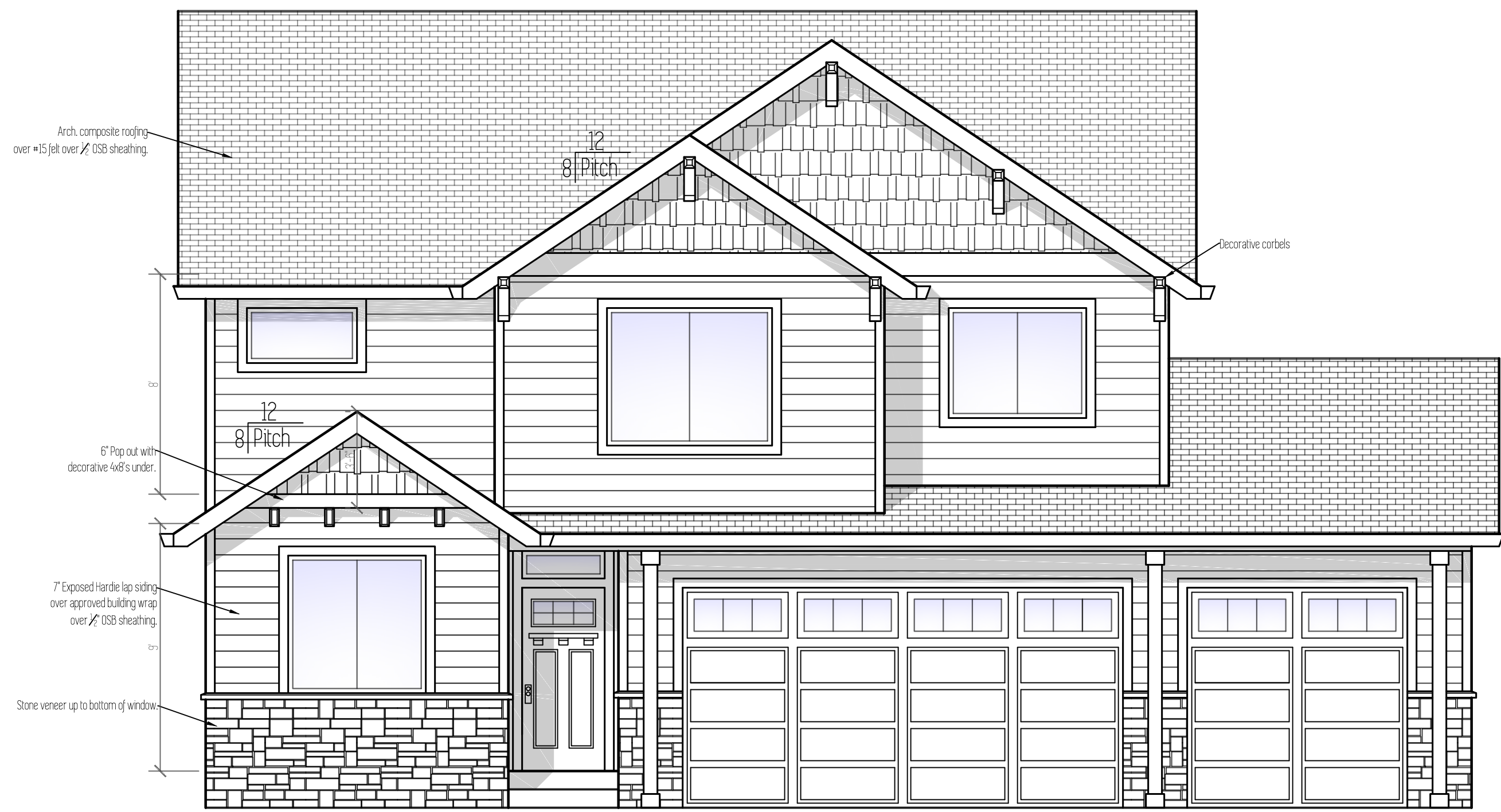


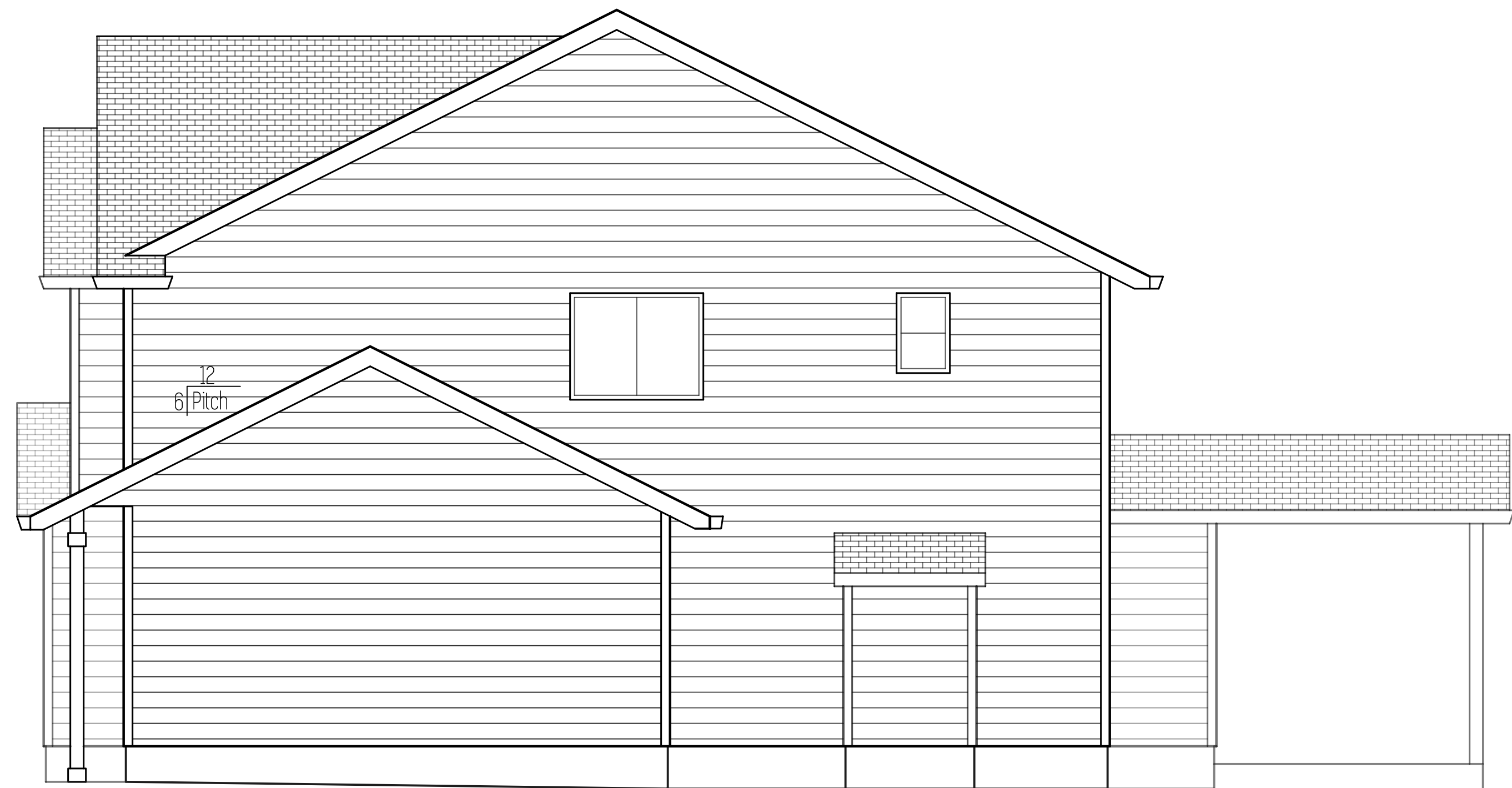
Left Elevation



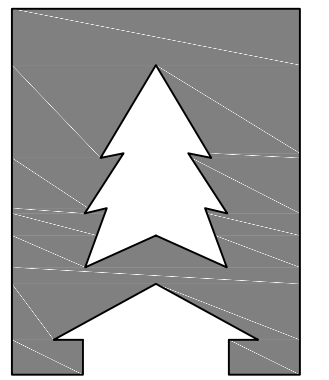
Front Elevation

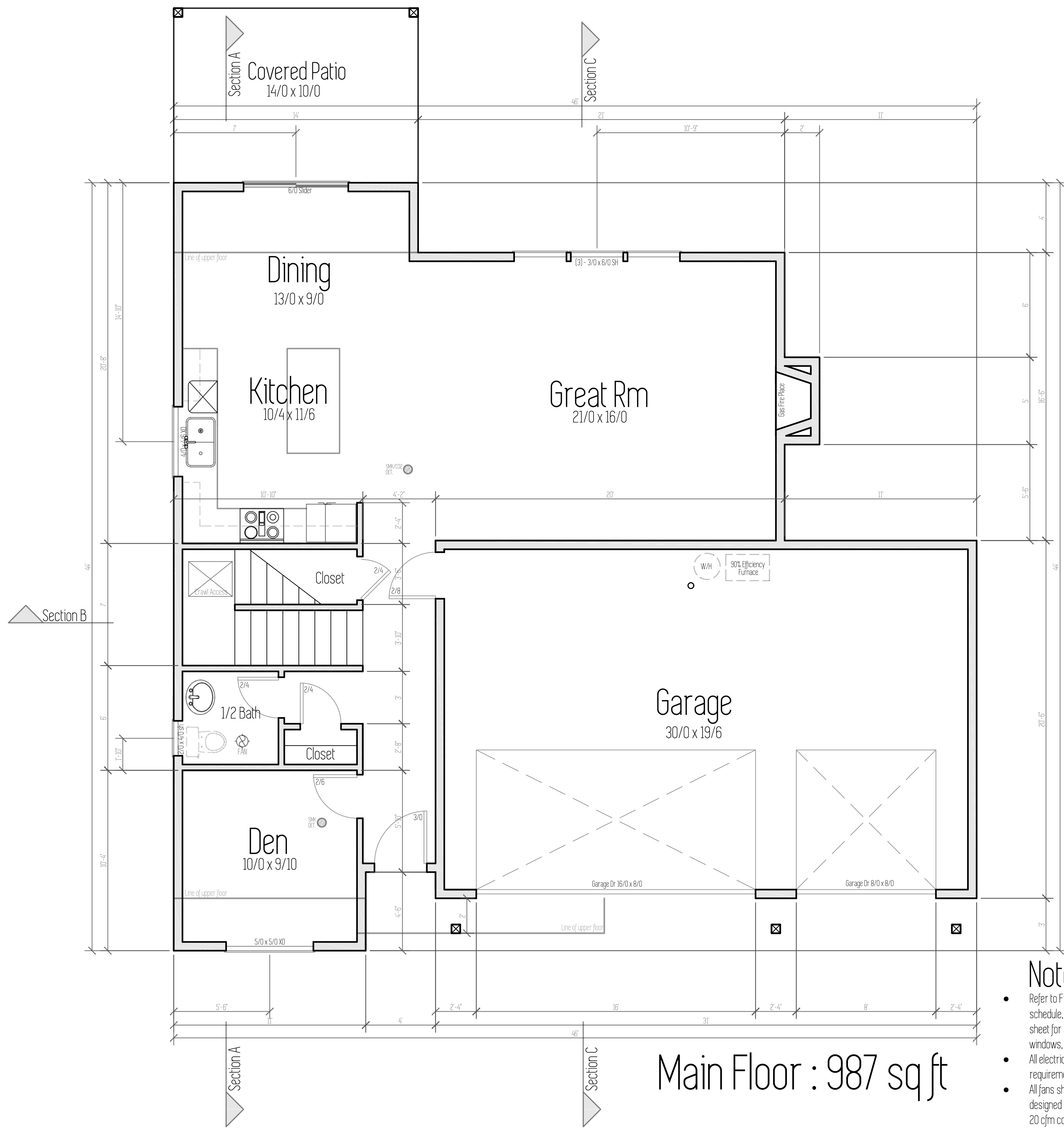


Rear Elevation



Right Elevation

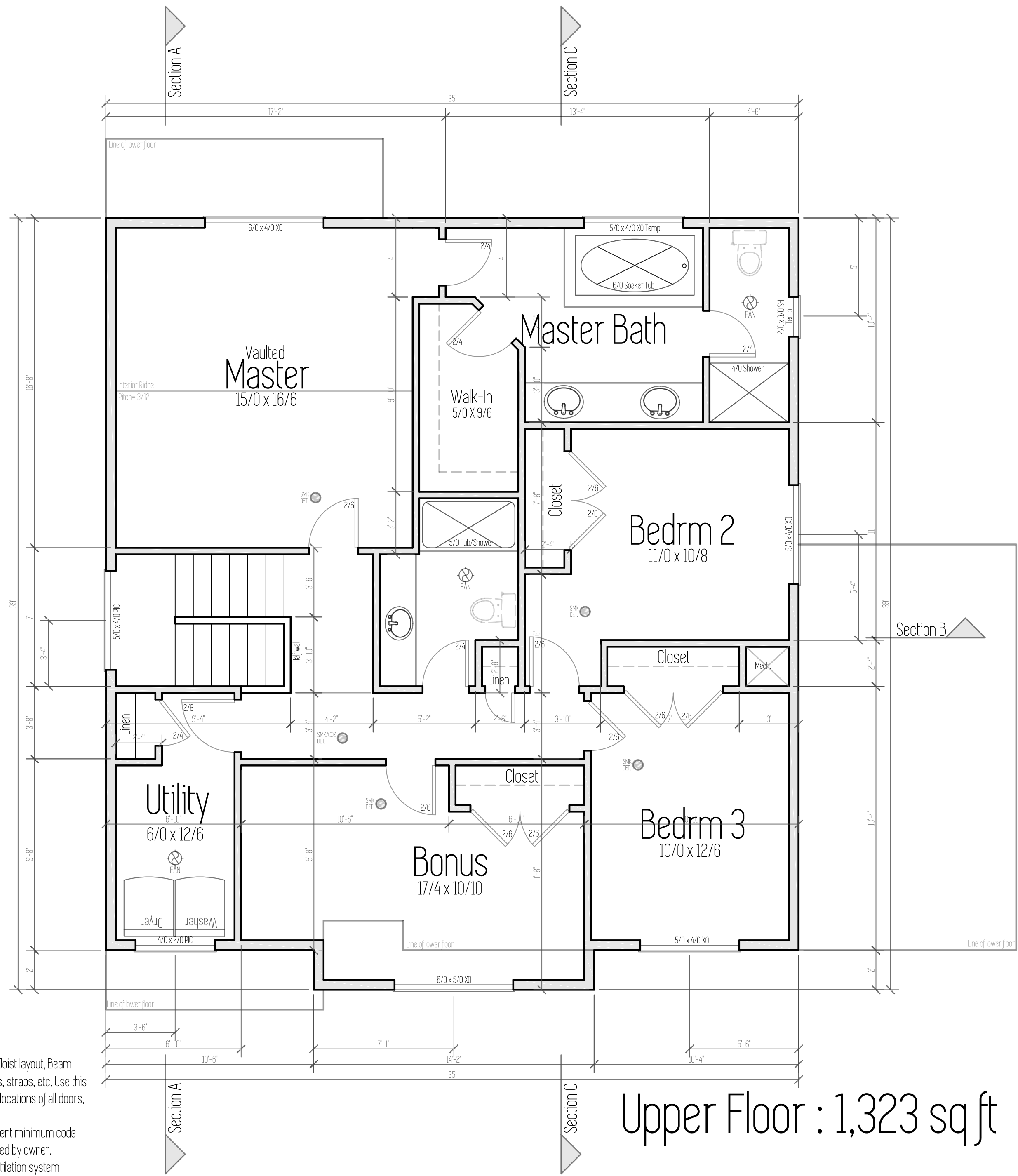
PLAN NAME: DUNMORE 3-CAR	
DATE: 7 / 13 / 2016	
LOCATION: ZION MEADOWS LOT 42 SANDY, OR 97055	
ELEVATIONS	2310 = TOTAL SQ. FT.
	SCALE: 1/4" = 1'
	THIS PLAN IS PROPERTY OF:
	 CEDARRIDGE HOMES © 2016 CEDAR RIDGE HOMES (P) 503 666 4240 (F) 503 666 2408 WWW.CEDARRIDGEHOMES.US DESIGNED BY: TYSON GREY TYSONGREY@GMAIL.COM
PAGE 1	



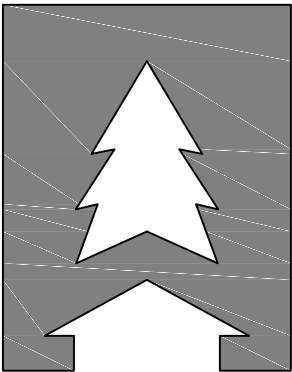
Main Floor : 987 sq ft

Notes

- Refer to Framing Plan (sheet 3) for Joist layout, Beam schedule, Shear panels, Hold-downs, straps, etc. Use this sheet for accurate dimensions and locations of all doors, windows, walls, cabinets, etc.
