAN
S4	ROOF FRAMING PLAN
S 5	SHEAR WALL PLAN
S5.1	SHEAR WALL PLAN
SD-1	STRUCTURAL DETAILS
SD-2	STRUCTURAL DETAILS

STRUCTURAL SHEATHING

- 1. ALL STRUCTURAL SHEATHING SHALL BE C-D INTERIOR SHEATHING WITH EXTERIOR GLUE OR ORIENTED STRAND BOARD (OSB), EXPOSURE I, AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY SHEATHING WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS. STAGGER JOINTS AND NAILS.
- ROOF SHEATHING AT UNBLOCKED DIAPHRAGM (STANDARD, UNO) 15/32" WOOD STRUCTURAL PANEL: PANEL INDEX = 32/16, UNBLOCKED UNO W/8D COMMON NAILS AT 6" O.C. AT ALL BOUNDARIES AND SUPPORTED EDGES, 12" O.C. FIELD. PANELS LESS THAN 2'-0" IN WIDTH SHALL HAVE ALL EDGES BLOCKED.

WSNTL WOOD SCREWS MAY BE USED IN LIEU OF 10D COMMON NAILS ABOVE. SPACING SHALL BE

- ROOF SHEATHING AT BLOCKED DIAPHRAGM (WHERE NOTED ON PLANS) 15/32" WOOD STRUCTURAL PANEL: PANEL INDEX = 32/16, BLOCKED. NAIL W/ 8D COMMON NAILS AT 4" O.C. AT ALL BOUNDARIES AND SUPPORTED EDGES, 12" O.C. FIELD, UNO ON PLANS.
- 4. FLOOR SHEATHING AT UNBLOCKED DIAPHRAGM (STANDARD, UNO) 23/32" WOOD STRUCTURAL PANEL: T AND G. PANEL INDEX 48/24, UNBLOCKED (UNO.). NAIL WITH 10D COMMON NAILS AT 6" O.C. AT ALL BOUNDARIES AND SUPPORTED EDGES, 12" O.C. FIELD UNO ON PLANS. PANELS LESS THAN 2'-0" IN WIDTH SHALL HAVE ALL EDGES BLOCKED. OPTION: QUIK DRIVE #8
- FLOOR SHEATHING AT BLOCKED DIAPHRAGM (WHERE NOTED ON PLANS) 23/32" WOOD STRUCTURAL PANEL: T AND G, PANEL INDEX = 48/24, BLOCKED. NAIL WITH 16D SINKERS AT 4" O.C. AT ALL BOUNDARIES AND SUPPORTED EDGES, 12" O.C. FIELD UNO ON PLANS. OPTION: QUIK DRIVE #8 X 2 1/4" SCREWS MAY BE USED IN LIEU OF 16D SINKERS ABOVE. SPACING SHALL BE SAME AS SHOWN FOR 10D COMMON NAILS PER I.C.C. REPORT ESR-1472.

SAME AS SHOWN FOR 10D COMMON NAILS PER I.C.C. REPORT ESR-1472.

PER SHEAR WALL SCHEDULE.

SHOP DRAWINGS

- 1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN
- ACCORDANCE WITH CONTRACT DRAWINGS SHALL BE FLAGGED FOR REVIEW.

THE DESIGNING OR SUBMITTING AUTHORITY.

- 3. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM ORIGINAL STRUCTURAL DRAWINGS SHALL BE RED-LINED OR FLAGGED BY SUBMITTING PARTIES.
- 5. THE STRUCTURAL ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO THE ORIGINAL DRAWINGS AT ANY TIME, BEFORE OR AFTER SHOP DRAWING REVIEW. 6. THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL STRUCTURAL DRAWINGS. ITEMS OMITTED OR
- SHOWN INCORRECTLY BUT NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT ARE NOT TO BE CONSIDERED CHANGES TO THE ORIGINAL CONTRACT DRAWING. 7. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY THE OTHERS RESTS WITH
- 8. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP

DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

9. THE CONTRACTOR SHALL PROVIDE (1) FILE COPY OF ALL APPROVED SHOP DRAWINGS TO THE STRUCTURAL ENGINEER.

SPECIAL INSPECTIONS

- PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705 OF THE BUILDING CODE, AS REQUIRED BY THE PERMITTING AGENCY.
- WHERE SPECIAL INSPECTION IS REQUIRED, IT SHALL BE PERFORMED BY A REGISTERED DEPUTY INSPECTOR EMPLOYED BY THE OWNER AND APPROVED BY THE GOVERNING JURISDICTION. COPIES OF THE INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND
- 3. ITEMS REQUIRING SPECIAL INSPECTION:

ARCHITECT/STRUCTURAL ENGINEER FOR REVIEW.

A. POST INSTALLED CONCRETE ANCHORS (PERIODIC)

DEFERRED SUBMITTAL ITEMS

MFR WOOD TRUSSES.

SHEET INDEX SHT# SHEET NAME GENERAL NOTES STRUCTURAL DETAILS SD-2.1 SD-3 STRUCTURAL DETAILS SD-4 STRUCTURAL DETAILS

JOB NO: 1939-005-201 DESIGNED BY: SLB

DRAWN BY: ACM

CONSTRUCTION DOCUMENTS

ISSUED FOR:

DATE: 06/09/20

STRUCTURAL

REVISIONS:

GENERAL NOTES

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4	<u> </u>								
		SHEARWALL SCHEDULE (2, 5, 8, 11, 12, 13)							
		SHEARWA	\LL ^(7, 17)) SHEARWALL SHEARWALL ⁽⁶⁾	SEISMIC	WIND		
	MARK	MATERIAL ^(4, 14)	NAILING	UPPER FLOOR SILL PL CONN ^(1, 18)	ANCHOR BOLTS ⁽³⁾ (UNO ON FOUNDATION PLAN)		WABLE EAR		
	P1	3/8" APA SHEATHING ⁽¹⁵⁾	8dN AT 6" OC EDGES, 12" FIELD ⁽¹⁶⁾	16dS AT 4" OC (STG'D) UNO	1/2" DIA X 10" AT 32" OC	260#/FT	365#/FT		
	P2	3/8" APA SHEATHING ⁽¹⁵⁾	8dN AT 4" OC EDGES, 12" FIELD ⁽¹⁶⁾	16dS AT 3" OC, (STG'D) UNO	1/2" DIA X 10" AT 24" OC	350#/FT	532#/FT		
	P3	3/8" APA SHEATHING ^(9, 15)	8dN AT 3" OC EDGES, 12" FIELD ⁽¹⁶⁾	1/4x6 SCREWS AT 4" OC (STG'D), UNO	1/2" DIA X 10" AT 16" OC	490#/FT	685#/FT		
	P4	3/8" APA SHEATHING ^(9, 15)	8dN AT 2" OC EDGES, 12" FIELD ⁽¹⁶⁾	1/4x6 SCREWS AT 4" OC (STG'D), UNO	1/2" DIA X 10" AT 12" OC	600#/FT	895#/FT		
	P5	15/32" APA SHEATHING ⁽¹⁰⁾	10dN AT 2" OC EDGES, 12" FIELD ⁽¹⁶⁾	1/4x6 SCREWS AT 3" OC (STG'D), UNO	1/2" DIA X 10" AT 9" OC	770#/FT	1078#/FT		

SCHEDULE NOTES:

