






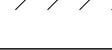


SITE SYMBOL

	PROPERTY LINE		RETAINING WALL
	SETBACK		
	BUILDING FOOTPRINT	+HB	HOSE BIB
	FENCE	 	DRAINAGE PIPE
	EXISTING TREE		

KEYNOTES

- 1 EXISTING 6" CURB
- 2 TYP. EXISTING TREE
- 3 EXISTING GRASS AREA
- 4 EXISTING DRIVEWAY
- 5 EXISTING WATER METER
- 6 EXISTING 6' FENCE W/ CMU BLOCK
- 7 EXISTING FENCE GATE
- 8 EXISTING PAVER
- 9 EXISTING ELECTRICAL METER
- 10 EXISTING STEPS
- 11 EXISTING POOL
- 12 EXISTING DETACHED PATIO COVER
- 13 EXISTING CONDENSER TO BE RELOCATED;
REFER TO KEYNOTE #16
- 14 NEW GAS METER
- 15 EXISTING CONDENSER TO BE RELOCATED;
REFER TO KEYNOTE #16
- 16 NEW CONDENSER
- 17 EXISTING TANKLESS WATER HEATER AT
GARAGE
- 18 NEW CONCRETE SURFACE
- 19 NEW PERGOLA; FRAMING SIZE PER STRUCT.

NO.	DATE	REVISIONS
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CLARK RESIDENCE

5851 OHIO ST.
YORBA LINDA, CA 92886

SITE PLAN

DATE:	2/27/2025 11:12:58 AM
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SHEET OF 13




A-1.0



DEMOLITION NOTES

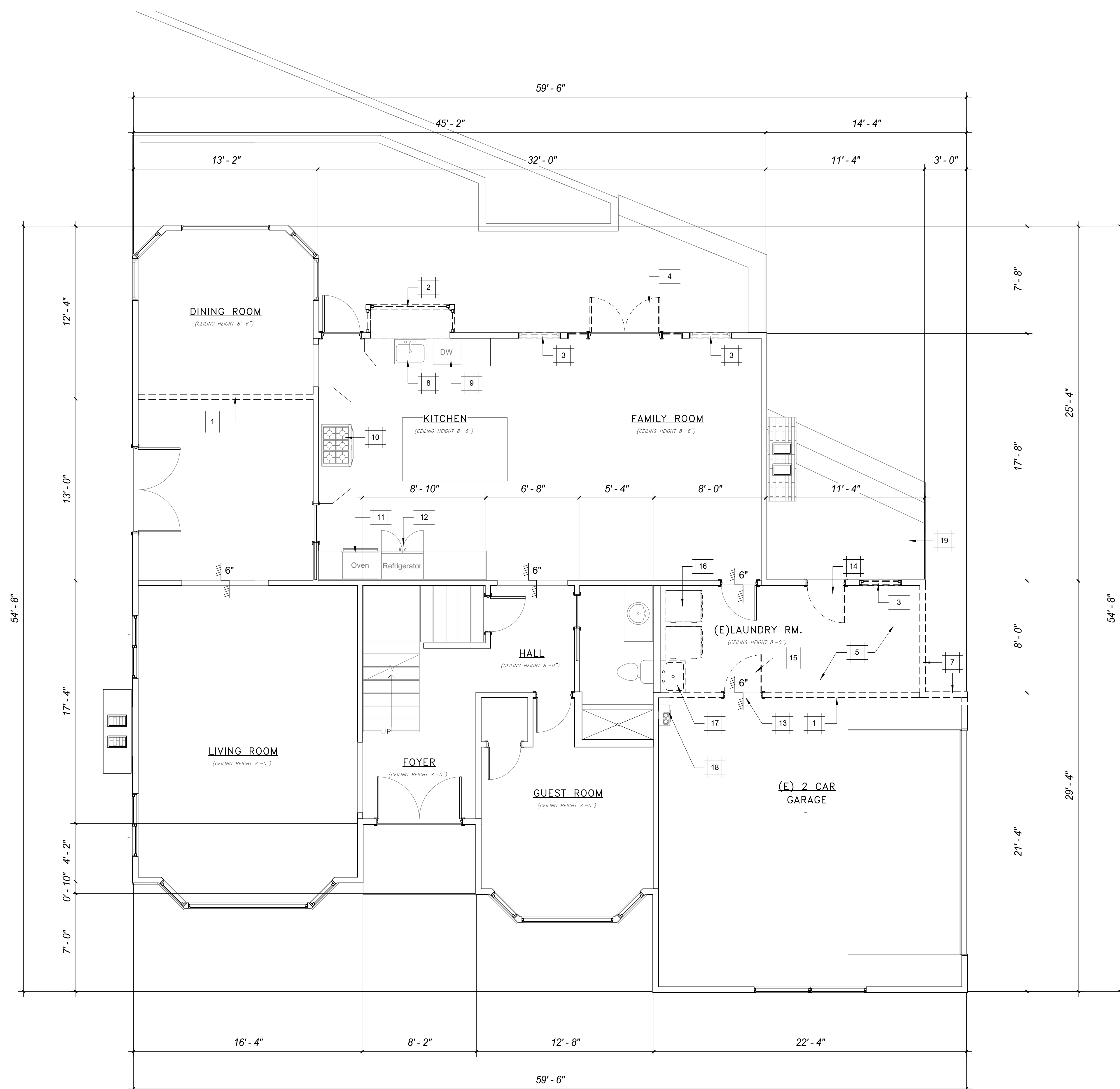
1. CONSTRUCTION SHOULD COMPLY LATEST CALIFORNIA BUILDING CODE.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIM/HERSELF WITH BOTH THE DESIGN DOCUMENTS AND THE EXISTING BUILDING PRIOR TO CONSTRUCTION. SHOULD ANY CONFLICT ARISE BETWEEN THE DRAWINGS AND FIELD CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT.
3. THE CONTRACTOR IS NOTIFIED THAT THE CONTRACTOR TO COORDINATE TO ACCOMMODATE CALIFORNIA REGULATIONS. PROJECT TO BE LEFT BROOM CLEAN DAILY.
4. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND OBTAIN ALL NECESSARY DOCUMENTS TO ASSURE HIMSELF OF THE CONDITION OF THE WORK TO DEMOLISH/REMOVE AND SHALL TAKE ALL PRECAUTIONS TO ENSURE SAFETY OF PERSONS AND PROPERTY.
5. EXISTING FIRE AND SMOKE DETECTION SYSTEMS TO REMAIN IN PLACE UNTIL AFTER DEMOLITIONS AND/OR CONSTRUCTION. PROVIDE ADEQUATE SHORING AND BRACING TO CARRY LOADS AND STRESSES WITHSTOOD BY ITEMS REMOVED, ARE PROCEEDED FOR ADEQUACY OF SUCH CONSTRUCTION AS WELL AS FOR ANY OTHER ASPECTS OF THE BUILDING.
6. BE PROCEED WITH DEMOLITION SYSTEMATICALLY. COORDINATE DEMOLITION WITH CONSTRUCTION TO REMAIN. DEMOLISH IN SMALL SECTIONS AND AVOID OVERLAPPING STRUCTURE AND UTILITIES.
7. REMOVE DEMOLISH ITEMS TO BE REMOVED AND LEGALLY REMOVE FROM SITE. USE DEMOLITIONS METHODS WITH LIMITATION OF GOVERNING REGULATIONS. MATERIALS NOT INDICATED FOR REUSE OR RESERVED FOR OWNER, AS WELL AS RUBBLE AND DEBRIS RESULTING FROM THESE OPERATIONS, SHALL BE THE PROPERTY OF THE CONTRACTOR. LEGALLY REMOVE FREQUENTLY FROM SITE.
9. PROVIDE TEMPORARY ENCLOSURE AT EXTERIOR WALLS AND FLOOR NEATLY CONSTRUCTED TO FROM THIGH FIB BEFORE EXTERIOR INTERIOR FINISHES TO BUILDING. TEMPORARY ENCLOSURES SHALL BE CONSTRUCTED OF FIRE RESISTANT, WEATHERPROOF CONSTRUCTION ADEQUATELY SEALED TO PREVENT PASSAGE OF HEAT AND ELEMENTS.
10. EXERCISE CARE IN REMOVING SALVAGEABLE ITEMS SCHEDULED FOR REUSE OR RESERVE FOR OTHER AREA. APPROVE BY THE OWNER, AND PROTECTED FROM DAMAGE DURING SUCH STORAGE. CLEAN ITEMS AS NECESSARY FOR REUSE FOR OTHER STORAGE.
11. REMOVE ALL DOORS AND WINDOWS AS SHOWN IN DEMOLISHING PLAN. SEE A-2-0 FOR PROPOSED WORK.
12. EXISTING INTERIOR FLOOR FINISHING TO BE REMOVED AS WELL AS ALL WALL FINISHES. PREP WALL AND FLOOR FOR NEW FINISHES, U.O.N.
13. EXISTING FINISH CEILING TO BE REMOVED AND PREP FOR NEW CEILING FINISH, U.O.N.

LEGEND

	EXISTING WALL TO REMAIN
	EXISTING WALL TO DEMO
	NEW WALL

KEYNOTES

- 1 DEMO EXISTING INTERIOR WALL
- 2 DEMO EXISTING BAY WINDOW & REPLACE WITH SLIDER
- 3 DEMO EXISTING WINDOW
- 4 DEMO EXISTING FRENCH DOOR
- 5 DEMO EXISTING LAUNDRY ROOM & CONVERT THE AREA INTO THREE CAR GARAGE
- 6 CONVERT THE AREA INTO (N)LAUNDRY ROOM
- 7 DEMO EXISTING EXTERIOR WALL
- 8 EXISTING SINK TO REMAIN
- 9 EXISTING DISHWASHER TO REMAIN
- 10 EXISTING RANGE & KITCHEN HOOD TO REMAIN
- 11 EXISTING OVEN TO REMAIN
- 12 EXISTING REFRIGERATOR TO REMAIN
- 13 DEMO EXISTING FLOOR @ LAUNDRY ROOM TO LEVEL W/ (E) 2 CAR GARAGE
- 14 DEMO EXISTING EXTERIOR DOOR
- 15 DEMO EXISTING INTERIOR DOOR
- 16 DEMO EXISTING WASHER & DRYER
- 17 DEMO EXISTING SINK
- 18 EXISTING TANKLESS WATER HEATER TO REMAIN
- 19 EXISTING LANDING



(E) 1ST FLOOR PLAN

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

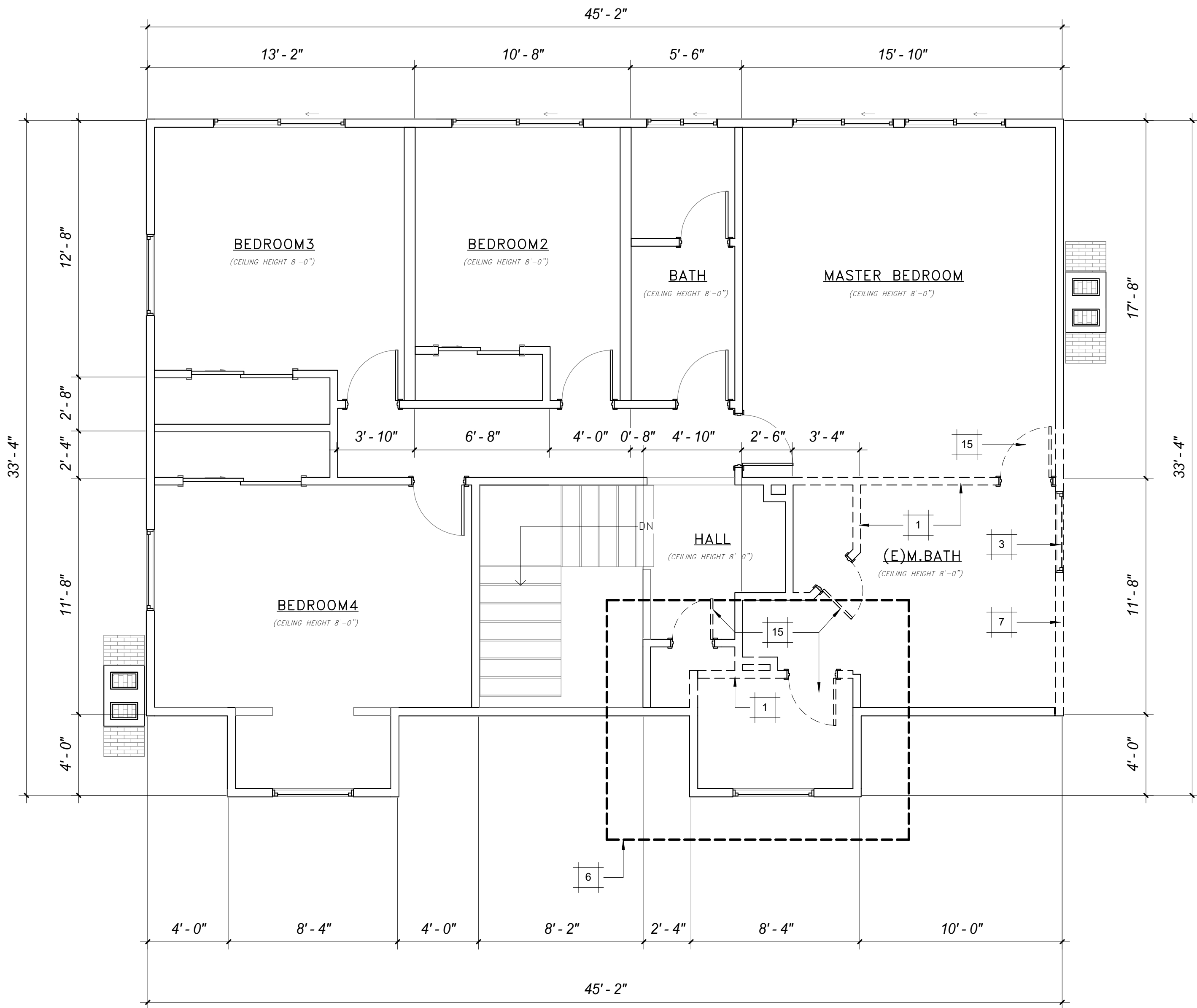
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SHEET OF 12

***** WRITTEN DIMENSIONS ON THESE DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY, AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THE DRAWINGS. *****

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(E)2ND FLOOR PLAN

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

DEMOLITION NOTES

- CONSTRUCTION SHOULD COMPLY LATEST CALIFORNIA BUILDING CODE.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIM/HER SELF WITH BOTH THE DESIGN DOCUMENTS AND THE EXISTING BUILDING PRIOR TO CONSTRUCTION. SHOULD ANY CONFLICT ARISE BETWEEN THE DRAWINGS AND FIELD CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT.
- DEMOLITION AS NOTED ON PLANS. CONTRACTOR TO COORDINATE TO ACCOMMODATE CALIFORNIA REGULATIONS. PROJECT TO BE LEFT BROOM CLEAN DAILY.
- THE CONTRACTOR SHALL INVESTIGATE THE SITE AND AVAILABLE DOCUMENTATION TO ASSURE HIM/HER SELF OF THE CONDITION OF THE WORK TO DEMOLISHED AND SHALL TAKE ALL PRECAUTIONS TO ENSURE SAFETY OF PERSONS AND PROPERTY.
- EXISTING FIRE AND SMOKE DETECTION SYSTEMS TO REMAIN ON OPERATION DURING DEMOLITIONS AND CONSTRUCTION.
- PROVIDE ADEQUATE SHORING AD BRACING TO CARRY LOADS AND STRESSES WITHSTOOD BY ITEMS REMOVED. ARE RESPONSIBLE FOR ADOQUAY OF SUCH CONSTRUCTION AS WELL AS FOR ANY DAMAGE TO EXISTING BUILDINGS. PROCEED WITH DEMOLITIONS SYSTEMATICALLY. COORDINATE DEMOLITION WITH CONSTRUCTION TO REMAIN. DEMOLISH IN SMALL SECTIONS AND AVOID OVERLAPPING STRUCTURE AND UTILITIES.
- SELECTIVE DEMOLISH ITEMS TO BE REMOVED AND LEGALLY REMOVE FROM SITE. USE DEMOLITIONS METHODS WITH LIMITATION OF GOVERNING REGULATIONS. MATERIALS NOT INDICATED FOR REUSE OR RESERVED FOR OWNER, AS WELL AS RUBLE AND DEBRIS RESULTING FROM THESE OPERATIONS, BECOME THE PROPERTY OF THE CONTRACTOR. LEGALLY REMOVE FREQUENTLY FROM SITE.
- PROVIDE TEMPORARY ENCLOSURE AT EXTERIOR WALLS AND FLOOR NEATLY CONSTRUCTED TO FROM THIGH FIT BEFORE EXPOSING INTERIOR OF EXISTING BUILDING. TEMPORARY ENCLOSURES SHALL BE CONSTRUCTED OF FIRE RESISTANT. WEATHERPROOF CONSTRUCTION ADEQUATELY SEALED TO PREVENT PASSAGE OF HEAT AND ELEMENTS.
- EXERCISE CARE IN REMOVING SALVAGEABLE ITEMS SCHEDULE FOR REUSE. STORE SUCH ITEMS IN AN AREA APPROVE BY THE OWNER, AND PROTECTED FROM DAMAGE DURING SUCH STORAGE. CLEAN ITEMS AS NECESSARY FOR REUSE PRIOR TO STORAGE.
- REMOVE ALL DOORS AND WINDOWS AS SHOWN IN DEMOLISHING PLAN. SEE A-2.0 FOR PROPOSED WORK.
- EXISTING INTERIOR WOOD FLOORING TO BE REMOVED AS WELL AS ALL WALL FINISHES. PREP WALL AND FLOOR FOR NEW FINISHES. U.O.N.
- EXISTING FINISH CEILING TO BE REMOVED AND PREP FOR NEW CEILING FINISH. U.O.N.