- All electrical to meet or exceed current minimum code requirements and is to be determined by owner.
- All fans shall have a mechanical ventilation system designed to exhaust a minimum of 80 cfm intermittent or 20 cfm continuous. Mechanical ventilation control systems shall be connected to a dehumidistat, timer or similar automatic control

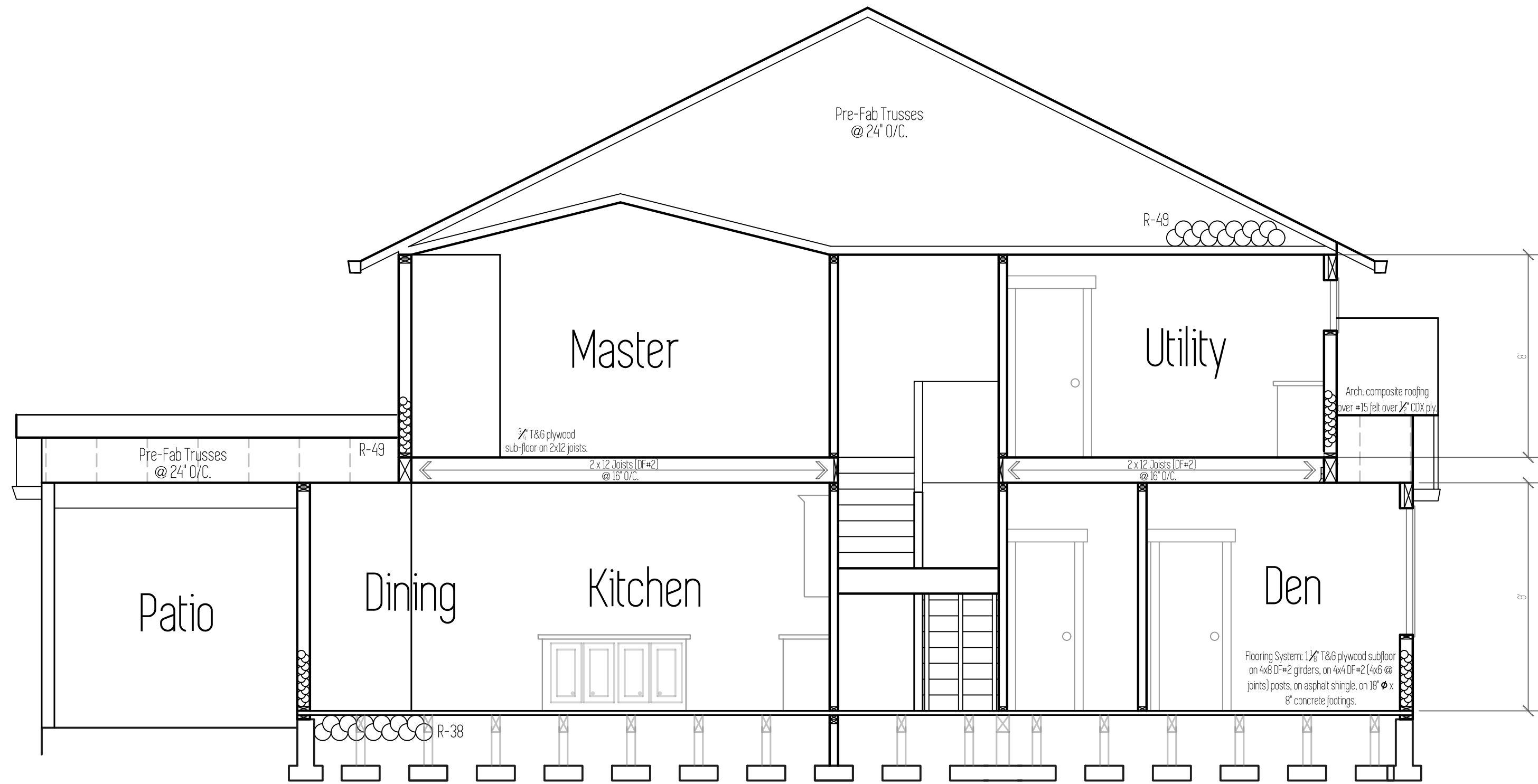


Upper Floor : 1,323 sq ft

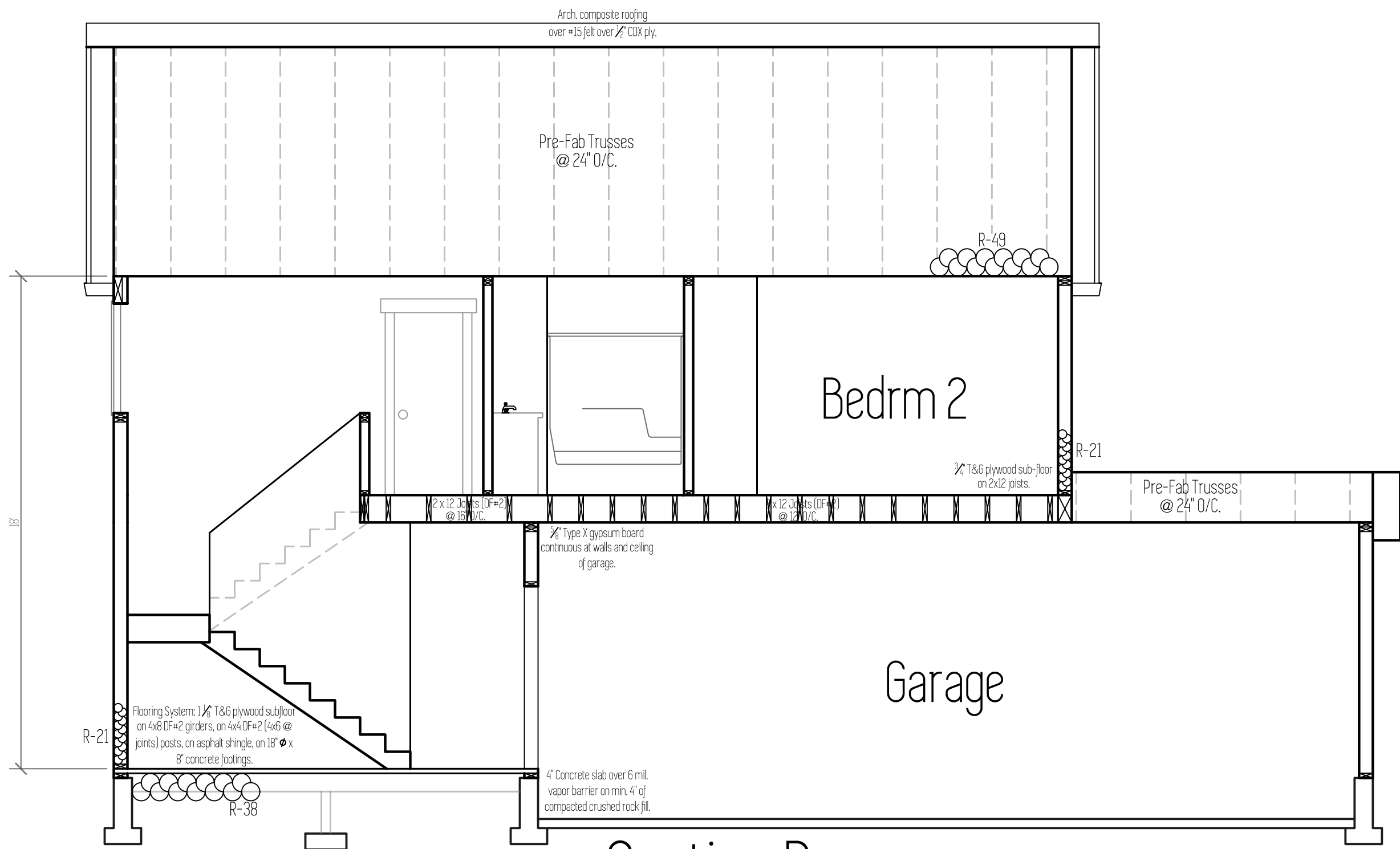
PLAN NAME:	
DUNMORE 3-CAR	
DATE:	
7 / 13 / 2016	
LOCATION:	
ZION MEADOWS LOT 42 SANDY, OR 97055	
FLOOR PLANS	2310 = TOTAL SQ FT
	SCALE: 1/4" = 1'
THIS PLAN IS PROPERTY OF:	
	
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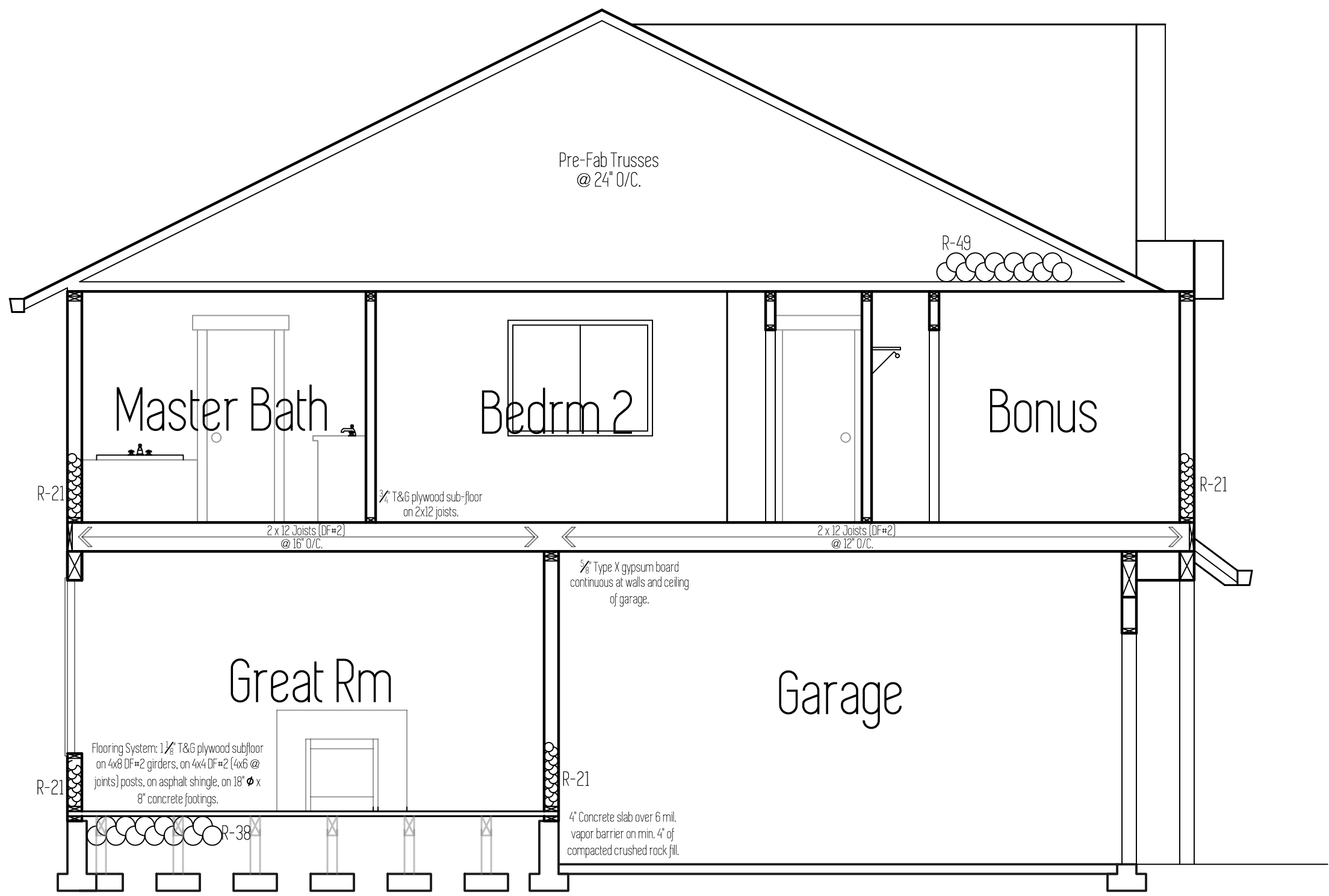