- SEE DETAIL 7/SD-2 FOR ADDT'L INFO AT UPPER FLOOR SILL PLATE CONNECTION FOR MULTI-STORY PLANS ONLY. DOES NOT
- APPLY TO SINGLE STORY PLANS. SEE PLAN FOR SILL PLATE AND SHEAR CONNECTIONS AT EXTERIOR WALLS.
- OPENINGS IN SHEARWALL SHEATHING SHALL NOT EXCEED 8 INCHES IN ANY DIRECTION FOR A SINGLE OPENING OR THE SUM OF ANY TWO OR MORE OPENINGS ON COMMON OR OVERLAPPING VERTICAL OR HORIZONTAL LINES. OPENINGS NOT GREATER THAN 8 INCHES DO NOT REQUIRE BLOCKING AROUND THE PENETRATION. CONTACT THE ENGINEER OF RECORD
- FOR REQUIREMENTS AT OPENINGS NOT OTHERWISE DETAILED. MINIMUM (2) 1/2" DIA ANCHORS PER SHEAR WALL. SEE FOUNDATION HARDWARE NOTES, NOTE 2 ON THE GENERAL NOTES SHEET, S1. ALL ANCHOR BOLTS SHALL HAVE 3" x 3" x 0.229" PLATE WASHERS.
- APA RATED (STRUCTURAL II) PLYWOOD OR OSB.
- SEE DETAIL 11/SD-2 WHERE WALL FRAMING STEPS OR PERPENDICULAR WALL INTERSECTS SHEAR WALL.
- FOR SHEAR PANELS ON TWO SIDES OF WALL, USE ONE-HALF THE SPACING GIVEN IN THE SCHEDULE FOR SILL PLATE CONNECTION AND ANCHOR BOLT SPACING, UNO.
- DOUBLE SIDED SHEARWALLS SHALL HAVE VERTICAL PANEL JOINTS OFFSET TO FALL ON DIFFERENT STUDS OR USE SINGLE 3" NOMINAL STUDS (MIN) AT JOINTS. AT THE ENDS OF THE SHEARWALL, 4X NOMINAL MEMBERS ARE REQUIRED. NAILS ON EACH SIDE SHALL BE STAGGERED.
- (8) ALL SHEARWALLS REQUIRE DOUBLE 2X TOP PLATES, U.N.O. AT NON-BEARING SHEAR WALLS, SHORTEN STUDS 1/4 INCH TO PROVIDE DEFLECTION CLEARANCE.
- (9) P2, P3 AND P4 SHEARWALLS SHALL REQUIRE THE FOLLOWING:
- A. STAGGER NAILING ALONG PLYWOOD JOINTS AND SILL PLATES.
- B. SINGLE 3" NOMINAL MEMBERS AT ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS. 3" NOMINAL MEMBERS AT SINGLE SIDED SHEARWALL MAY BE CONSTRUCTED W/ (2) 2X MEMBERS FASTENED TOGETHER W/ (2) ROWS OF 16d SINKERS AT 4" OC.
- (10) P5 SHEARWALLS SHALL REQUIRE SINGLE 3" NOMINAL MEMBERS AT ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS (MIN). STAGGER JOINT AND SILL PLATE NAILING.
- (11) ALL SHEARWALL LENGTHS NOTED ON PLAN ARE MINIMUM REQUIRED AND MAY BE INCREASED WITHOUT REVIEW.
- (12) SHEATHING MAY BE PLACED ON EITHER FACE OF DESIGNATED WALL, UNO.
- (13) ALLOWABLE SHEAR CAPACITIES ARE IN ACCORDANCE WITH AF&PA SDPWS TABLE 4.3A WITH APPLICABLE OMEGA FACTORS
- 14) APA SHEATHING AND GYPSUM SHEATHING MAY BE INSTALLED WITH THE LONG OR SHORT DIRECTION PERPENDICULAR TO THE FRAMING. WHERE APA SHEATHING IS INSTALLED WITH THE SHORT DIRECTION PERPENDICULAR TO THE FRAMING, THE FRAMING MUST BE 16" ON CENTER (MAX). WHERE GYPSUM SHEATHING IS INSTALLED WITH THE SHORT DIRECTION PERPENDICULAR TO THE FRAMING ALL PANEL EDGES MUST BE BLOCKED AND NAILED.
- (15) 3/8" SHEATHING MAY BE REPLACED WITH 7/16" OR 15/32" SHEATHING WITHOUT ADDITIONAL REVIEW.
- (16) ALL VERTICAL AND HORIZONTAL PANEL EDGES TO BE BLOCKED AND NAILED. (17) STUDS SHALL BE 24" OC (MAX). FOR 3/8" AND 7/16" SHEATHING, FIELD NAILING SHALL BE REDUCED TO 6" OC WHERE STUD
- SPACING IS GREATER THAN 16" OC. (18) SILL PLATE CONNECTORS SHALL BE PER SHEAR TRANSFER DETAIL SPECIFIED ON PLANS.

HOLDOWN/STRAP SCHEDULE(1,2) EMBED AT FND AND , CONN TO (2) 2X STUD, UNO(3, 6, 10) HD/STRAP OR ANCHOR BOLT EXTEND STRAP 16" MIN. EA. END W/ (13) 8dN TO (2) 2X CS16 STUD ABOVE AND BELOW FLOOR FRAMING EXTEND STRAP 16" MIN. EA. END W/ (13) 8dN TO (2) 2X (2) CS16 STUD ABOVE AND BELOW FLOOR FRAMING EXTEND STRAP 25" MIN. EA. END W/ (28) 16d SINKERS CMSTC16 N/A TO (2) 2X STUD ABOVE AND BELOW FLOOR FRAMING EXTEND STRAP 32" MIN. EA. END W/ (33) 16dN TO (3) 2X CMST14 STUD ABOVE AND BELOW FLOOR FRAMING EXTEND STRAP 40" MIN. EA. END W/ (42) 16dN TO (3) CMST12 2X STUD ABOVE AND BELOW FLOOR FRAMING LSTHD8^(4,11) 8" EMBED (20) 16d SINKERS STHD10^(4,11) 10" EMBED (24) 16d SINKERS (30) 16d SINKERS STHD14^(4,11) 14" EMBED SSTB24 W/ 21" EMBED⁽¹²⁾ (26) 16dN X 2 1/2" NAILS SSTB24 W/ 21" EMBED⁽¹²⁾ (6) SDS 1/4 X 2 1/2 SCREWS W/ MIN (2) 2X POSTS HDU2 SSTB24 W/ 21" EMBED⁽¹²⁾ (10) SDS 1/4 X 2 1/2 SCREWS W/ MIN (2) 2X POSTS SSTB24 W/ 21" EMBED⁽¹²⁾ (14) SDS 1/4 X 2 1/2 SCREWS W/ MIN (2) 2X POSTS (20) SDS 1/4 X 2 1/2 SCREWS W/ MIN (3) 2X POSTS SSTB34 W/ 29" EMBED⁽¹³⁾ I" DIA AB W/ 9" MIN EMBED W/ (30) SDS 1/4 X 2 1/2 SCREWS W/ MIN 4X8 POST⁽⁹⁾ MIN 28" SQ x 14" DEEP FTG⁽⁸⁾ 1" DIA AB W/ 10" MIN EMBED W/ (36) SDS 1/4 X 2 1/2 SCREWS W/ MIN 4X8 POST⁽⁹⁾ MIN 30" SQ X 15" DEEP FTG⁽⁷⁾

SCHEDULE NOTES:

- (1) HD/STRAP SHALL BE SIMPSON OR EQUAL W/ ICC APPROVAL. ALL SUBSTITUTES SHALL BE
- REVIEWED BY THE ENGINEER OF RECORD BEFORE INSTALLATION. (2) FIXED-LENGTH STRAPS SHALL BE INSTALLED WITH AN EQUAL LENGTH OVERLAPPING
- CONNECTED MEMBERS AND AN EQUAL NUMBER OF FASTENERS IN EACH MEMBER.
- (3) STITCH NAIL EACH STUD AT MULTIPLE 2x STUDS TOGETHER WITH 16d SINKERS AT:
- 4" OC FOR P3 AND P4 SHEAR WALLS 6" OC FOR ALL OTHER SHEAR WALLS
- (4) FOR CONCRETE SPALLS LESS THAN 4", THERE IS NO LOAD REDUCTION AND NO FURTHER REVIEW BY EOR IS REQUIRED.
- (5) SEE DETAIL 4/SD-2 FOR ADDL CRITERIA AT UPPER FLOOR STRAPS (WHERE OCCURS).
- (6) EDGE NAIL SHT'G TO EA MEMBER OF MULTPLE POST, OFFSET 1/2 SPACING BTWN MEMBERS. (7) ASTM F1554-55 BOLT W/ HEAVY SQUARE NUT OR 1/4 X 1 3/4 X 1 3/4 PLATE WASHER REQUIRED FOR FULL LOAD. REDUCE ALLOWABLE LOAD TO 13180 LBS FOR ASTM GRADE 36 BOLT.
- MINIMUM EMBEDMENT IS FROM TOP OF FOOTING. (8) ASTM GRADE 36 BOLT W/ SQUARE OR HEAVY HEX HEAD OR NUT REQUIRED.
- MINIMUM EMBEDMENT IS FROM TOP OF FOOTING. PROVIDE 6X8 POST AT 2X6 WALLS, MULTIPLE STUDS NOT ALLOWED.
- (10) END POST TO BE FULL HEIGHT MEMBERS, UNO.
- (11) STRAPS MAY BE PLACED ON EITHER FACE OF DESIGNATED WALL AND ARE NOT REQUIRED TO
- OCCUR ON SAME FACE AS SHEATHING, UNO. (12) AT GARAGE STEMWALL LOCATIONS USE SSTBL.
- (13) WHEN SLAB AND FOOTINGS ARE PLACED AS A MONO-POUR, SSTB28 WITH 25" EMBEDMENT MAY BE SUBSTITUTED FOR THE SSTB34 SPECIFIED.

FOUNDATION NOTES:

- A. AT INTERIOR BEARING WALLS, WITHOUT DEEPENED FOOTINGS, USE 1/2" DIA TITEN HD HIGH STRENGTH SCREW ANCHORS IN LIEU OF ANCHOR BOLTS.
- B. SEE DETAIL 1/SD-1 FOR PERIMETER FOOTING EMBEDMENT DEPTH.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

FRAMING NOTES:

- ALL EXTERIOR WALLS AND INTERIOR BEARING AND SHEAR WALLS TO BE MIN 2x4 AT 16" O.C. DFL STUD GRADE, UNO. SEE FRAMING PLANS FOR NON-TYPICAL STUD SIZE AND SPACING.
- TRIMMER / KING STUD SCHEDULE, UNO.