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO DEMO
- NEW WALL

KEYNOTES

- DEMO EXISTING INTERIOR WALL
- DEMO EXISTING BAY WINDOW & REPLACE WITH SLIDER
- DEMO EXISTING WINDOW
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- DEMO EXISTING EXTERIOR DOOR
- DEMO EXISTING INTERIOR DOOR
- DEMO EXISTING WASHER & DRYER
- DEMO EXISTING SINK
- EXISTING TANKLESS WATER HEATER TO REMAIN
- EXISTING LANDING

TOTAL ENGINEERING SERVICES
CIVIL - STRUCTURAL DESIGN
15375 BARRANCA PARKWAY SUITE
A-203 IRVINE, CA 92618
TEL NO (949) 416-7705
FAX NO (949) 606-8122
EMAIL: YSalem@TDS-AE.COM

REGISTERED PROFESSIONAL ENGINEER
54902
01/10/2018
STRUCTURAL
STATE OF CALIFORNIA

CLARK RESIDENCE
5855 OHIO ST
YORBA LINDA, CA 92886
DEMO PLAN

NO.	DATE	REVISIONS
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DATE: 12/18/2024 11:05:09 AM
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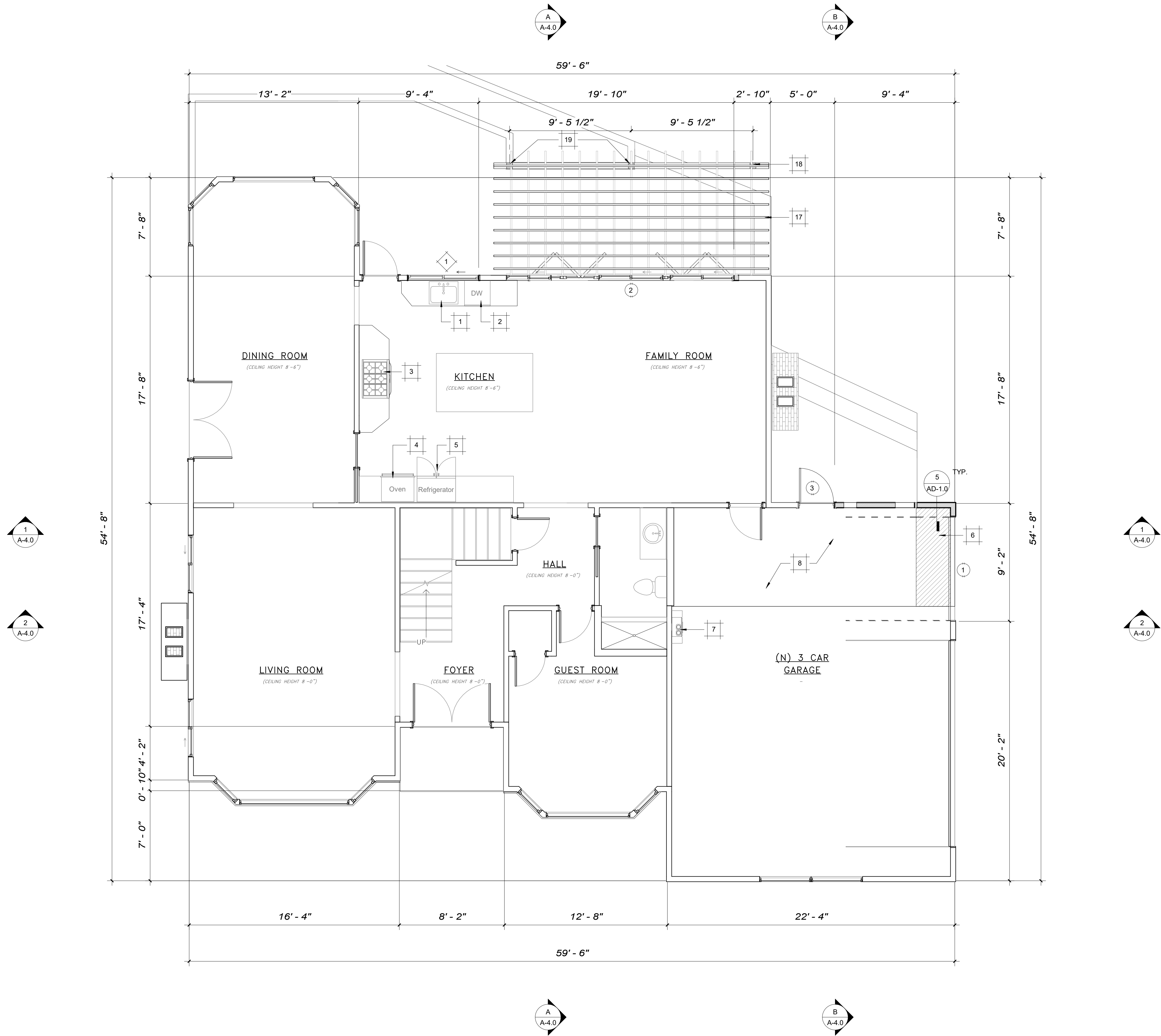
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A-2.1

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(N) 1ST FLOOR PLAN

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

GENERAL NOTES

- ALL INTERIOR DOORS SHALL BE HOLLOW CORE WITH 1" THICK. U.N.O. AT 1. 8 DOUBLE INTERIOR DOOR CONDITIONS PROVIDE DEADBOLT AT TOP OF INACTIVE DOOR.
- ALL EXTERIOR FRENCH DOORS SHALL BE SOLID CORE WITH 1" THICK. AT 2. DOUBLE FRENCH DOOR PROVIDE DEADBOLT AT TOP AND BOTTOM OF INACTIVE DOOR.
- ALL GARAGE DOORS SHALL BE SOLID CORE WITH 1 3/8" THICK OR 20 MINUTE RATED DOOR AT OPENING DWELLING.
- ALL ENTRY DOORS SHALL BE SOLID CORE WITH 1 3/4" THICK. AT DOUBLE ENTRY 4. 4 DOOR PROVIDE DEADBOLT AT TOP & BOTTOM OF INACTIVE DOOR
- ALL DOORS ACCESS FROM THE GARAGE TO THE HOUSE SHALL BE 5. 3 ONE-HOUR RATED, SOLID CORE WITH 1 3/8" THICK AND SHALL BE SELF 8 CLOSING & TIGHT FITTING
- ESCAPE OR RESCUE WINDOW SHALL HAVE A MIN. NET CLEAR OPENABLE 6. AREA OF 5.7 SQ. FT. TO BE VERIFIED WITH WINDOW MANUFACTURER. THE MIN. NET CLEAR OPENABLE DIMENSIONS SHALL BE AS FOLLOWS: 24 INCHES MIN. FOR HEIGHT 20 INCHES MIN. FOR WIDTH WITH A WINDOW FINISHED SILL HEIGHT NOT MORE THAN 44 INCHES ABOVE FIN. FLOOR PER C.B.C. SEC. 310.4

ADDITIONAL NOTES:

- CONTRACTOR SHALL POST THE INSTALLATION CERTIFICATE (IC-1) FORM AND INSULATION CERTIFICATE (IC-1) FORM IN A CONSPICUOUS LOCATION OR KEPT WITH PLANS AND MADE AVAILABLE TO THE INSPECTOR.
- CONTRACTOR SHALL PROVIDE COPIES OF THE CF-1R, MF-1R, CF-6F AND IC-1 FORMS TO THE BUILDING OWNER.

EXISTING CONDITIONS:

ALL DIMENSIONS & INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS ARE GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY

PLUMBING NOTES:

- ALL SHOWERS AND TUB-SHOWERS SHALL HAVE A PRESSURE BALANCE, THERMOSTATIC MIXING VALVE, OR A COMBINATION PRESSURE BALANCE/THERMOSTATIC MIXING TYPE VALVE
- ALL NEW, REPLACEMENT AN EXISTING WATER HEATERS SHALL BE STRAPPED TO THE WALL IN TWO PLACES. ONE IN THE UPPER 1/3 OF THE TANK AND ONE IN THE LOWER 1/3 OF THE TANK. THE LOWER POINT SHALL BE A MINIMUM OF 4-IN. ABOVE THE CONTROLS.

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO DEMO
- NEW WALL

KEYNOTES

- EXISTING SINK TO REMAIN
- EXISTING DISHWASHER TO REMAIN
- EXISTING RANGE & KITCHEN HOOD TO REMAIN
- EXISTING OVEN TO REMAIN
- EXISTING REFRIGERATOR TO REMAIN
- ADDITION @ 1ST. FLR.: 24 SQ.FT.
- EXISTING TANKLESS WATER HEATER TO REMAIN
- DEMO EXISTING FLOOR @ LAUNDRY ROOM TO LEVEL W/ (E) 2 CAR GARAGE
- ADDITION @ 2ND. FLR.: 195 SQ.FT.
- NEW VANITY SINK; OWNER TO SELECT
- NEW SHOWER
- NEW WATER CLOSET
- NEW FREE STANDING TUB
- NEW LINEN CLOSET
- NEW SINK; OWNER TO SELECT
- NEW WASHER & DRYER; OWNER TO SELECT
- NEW PERGOLA; FRAMING SIZE PER STRUCT.
- NEW PERGOLA ABOVE; FRAMING SIZE PER STRUCT.
- NEW POST SEATING ON TOP OF THE EXISTING GARDEN WALL

TOTAL ENGINEERING SERVICES

CIVIL - STRUCTURAL - DESIGN

15375 BARRANCA PARKWAY, SUITE A-209, IRVINE, CA 92618

TEL. NO. (949) 418-7705

FAX NO. (949) 606-8122

EMAIL: YSalem@TDS-AE.COM

TDS

REGISTERED PROFESSIONAL ENGINEER

NO. 4902

EXPIRATION DATE 12/31/2026

STATE OF CALIFORNIA

CLARK RESIDENCE

585 OHIO ST.

YORBA LINDA, CA 92886

PROPOSED FLOOR PLAN

NO.	DATE	REVISIONS
1		
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DATE: 1/2/2025 5:44:18 PM

JOB NO:

DRAWN: JL

CHECKED: Checker

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DATE: 1/2/2025 5:44:18 PM

JOB NO:

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THE ABOVE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREIN ARE AND SHALL REMAIN THE PROPERTY OF THE DESIGNERS AND INVENTORS.

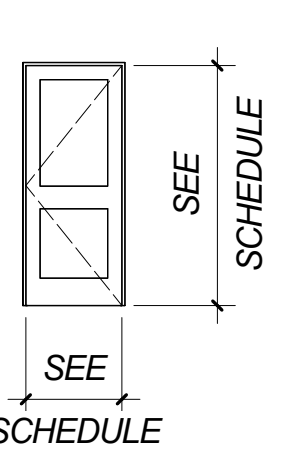
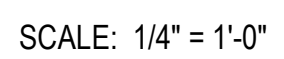


Diagram of a double door unit. The unit is shown with two doors, each with a handle and a lock. The dimensions are indicated by arrows and text: the height is labeled "SEE SCHEDULE" and the width is labeled "SEE SCHEDULE".

NEW WINDOW SCHEDULE								
MARK	WIDTH	HEIGHT	SILL HEIGHT	TYPE	GLAZED	SHGC	U-FACTOR	QUANTITY
1	5' - 6"	3' - 6"	3' - 0"	A				1
2	3' - 6"	2' - 0"	5' - 0"	A				1
3	2' - 6"	2' - 0"	5' - 0"	A				1
4	2' - 4"	4' - 0"	3' - 0"	B	TEMP.			3

- 1 EXISTING SINK TO REMAIN
- 2 EXISTING DISHWASHER TO REMAIN
- 3 EXISTING RANGE & KITCHEN HOOD TO REMAIN
- 4 EXISTING OVEN TO REMAIN
- 5 EXISTING REFRIGERATOR TO REMAIN
- 6 ADDITION @ 1ST. FLR.: 24 SQ.FT.
- 7 EXISTING TANKLESS WATER HEATER TO REMAIN
- 8 DEMO EXISTING FLOOR @ LAUNDRY ROOM TO LEVEL W/ (E) 2 CAR GARAGE
- 9 ADDITION @ 2ND. FLR.: 195 SQ.FT.
- 10 NEW VANITY SINK; OWNER TO SELECT
- 11 NEW SHOWER
- 12 NEW WATER CLOSET
- 13 NEW FREE STANDING TUB
- 14 NEW LINEN CLOSET
- 15 NEW SINK; OWNER TO SELECT
- 16 NEW WASHER & DRYER; OWNER TO SELECT

SHEET OF 12
A-2.3

A-2.3

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KEYNOTES

- 1 ROOF ADDITION W/ SHINGLE; MATCH W/ EXISTING
- 2 NEW SHIPLAP SIDING; MATCH W/ EXISTING
- 3 NEW STUCCO FINISH; MATCH W/ EXISTING
- 4 EXISTING ROOF TO DEMO
- 5 EXISTING GARDEN WALL
- 6 NEW PERGOLA; FRAMING SIZE PER STRUCT.
- 7 NEW POST SEATING ON TOP OF THE EXISTING GARDEN WALL
- 8 NEW POST

ELEVATION NOTES

1. ANY ADDITION OR CHANGES MADE TO THE APPROVED EXTERIOR ELEVATION DESIGN EITHER ON THE DRAWINGS OR DURING CONSTRUCTION WILL REQUIRE PLANNING DIVISION AND BUILDING & SAFETY DIVISION REVIEW AND APPROVAL AND MAY RESULT IN A DELAY OF THE PROJECT OR THE REMOVAL OF NON-APPROVED WORK

2. THE EXPOSED UNDERSIDE OF EXTERIOR PORCH AND/ OR COVERED DECK CEILING SHALL BE SHEATED WITH HARDIE NONCOMBUSTIBLE SIDING

3. ALL NEW FINISH MATERIAL INCLUDING STUCCO, ROOFING, WINDOW, DOOR & FINISH TRIM SHALL MATCH WITH EXISTING MAIN HOUSE IN COLOR & STYLE

GREEN BUILDING CODE:
a-PRIOR TO GRANTING FINAL INSPECTION, THE CONTRACTOR SHALL SUBMITT RECEIPTS AND INVOICES FOR ALL SOLID WASTE DISPOSAL OF CONSTRUCTION TO THE BUILDING AND SAFETY. BY THE PERMIT APPLICATION, 65% OF HAZARDOUS CONSTRUCTION MATERIAL SHALL BE RECYCLED OR SALVAGED FOR REUSE

ADDRESS LETTERS/NUMBER NOTE:
ADDRESS LETTERS/NUMBERS SHALL BE MINIMUM 4 INCHES HIGH WITH A MINIMUM STROKE WIDTH OF 1/2 INCH, AND SHALL CONTRAST WITH THEIR BACKGROUND PER CRC R 319.1