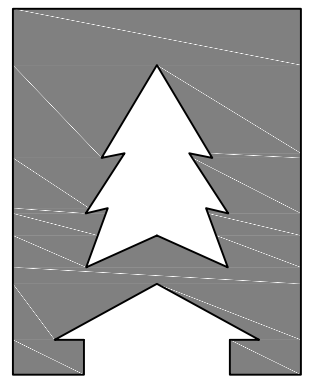
Section A



Section B



Section C

PLAN NAME:	
DUNMORE 3-CAR	
DATE:	
7 / 13 / 2016	
LOCATION:	
ZION MEADOWS LOT 42	
SANDY, OR	
97055	
SECTIONS	2310 = TOTAL SQ FT
	SCALE: 1/4" = 1'
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TYSON GREY TYSONGREY@GMAIL.COM	
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# GENERAL STRUCTURAL NOTES

## DESIGN LOADS

LIVE LOAD (FLOOR):	40 PSF REDUCIBLE
SNOW LOAD (ROOF):	25 PSF
WIND LOAD:	120 MPH, EXP. B
SEISMIC:	SEISMIC DESIGN CAT. D1 I = 1.0 C = 2.5 R = 6.5
CODES:	2012 IBC, 2014 OSGC

## GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN CASE OF CONFLICT, MORE COSTLY REQUIREMENTS GOVERN FOR BIDDING. SUBMIT CLARIFICATION REQUEST PRIOR TO PROCEEDING WITH WORK.
  - ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
  - ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:  
2012 IBC AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
  - THE CONTRACT 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 INSPECTION OF THE ABOVE ITEMS.
  - CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
11. ALL 5/8" DIAMETER AND LARGER BOLTS CALLED OUT ON DRAWINGS, INCLUDING ANCHOR BOLTS (A.B.), SHALL HAVE MALLEABLE IRON WASHERS AS LISTED BELOW UNDER THE HEAD AND/OR NUT BEARING ON WOOD. ALL BOLTS SHALL HAVE A MINIMUM EMBEDMENT IN CONCRETE OR MASONRY AS LISTED BELOW.

## PREFABRICATED WOOD MEMBERS

- ALL PREFABRICATED WOOD MEMBERS INDICATED ON THE DRAWINGS SHALL BE AS MANUFACTURED BY THE TRUS JOIST CORP., TMI JOIST, INC., OR APPROVED EQUAL.
- PRIOR TO FABRICATION AND INSTALLATION, THE MANUFACTURER SHALL SUBMIT COPIES OF CURRENT ICBO REPORTS FOR REVIEW.
- THE MATERIALS AND FABRICATION PROCEDURES FOR ALL MEMBERS SHALL COMPLY WITH THE REQUIREMENT OF CURRENT ICBO REPORTS.
- THE SIZE AND LOCATION OF ALL HOLES SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR ICBO REPORTS.
- TOP AND BOTTOM FLANGES ARE NOT TO BE CUT.
- MEMBERS SHALL BE DELIVERED TO THE JOB SITE IN BUNDLES AND STORED IN AN UPRIGHT POSITION NOT IN CONTACT WITH THE GROUND.
- ANY DAMAGE OR DISTORTION OF MEMBER SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE SUPPLIER. FIELD REPAIR OR MODIFICATIONS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL FROM THE SUPPLIER AND THE ENGINEER.
- MEMBER SHALL BE ANCHORED AND BRACED AS IT IS ERECTED. THE ERECTOR SHALL PROVIDE SUPPLEMENTAL LATERAL BRACING AS REQUIRED FOR THE TOP FLANGES UNTIL FLOOR OR ROOF DIAPHRAGMS ARE INSTALLED AND FOR THE BOTTOM FLANGES AT CANTILEVERED MEMBERS UNTIL CEILING IS INSTALLED.
- PRIOR TO FABRICATION, SHOP DRAWINGS INDICATING MEMBER DESIGNATIONS, LAYOUT, AND DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- DESIGN CALCULATIONS SHALL BE BASED ON DEAD LOADS SHOWN ON PLANS AND LIVE LOADS SHOWN IN GENERAL NOTES.

## WOOD

- ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR, VISUALLY GRADED OR MACHINE GRADED UNDER THE 1970 LUMBER GRADING RULES OF WEST COAST LUMBER INSPECTION BUREAU. ALL FRAMING MEMBERS SHALL BE AS FOLLOWS UNO. :

THICKNESS	GRADE
4" NOM. AND SMALLER	GRADE NO. 2
LARGER THAN 4" NOM	GRADE NO. 1
STUDS (2 X 4 AND 2 X 6)	GRADE NO.2
- ALL STRUCTURAL PLYWOOD SHEATHING SHALL BE DOUGLAS FIR STANDARD GRADE CDX UNO. WITH EXTERIOR GLUE CONFORMING TO THE LATEST EDITION OF PS I. ALL PANELS SHALL BEAR LEGIBLE APA STAMPS.
- ALL HORIZONTAL SHEATHING SHALL BE LAID FACE GRAIN PERPENDICULAR TO FRAMING. WALL SHEATHING SHALL BE APPLIED VERTICALLY. SHEATHING SHALL BE APPROVED BY THE BUILDING INSPECTOR BEFORE COVERING.
- ALL NAILINGS SHALL CONFORM TO THE APPLICABLE BUILDING CODE AND REGULATIONS. (2012 IBC)
- UNLESS OTHERWISE NOTED, ALL WOOD SILL PLATES UNDER BEARING, EXTERIOR, OR SHEAR WALLS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE BOLTED TO CONCRETE OR MASONRY W/ 5/8" DIA. X 12" BOLTS AT 4'-0" O.C. BEGINNING AT 12" MAX. FROM EACH END OF THE PLATES. EMBED BOLTS A MINIMUM OF 8" INTO CONCRETE OR MASONRY.
- ALL BOLT HEADS AND NUTS WHICH BEAR AGAINST THE FACE OF WOOD MEMBERS SHALL BE PROVIDED WITH STANDARD METAL WASHERS.
- ALL WALLS SHALL HAVE BRACING PROVIDED BY ONE OF THE METHODS REQUIRED BY CODE SECTION 2308.
- ALL NAILS SHALL BE COMMON NAILS, MINIMUM NAILING REQUIREMENTS OUTLINED IN IBC TABLE 2304.9.1 SHALL BE FOLLOWED UNLESS OTHERWISE NOTED.
- RETIGHTEN BOLTS BEFORE CLOSING IN.
- USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16 INCH PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
- ALL 5/8" DIAMETER AND LARGER BOLTS CALLED OUT ON DRAWINGS, INCLUDING ANCHOR BOLTS (A.B.), SHALL HAVE MALLEABLE IRON WASHERS AS LISTED BELOW UNDER THE HEAD AND/OR NUT BEARING ON WOOD. ALL BOLTS SHALL HAVE A MINIMUM EMBEDMENT IN CONCRETE OR MASONRY AS LISTED BELOW.

BOLT DIAMETER	1/2"	5/8"	3/4"	7/8"	1"
WASHER-THICKNESS	1/8"	3/16"	3/16"	1/4"	1/4"
WASHER-DIAMETER	1-3/8"	1-3/4"	2"	2-1/4"	2-1/2"
EMBEDMENT					
ANCHOR BOLTS	6"	6"	8"	10"	10"
OTHER	4"	4"	5"	6"	7"
ALL ANCHOR BOLTS SHALL BE 12" LONG, UNLESS NOTED OTHERWISE.					

- ALL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE UNLESS NOTED OTHERWISE. ALTERNATIVE HARDWARE MUST BE APPROVED BY ENGINEER.
- ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
- FOR ALL LAG BOLTS, PRE-DRILL HALF THE DIAMETER IN THE THREADED PORTION, PRE-DRILL FULL SHANK DIAMETER IN THE UNTHREADED PORTION.

## CONCRETE

- ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE IBC 2012 AND OSGC 2014 AND WITH THE PROVISIONS OF ACI 308.
- REINFORCED CONCRETE IS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD".
- CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER. MIX DESIGN METHODS (TEST HISTORY OR TRAIL BATCH METHOD) PER THE ACI 308 SHALL BE USED TO PROPORTION CONCRETE.
- SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES:

LOCATION IN STRUCTURE	STRENGTH	DENSITY	SUMP
ALL CONCRETE FOOTINGS	2500	150 PCF	3-5
ALL CONCRETE SUBSTRUCTURE WALLS	2500	150 PCF	3-5
SLAB-ON-GRADE	3000	150 PCF	3-5

- PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II.
- CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-44.
- PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 308 AS AMENDED BY SECTION 1905 AND TO PROJECT SPECIFICATIONS. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED.
- ALL REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING CONCRETE IS NOT PERMITTED. NOTIFY THE ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE THESE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.
- PIPES LARGER THAN 3" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY ENGINEER. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS. SPACE EMBEDDED PIPES AT A MINIMUM OF 3 DIAMETERS.

## EARTHWORK

### GENERAL:

- ALL FOOTINGS, SLABS, DRIVEWAYS, SIDEWALKS AND OTHER PERMANENT STRUCTURES SHALL BEAR ON FIRM, UNDISTURBED NATIVE SOIL OR COMPACTED STRUCTURAL FILL.
- SLOPES FOR PERMANENT FILL SHALL NOT BE STEEPER THAN (1) VERTICAL UNIT FOR EVERY (2) HORIZONTAL UNITS, UNLESS NOTED OTHERWISE BY AN APPROVED SOILS REPORT.
- TEMPORARY SLOPES DURING CONSTRUCTION SHALL NOT BE GREATER THAN (3) VERTICAL UNIT FOR EVERY (1) HORIZONTAL UNITS, UNLESS RECOMMENDED BY AN APPROVED SOILS REPORT.
- NO FILL OR SURCHARGE LOADS SHALL BE PLACED ADJACENT TO ANY BUILDING OR STRUCTURE UNLESS SUCH BUILDING OR STRUCTURE IS CAPABLE OF WITHSTANDING THE ADDITIONAL LOADS.
- EXISTING FOOTINGS OR FOUNDATIONS THAT CAN BE AFFECTED BY ANY EXCAVATION OR CONSTRUCTION SHALL BE ADEQUATELY PROTECTED AGAINST SETTLEMENT OR LATERAL MOVEMENT.
- IF A SOILS REPORT HAS BEEN COMPLETED, IT SHALL GOVERN OVER THE MINIMUM GUIDELINES ESTABLISHED BY THESE GENERAL NOTES.

### GRADINGS:

- ALL AREAS OF WORK SHALL BE EXCAVATED, AND REMOVED OF EXISTING CONSTRUCTION DEBRIS, VEGETATION, STUMPS, ORGANIC MATERIAL, AND LOOSE OR DISTURBED SOIL, TO FIRM NATIVE SOIL A MINIMUM OF 12" BELOW EXISTING GRADE.
- APPROVED, COMPACTED STRUCTURAL FILL (SEE REQUIREMENTS BELOW) SHALL BE USED TO FILL IN VOIDS AND LEVEL THE AREA OF WORK.
- FOUNDATION AND GRADING WORK SHALL BE PROTECTED FROM FLOODING DURING STORMS OR OTHER WATER HAZARDS. THOROUGHLY BRACE OR OTHERWISE PROTECT ALL SOIL CUTS AGAINST SLIDING DURING CONSTRUCTION.
- TAKE ALL NECESSARY PRECAUTIONS TO PROPERLY DRAIN AND PREVENT DISTURBANCE OF AREAS WHERE CONCRETE WILL BE POURED.
- DURING CONSTRUCTION, AREAS OF WORK SHALL BE PROPERLY DRAINED AND KEPT CLEAR OF STANDING WATER IN ORDER TO PREVENT SOFTENING OF THE BASE OF FOOTINGS AND FOUNDATIONS.

### STRUCTURAL FILL:










- STRUCTURAL FILL SHALL CONSIST OF RELATIVELY WELL GRADED 3/4" - MINUS CRUSHED ROCK THAT IS FREE OF ORGANIC MATERIAL.
- THE FILL SHALL BE PLACED ON PREPARED SUB-GRADE AND COMPACTED IN LOOSE, 8" LIFTS.
- WE RECOMMEND THE FILL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D-1557 AND BE WITHIN 3 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT AT THE TIME OF COMPACTION.