THINNETT, THIS OF SOME SOLE, SING:				
	OPENING SPAN (L)	TRIMMERS	KING STUDS	
S	L < 6'-0"	1	1	
2x4 WALLS	6'-0" ≤ L < 10'-0"	2	2	
2x4	10'-0" ≤ L < 18'-0"	2	3	
S	L < 8'-0"	1	1	
2x6 WALLS	8'-0" ≤ L < 12'-0"	2	2	
2x6	12'-0" ≤ L < 20'-0"	2	3	

- BLOCKED DIAPHRAGM SEE STRUCTURAL GENERAL NOTES SHEET S1.
- FOR TYPICAL OVERFILL FRAMING WHERE REQUIRED BY TRUSS SHOP DRAWINGS, SEE DETAILS 4/SD-3 OR 5/SD-3.
- INTERIOR BEARING WALLS
- BEAM AND HEADER SIZES INDICATED ON THIS PLAN ARE MINIMUM. LARGER SIZES OR HIGHER GRADE LUMBER MAY BE SUBSTITUTED.
- TOP PLATE SPLICES PER DETAIL 3/SD-2, UNO.
- SEE DETAIL 8/SD-2 FOR ADDITIONAL FRAMING REQUIREMENTS.

LEDGER & HANGER SCHEDULE:

UNLESS OTHERWISE NOTED 2X LEDGERS WHERE DETAILED SHALL BE AS FOLLOWS:

		SPAN (L)	JSS SPACING (MAX)	LEDGER AND NAILING(1,2,6,10,11)	MIN HANGER, UNO ^(3,4,5,11)
		1 < 01 011	16" O.C.	2X6 W/ (3) 16d AT 16"OC	LUS24/JUS24
		L ≤ 8'-0"	24" O.C.	2X8 W/ (5) 16d AT 24"OC	LUS24/JUS24
LOAD		1 < 161.011	24" O.C.	2X8 W/ (5) 16d AT 16"OC	LUS26/JUS26
Ä		L ≤ 16'-0"	24 U.C.	2X12 W/ (8) 16d AT 24"OC	LUS26/JUS26
ROOF				2X12 W/ (8) 16d AT 16"OC	LUS28/JUS28
		L ≤ 24'-0"	24" O.C.	2X12 W/ 2 COLUMNS OF (8) 16d AT 24"OC	HUS28/HUS28
			16" O.C.	2X8 W/ (5) 16d AT 16"OC	LUS46/JUS46
OAD	BER	L ≤ 10'-0"	24" O.C.	2X10 W/ 2 COLUMNS OF (6) 16d AT 24"OC	LUS46/JUS46
-LOOR LOAD	4x MEMBER	1 < 00 01	24" O.C.	2X10 W/ 2 COLUMNS OF (6) 16d AT 16"OC	LUS48/JUS48
正	7	L ≤ 20-0"	24" O.C.	2X12 W/ 2 COLUMNS OF (8) 16d AT 24"OC	HUS48/HUS48
			16" O.C.	2X8 W/ (5) 16d AT 16"OC	LUS26/JUS26
OAD	BER	L ≤ 10'-0"	24" O.C.	2X10 W/ 2 COLUMNS OF (6) 16d AT 24"OC	LUS26/JUS26
FLOOR LOAD	2x MEMBER	1 < 00 01	24" O.C.	2X10 W/ 2 COLUMNS OF (6) 16d AT 16"OC	LUS28/JUS28
正	2	L ≤ 20-0"	24" O.C.	2X12 W/ 2 COLUMNS OF (8) 16d AT 24"OC	HUS28/HUS28
			16" O.C.	2X10 W/ (2) 1/4"x3" SCREWS AT 16" OC	LUS26/JUS26
OAD	BER	L ≤ 10'-0"	24" O.C.	2X10 W/ 2 COLUMNS OF (2) 1/4"x3" SCREWS AT 24" OC	LUS26/JUS26
DECK LOAD	2x MEMBER	I < 15 0"	24" O.C.	2X10 W/ 2 COLUMNS OF (2) 1/4"x3" SCREWS AT 16" OC	LUS28/JUS28
i	١٧	L ≤ 15-0"	24" O.C.	2X10 W/ 2 COLUMNS OF (3) 1/4"x3" SCREWS AT 24" OC	HUS28/HUS28

SCHEDULE NOTES:

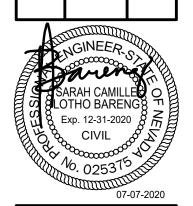
- (1) TWO COLUMNS OF FASTENERS REQUIRE MIN SUPPORTING MEMBER RECEIVING FASTENERS OF 3" OR (2)2X IN WIDTH (ENDS OF 4X2 OR DOUBLE TRUSSES ARE
- ACCEPTABLE). SPACE FASTENERS MIN 1" APART IN EACH DIRECTION. (2) SPACING SHOWN EQUALS SPACING OF FRAMING MEMBERS RECEIVING FASTENERS.
- (3) HANGERS LISTED IN ORDER ARE BY SIMPSON STRONG-TIE AND USP, RESPECTIVELY. (4) LISTED HANGERS ARE MINIMUM HANGERS REQUIRED WHERE NOT OTHERWISE NOTED
- ON THE STRUCTURAL DRAWINGS. (5) SPACING SHOWN FOR HANGERS IS SPACING OF THE FRAMING MEMBER SUPPORTED BY THE HANGER.
- (6) LEDGER MATERIAL SHALL BE DFL #2 OR BETTER UNO. LEDGER AT DECK SHALL BE PRESSURE-PRESERVATIVE TREATED OR NATURALLY DURABLE WOOD.
- (7) PROVIDE THA218 (MIN) HANGER FOR ROOF TRUSS TO BEAM CONNECTIONS FOR ALL BEAM DEPTHS GREATER THAN 10 INCHES.
- (8) PROVIDE THA418 (MIN) HANGER FOR FLOOR TRUSS TO BEAM CONNECTIONS FOR ALL BEAM DEPTHS GREATER THAN 10 INCHES.
- (9) PROVIDE THA422 (MIN) HANGER FOR FLOOR TRUSS TO BEAM CONNECITONS FOR ALL BEAM DEPTHS GREATER THAN 18 INCHES. (10) ALL SIMPSON SCREWS NOTED SHALL BE STRONG DRIVE SDS SCREWS.
- ALL USP SCREWS NOTED SHALL BE WS SCREWS.
- (11) HANGERS AND FASTENERS WITH EXTERIOR EXPOSURE SHALL BE STAINLESS STEEL, UNLESS NOTED OTHERWISE.