TOTAL ENGINEERING SERVICES
CIVIL - STRUCTURAL - DESIGN
15375 BARRANCA PARKWAY,
SUITE A-209 IRVINE, CA 92618
TEL NO. (949) 418-7705
FAX NO. (949) 606-8122
EMAIL: YSalem@TDS-AE.COM

YES

REGISTERED PROFESSIONAL ENGINEER
No. 44902
EXPIRATION 12/31/2026
STATE OF CALIFORNIA

CLARK RESIDENCE
5851 OHIO ST.
YORBA LINDA, CA 92886

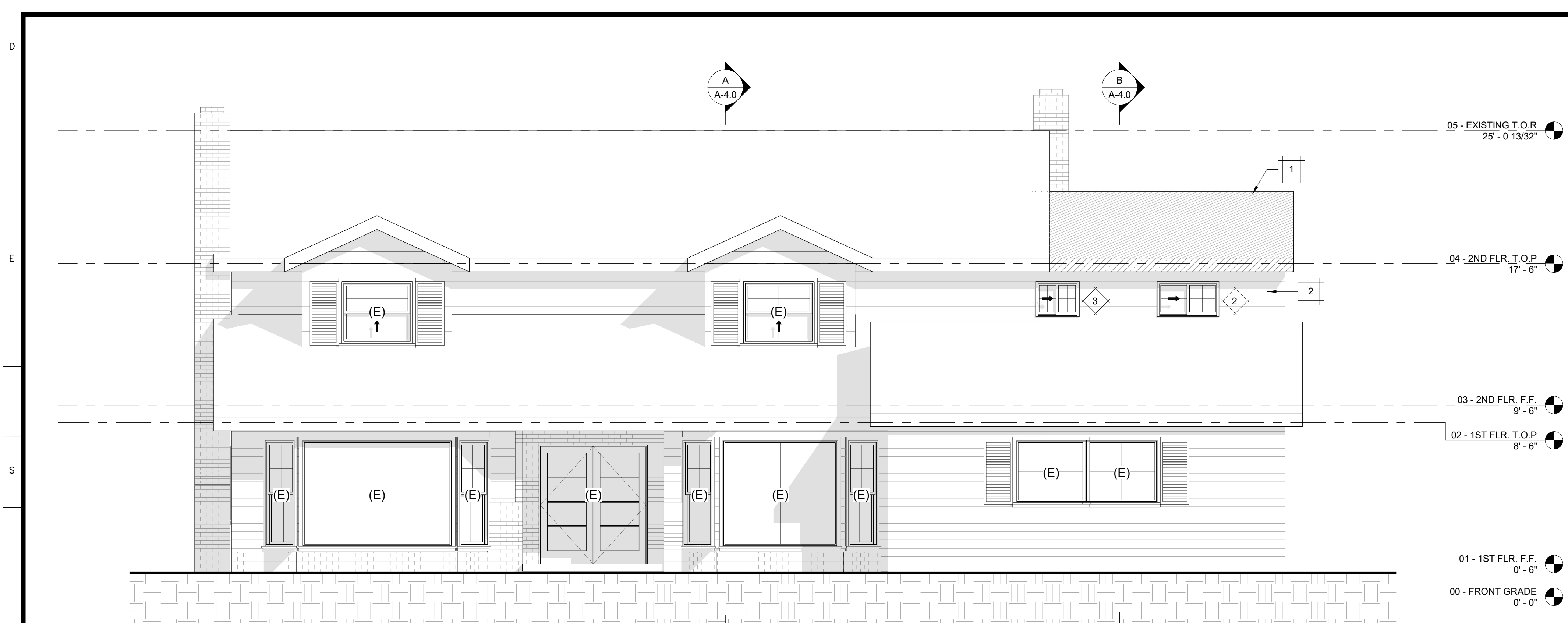
ELEVATION

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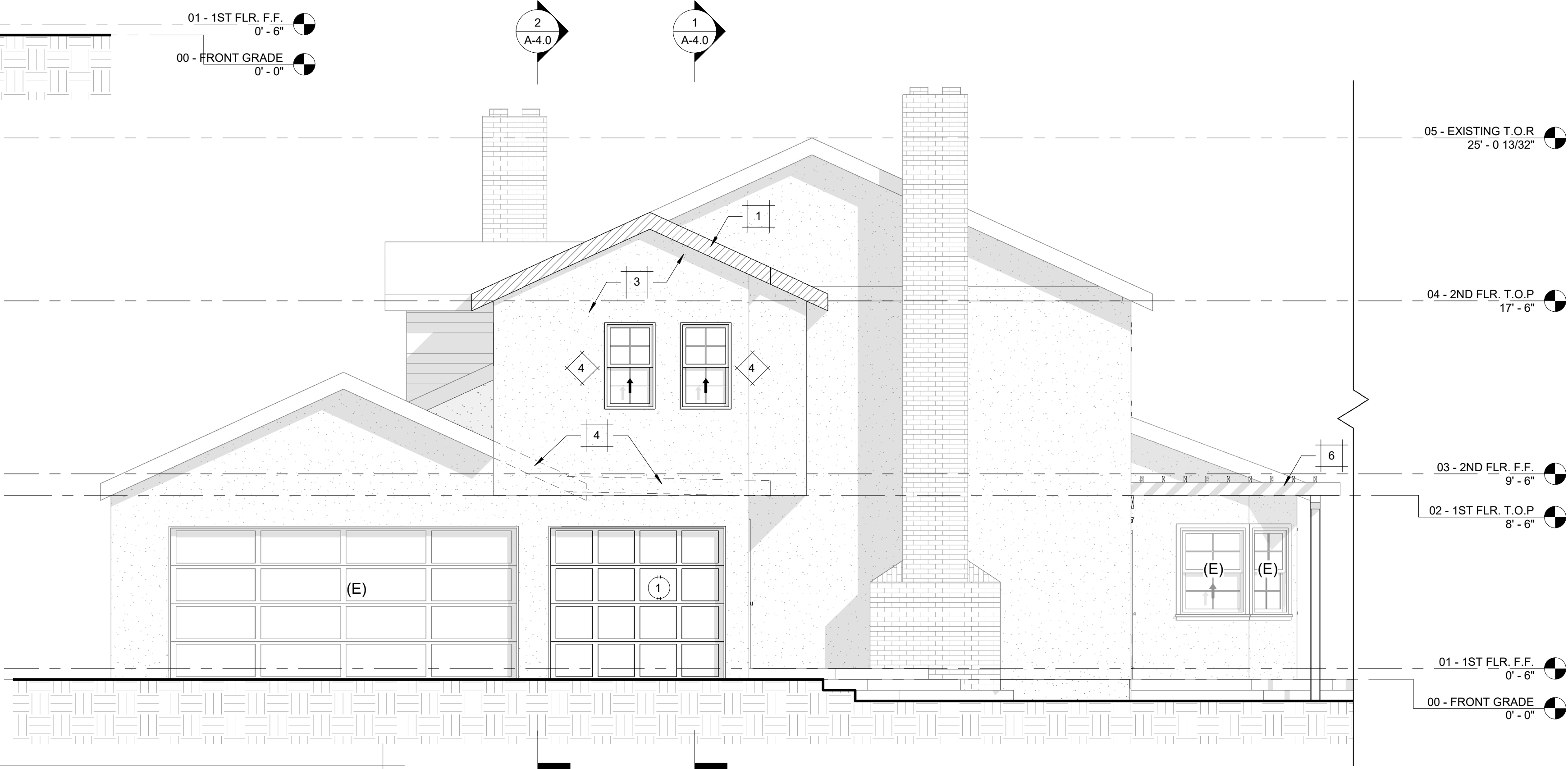
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(N) FRONT ELEVATION

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



(N) RIGHT ELEVATION

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



(N) REAR ELEVATION

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

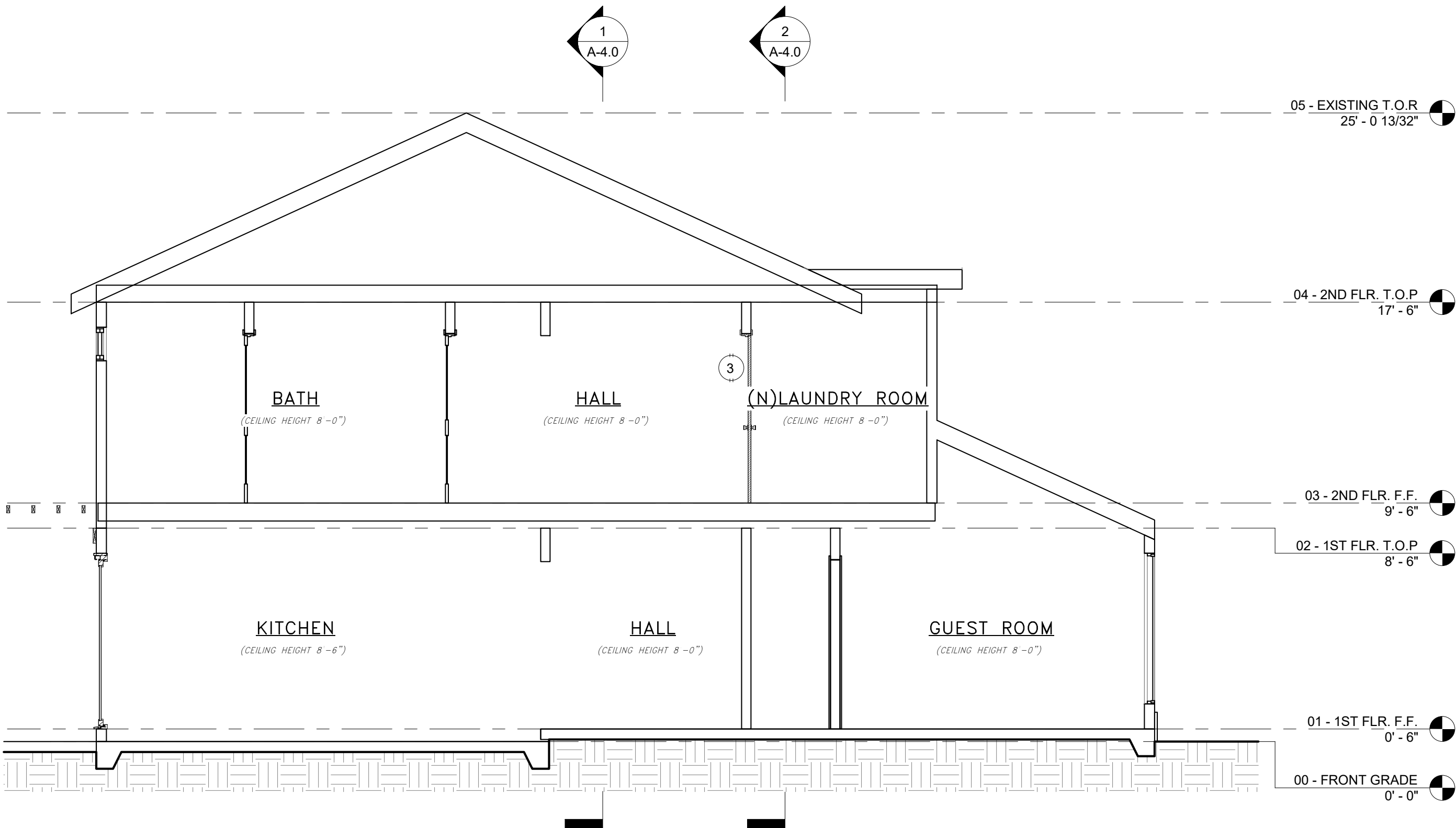
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KEYNOTES

- | | | | |
|---|---|---|------------------------|
| 1 | ROOF ADDITION W/ SHINGLE; MATCH W/ EXISTING | 7 | NEW SLAB ON GRADE |
| 2 | PROVIDE R-30 INSULATION | 8 | EXISTING SLAB ON GRADE |
| 3 | NEW CEILING JOIST; SIZE PER STRUCT. | 9 | TOP OF PLATE |
| 4 | NEW STUCCO FINISH; MATCH W/ EXISTING | | |
| 5 | PROVIDE R-15 INSULATION | | |
| 6 | PROVIDE 5/8" TYPE X GYPSUM BOARD AT ALL WALLS/CEILING OF GARAGE | | |

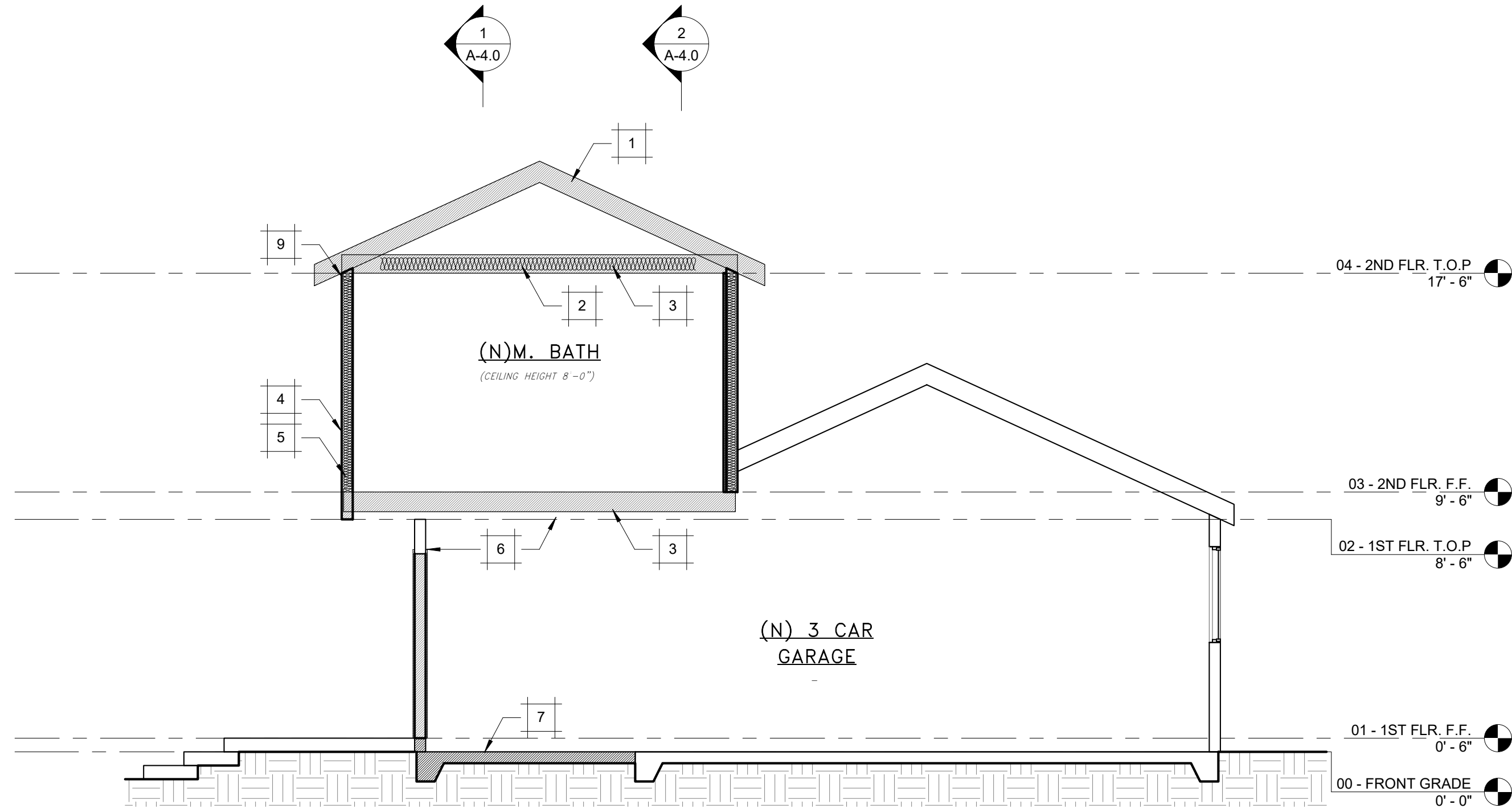
SECTION NOTES

ROOF COVERINGS SHALL BE CLASS A AS SPECIFIED IN SECTION R902.1. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND THE ROOF DECKING, WALKING SURFACE MATERIAL OF DECKS, PORCHES, BALCONIES AND STAIRS LOCATED WITHIN 10 FEET OF THE BUILDING SHALL BE IGNITION-RESISTANT MATERIAL COMPLYING WITH BOTH SFM 12-7A-4 AND SFM 12-7A-5. EXTERIOR FIRE RETARDANT-TREATED WOOD, NONCOMBUSTIBLE MATERIAL OR MEET THE REQUIREMENTS OF SFM 12-7A-4A WHEN THE EXTERIOR WALL COVERING IS EITHER NONCOMBUSTIBLE OR IGNITION-RESISTANT. [§8R337.9.2, R337.9.3 CRC] SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909 INSTALLED OVER THE COMBUSTIBLE DECKING, WOOD SHINGLES AND WOOD SHAKES ARE PROHIBITED. [§8R337.5.2 CRC]