## REINFORCING STEEL













- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE. ASTM A615, GRADE 60 UNO. DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A-305.
- BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-105. PROVIDE LAPS PER THE CODE SECTION #12.2. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. DOWEL ALL VERTICAL REBAR TO FOUNDATIONS. ALL SPLICE LOCATIONS ARE SUBJECT TO APPROVAL BY STRUCTURAL ENGINEER.
- REINFORCING BAR SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. MINIMUM SPLICE LENGTH FOR REINFORCING STEEL BARS IN MASONRY SHALL BE 40 BAR DIAMETERS, 24" MINIMUM. MINIMUM SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE PER THE CODE SECTION #12.2. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. DOWEL ALL VERTICAL REBAR TO FOUNDATIONS. ALL SPLICE LOCATIONS ARE SUBJECT TO APPROVAL BY STRUCTURAL ENGINEER.
- ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
- BARS IN SLABS SHALL BE SECURELY SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, PRIOR TO PLACING CONCRETE.
- REBAR SPACINGS GIVEN ARE MAXIMUM ON CENTER WHETHER STATED AS "O.C." OR NOT. ALL REBAR IS CONTINUOUS WHETHER STATED AS "CONT." OR NOT.
- WHERE REINFORCING IS SHOWN CONTINUOUS THROUGH CONSTRUCTION JOINTS, MECHANICAL BAR SPLICE DEVICES MAY BE USED. SIZES AND TYPES SHALL BE SELECTED TO DEVELOP THE FULL TENSION STRENGTH OF THE BAR PER ICBO RESEARCH REPORT. SUBMIT FOR APPROVAL BY STRUCTURAL ENGINEER.
- CONCRETE PROTECTION FOR REINFORCEMENT
  - CAST-IN-PLACE CONCRETE (NON-PRESTRESSED). THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS NOTED OTHERWISE:

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B. CONCRETE EXPOSED TO EARTH OR WEATHER: NO. 6 THROUGH NO. 10 BAR NO. 5 BAR, W/BI OR D31 WIRE AND SMALLER	2 1-1/2
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS NO. 11 BAR AND SMALLER	3/4



## SHEARWALL SCHEDULE

MARK	WALL COVER	FASTENERS	# PANEL EDGES	INTERM STUDS	SOLE PLATE CONN (SEE NOTE #5)	RIM BOARD/ BLK-G CONN	REMARKS
 A (255#)	1/8" APA-A, RATED SHTG	0.181"x2-1/2" FULL ROUND-HEAD P-NAIL	6" O.C.	12" O.C.	16D @ 6" O.C. 1/2"x10" A.B.'S @ 32" O.C.	A35 @ 24" O.C.	8d COMMON @ 6" O.C. SUITABLE SUBST. FOR 0.131" F. RH. P-NAIL
 A (175#)	5/8" 6x1B, EACH SIDE	6d WALLEED. NAIL, OR 2" X4" #6 SCREW	4" O.C.	4" O.C.	16D @ 6" O.C. 1/2"x10" A.B.'S @ 36" O.C.	A35 @ 36" O.C.	NAILING APPLIES TO EACH SIDE OF WALL. (EDGE BLK-G IS REQUIRED)
 B (145#)	5/8" 6x1B, EACH SIDE	6d WALLEED. NAIL, OR 2" X4" #6 SCREW	7" O.C.	7" O.C.	16D @ 8" O.C. 1/2"x10" A.B.'S @ 24" O.C.	A35 @ 48" O.C.	NAILING APPLIES TO EACH SIDE OF WALL. (EDGE BLK-G IS NOT REQUIRED)
 C (350#)	1/8" APA-A, RATED SHTG	0.181"x2-1/2" FULL ROUND-HEAD P-NAIL	4" O.C.	12" O.C.	16D @ 4" O.C. 1/2"x12" A.B.'S @ 24" O.C.	A35 @ 18" O.C.	8d COMMON NAIL, OR SUBSTITUTE FOR ANY 0.131" F. (R 6A) P-NAIL
 D (1505#)	1/8" APA-A, RATED SHTG	0.181"x2-1/2" FULL ROUND-HEAD P-NAIL	3" O.C.	12" O.C.	20d @ 3" O.C. 3/4"x12" A.B.'S @ 24" O.C.	A35 @ 12" O.C.	3x REQUIRED @ ALL PANEL JOINTS & DBL 2X SOLE PLATE
 E (670#)	1/8" APA-A, RATED SHTG	0.181"x2-1/2" FULL ROUND-HEAD P-NAIL	2" O.C.	12" O.C.	20d @ 3" O.C. 3/4"x12" A.B.'S @ 24" O.C.	A35 @ 10" O.C.	3x REQUIRED @ ALL PANEL JOINTS & SOLE PLATES
 F (1100#)	1/8" APA-A, RATED SHTG	0.181"x2-1/2" FULL ROUND-HEAD P-NAIL	4" O.C.	12" O.C.	A35 @ 5" O.C. 3/4"x12" A.B.'S @ 24" O.C.	A35 @ 8" O.C.	3x REQUIRED @ ALL PANEL JNTS & SOLE PL. - OFFSET JOINTS EA. SIDE OF WALL
 G (1010#)	1/8" APA-A, RATED SHTG	0.181"x2-1/2" FULL ROUND-HEAD P-NAIL	3" O.C.	12" O.C.	A35 @ 4" O.C. 3/4"x12" A.B.'S @ 18" O.C.	A35 @ 6" O.C.	3x REQUIRED @ ALL PANEL JOINTS & SOLE PLATES OFFSET JOINTS EA. SIDE OF WALL
 H (1580#)	1/8" APA-A, RATED SHTG	0.181"x2-1/2" FULL ROUND-HEAD P-NAIL	2" O.C.	12" O.C.	A35 @ 3" O.C. 3/4"x12" A.B.'S @ 12" O.C.	A35 @ 4" O.C.	3x REQUIRED @ ALL PANEL JOINTS & SOLE PLATES OFFSET JOINTS EA. SIDE OF WALL

## HOLDOWN SCHEDULE

MARK	HOLDOWN	FASTENERS <sup>1</sup>	MARK	HOLDOWN	FASTENERS <sup>4,7</sup>
 O	NO SPECIAL HOLDOWN REQUIRED	CONNECT BTM. PL. TO FLR. JST/BH/BLK-G W/ 16d @ 4" O.C.	 6	"STDH4" (3.64 KIPS)	(38) 16d SINKERS STDH4 RJ @ RIM JOIST
 1	"MSTA44" (2.05 kips)	(13) 16d COMMON NAILS AT EACH END @ 1 3/4" o.c. STAGG	 7	"HDU-SDS2.5" (5.18 KIPS)	(14) SDS1/4x2-1/2" SCREWS (2) 2x POST W/ SIMPSON SB 5/8x24 ANCHOR BOLT
 2	"MST3T" (2.34 kips)	(11) 16d COMMON NAILS AT EACH END @ 1 3/4" o.c. STAGG	 8	"HDUB-SDS2.5" (1.81 KIPS)	(20) SDS1/4x3" SCREWS (3) 2x6 POST W/ SIMPSON SB 1/8x24 ANCHOR BOLT
 3	"MST4B" (3.63 kips)	(17) 16d COMMON NAILS AT EACH END @ 1 3/4" o.c. STAGG	 9	"HDUII-SDS2.5" (1.535 KIPS)	(30) SDS1/4x2-1/2" SCREWS 6x6 POST REQ'D & ANCHOR BOLT PER DETAIL, USE SIMPSON SB 1x30" UNO.
 4	"MST6O" (4.83 kips)	(24) 16d COMMON NAILS AT EACH END @ 1 3/4" o.c.	 10	"HDUI4-SDS2.5" (14.925 KIPS)	(36) SDS1/4x2-1/2" SCREWS 6x6 POST REQ'D & ANCHOR BOLT PER DETAIL
 5	"CMST12" (9.21 kips)	(44) 16d COMMON NAILS AT EACH END @ 1 3/4" o.c.	 TS	"TS22"	(9) 16D EACH END








### NOTES:

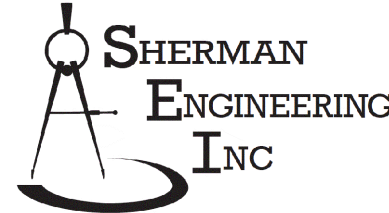
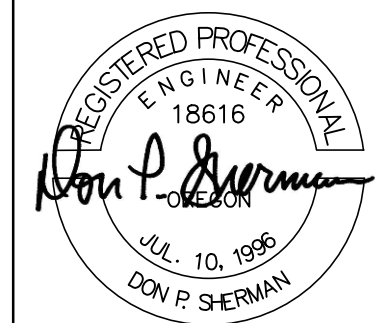
- DBL 2x SILL PLATE MAY BE SUBSTITUTED 3x PLATE IF THE ANCHOR BOLTS ARE DOUBLED FOR WALLS W/ SHEAR UP TO 600#/FT
- BUILDER TO VERIFY ALL INSTALLATION REQUIREMENTS PER "SIMPSON" CATALOG FOR ALL HOLDOWN CONNECTIONS.
- FOUNDATION ANCHOR BOLTS SHALL HAVE A STEEL PLATE WASHER UNDER EACH NUT NOT LESS THAN 0.224"x3"x3" IN SIZE.
- THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE BOTTOM PLATE IF SHEAR IS GREATER THAN 200 PLF.
- ALLOWABLE SHEAR FOR TYPE  A MAY BE INCREASED TO 330# FOR WIND LOADING.
- ALLOWABLE SHEAR FOR TYPE  B MAY BE INCREASED TO 460# FOR WIND LOADING.
- 16d = 0.162" DIA. x 3.5" LONG 10d = 0.148" DIA. X 3.0" LONG 8d = 0.131" DIA. X 2.5" LONG

## COLUMNS & HEADERS

TYP. UNO.  
PROVIDE MULT. 2X STUDS  
EQUAL TO BEAM OR GIRDER WIDTH & CONTINUE TO FOUNDATION

PROVIDE 4XB HDR. TYP. @ ALL BEARING & EXTERIOR WALLS, UNO.

FOOTINGS		
MARK	FTG SIZE	REINF
 P1	18"x18"x10" PAD	(2) #4 EA. WAY
 P2	24"x24"x10" PAD	(2) #4 EA. WAY
 P3	30"x30"x10" PAD	(3) #4 EA. WAY
 P4	36"x36"x12" PAD	(3) #4 EA. WAY
 P5	42"x42"x12" PAD	(4) #4 EA. WAY
 P6	48"x48"x12" PAD	(4) #4 EA. WAY
 P7	54"x54"x12" PAD	(4) #4 EA. WAY






3151 NE SANDY BLVD.  
SUITE 100  
PORTLAND, OR 97232

P: (503) 230-8876

JOBS@SHERMANENGINEERS.COM

## REVISIONS

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PROJECT #  
16-MSJL-03-049

PROJECT ADDRESS

LOT #42  
SANDY, OR 97055  
CLACKAMAS COUNTY

PROJECT TITLE

DUNMORE 3-CAR - GR  
ZION MEADOWS  
FOR:  
CEDAR RIDGE HOMES

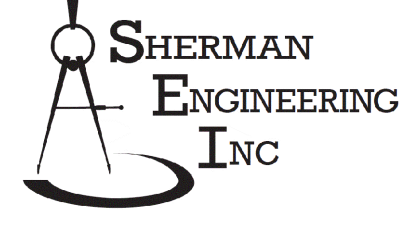
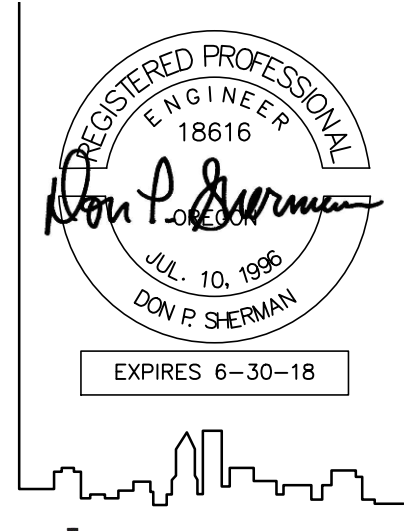


STRUCTURAL  
NOTES

7-13-16

S1





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SUITE 100  
PORTLAND, OR 97232  
P: (503) 230-8876  
JOBS@SHERMANENGINEERS.COM

REVISIONS

NO.	DESCRIPTION
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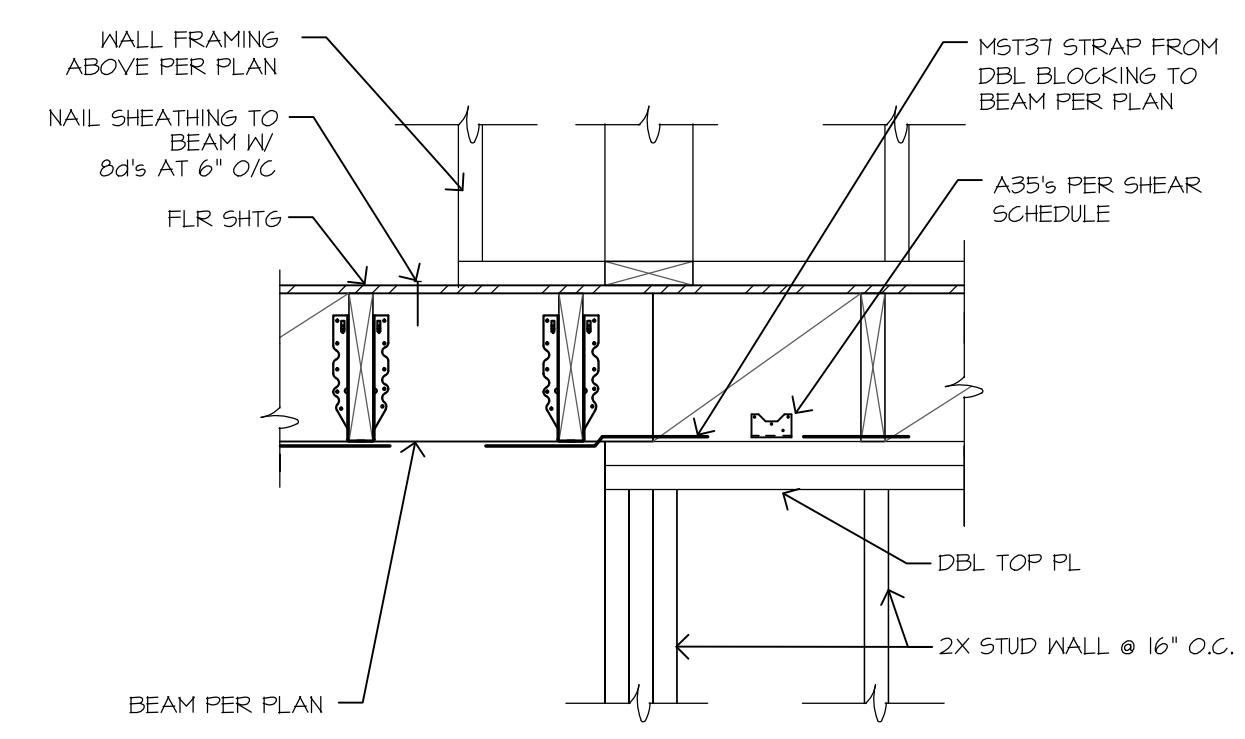
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16-MSJL-03-049