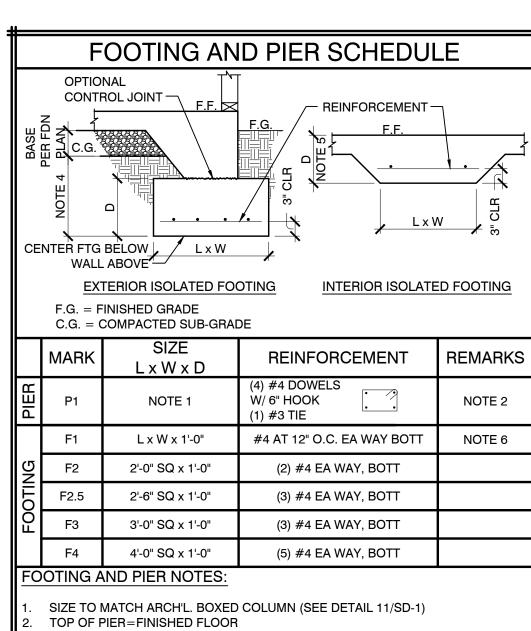
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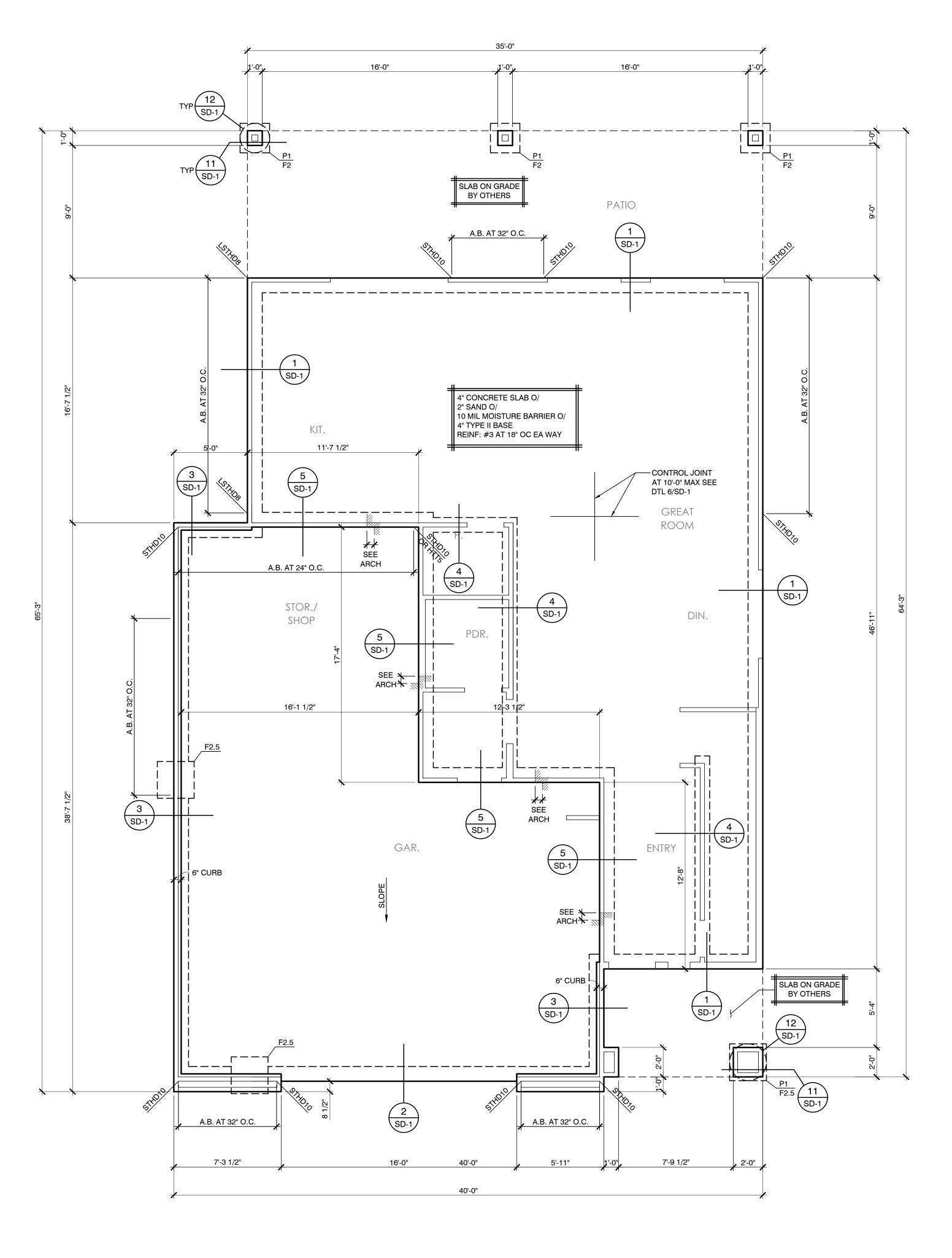
AND NOTES

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- TIES SHALL HAVE 1 1/2" COVER & BE LOCATED 2" FROM TOP OF PIER
- EMBEDMENT BELOW COMPACTED SUB-GRADE PER DETAIL 1/SD-1
- SEE DETAIL 4/SD-1 FOR MINIMUM EMBEDMENT DEPTH FROM TOP OF SLAB
- OR LOWEST ADJACENT COMPACTED SUBGRADE SIZE TO MATCH BOX COLUMN + 6" EA. SIDE



FOUNDATION PLAN

1/4"=1'-0"

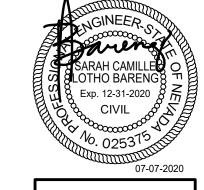
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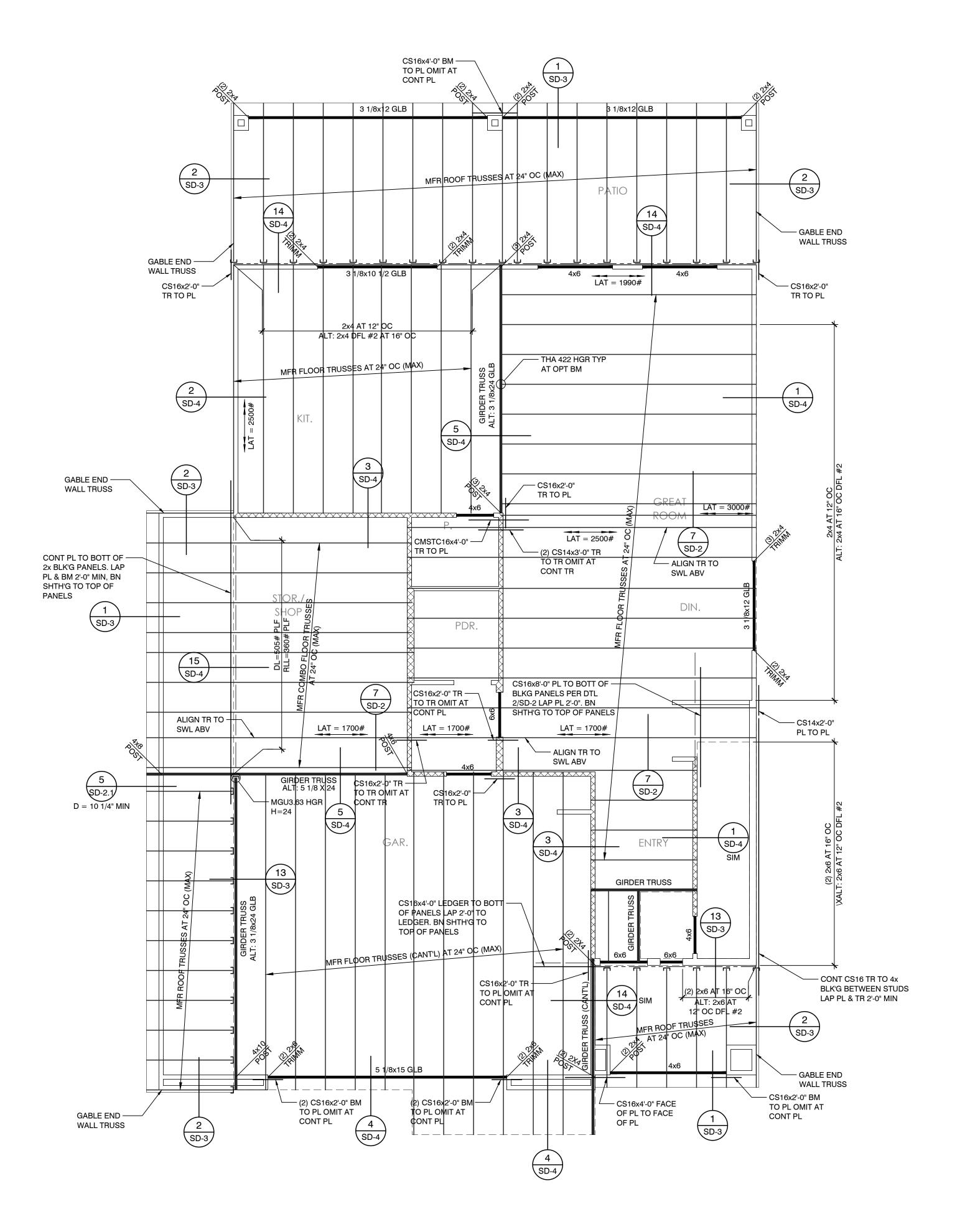
SHEET TITLE: FOUNDATION PLAN

REVISIONS:

L. R. NELSON CONSULTING ENGINEERS	6765 West Ru Las Veg	STRUCTURAL SURVEY SURVEY
ASSURED REAL ESTATE	HENDERSON, NV	MILAN - LOT 5



SEE SHEET S1.1 FOR FOUNDATION NOTES AND HOLDOWN SCHEDULE



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FRAMING PLAN

REVISIONS:

ASSURED REAL ESTATE HENDERSON, NV



S3

MFR JACK TRUSSES AT 24" OC (TYPICAL 3 SIDES) SD-3 CS16x2'-0" — PL TO PL 4x6 1 SD-3 1 SD-3 GIRDER TRUS\$ MBR. CL. LAT = 1550# SD-2 1 SD-3 1 SD-3 1B SD-2 1B SD-2 CS16x2'-0" PL TO PL LAT = 1750# LAU. BA. 2 GIRDER TRUSS LAT = 1050# CS16x2'-0"
TR TO PL GIRDER TRUSS BR.2 SD-3 1 SD-3 MFR JACK TRUSSES AT 24" OC (TYPICAL 3 SIDES) ED LAT = 1000# 1 SD-3 — CS16x2'-0" TR TO P**կ** 9 SD-3 3 14 SD-3 SD-3 — GABLE END WALL TRUSS MFR JACK TRUSSES AT 24" OC (TYPICAL 3 SIDES)