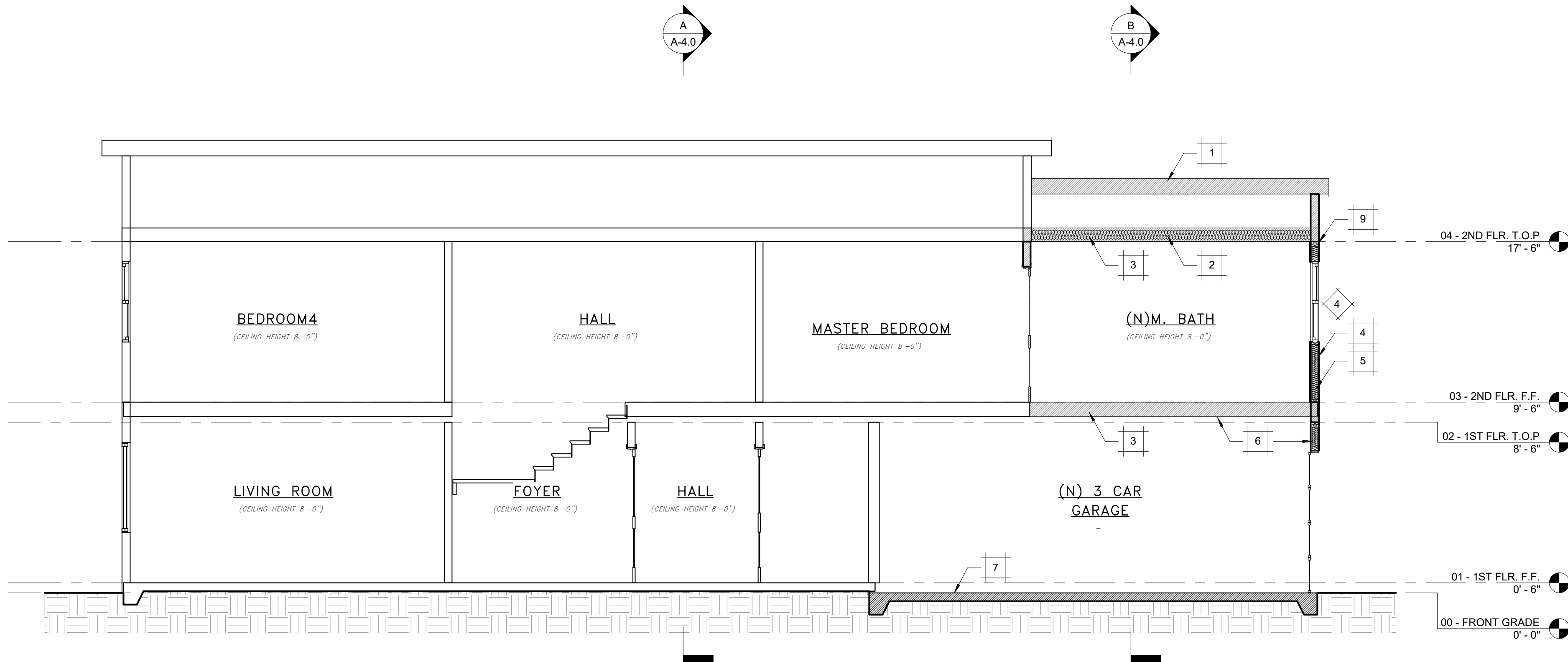
SECTION A-A

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



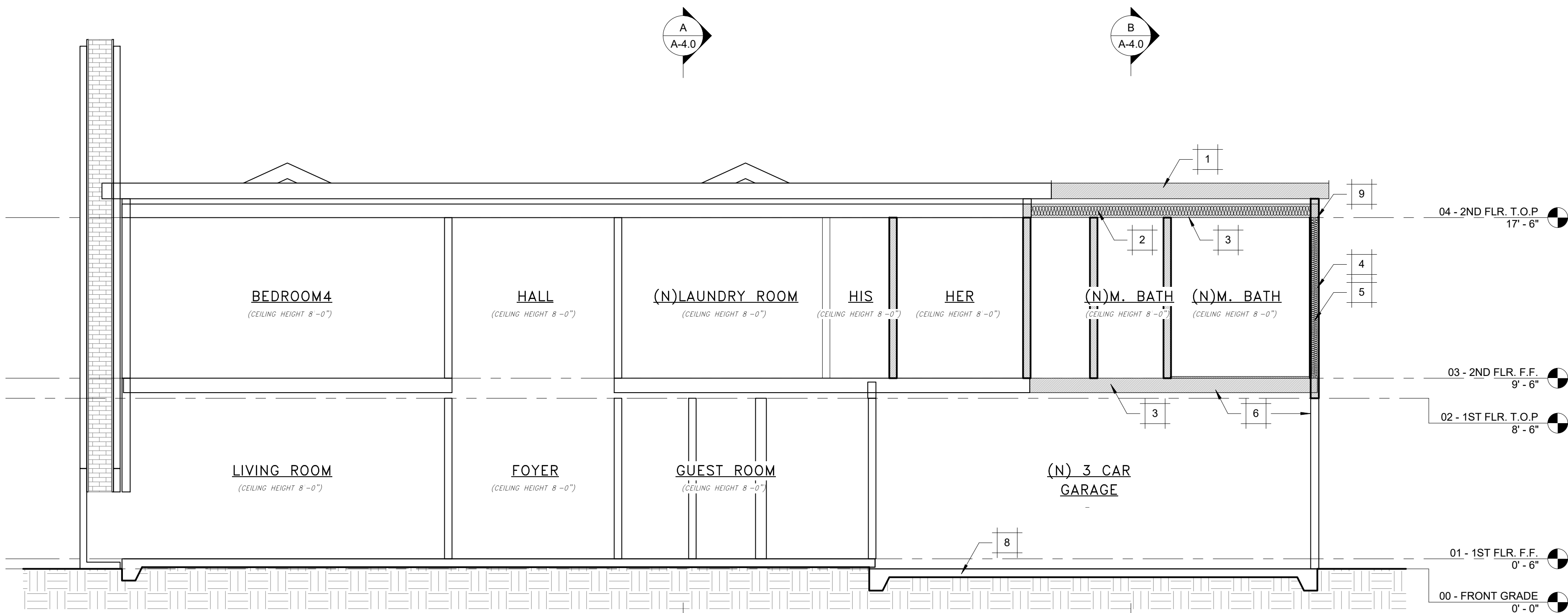
SECTION B-B

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



SECTION 1-1

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



SECTION 2-2

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

TOTAL ENGINEERING SERVICES
CIVIL - STRUCTURAL - DESIGN
15375 BARRANCA PARKWAY,
SUITE A-209, IRVINE, CA 92618
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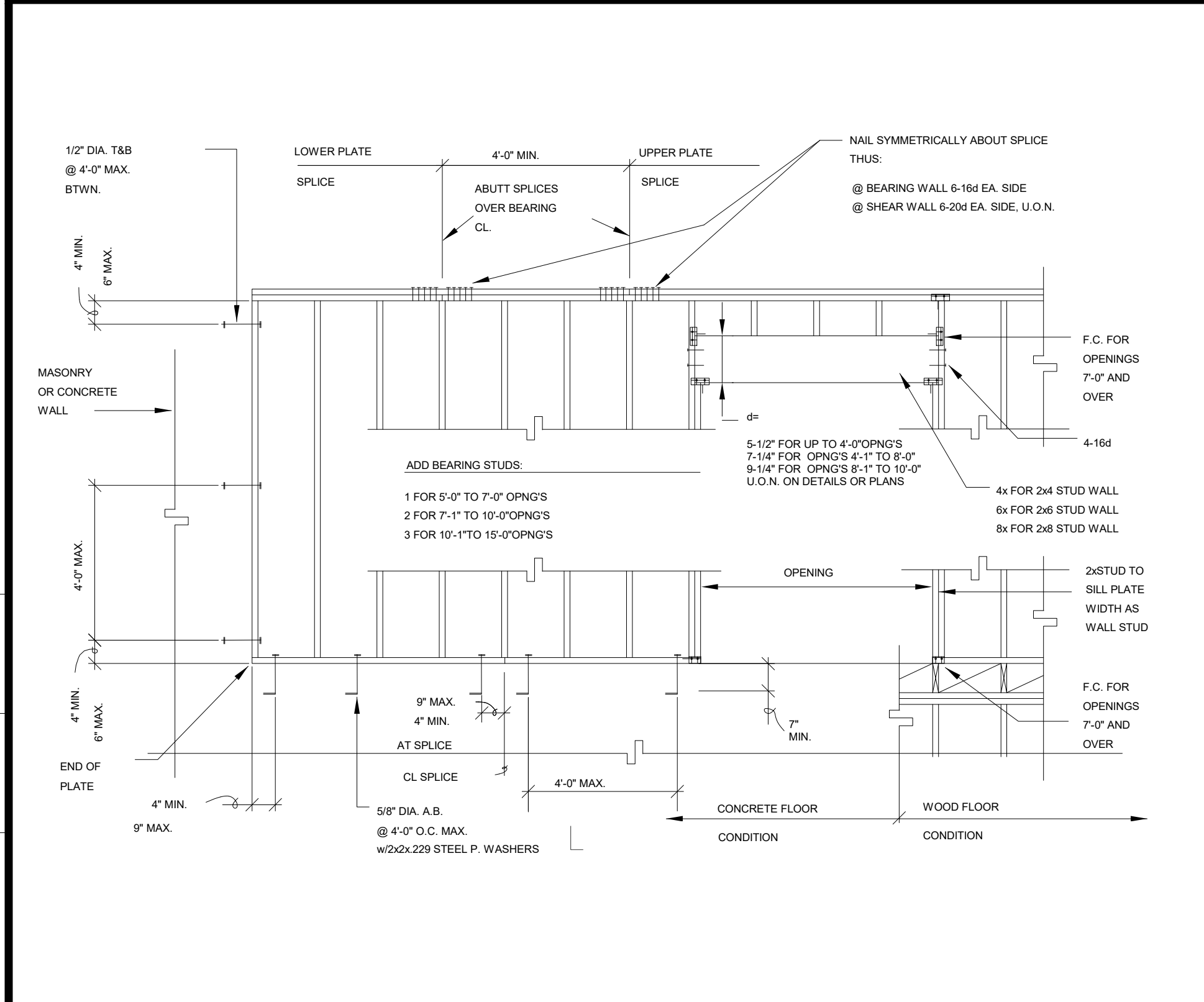


CLARK RESIDENCE
585 OHIO ST.
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SECTIONS

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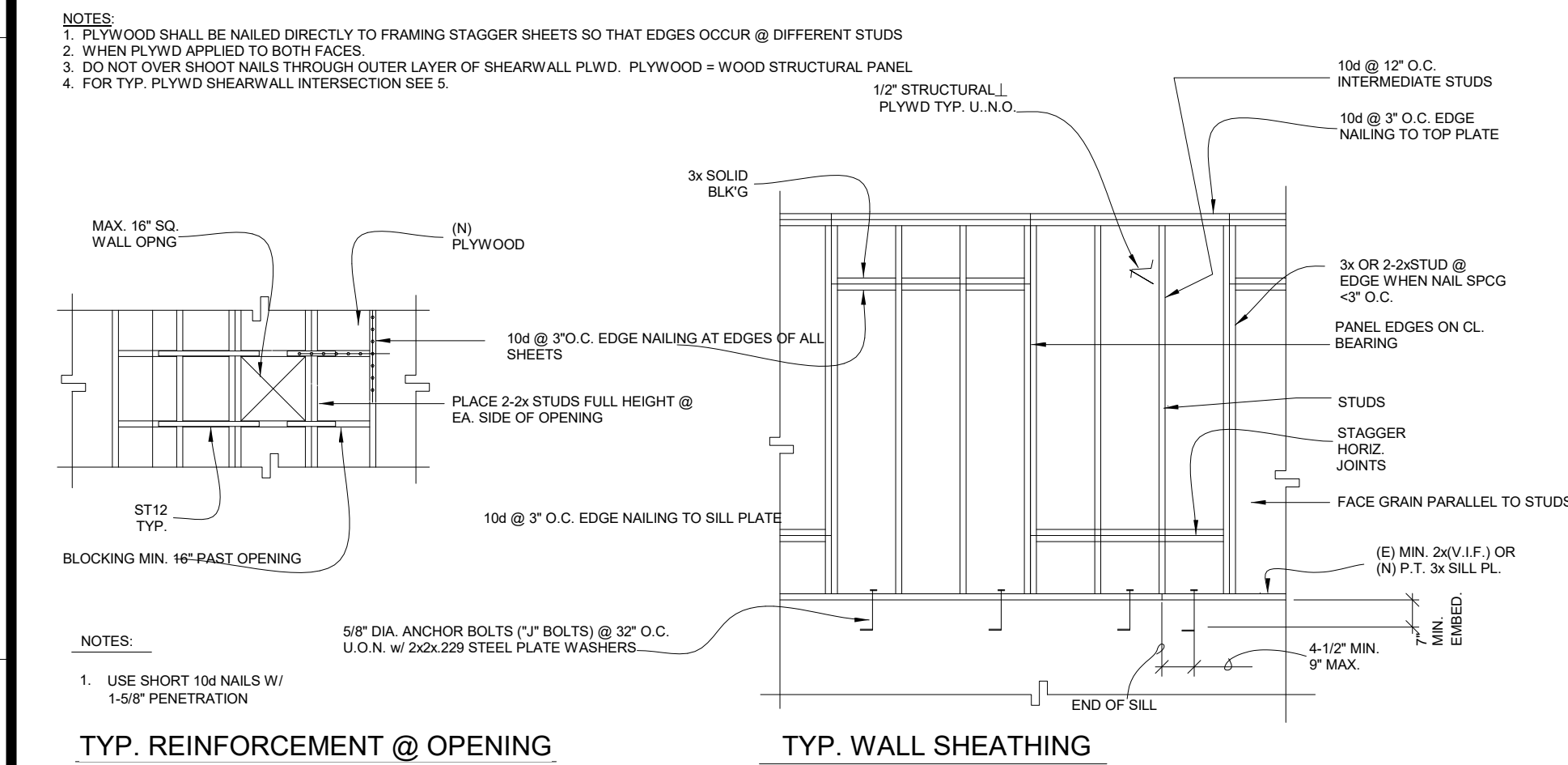
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HEADER SUPPORT

3/8" = 1'-0"

1



SHEAR WALL SCHEDULE

SYM	WALL SHEATHING	ONE SIDE	A35 SPACING	NAILING EDGES	FIELD	SILL PLATE	FOUNDATION SILL BOLTING	SILL NAILING	ASD SHEAR VALUE (PLF)
1	15/32\"STRUCT I BLKD	○	24\"O.C.	10d@6\"	10d@12\"	2x	5/8\"Ø ANCHOR BOLTS @ 32\" O.C.	16d @ 6\" O.C.	339
2	15/32\"STRUCT I BLKD	○	16\"O.C.	10d@4\"	10d@12\"	3x	3/4\"Ø ANCHOR BOLTS @ 16\" O.C.	16d @ 4\" O.C.	510
3	15/32\"STRUCT I BLKD	○	12\"O.C.	10d@3\"	10d@12\"	3x	3/4\"Ø ANCHOR BOLTS @ 14\" O.C.	SDWS 0.220\"x6\" @ 16\" O.C.	664
4	15/32\"STRUCT I BLKD	○	18\"O.C.	10d@2\"	10d@12\"	3x	3/4\"Ø ANCHOR BOLTS @ 12\" O.C.	SDWS 0.220\"x6\" @ 12\" O.C.	870
5	15/32\"STRUCT I BLKD	DBL	6\"O.C.	10d@3\"	10d@12\"	3x	3/4\"Ø ANCHOR BOLTS @ 12\" O.C.	SDWS 0.220\"x6\" @ 6\" O.C.	1020
6	15/32\"STRUCT I BLKD	DBL	6\"O.C.	10d@2\"	10d@12\"	3x	3/4\"Ø ANCHOR BOLTS @ 12\" O.C.	SDWS 0.220\"x6\" @ 4\" O.C.	1328