PROJECT ADDRESS  
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CLACKAMAS COUNTY

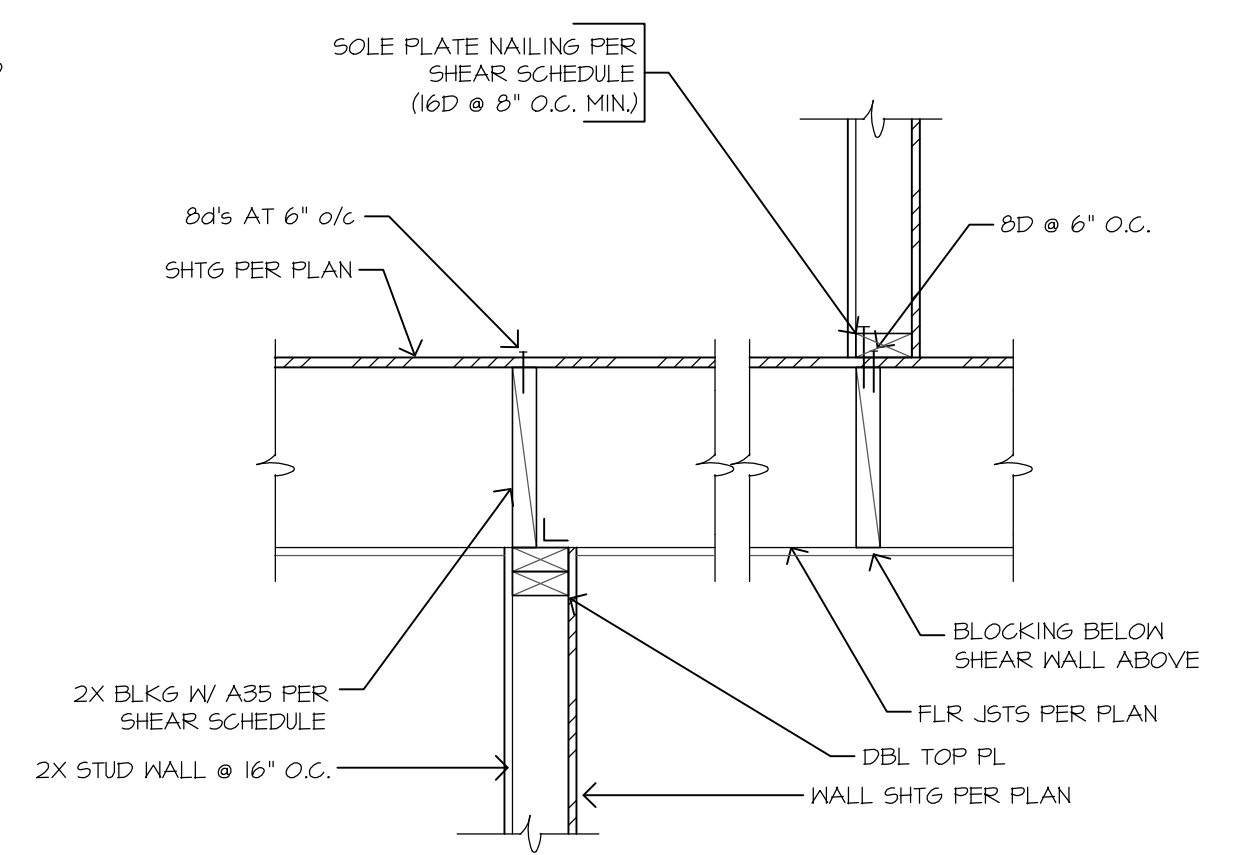
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DUNMORE 3-CAR - GR  
ZION MEADOWS  
FOR:  
CEDAR RIDGE HOMES

STRUCTURAL  
DETAILS  
7-13-16

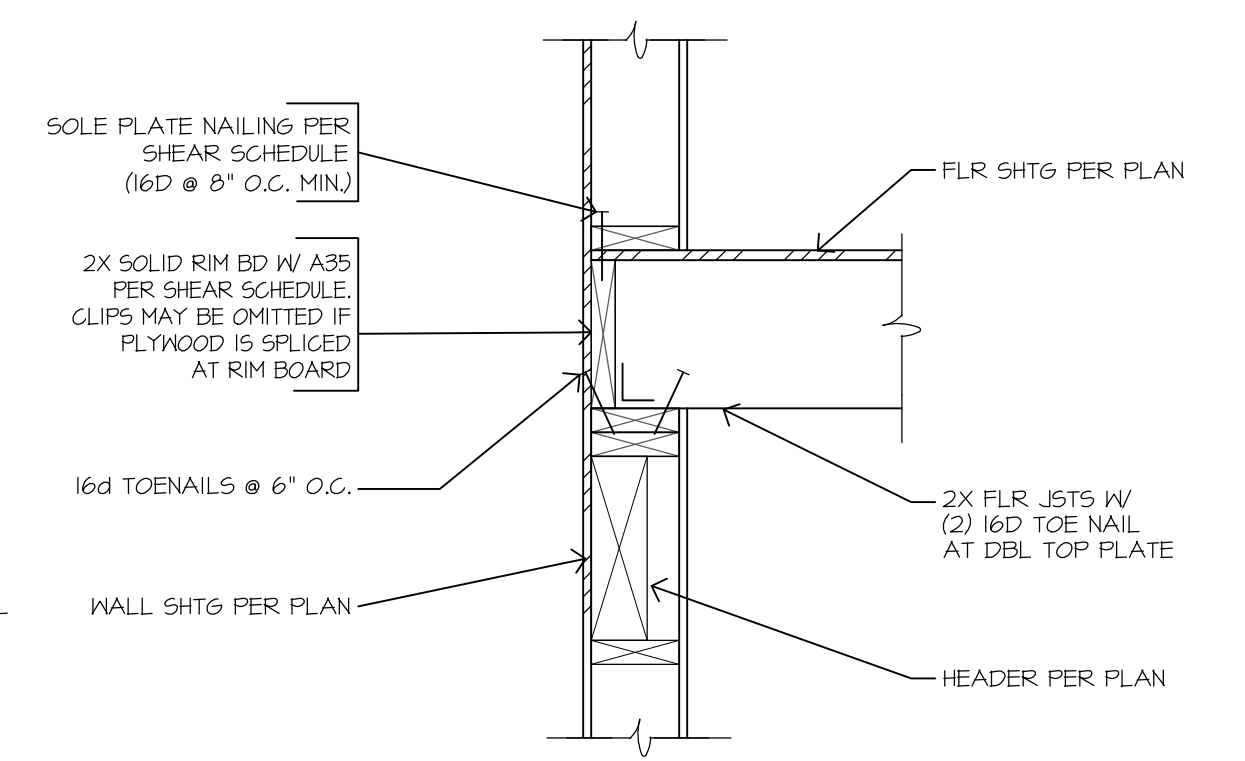
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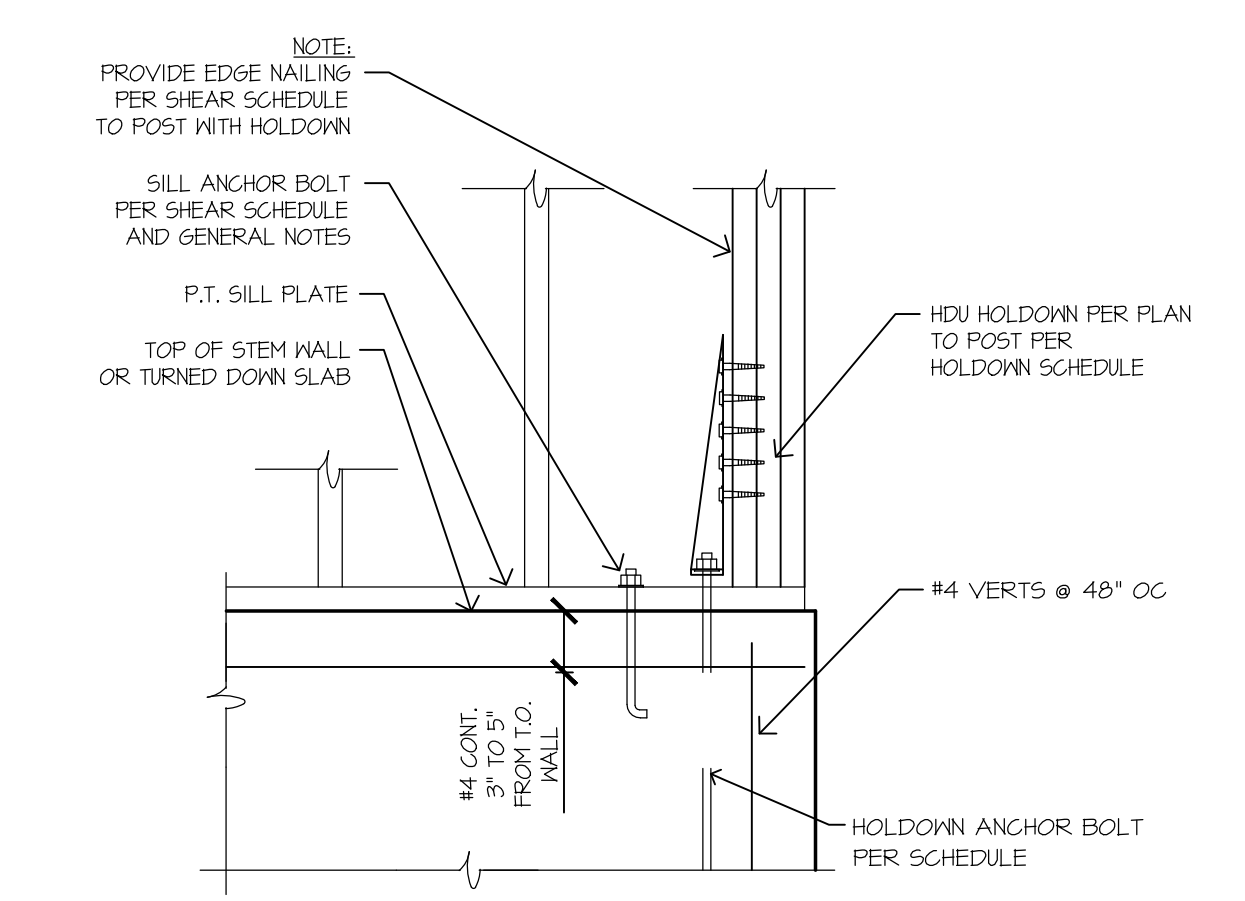
D9 DRAG STRUT @ FLR JST/BEAM  
SCALE: 1" = 1'-0"



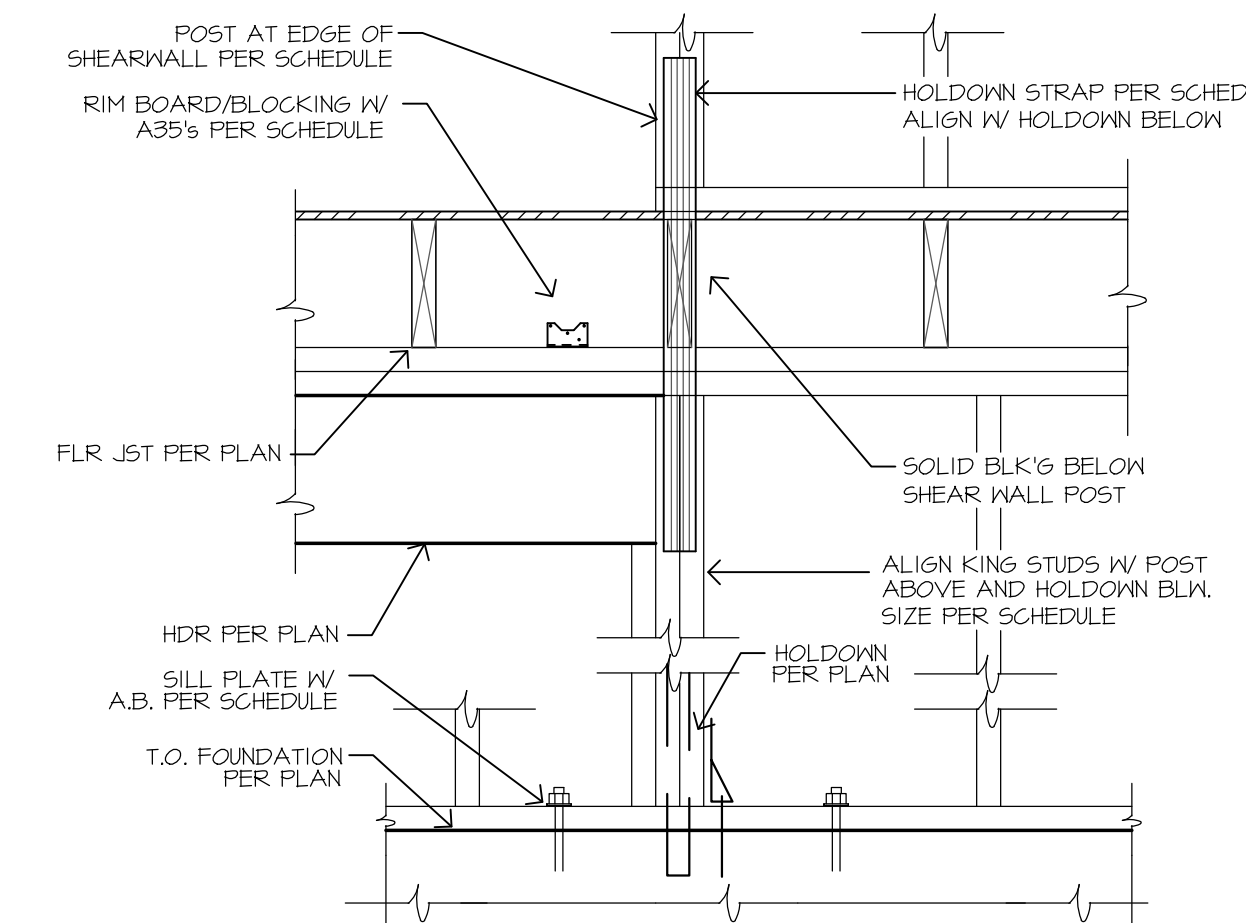
D6 SHEAR WALL PERP. TO FLR JST  
SCALE: 1" = 1'-0"