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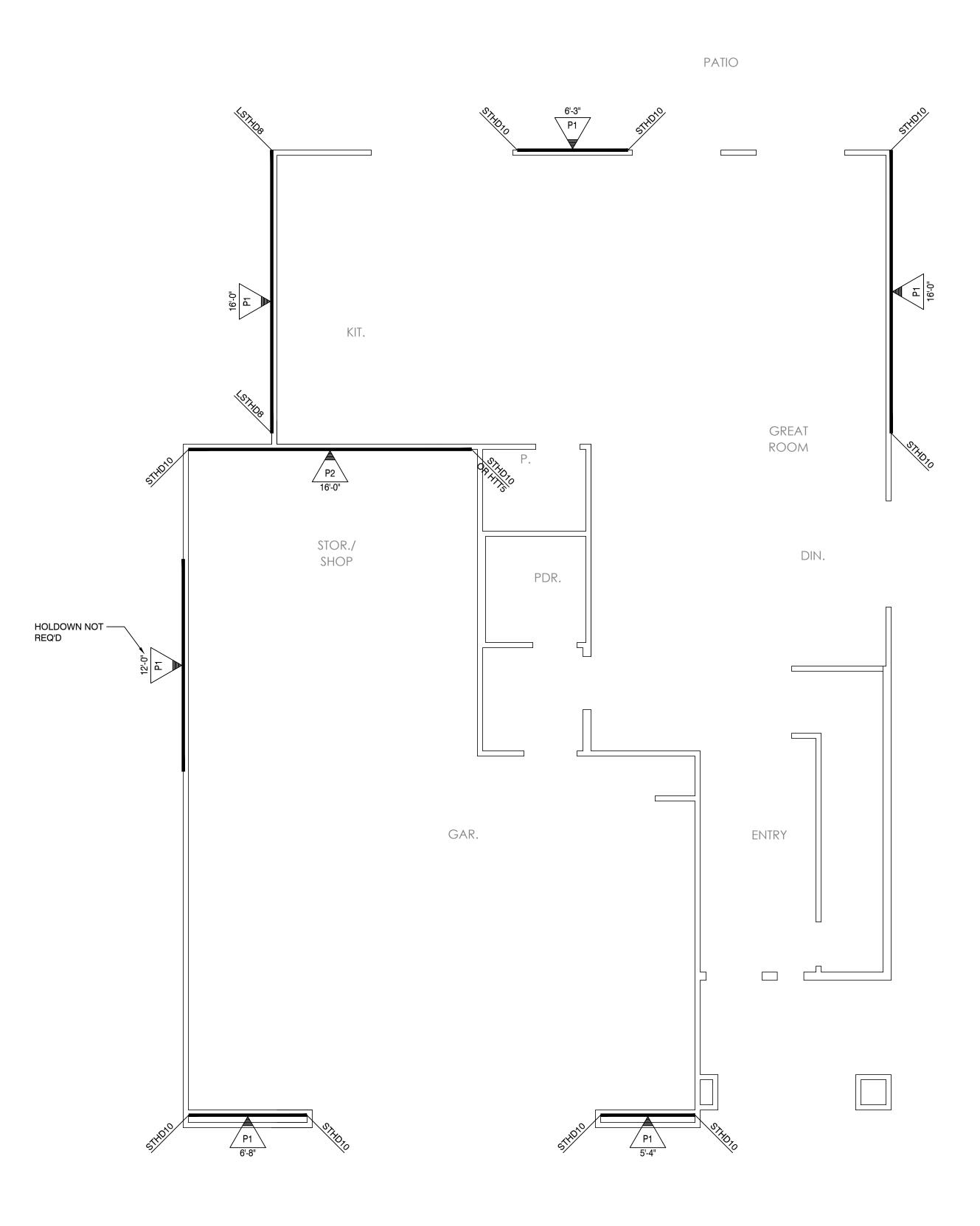


S4

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SHEAR WALL PLAN

REVISIONS:



ASSURED REAL ESTATE

L. R. NELSON CONSULTING ENGINEERS

CIVIL R. NELSON CONSULT ENGINEERS

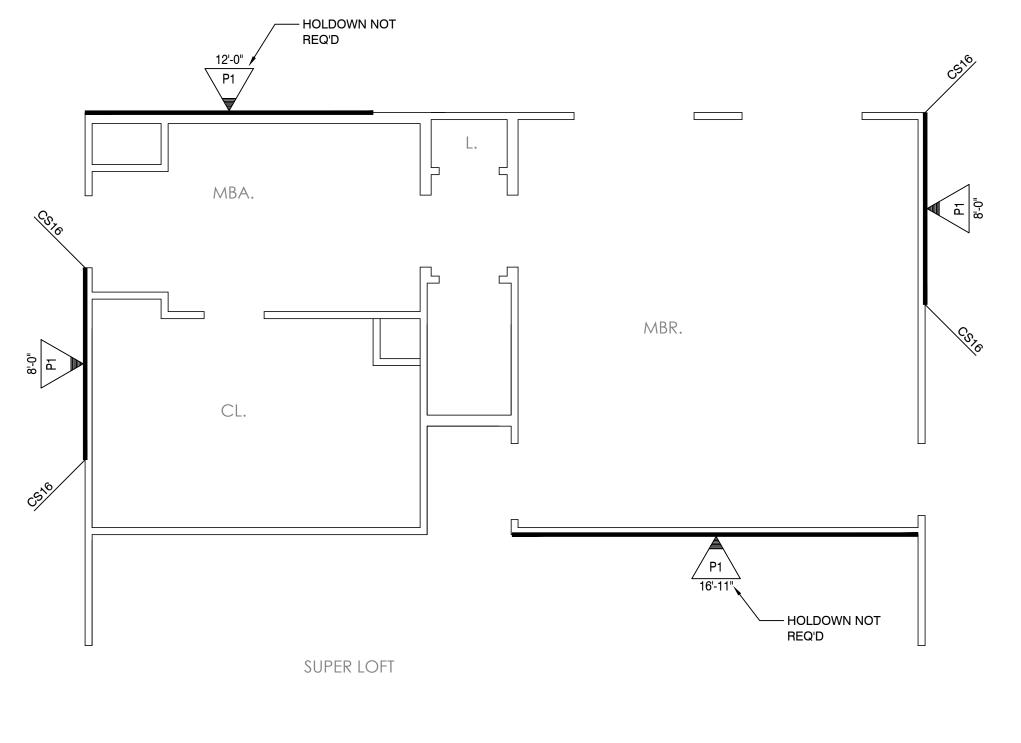
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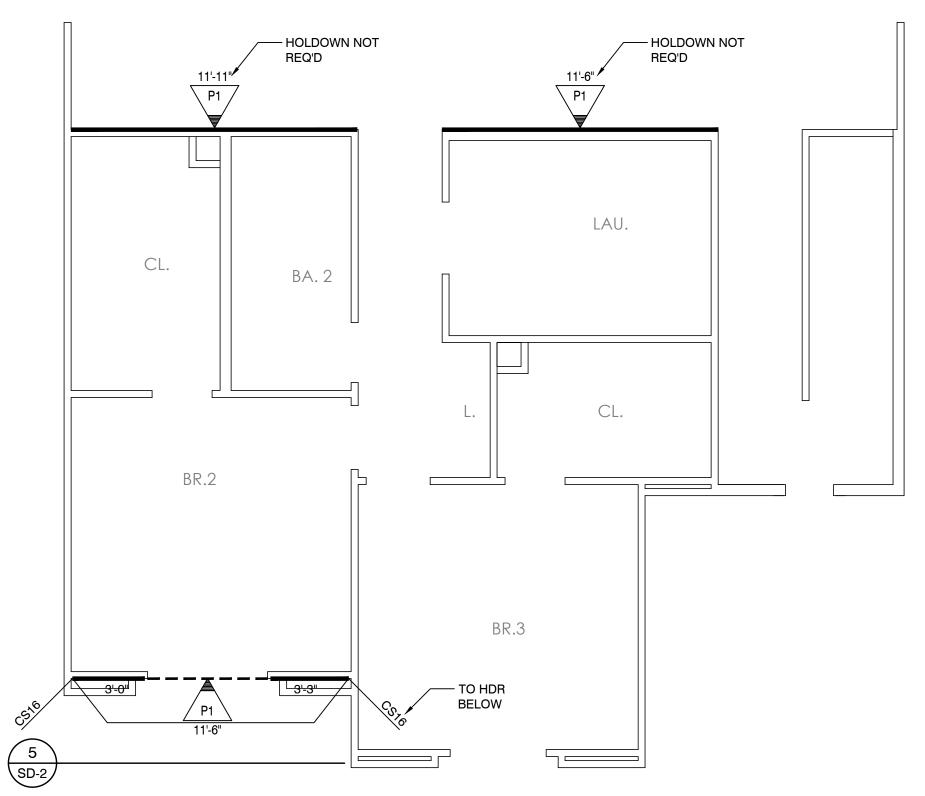
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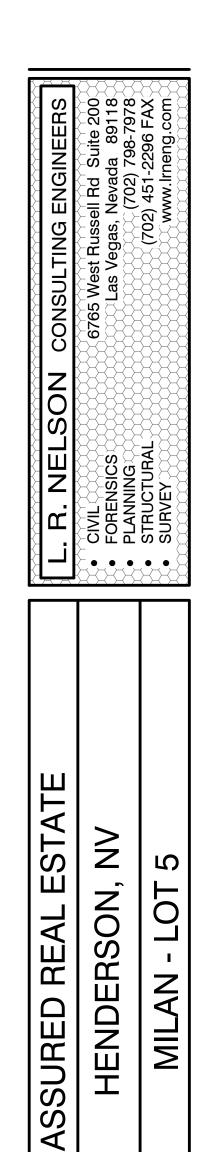
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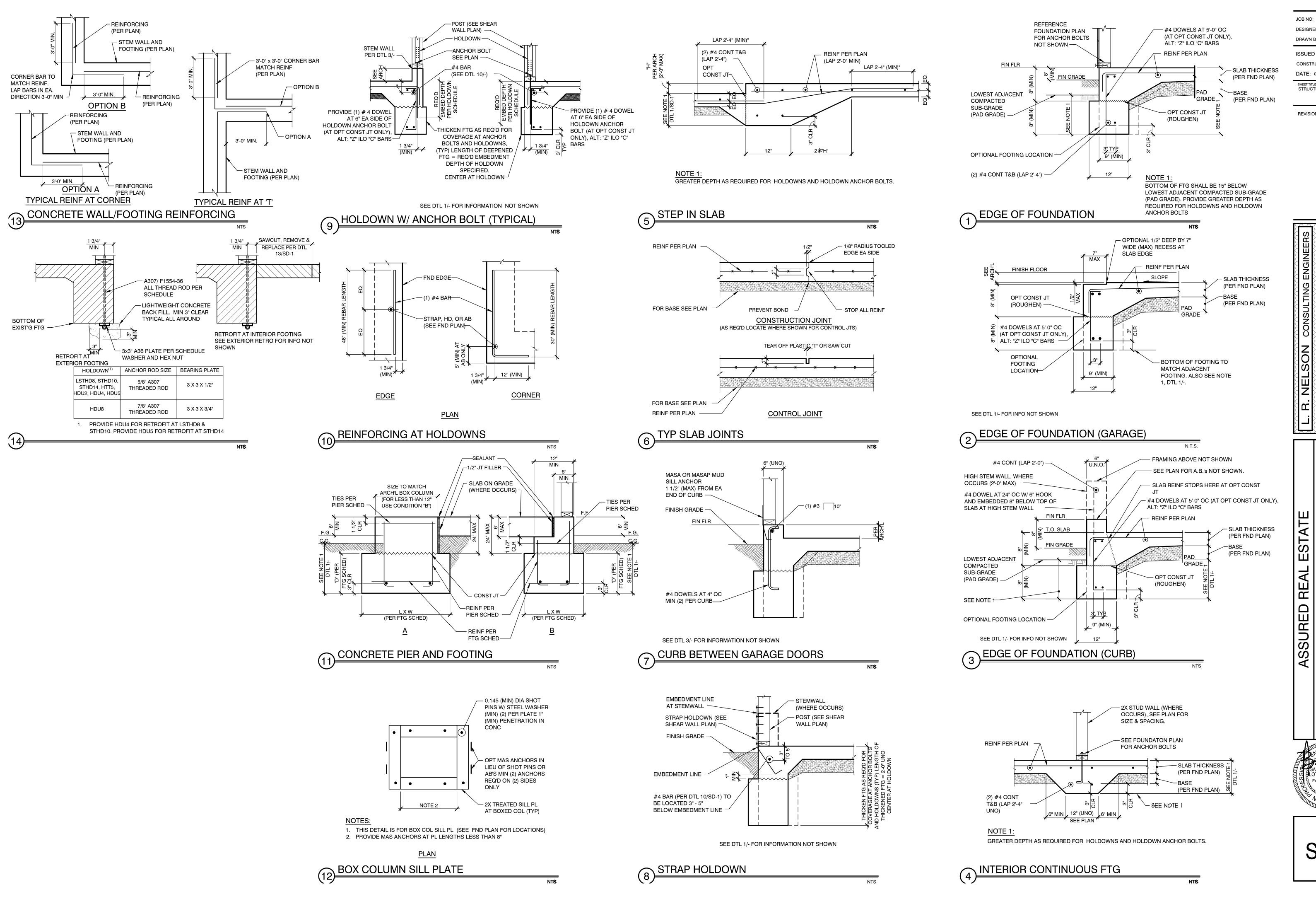
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SHEAR WALL PLAN