• FRAMING SHALL BE 3x OR WIDER AND NAILS SHALL BE STAGGERED, SEE NOTE 12

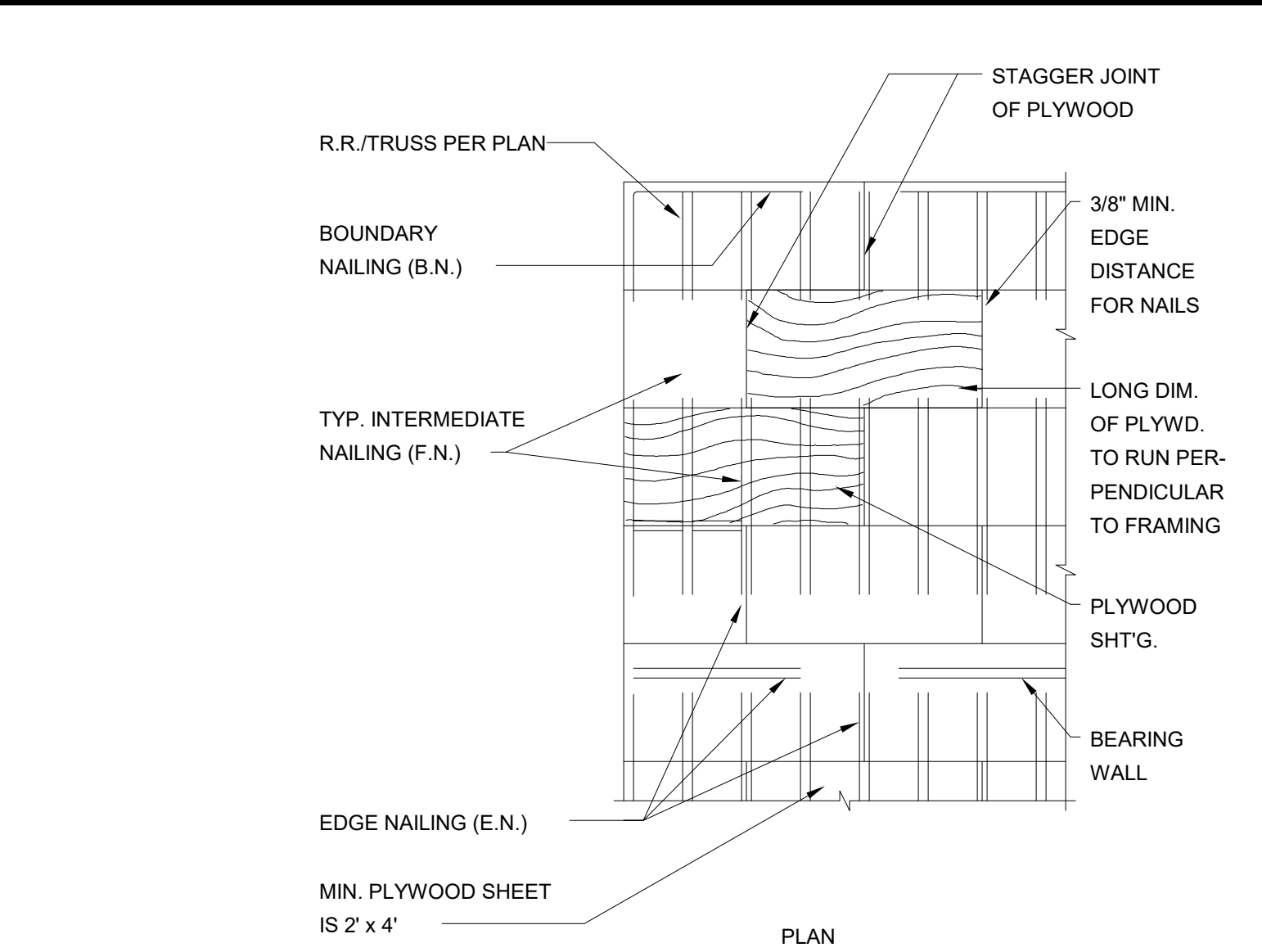
NOTES:

- SHEARWALL SHEATHING SHALL BE (EXT. GLUE) STRUCT. 1 INDEX 32/16 PLYWOOD.
- PROVIDE 2x MIN. FRAMING MEMBER OR BLOCKING AT ALL EDGES. PROVIDE EDGE NAILING TO END STUD OR POST WHERE HOLD-DOWN OCCURS. PLYWOOD SHEATHING SHALL CONFORM TO SHEARWALL DETAILS U.O.
- HOLES ARE NOT ALLOWED IN PLYWOOD SHEAR WALLS, UNLESS APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. IF A HOLE IS APPROVED, IT IS TO BE ENTIRELY WITHIN ONE SHEET. PROVIDE BLOCKING AND EDGE NAILING AROUND OPENING.
- MINIMUM WIDTH OF PLYWOOD TO BE 2'-0\"/>
- SILL PLATE SHALL BE TREATED D.F. CONFORMING TO SILL PLATE DETAILS WHERE IN CONTACT WITH CONCRETE
- ALL SHEAR WALL NAILING TO BE INSPECTED PRIOR TO SHEATHING
- ALL SHEAR WALLS TO EXTEND UP TO BOTTOM OF ROOF RAFTERS, ROOF JOISTS, ROOF BEAMS, OR FLOOR JOIST U.O.N.
- EACH SHEAR WALL SHALL HAVE A MINIMUM OF 2 SILL ANCHOR BOLTS
- ALL NAILING TO BE 3/8\"/>
- SEE PLANS FOR LOCATION OF HOLD-DOWNS. VERIFY WITH ARCHITECTURAL WINDOW AND DOOR LOCATIONS FOR PROPER LOCATION OF HOLD-DOWNS, FOR SPECIAL HOLD-DOWN CONDITIONS. SEE PLANS.
- SHEAR WALL ANCHOR BOLT PLATE WASHERS SHALL EXTEND TO WITHIN A 1/2\"/>
- WHERE PANELS ARE APPLIED ON BOTH FACES OF A SHEAR WALL AND NAIL SPACING IS LESS THAN 6\"/>
- PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS. ALTERNATIVELY, THE WIDTH OF THE NAILED FACE OF FRAMING MEMBERS SHALL BE 3\"/>
- GALVANIZED NAILS SHALL BE HOT-DIPPED OR MECHANICALLY DEPOSITED.
- TABULATED NOMINAL UNIT SHEAR CAPACITIES ARE APPLICABLE FOR CARBON STEEL SMOOTH SHANK NAILS OF THE SPECIFIED TYPE AND SIZE
- WHERE TENSION FORCE INDUCED BY SHEAR WALL OVERTURNING IS RESISTED BY A HOLD-DOWN ATTACHED TO THE INSIDE FACE OF THE END POST, NOMINAL UNIT SHEAR CAPACITY FOR SHEAR WALLS USING 100 COMMON NAILS SHALL BE MULTIPLIED BY 0.92
- SHEAR CAPACITY OF TABLE ABOVE ARE ADJUSTED IN ACCORDANCE WITH 4.1.4 TO DETERMINE ASD ALLOWABLE UNIT SHEAR CAPACITY.
- FOR NEW WALLS, 3x SILL PLATE AND STUD BETWEEN ADJACENT PANELS REQUIRED. STAGGERED PLYWOOD E.N. (FOR EXISTING WALL, USE 2x SILL PLATE W/ 2x SOLID BLKG. AND DOUBLE STUDS ± 1/2\"/>
- EDGE DISTANCE FOR PLYWOOD B.N. ALL PANEL JOINT & SILL PLATE NAILING SHALL BE STAGGERED

TYP. PLYWOOD SHEARWALL DETAIL

1/4" = 1'-0"

2



ROOF DIAPHRAGM NAILING SCHEDULE

TYPE	MATERIAL	NAILING		
		B.N.	E.N.	F.N.
I	SEE NOTE #1	8d @ 6\" O.C.	8d @ 6\" O.C.	8d @ 12\" O.C.

TYPICAL ROOF SHTG. NOTES:

- 1/2\"/>
- USE 10d PLYWOOD NAILS W/ 5/16\"/>
- PLYWOOD NAILING SHALL BE INSPECTED.
- ICBO APPROVED ORIENTED-STRAND BOARD (OSB) IS TO BE SUBSTITUTED FOR PLYWOOD WHEN ENGINEERED LUMBER ROOF FRAMING IS USED.

FLOOR DIAPHRAGM NAILING SCHEDULE

TYPE	MATERIAL	NAILING		
		B.N.	E.N.	F.N.
II	SEE NOTE #1	10d @ 6\" O.C.	10d @ 6\" O.C.	10d @ 12\" O.C.

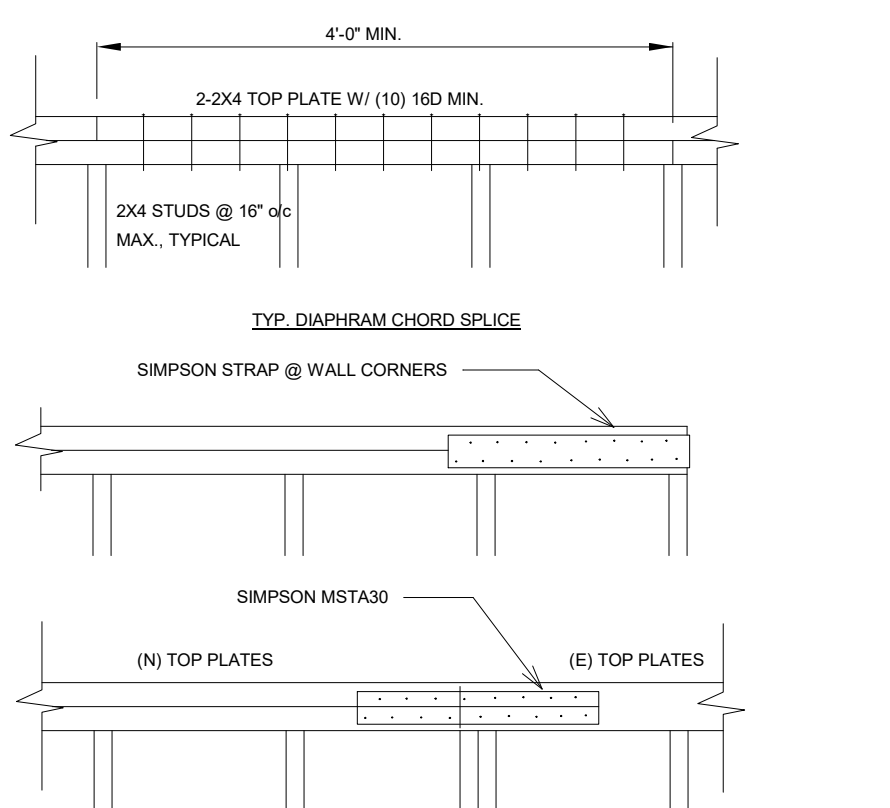
TYPICAL FLOOR SHTG NOTES:

- 3/4\"/>
- USE #10 PLYWOOD SCREWS W/ PENETRATION INTO FRAMING OF 1-1/2\"/>
- PLYWOOD ATTACHMENT SHALL BE INSPECTED PRIOR TO COVERING.
- ALL PLYWOOD TO BE GLUED TO JOIST & BEAMS
- ICBO APPROVED ORIENTED-STRAND BOARD (OSB) IS TO BE SUBSTITUTED FOR PLYWOOD WHEN ENGINEERED LUMBER ROOF FRAMING IS USED.

TYP. SHEATHING DETAILS

3/4" = 1'-0"

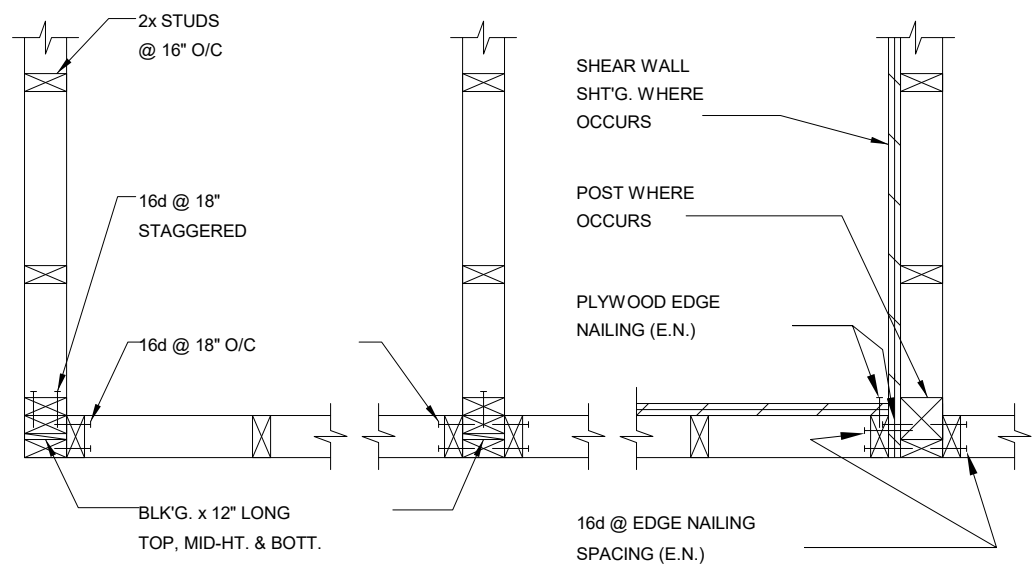
3



CONT. DBL TOP PLATE

1" = 1'-0"

4



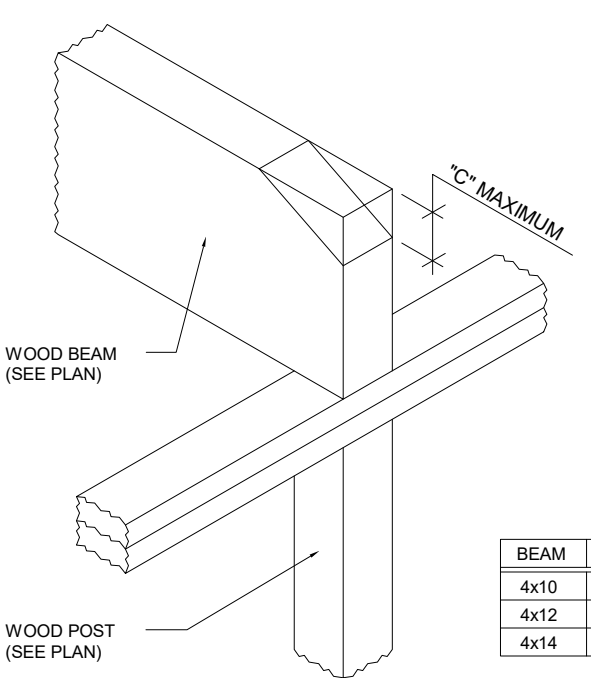
NOTE :

PROVIDE POST WHERE STUD ANCHORS OCCUR PER SHEAR WALL PANEL SCHEDULE AND FOUNDATION PLAN. NAIL ALL DOUBLE STUDS W/ 16d @ 16\"/>

STUD WALL INTERSECTION

3/4" = 1'-0"