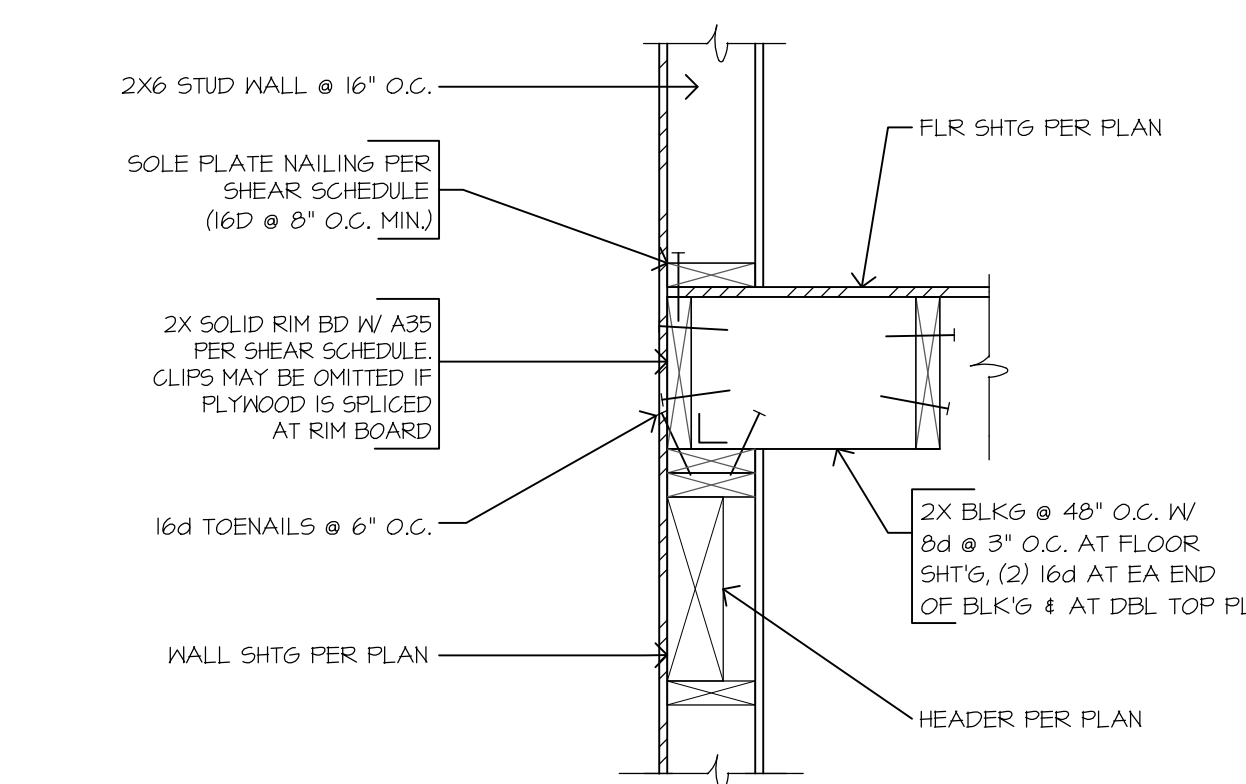
D4 TYP PERP JSTS TO EXT SHEAR WALL  
SCALE: 1" = 1'-0"



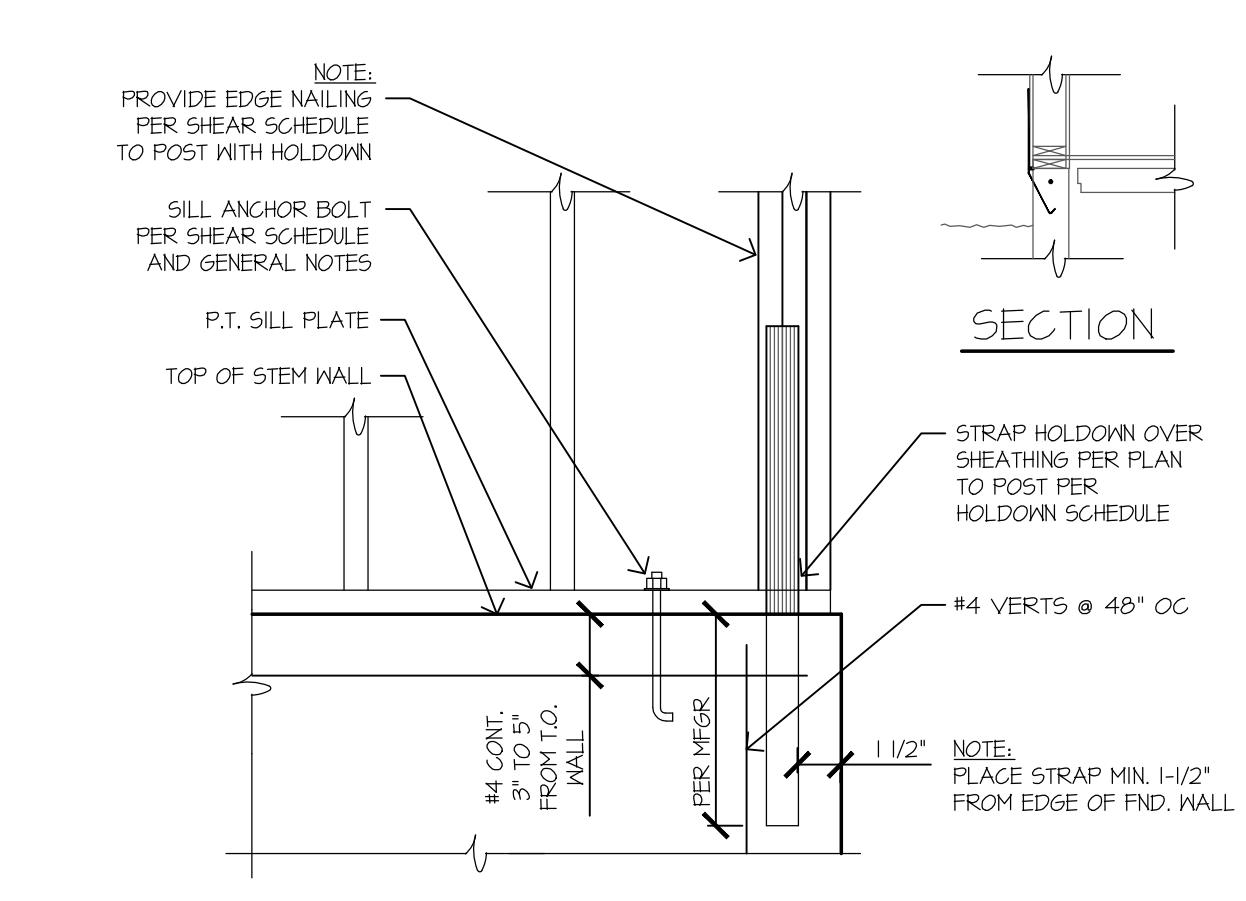
D1 TYP. SHEARWALL HDU HOLDOWN  
SCALE: 1" = 1'-0"



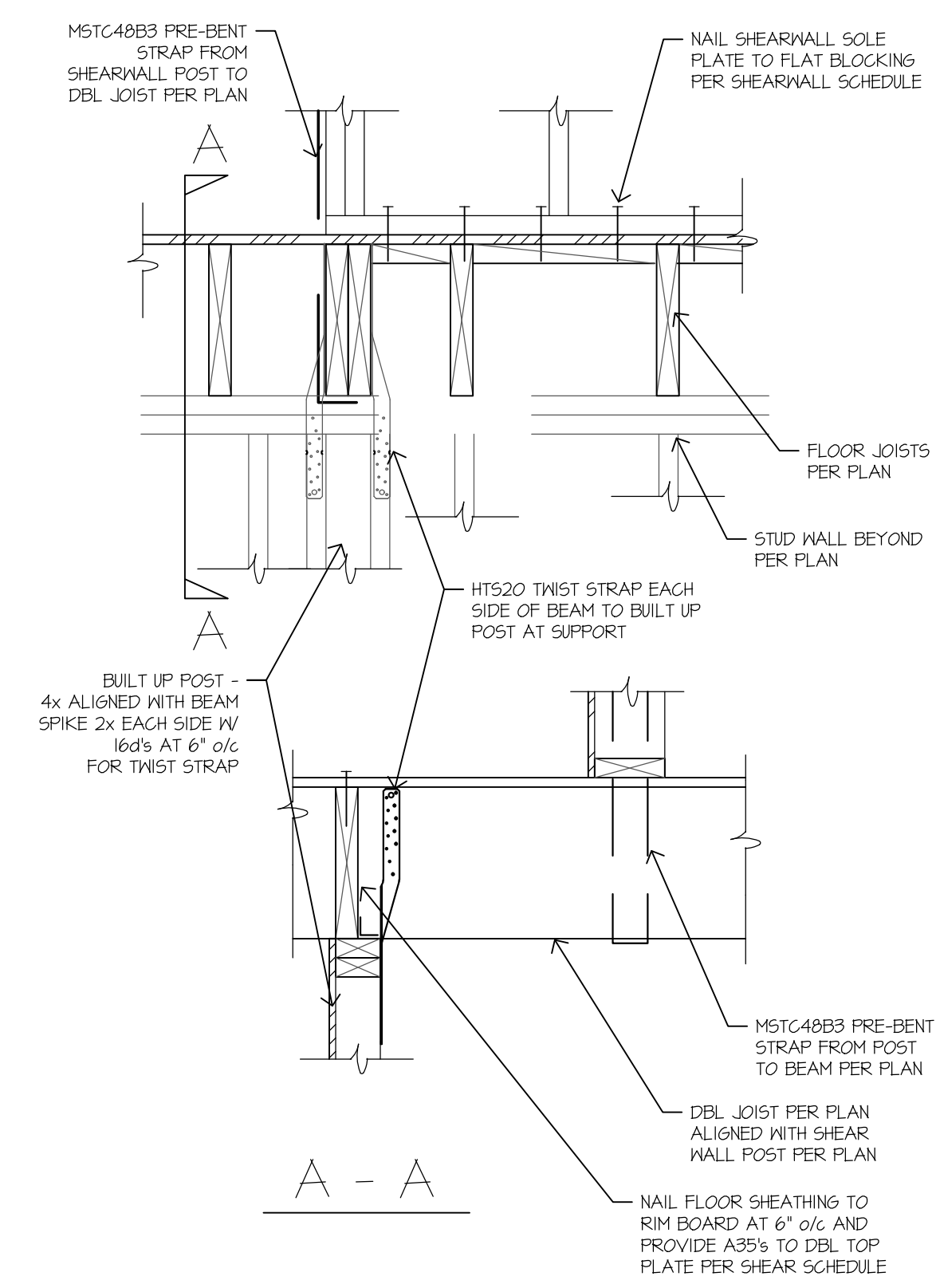
D7 WALL TO WALL HOLDOWN  
SCALE: 1" = 1'-0"