REVISIONS:









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DATE: 06/09/20

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STRUCTURAL DETAILS

REVISIONS:

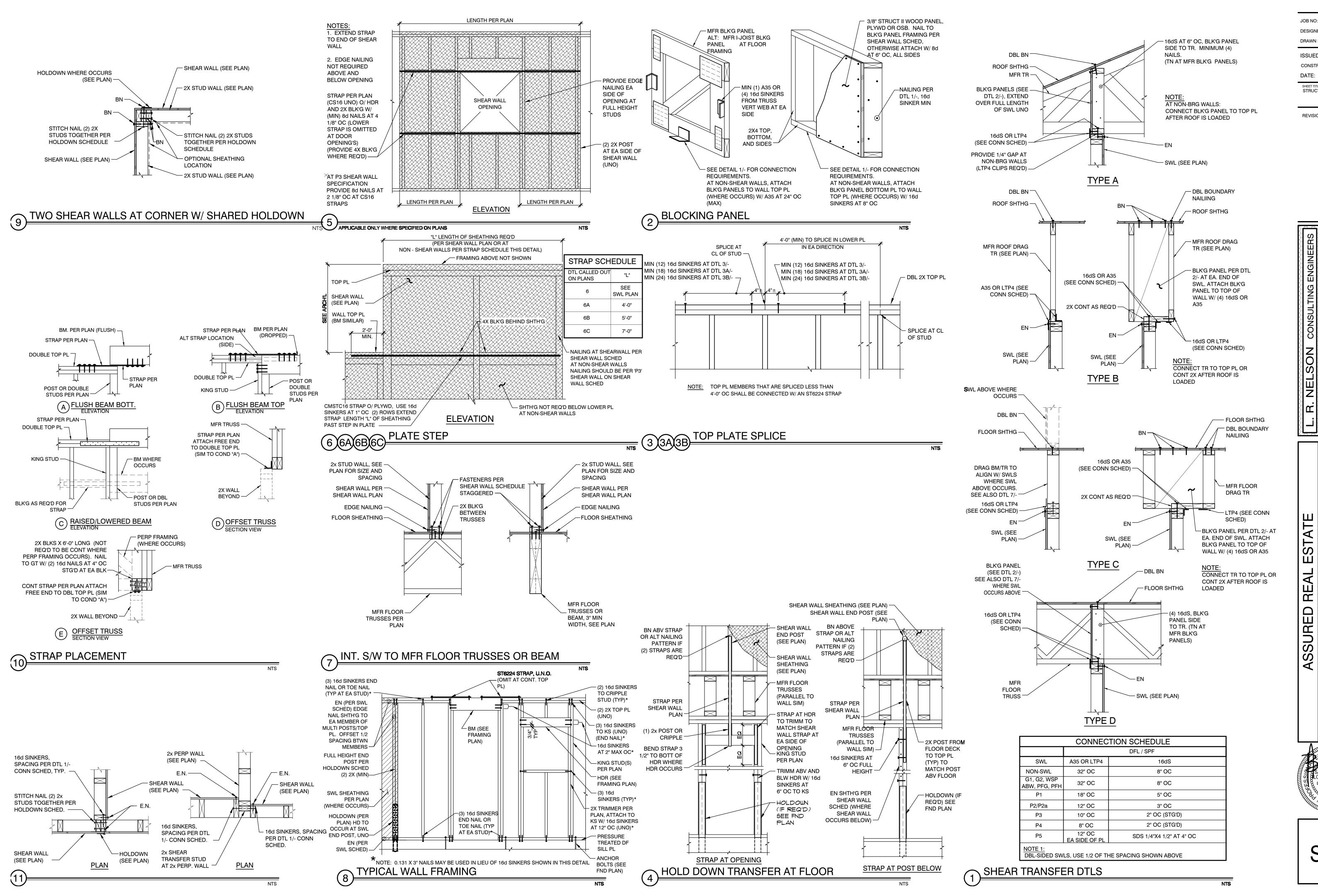
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SD-1