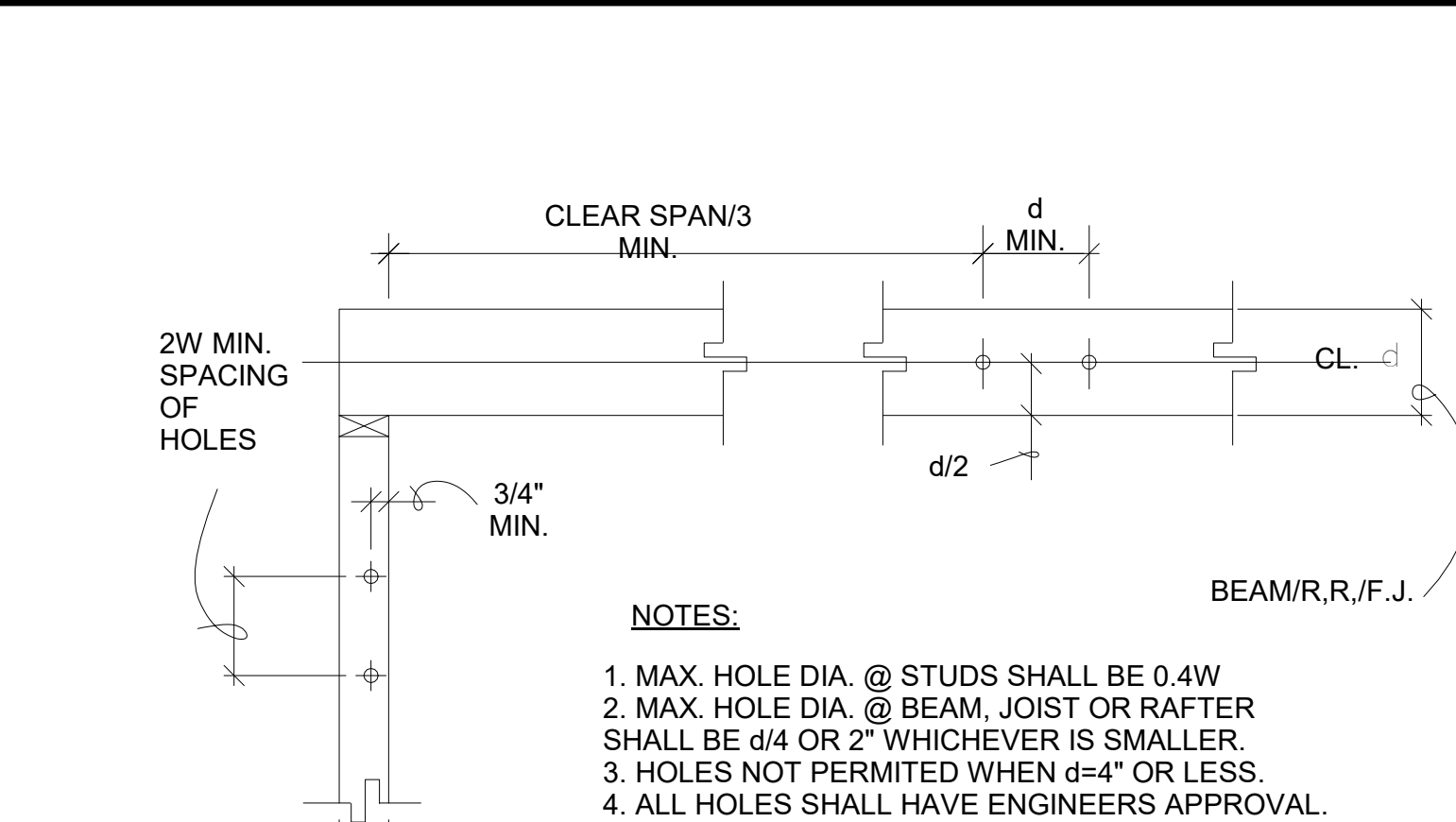
5



BEAM CLIP

1" = 1'-0"

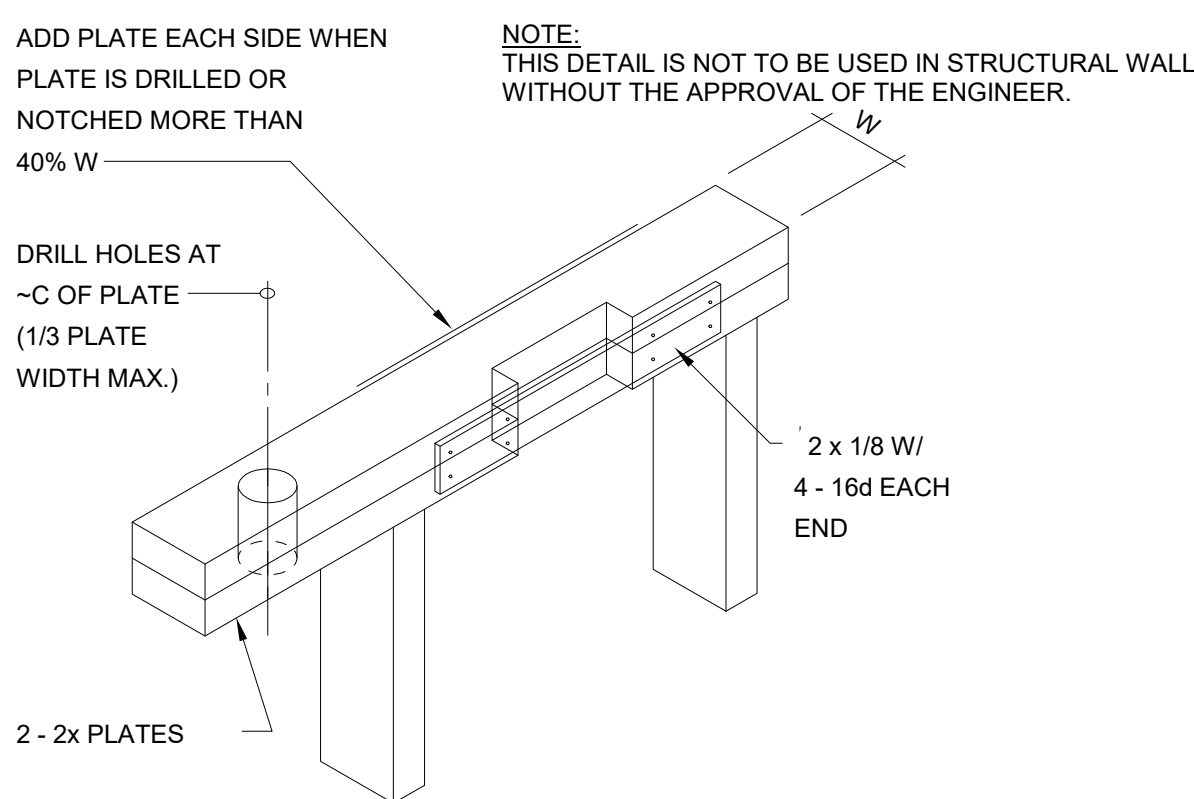
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TYP. HOLES IN WOOD FRAMING

1" = 1'-0"

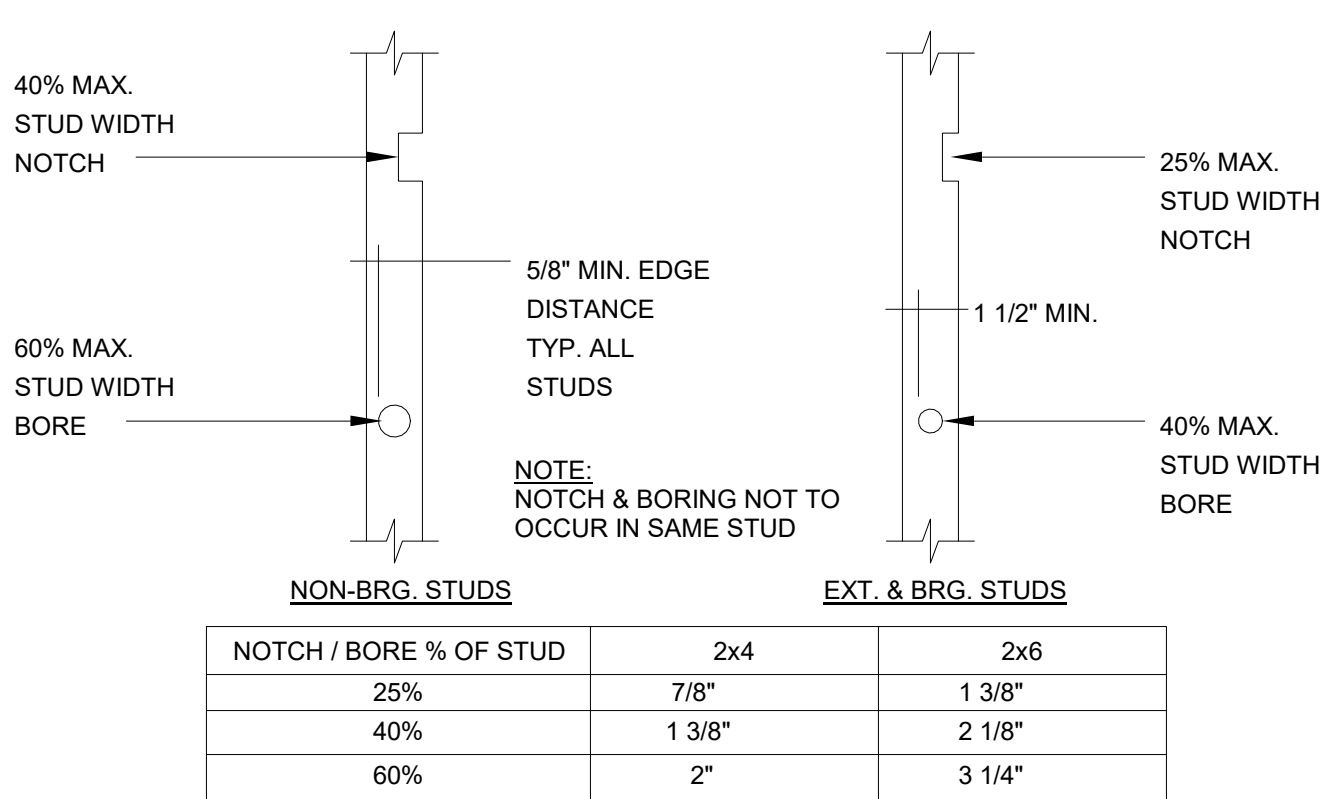
7



TYP. PLATE NOTCHING @ NON-STRUCT. WALL

3/4" = 1'-0"

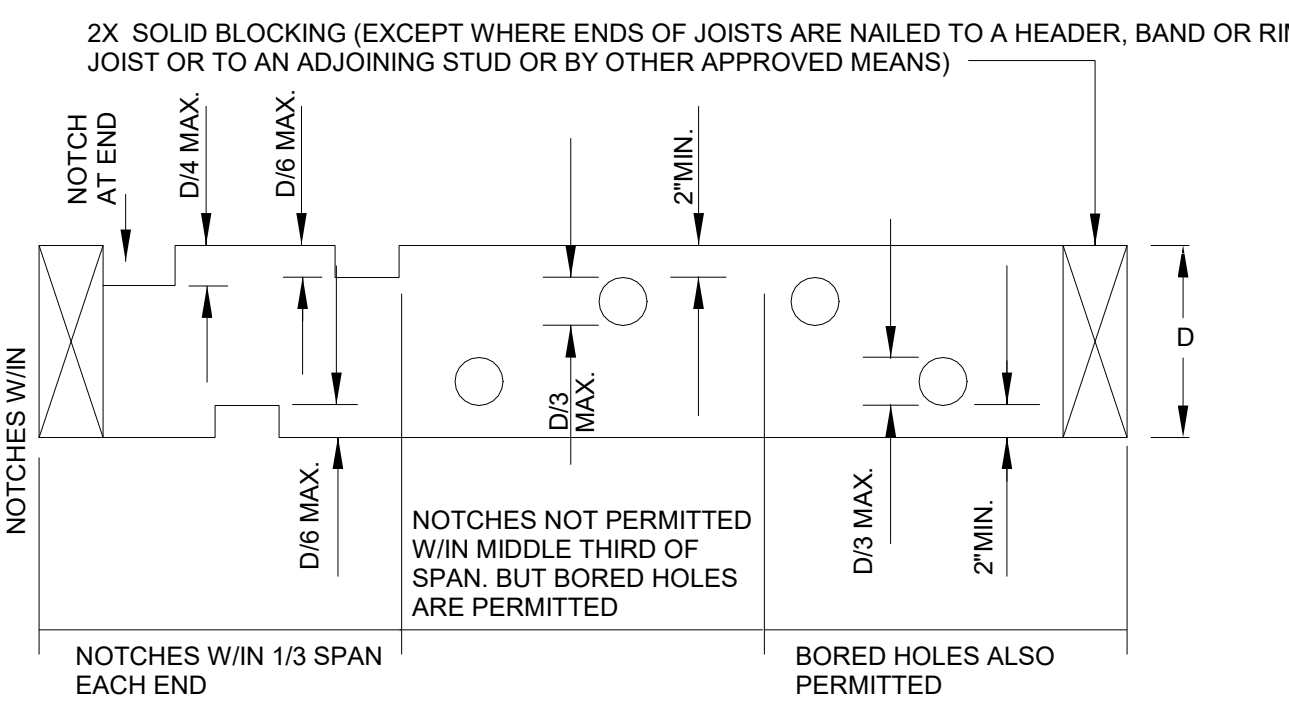
8



TYP. STUD NOTCHING

1" = 1'-0"

9



NOTCH/HOLE IN FRAMING

1" = 1'-0"

10

- I. GENERAL**
- ALL CONSTRUCTION SHALL CONFORM TO THE 2022 CBC, CPC, CMC AND 2022 CEC CODE EDITION
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT OR ENGINEER.
 - OMISSIONS OR CONFLICT BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
 - DO NOT USE SCALED DIMENSIONS; USE WRITTEN DIMENSIONS OR WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCH-TEXT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
 - DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT OR NOT.
 - FOR WATERPROOFING, FIREPROOFING, ETC. REFER TO DRAWINGS OTHER THAN STRUCTURAL.
 - SEE DRAWINGS OTHER THAN STRUCTURAL FOR: KINDS OF FLOOR FINISH AND THEIR LOCATION, FOR DEPRESSIONS IN FLOOR SLABS, FOR OPENING IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MECHANICAL FEATURES, FOR ROADWAY PAVING, WALKS, RAMPS, STAIRS, CURBS, ETC.
 - HOLES AND OPENINGS THROUGH WALLS AND FLOORS FOR DUCTS, PIPING AND VENTILATION SHALL BE CHECKED BY THE CONTRACTOR, WHO SHALL VERIFY SIZES AND LOCATION OF SUCH HOLES OR OPENINGS WITH THE PLUMBING HEATING, VENTILATING AND ELECTRICAL DRAWINGS AND THESE SUB-CONTRACTORS.
 - NO PIPES AND DUCTS SHALL BE PLACED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ARCHITECT.
 - DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED STRUCTURE. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING. THE SUBCONTRACTOR SHALL UNDERTAKE ALL NECESSARY MEASURES TO ENSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT, ENGINEER SHALL NOT RELIEVE THE SUBCONTRACTOR OF SUCH RESPONSIBILITY.
- II. DESIGN CRITERIA**
- APPLICABLE CODE: CALIFORNIA BUILDING CODE, 2022 EDITION
 - VERTICAL LOADS:
 - ROOF: DL= 24 PSF, RLL= 20 PSF,
 - FLOOR: DL= 16 PSF, LL= 40 PSF
- LATERAL LOADS:
- WIND: BASIC WIND SPEED 95 MPH
RISK CATEGORY II
APPLICABLE INTERNAL PRESSURE 0.18
WIND EXPOSURE C
 - SEISMIC: Ss= 1.758g S1=0.629g
RISK CATEGORY II
IMPORTANCE FACTOR Ie= 1.0
SOIL SITE CLASS D
SEISMIC DESIGN CATEGORY "II"
SEISMIC FORCE RESISTING SYSTEM "LIGHT FRAME SHEAR WALL" & CANTILEVERED TIMBER POSTS
CS= 0.2164w R=6.5 & R+1.5
ANALYSIS PROCEDURE "EQUIVALENT LATERAL FORCE"
- III. MATERIALS**
- CONCRETE
 - 1. REINFORCING STEEL: ASTM A615, GRADE 60, #4 AND SMALLER, GRADE 40.
 - 2. CONCRETE: NORMAL WEIGHT WITH COMPRESSIVE STRENGTH OF 2500 PSI, AT 28 DAYS. W/C RATIO: 0.45 TYPE V, CEMENT
 - 3. MINIMUM CONCRETE COVER FOR REINFORCING STEEL:
 - A. SURFACE, POURED AGAINST GROUND 3"
 - B. FORMED SURFACES BELOW GRADE 2"
 - C. SURFACES EXPOSED TO WEATHER 2"
 - D. BEAM BARS (INCLUDING STIRRUPS) 1-1/2"
 - E. ALL OTHER 1"
 - STEEL
 - GRADE B.
 - 1. BOLTS: ASTM A307
 - 2. WELDING ELECTRODES: E-70
 - 3. SHAPES AND PLATES: ASTM A 36; TUBES: ASTM A500.
 - WOOD
 - 1. FRAMING LUMBER - DOUGLAS FIR LARCH, DOC P20
 - A. HEADERS, PLATES, JOISTS: NO.1
 - B. STUDS, BLOCKING: NO.2
 - C. WALL SILLS, WALLERS AND LEDGERS IN CONTACT WITH CONCRETE: PRESERVATIVE TREATED DOUGLAS FIR.
 - D. POSTS AND BEAMS: NO.1
 - 2. PLYWOOD SHEATHING (STRUCTURAL II)
 - A. ROOF SHEATHING: 5/8 INCH C-D EXTERIOR APA RATED 32/16 DOC P51 OR DOC P52
 - B. FLOOR SHEATHING: 3/4 INCH C-D EXTERIOR APA RATED 48/24
 - 3. FRAMING HARDWARE AND JOIST HANGERS: AS MANUFACTURED BY SIMPSON STRONGTIE CO. OR APPROVED EQUAL. SIMPSON DESIGNATIONS USED. USE NAILS
- V. ABBREVIATIONS:** ROVAL FOR EACH DEVICE
4. COMMON NAILS, UNLESS OTHERWISE NOTED, SHORT NAILS MAYBE USED PROVIDED
- VI. SPECIAL INSPECTIONS**
- SPECIAL INSPECTIONS AND/OR TESTING IS REQUIRED FOR THIS CONSTRUCTION. CONTACT THE STRUCTURAL ENGINEER FOR THE METHODS AND INSPECTION REQUIREMENTS.
- [01] CONCRETE
 - [02] BOLTS INSTALLED IN NEW CONCRETE (VISUAL INSPECTION OK)
 - [03] SPECIAL MOMENT-RESISTING CONCRETE FRAME
 - [04] REINFORCING STEEL & PRESTRESSING TENDONS (CONTRACTOR TO CONTACT ENGR MIN. 48 HRS PRIOR TO POURING CONC.)
 - [X05] WELDING (BY INDEPENDENT TESTING AGENCY, VISUAL INSPECTION OK FOR FILLET WELDS.)
 - [X06] HIGH-STRENGTH BOLTING
 - [07] STRUCTURAL MASONRY
 - [08] REINFORCED GYPSUM CONCRETE
 - [09] INSULATED CONCRETE FILL
 - [10] SPRAY-ON FIREPROOFING
 - [11] PILING, DRILLED PIERS AND CASSIONS (BY SOILS ENGR)
 - [12] SHOTORETE
 - [13] SPECIAL GRADING, EXCAVATION AND FILLING BY SOILS ENGR.
 - [14] EXTERIOR FACING
 - [15] DEMOLITION
 - [X16] BOLTS INSTALLED IN EXISTING MASONRY OR CONCRETE (TORQUE & OR TENSION TEST REPT BY INDEPENDENT TESTING AGENCY REQ'D PER SF BC101.5.2.0, 100.4 & 101.50)
 - [18] SPECIAL CASES: FLOOR SYSTEMS USED AS SHEAR DIAPHRAGMS
 - [18] SPECIAL CASES: HOLD-DOWNS
 - [18] CERTIFICATION IS REQUIRED FOR:
 - [] GLULAM COMPONENTS
 - [] TRUSS JOISTS
 - [] PARALLAM BEAMS, MINILAMS
- THE SPECIAL INSPECTOR SHALL BE SELECTED BY THE OWNER OR HIS REPRESENTATIVE AND APPROVED BY THE BUREAU OF BUILDING INSPECTION PRIOR TO START OF WORK.