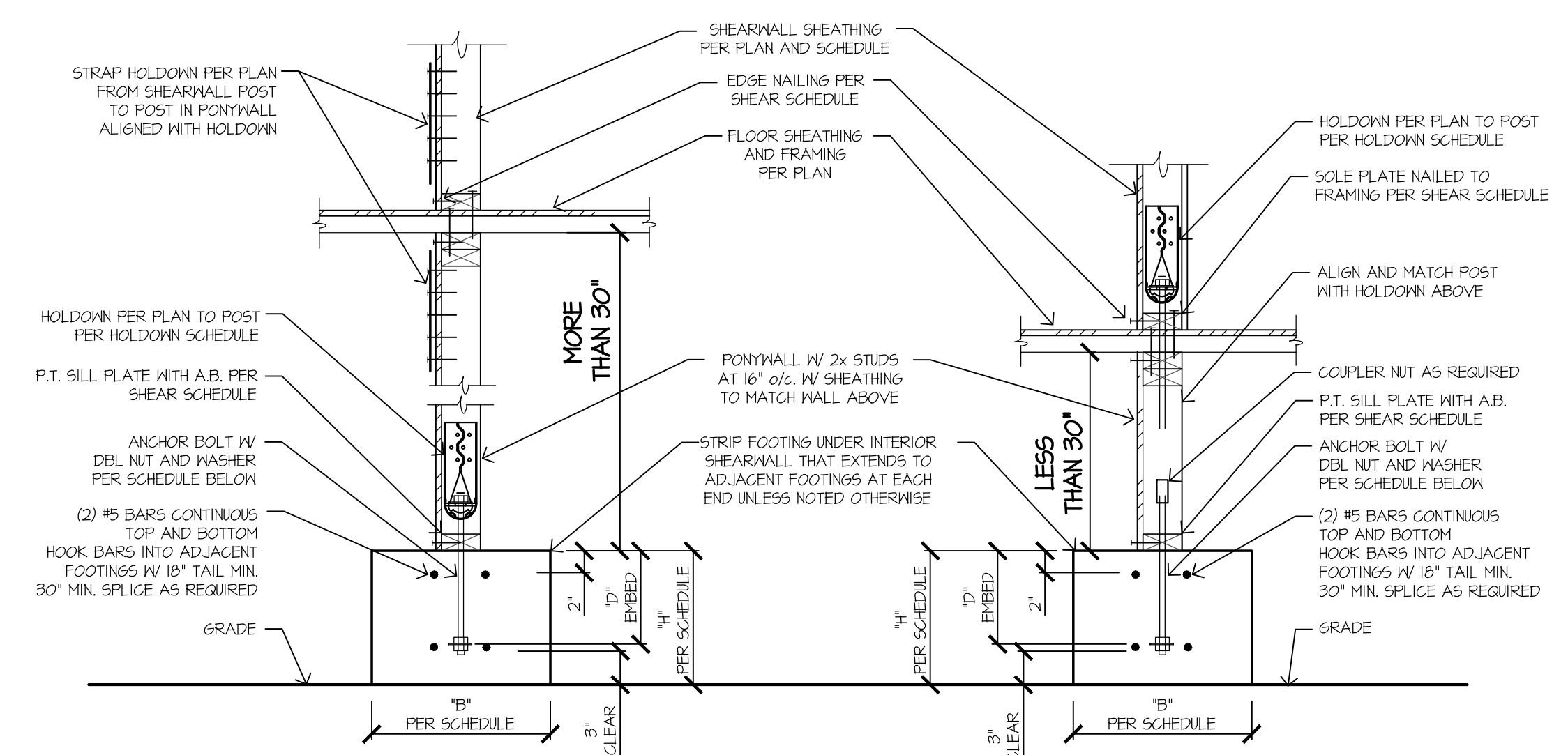
D5 TYP PARALLEL JSTS TO EXT WALL  
SCALE: 1" = 1'-0"



D2 SHEARWALL SHD HOLDOWN  
SCALE: 1" = 1'-0"



D8 HOLDOWN PERP. TO JOISTS  
SCALE: NTS



D3 SHEARWALL FTG. AT POST AND BEAM  
SCALE: 1" = 1'-0"

ANCHOR BOLT SCHEDULE (KIPS)						
1. F <sub>c</sub> = 3000, F <sub>y</sub> = GRADE 60 2. ANCHOR BOLT SHALL BE A36 THREADED ROD WITH DEL NUT AND WASHER EMBEDDED PER SCHEDULE BELOW WITH A MINIMUM OF 3" CONCRETE CLEAR COVER.						
HOLDOWN TYPE	FTG. WIDTH 'B'	FTG. HEIGHT 'H'	ANCHOR EMBED 'D'	A36 THREADED ROD	MIN. WASHER SIZE	CAPACITY
HDU5	15"	14"	4"	5/8" DIA.	2-1/2" DIA. x 1/4"	7.5k
HDU6	18"	16"	12"	1/8" DIA.	3-1/2" DIA. x 5/16"	11.2k
HDU11	30"	18"	14"	1" DIA.	4" DIA. x 3/8"	15.5k
HDU14	34"	20"	16"	1" DIA.	4" DIA. x 3/8"	22.6k

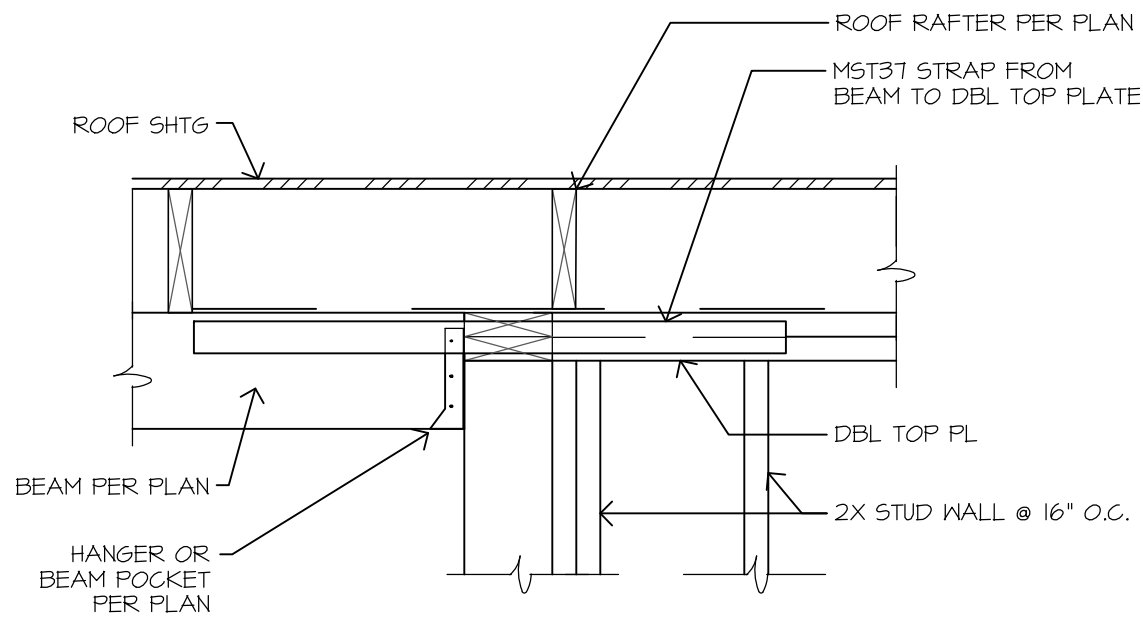
REVISIONS	

PROJECT #  
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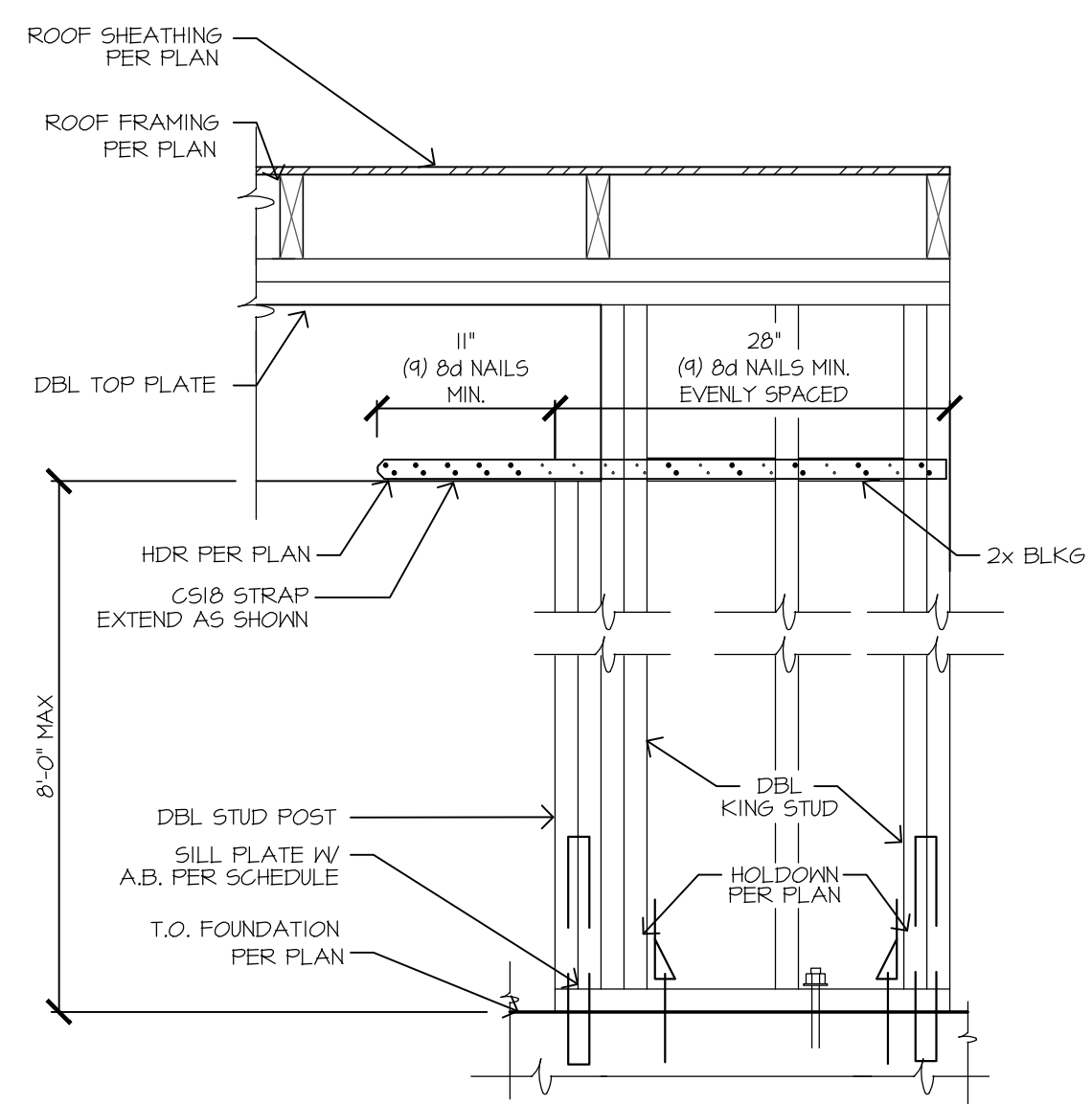
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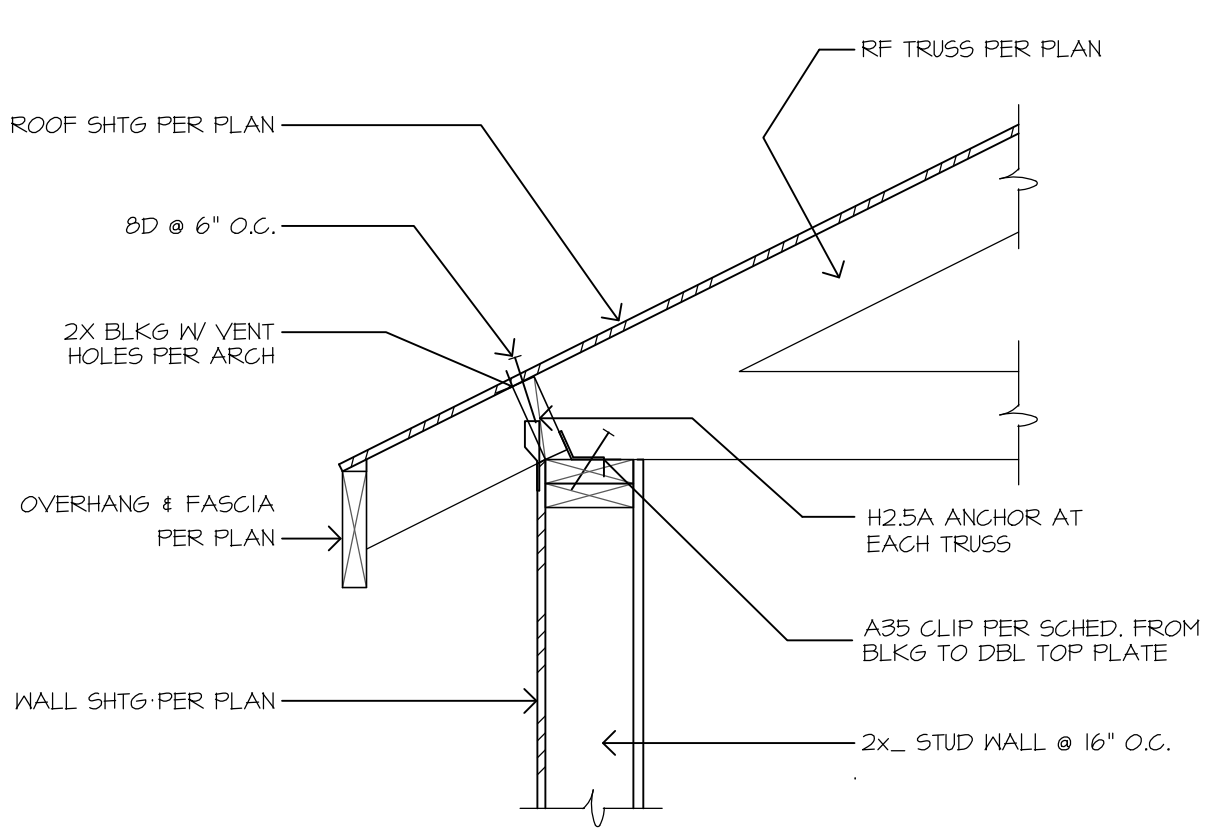
STRUCTURAL  
DETAILS  
7-13-16  
S3  
OF 3