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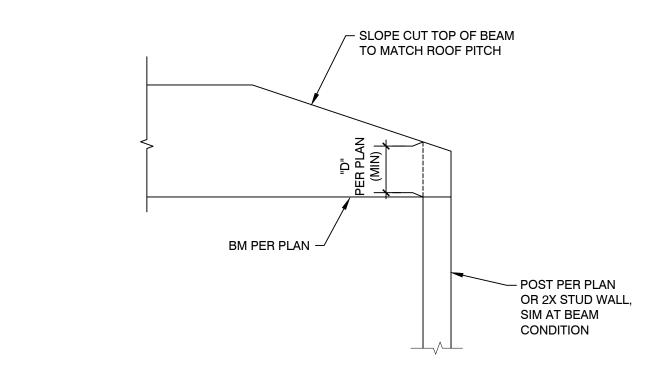
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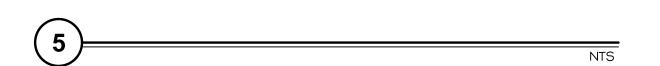
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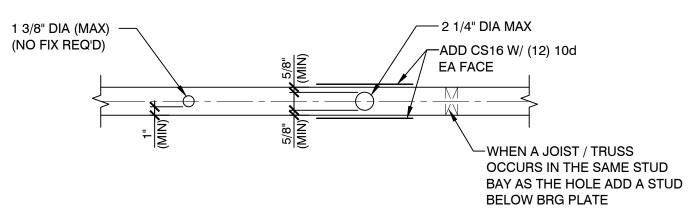
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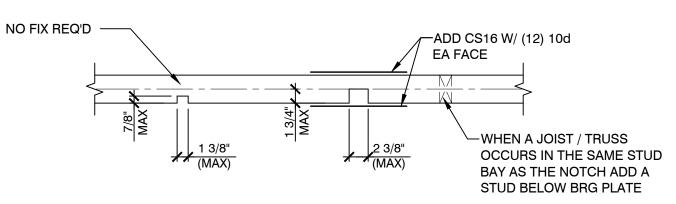
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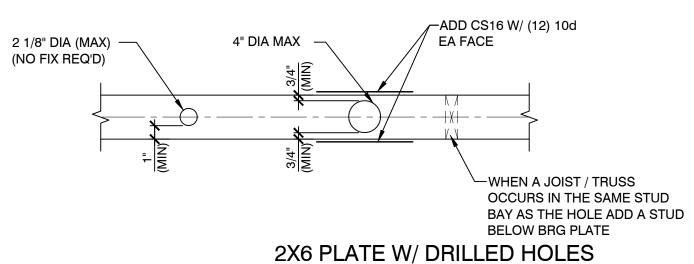


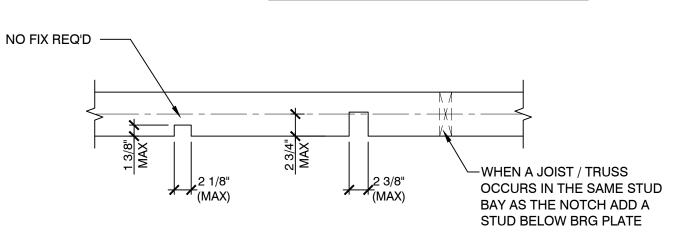


2X4 PLATE W/ DRILLED HOLES



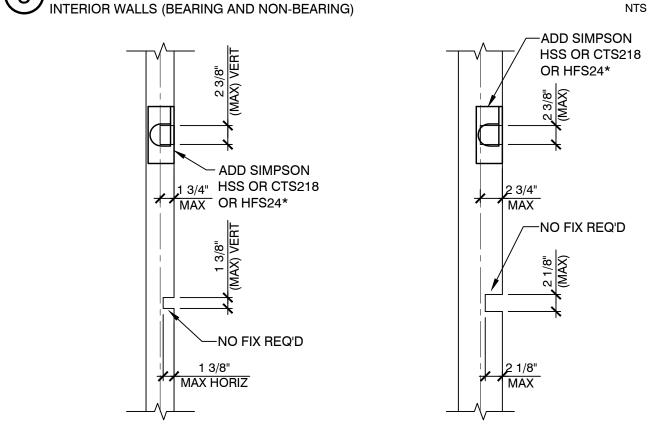
2X4 PLATE W/ NOTCHES



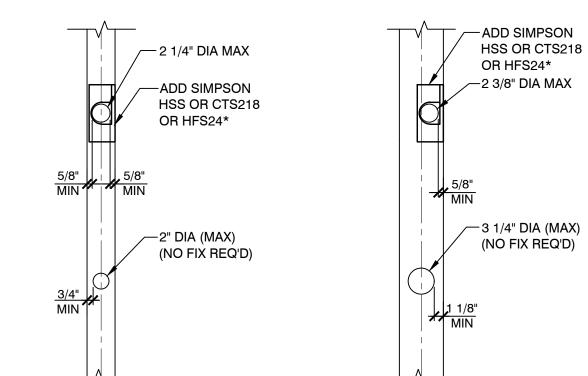


2X6 PLATE W/ NOTCHES

ALLOWABLE HOLES AND NOTCHES IN PLATES

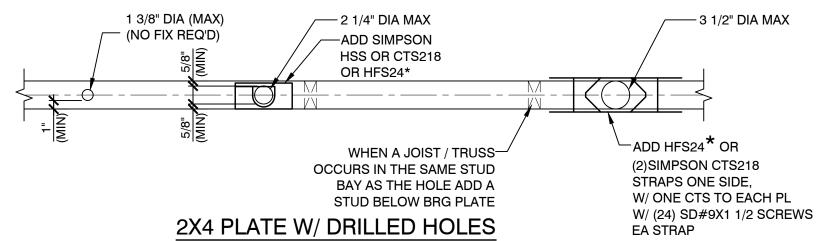


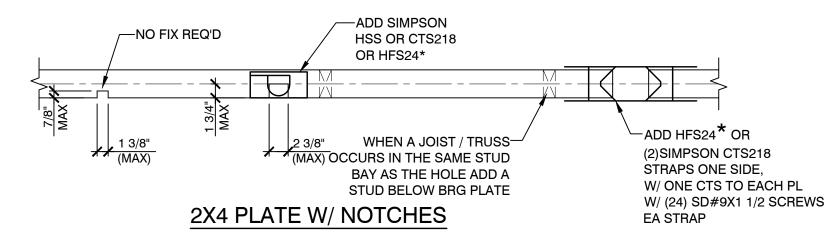
2X6 STUD W/ NOTCHES 2X4 STUD W/ NOTCHES

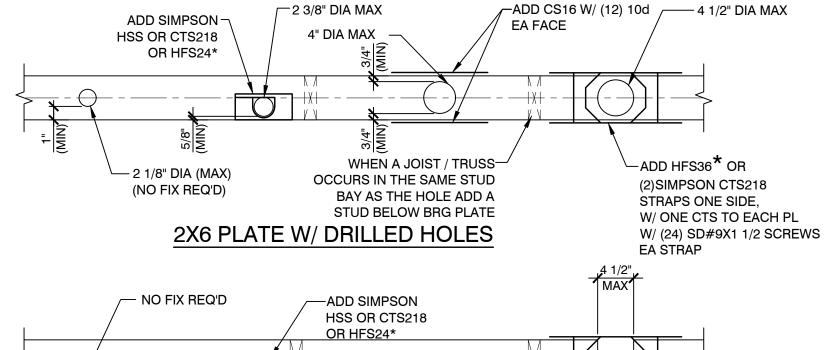


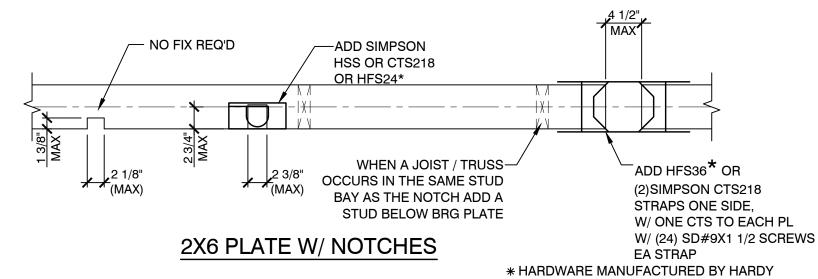
2X4 STUD W/ DRILLED HOLES 2X6 STUD W/ DRILLED HOLES