TOTAL ENGINEERING SERVICES, INC.
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FAX NO. (949) 606-5122
EMAIL: Yslater@TDS-AE.COM

REGISTERED PROFESSIONAL ENGINEER
No. 54902
EXPIRATION DATE 12/31/2025
STATE OF CALIFORNIA

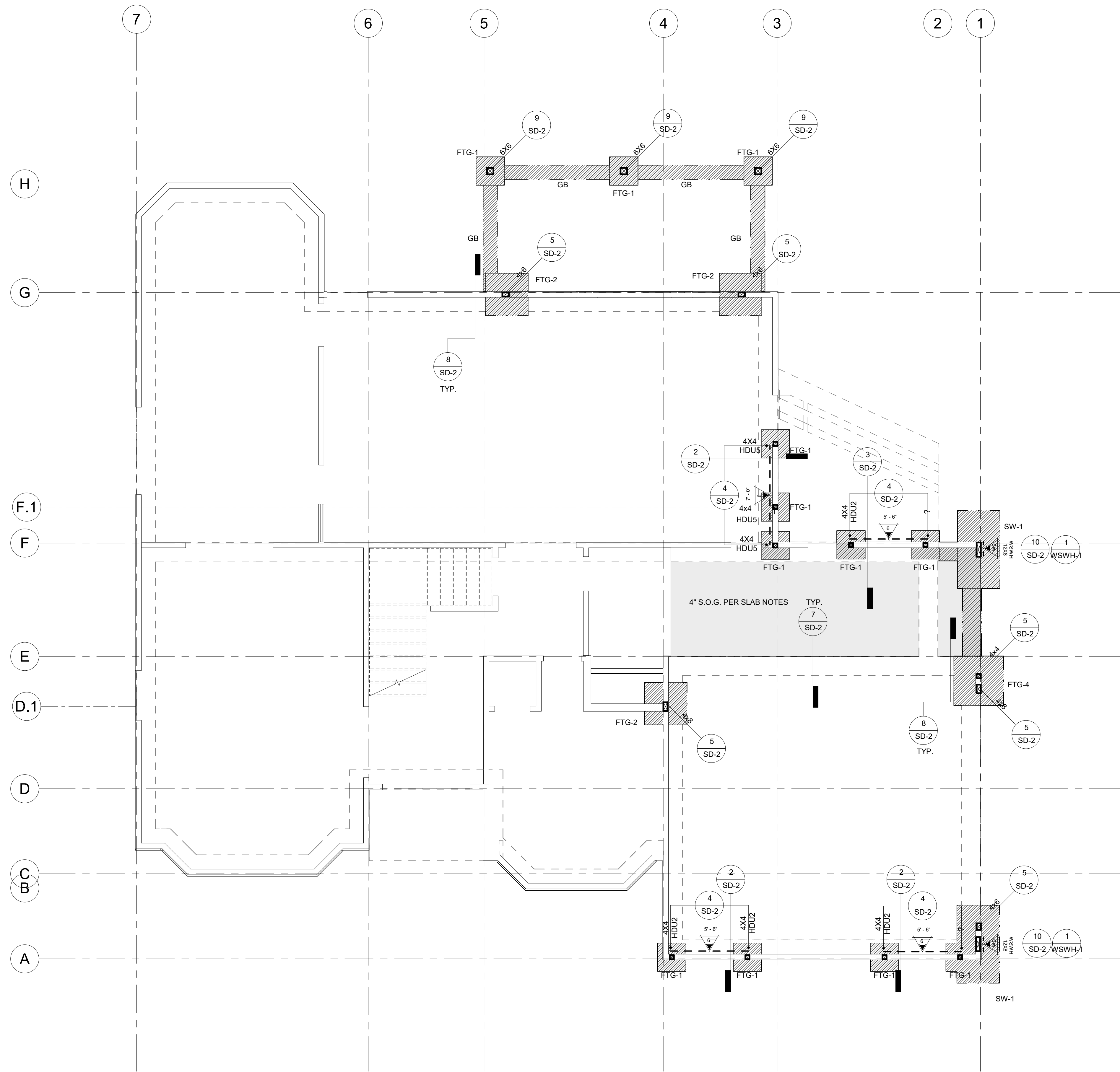
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RESIDENTIAL INTERIOR
REMODEL
YORBA LINDA, CA 92886

STRUCTURAL NOTES

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SHEET 01 OF 12
S-N

***** WRITTEN DIMENSIONS ON THESE DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY, AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THE DRAWINGS. *****



FOUNDATION PLAN
1/4" = 1'-0"

LEGEND

- INDICATES: EXISTING WALL, FOOTING, MIN. 1'-6" WIDTH x 12" DEEP CONTRACTOR TO FIELD VERIFY
- INDICATES: (N) FOOTING
- INDICATES: (N) S.O.G
- INDICATES: FOOTING NUMBER TO REFER TO FOR CALCULATIONS
- INDICATES: PLYWOOD SHEAR WALL
- INDICATES: LENGTH
- INDICATES: NUMBER TO REFER TO SCHEDULE
- INDICATES: HSS POST
- INDICATES: POST ABOVE
- INDICATES: POST BELOW
- INDICATES: WALL ABOVE
- INDICATES: WALL BELOW

SEE 1 S-N FOR TYP. HDR DETAIL & SCHEDULE

SEE 2 S-N FOR TYP. SHEARWALL DETAIL

- FOUNDATION NOTES:**
- ALL CONTINUOUS EXTERIOR FOOTINGS TO HAVE 5/8" DIAMETER X 10" ANCHOR BOLTS W/ 3" X 3" X 225" WASHERS FOR 2X4 STUD WALL, 4" X 4" X 225" FOR 2X6 STUD WALL AT MIN. 6'-0" O.C. 8" EMBEDMENT UNLESS NOTED OTHERWISE ON PLANS. MINIMUM 2 ABS PER SILL PLATE PER SHEAR PANEL. NE ANCHOR BOLT @ 12" MAX. AWAY FROM EA. END OF SILL PLATE.
 - VERIFY LOCATION OF HOLD-DOWNS AND ANCHOR BOLTS WITH ROUGH FRAMING CONTRACTOR TO ASSURE PROPER AND ACCURATE INSTALLATION. ALL FOUNDATION HARDWARE, INCLUDING TYPICAL ANCHOR BOLTS, SHALL BE SECURED IN PLACE PRIOR TO FOOTING INSPECTION OR PRE-GROUT INSPECTION.
 - CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25 FT. (MAXIMUM) INTERVALS EA. WAY.
 - TOPS OF SLABS ON GRADE TO BE MIN. 8" ABOVE FINISH GRADE.
 - POWER DRIVEN PINS ARE NOT PERMITTED AT FOUNDATIONS.
 - SPECIAL INSPECTION IS REQUIRED FOR EPOXY DOWELS.
 - FOOTING TRENCHES SHOULD BE MOISTENED PRIOR TO POURING CONCRETE. FOOTING SPOILS SHOULD NOT BE CAST OVER THE SLAB SUBGRADE WITHOUT BEING COMPACTED TO THE SAME DEGREE AS THE PRIMARY FILL.

- SLAB ON GRADE NOTES**
- THICKNESS SHALL BE AS NOTED ON PLANS.
 - REINFORCING WITH #3 BARS @ 16" O.C. CENTERED IN THE SLAB
 - CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI
 - CONCRETE SLAB TO BE PLACED OVER 4" BASE OF 1/2" OR LARGER CLEAN AGGREGATE W/ 2" SAND AND A MIN 15 MIL CAPILLARY BREAK VAPOR BARRIER. MEETING ASTM 1745, STEGOWRAP OR APPROVED EQUAL.

CONTRACTOR TO VERIFY WHETHER EXISTING SLAB ON GRADE IS POST TENSIONED. IF IT IS DETERMINED THAT SLAB IS POST TENSIONED THEN THE CONTRACTOR SHALL X-RAY THE SLAB TO LOCATE THE EXISTING TENDONS. CARE IS TO BE TAKEN TO AVOID DAMAGING THE STEEL TENDONS WHILE CUTTING THE SLAB.

PAD FOOTING SCHEDULE				
Mark	Foundation Thickness	Width	Length	Reinforcement Ea. Way
FTG-1	2' - 0"	2' - 0"	2' - 0"	(6) #4 @ BOTTOM
FTG-2	2' - 0"	3' - 0"	3' - 0"	(8) #4 @ BOTTOM
FTG-4	2' - 0"	3' - 6"	3' - 6"	(10) #4 @ BOTTOM
GB	1' - 6"	1' - 0"	<varies>	(2) #4 @ T&B W/ #3 STIRRUPS @ 6" O.C.
SW-1	2' - 0"	3' - 0"	5' - 6"	(4) #6 @ T&B

HOLDDOWN SCHEDULE				
SIMPSON HOLDDOWN	POST (MIN.)	ANCHOR DIA. AND TYPE	ds	ls
HDU2	(2)2X4	5/8" DIA. SSTB20	1 3/4"	17"
HDU4	4X4	5/8" DIA. SSTB24	1 3/4"	20"
HDU5	4X4	5/8" DIA. SSTB24	1 3/4"	20"
HDU8	4X4	7/8" DIA. SSTB28	1 3/4"	28"
HDU11	4X6	7/8" DIA. SSTB34	1 3/4"	28"

HOLDDOWN	ANCHOR	EMBED INTO UNDERPINNING	FASTENERS
HDU2	PAB5	6"	(6) 1/4x2-1/2" SDS SCREWS
HDU5	PAB5	8"	(12) 1/4x2-1/2" SDS SCREWS
HDU8	PAB7	12"	(20) 1/4x2-1/2" SDS SCREWS
HDU11	PAB8	14"	(30) 1/4x2-1/2" SDS SCREWS
HDU14	PAB8	16"	(36) 1/4x2-1/2" SDS SCREWS

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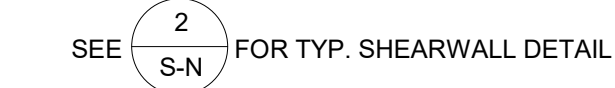
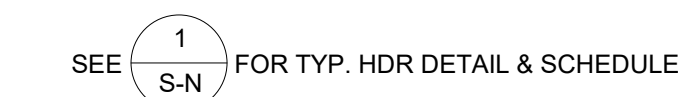
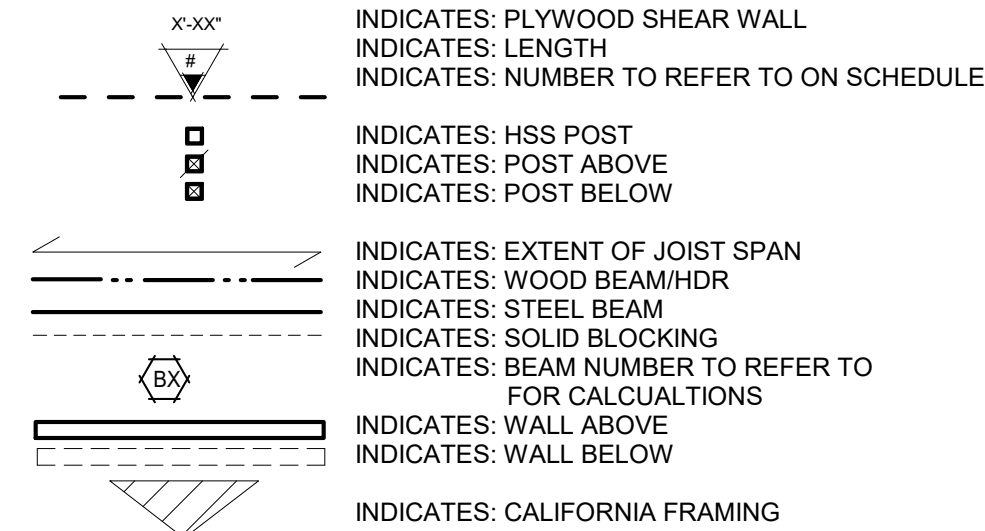
THE STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER
No. 44902
EXPIRATION DATE 12/31/2024
YORBA LINDA, CA

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RESIDENTIAL INTERIOR REMODEL
YORBA LINDA, CA 92886

FOUNDATION PLAN

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FRAMING NOTES:

1. PROVIDE DOUBLE JOIST AND BLOCKING AROUND ALL ROOF & FLOOR OPENINGS.
2. PROVIDE WIDTH OF BEAM POST OR EQUAL MULTI-STRIPS (SPIKED) UNDER ALL HEADERS AND BEAMS CONNECT WITH C.C. CAP U.N.O. (ALT. 3/4 CLIPS EACH SIDE) AND 2" X 4" WOOD SHEATHING PERPENDICULAR TO RAFTERS (OR JOISTS AND "C" FACE DOWN).
3. INSPECT NAILING PRIOR TO ROOFING & FLOORING.
4. ALL SHEAR WALLS SHALL EXTEND TO ROOF SHEATHING.
5. TOP PLATES OF ALL STUDS SHALL BE NAIL TO THE SAME SIZE AS STUDS. SPICES TO LAP 4'-0" MINIMUM WITH 12 - 16D (MIN.) U.N.O.
6. CONNECT ALL MULTIPLE RAFTERS & JOISTS WITH 12D NAILS AT 12" ON CENTER.
7. THE TOP OF THE STUDS SHALL BE 1/2" OFFERS OF JOISTS SHALL BE BOLTED TOGETHER WITH 1/2" DIAMETER BOLTS AT 24" ON CENTER STAGGERED.
8. ALL PLUMBING WALLS TO BE 2X6 FRAMING

ROOF DIAPHRAGM NAILING SCHEDULE				
TYPE	MATERIAL	NAILING		
		B.N.	E.N.	F.N.
I	SEE NOTE #1	8d @ 6" O.C.	8d @ 6" O.C.	8d @ 12" O.C.