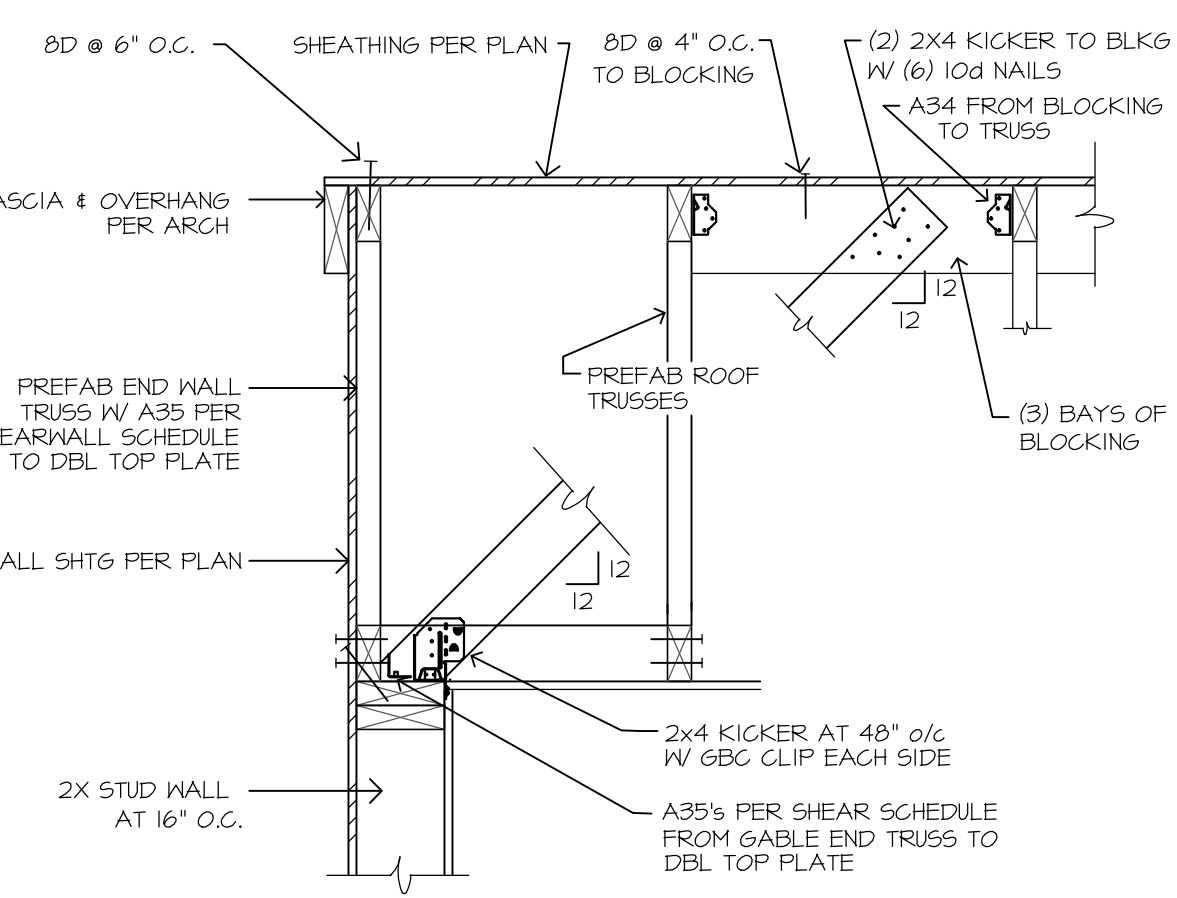
D15 DRAG STRUT/ROOF BEAM  
RF58C2 SCALE: 1" = 1'-0"



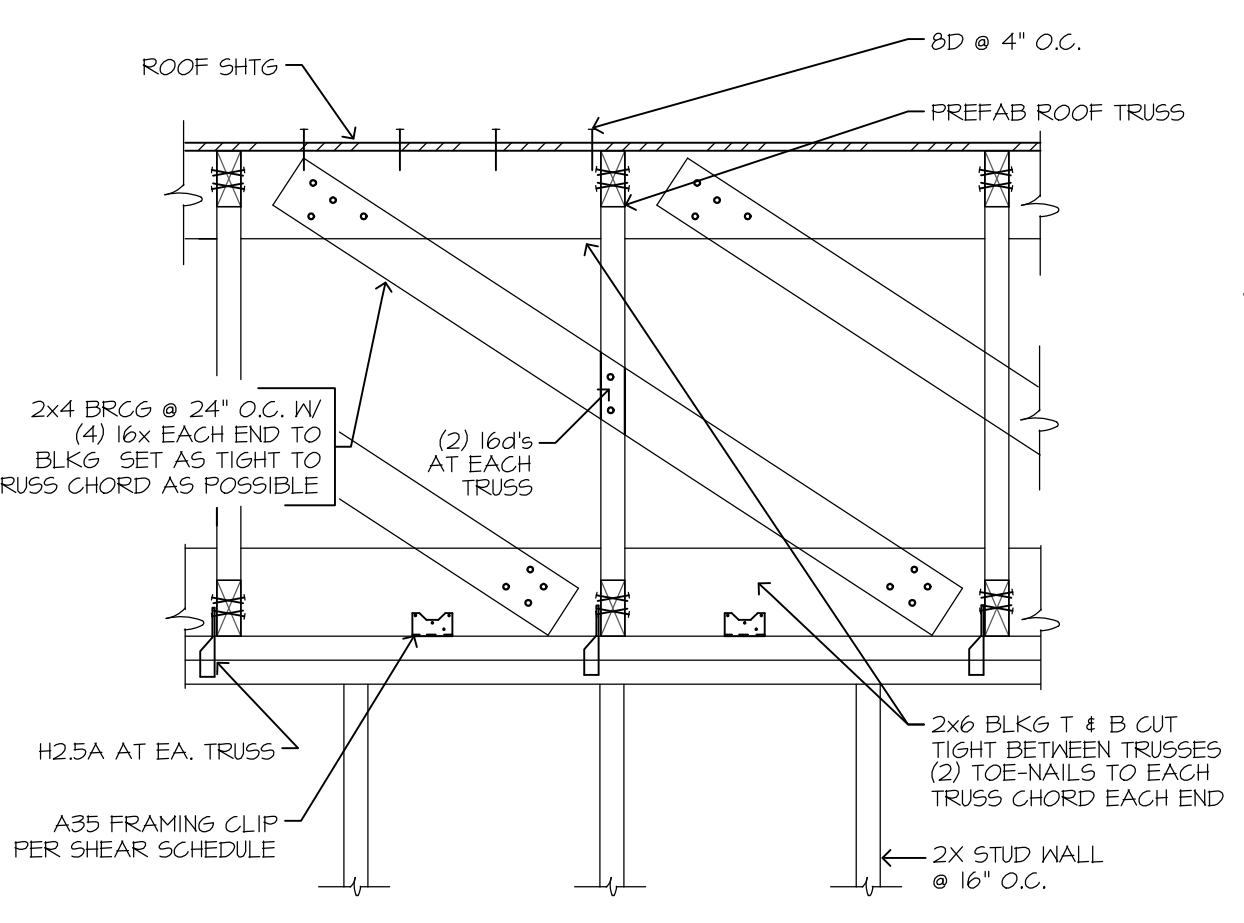
D14 NARROW SHEAR PANEL/  
WINDOW FRAME STRAPPING  
SCALE: 1" = 1'-0"



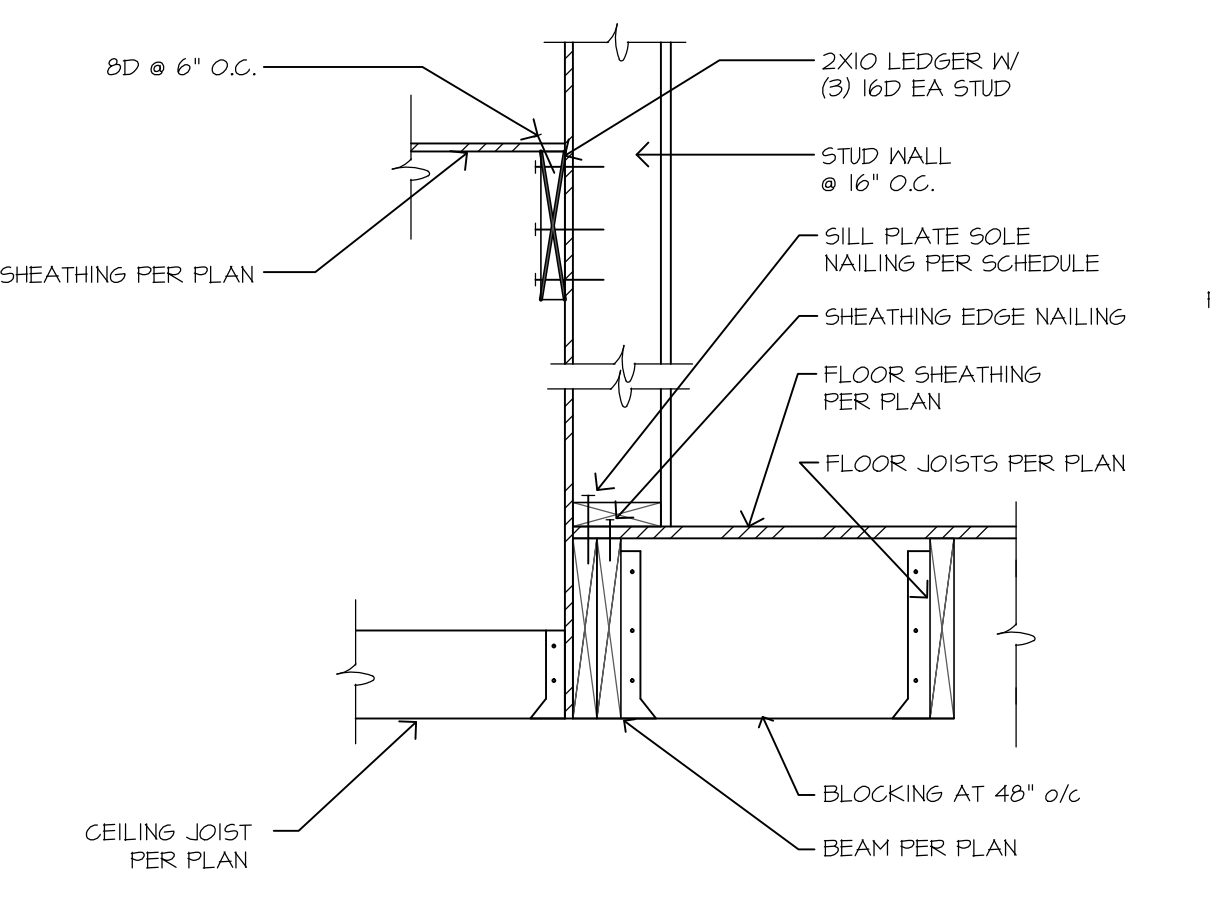
D13 ROOF TRUSS @ EXT WALL  
SCALE: 1" = 1'-0"



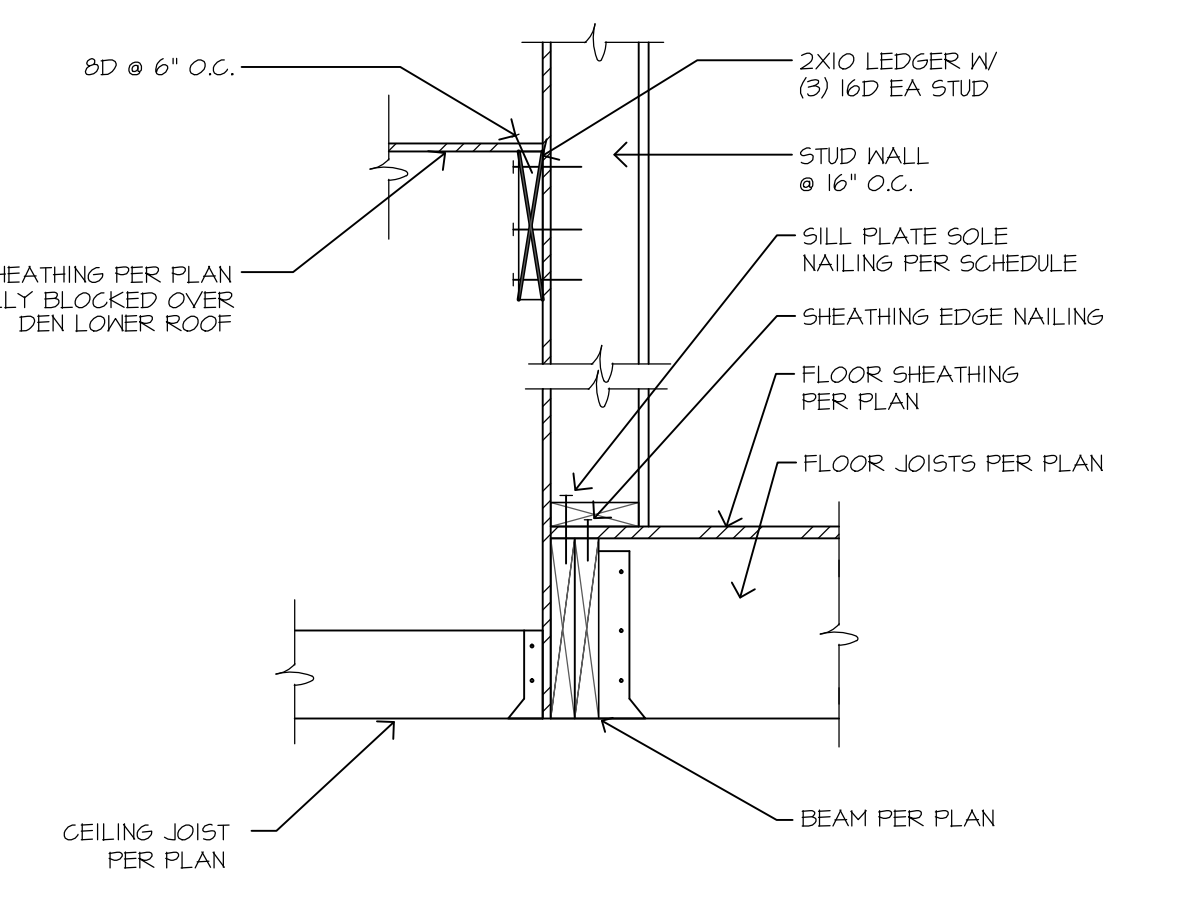
D12 GABLE END WALL TRUSS @ EXT WALL  
SCALE: 1" = 1'-0"



D11 TRUSS X-BRCG/SHEAR WALL  
RFT2B SCALE: 1" = 1'-0"



D10B NEW ROOF & BEAM @ EXIST POST  
SCALE: 1" = 1'-0"



D10A LOWER ROOF AT SHEARWALL  
SCALE: 1" = 1'-0"