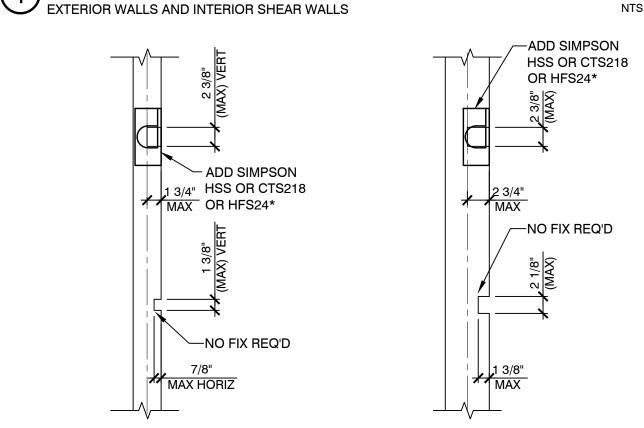




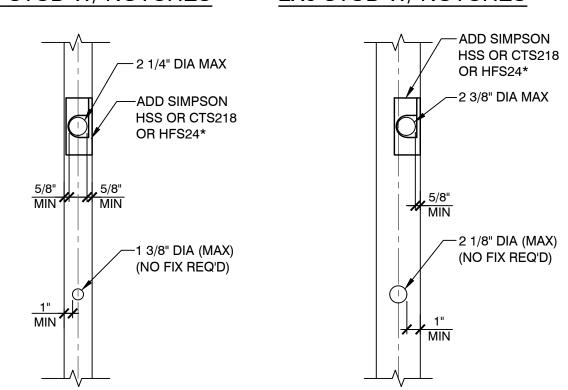




FRAMES SEE MFR PRODUCT CATALOG ALLOWABLE HOLES AND NOTCHES IN PLATES



2X4 STUD W/ NOTCHES 2X6 STUD W/ NOTCHES



2X4 STUD W/ DRILLED HOLES 2X6 STUD W/ DRILLED HOLES

ALLOWABLE HOLES AND NOTCHES IN STUDS EXTERIOR WALLS, INTERIOR SHEAD WALLS AND MOTCHES IN STUDS NTS

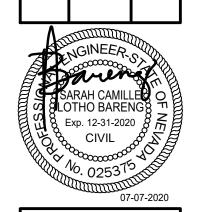
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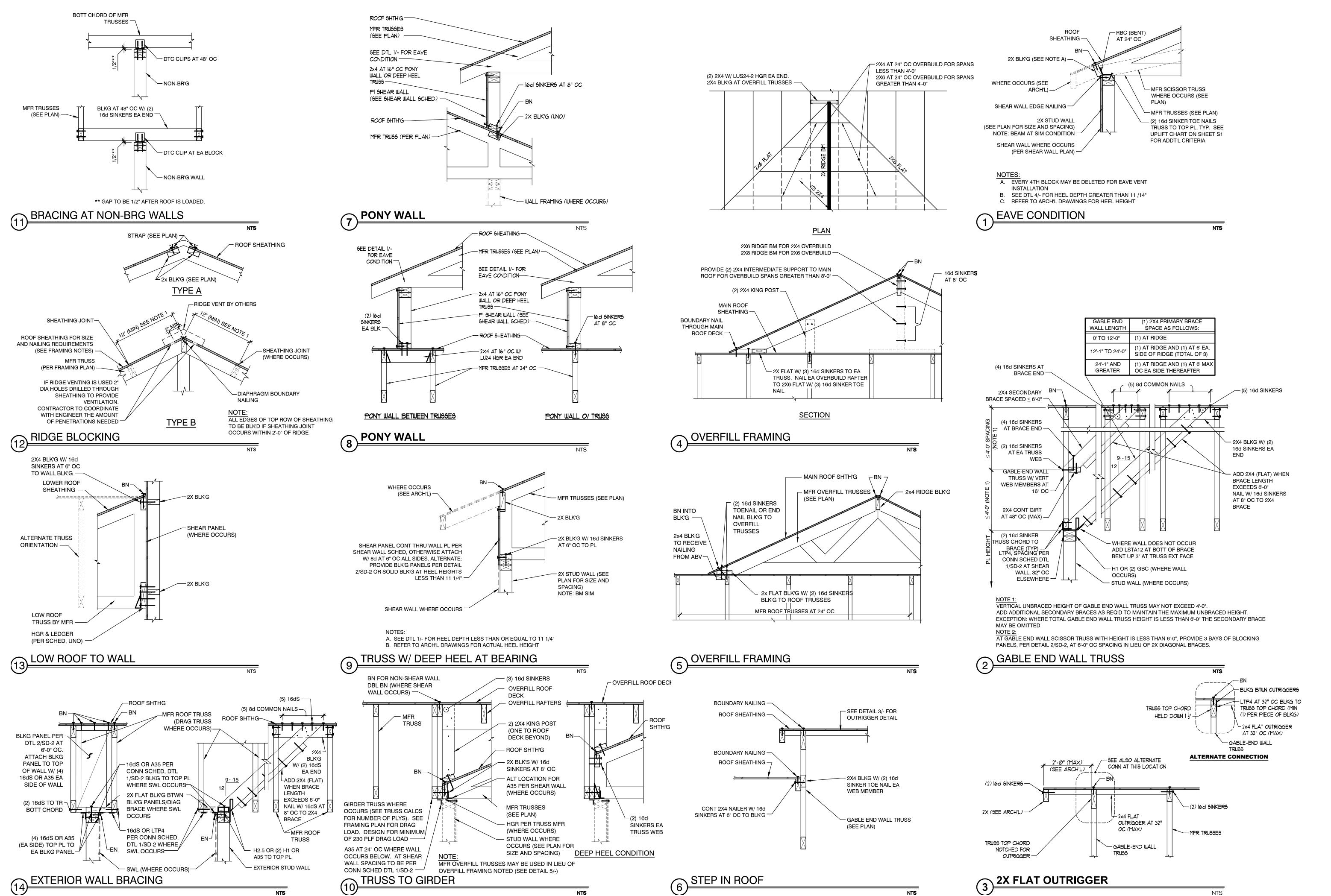
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REVISIONS:

ESTATE \geq HENDERSON, ASSURED REAL MILAN



SD-2.1



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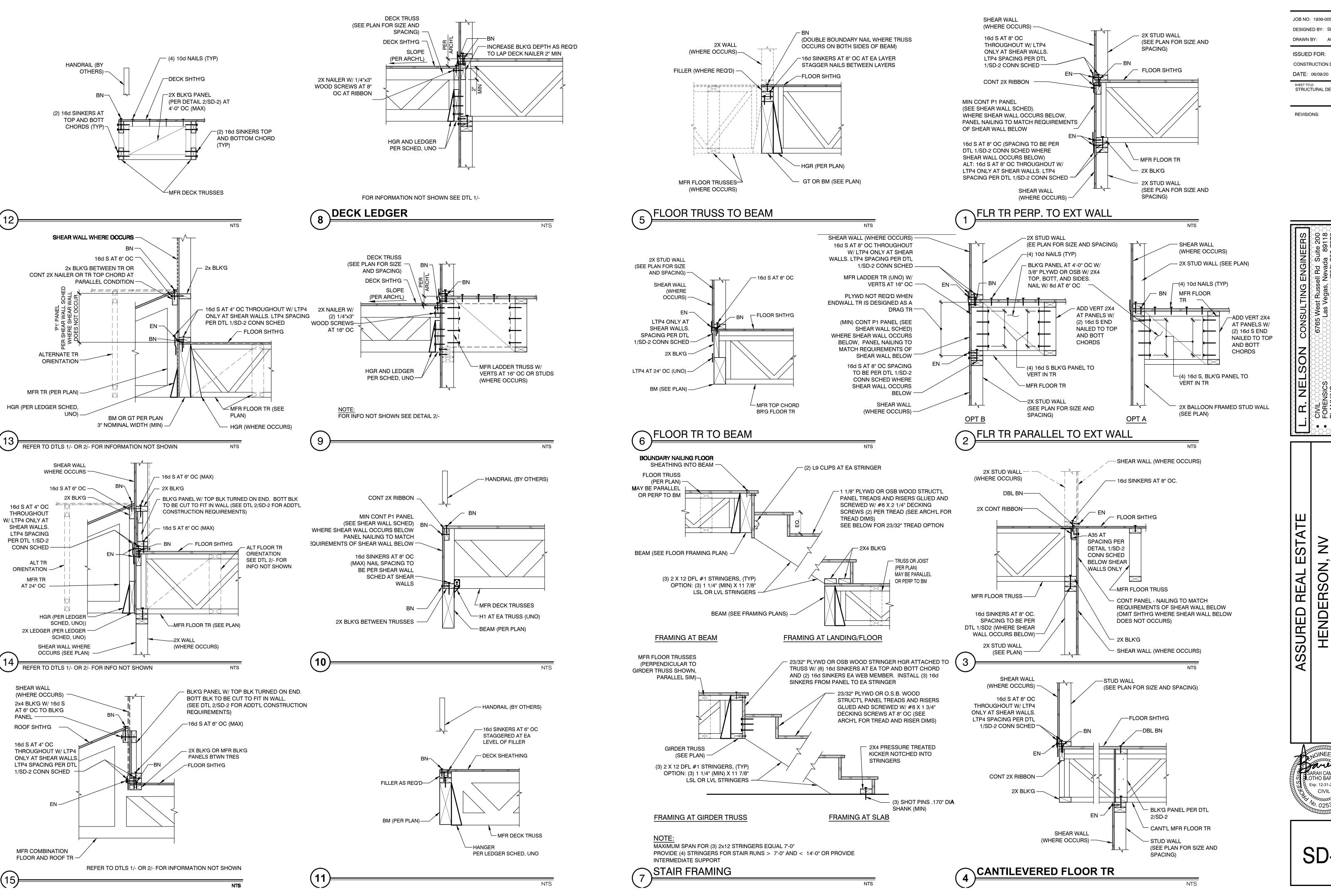
REVISIONS:

L. R. NELSON CONSULTING ENGINEERS
CIVIL
FORENSICS
FORENSICS
PLANNING
STRUCTURAL
SURVEY
SURVEY

ASSURED REAL ESTATE HENDERSON, NV

SARAH CAMILLEO ON BLOTHO BARENGS TO CIVIL ON O. 0253 TO 07-07-2020

SD-3



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TAT \geq HENDERSON, RE, SURED