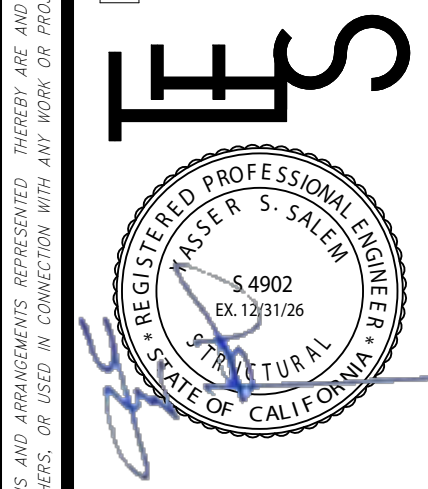
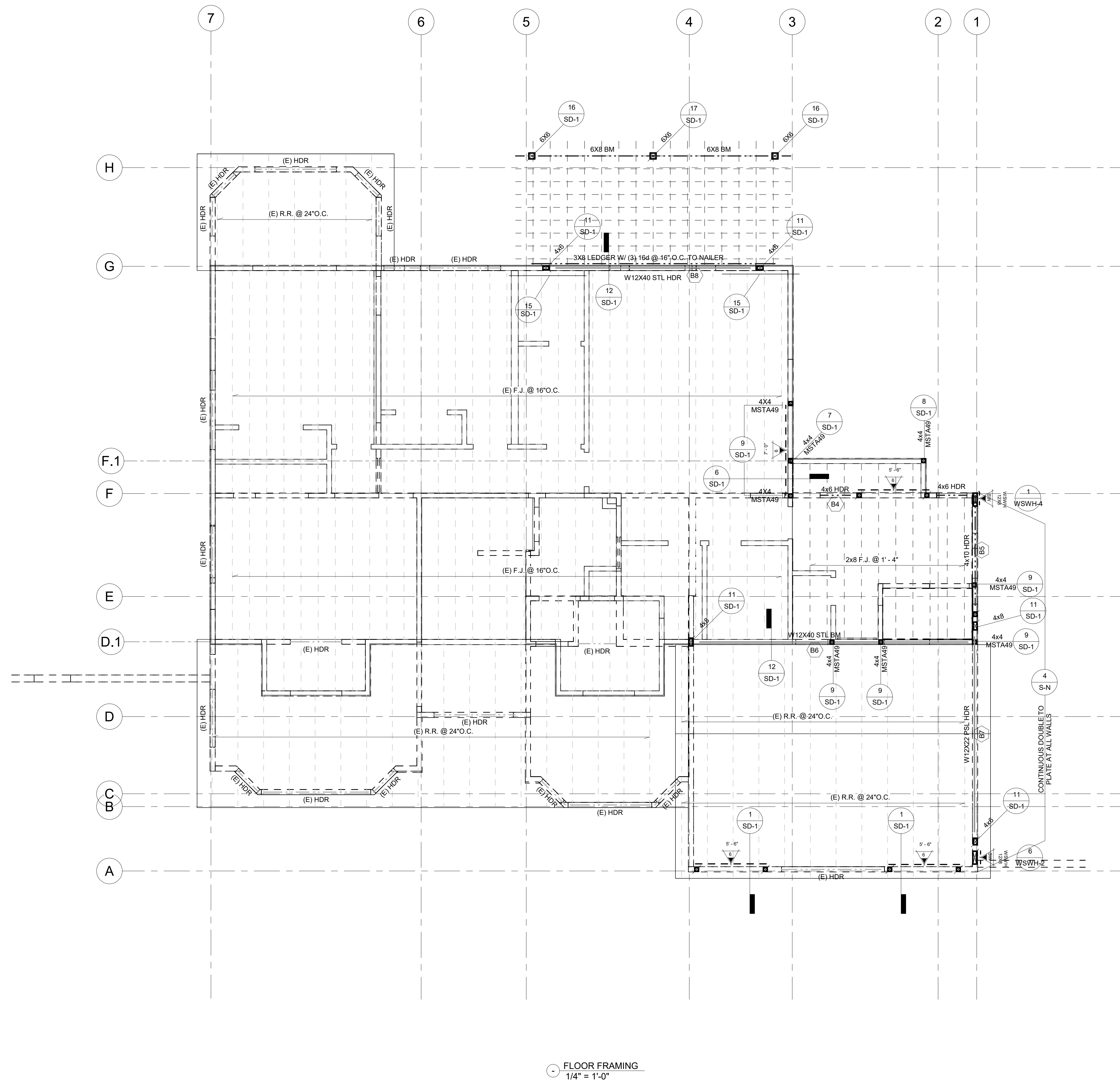
TYPICAL ROOF SHTG. NOTES :

1. 1/2" APA RATED CDX PLYWOOD SHEATHING PI24/0 EXP 1 UNBLOCKED UNO.
2. USE 10d PLYWOOD NAILS W/ 5/16 HEAD W/ PENETRATION INTO FRAMING OF 1-1/2" MIN. INCREASE NAIL SIZE AS REQUIRED.
3. PLYWOOD NAILING SHALL BE INSPECTED.
4. ICBO APPROVED ORIENTED-STRAND BOARD (OSB) IS TO BE SUBSTITUTED FOR PLYWOOD WHEN ENGINEERED LUMBER ROOF FRAMING IS USED.

FLOOR DIAPHRAGM NAILING SCHEDULE				
TYPE	MATERIAL	NAILING		
		B.N.	E.N.	F.N.
II	SEE NOTE #1	10d @ 6" O.C.	10d @ 6" O.C.	10d @ 12" O.C.

TYPICAL FLOOR SHTG NOTES:

1. 3/4" T&G UNBLOCKED STRUCT | PLYWOOD SHTG INDEX 24/0 EXP 1.
2. USE #10 PLYWOOD SCREWS W/ PENETRATION INTO FRAMING OF 1-1/2" MIN.
INCREASE NAIL SIZE AS REQUIRED.
3. PLYWOOD ATTACHMENT SHALL BE INSPECTED PRIOR TO COVERING.
4. ALL PLYWOOD TO BE GLUED TO JOIST & BEAMS.
5. ICBO APPROVED ORIENTED-STRAND BOARD (OSB) IS TO BE SUBSTITUTED FOR PLYWOOD WHEN ENGINEERED LUMBER ROOF FRAMING IS USED.



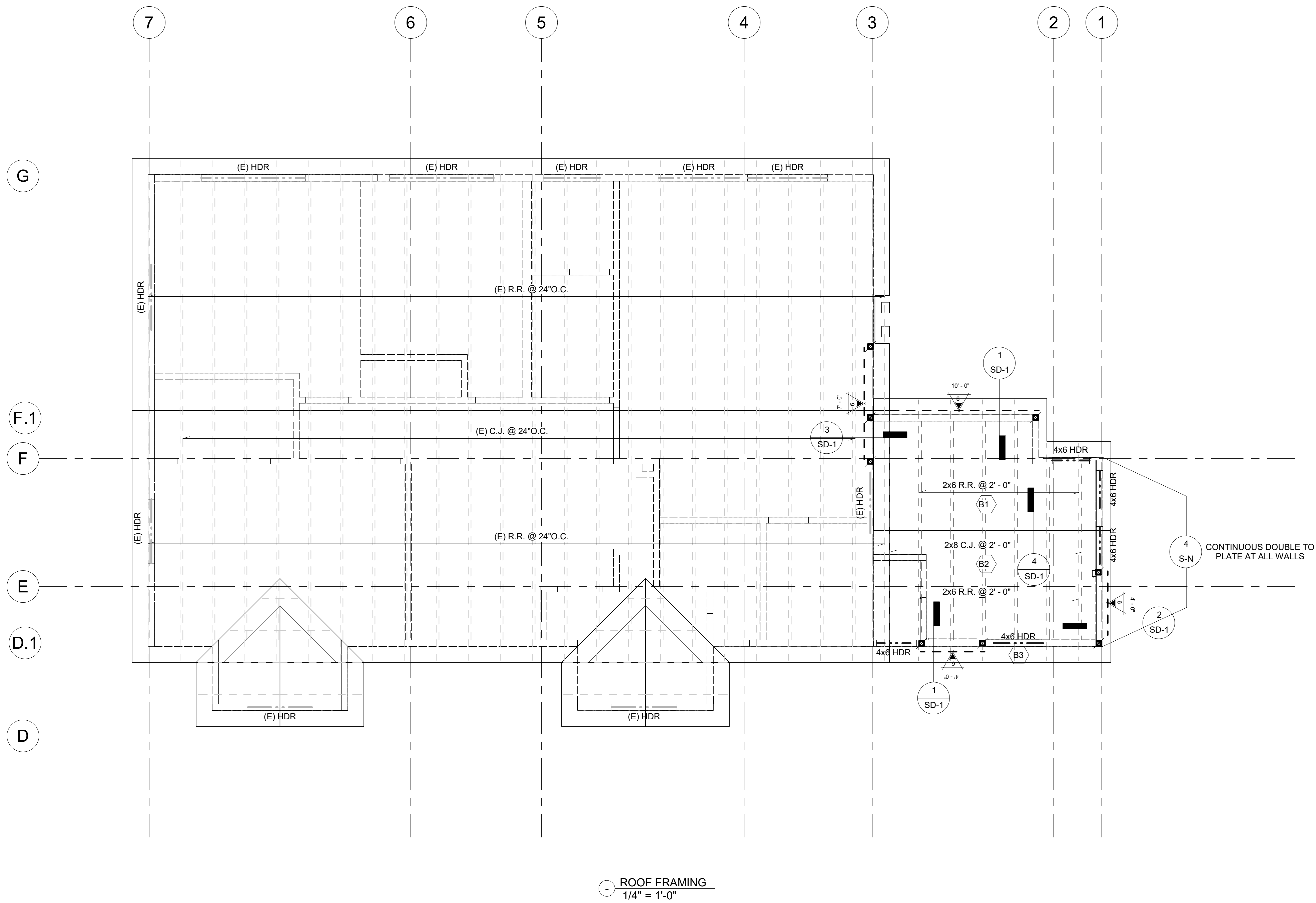
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**RESIDENTIAL INTERIOR
REMODEL**
YORBA LINDA, CA 92886

FLOOR FRAMING PLAN

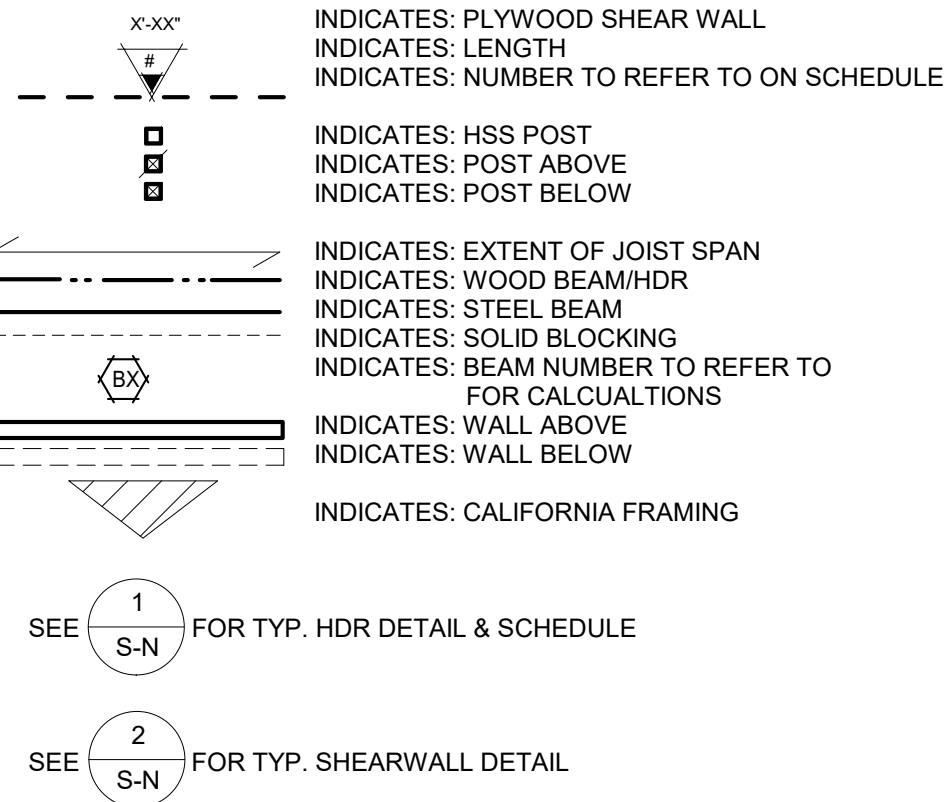
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ROOF FRAMING
1/4" = 1'-0"

LEGEND



ROOF FRAMING NOTES:

1. PROVIDE DOUBLE JOIST AND BLOCKING AROUND ALL ROOF OPENINGS.
2. PROVIDE WIDTH OF BEAM POST OR EQUAL MULTI-STUDS (SPIKED) UNDER ALL HEADERS AND BEAMS CONNECT WITH BC. CAP U.N.O. (ALT. A34 CLIPS EACH SIDE).
3. PLACE PLYWOOD SHEATHING PERPENDICULAR TO RAFTERS AND "C" FACE DOWN.
4. INSPECT NAILING PRIOR TO ROOFING.
5. ALL SHEAR WALLS SHALL EXTEND TO ROOF SHEATHING.
6. TOP PLATES OF ALL STUD WALLS SHALL BE 2 PIECES THE SAME SIZE AS STUDS. SPLICES TO LAP 4'-0" MINIMUM WITH 12 - 16D (MIN.) U.N.O.
7. CONNECT ALL MULTIPLE RAFTERS WITH 12D NAILS AT 12" ON CENTER STAGGERED. THREE OR MORE MULTIPLE RAFTERS SHALL BE BOLTED TOGETHER WITH 1/2" DIAMETER BOLTS AT 24" ON CENTER STAGGERED.
8. ALL PLUMBING WALLS SHOULD BE 2X6 FRAMING

ROOF DIAPHRAGM NAILING SCHEDULE				
TYPE	MATERIAL	NAILING		
		B.N.	E.N.	F.N.
I	SEE NOTE #1	8d @ 6" O.C.	8d @ 6" O.C.	8d @ 12" O.C.

TYPICAL ROOF SHTG. NOTES :

1. 1/2" APA RATED CDX PLYWOOD SHEATHING P2410 EXP I UNBLOCKED UNO.
2. USE 10d PLYWOOD NAILS W/ 5/16 HEAD W/ PENETRATION INTO FRAMING OF 1-1/2" MIN. INCREASE NAIL SIZE AS REQUIRED.
3. PLYWOOD NAILING SHALL BE INSPECTED.
4. ICBO APPROVED ORIENTED-STRAND BOARD (OSB) IS TO BE SUBSTITUTED FOR PLYWOOD WHEN ENGINEERED LUMBER ROOF FRAMING IS USED.

FLOOR DIAPHRAGM NAILING SCHEDULE				
TYPE	MATERIAL	NAILING		
		B.N.	E.N.	F.N.
II	SEE NOTE #1	10d @ 6" O.C.	10d @ 6" O.C.	10d @ 12" O.C.

TYPICAL FLOOR SHTG NOTES:

1. 3/4" T&G UNBLOCKED STRUCT I PLYWOOD SHTG INDEX 2410 EXP 1.
2. USE #10 PLYWOOD SCREWS W/ PENETRATION INTO FRAMING OF 1-1/2" MIN. INCREASE NAIL SIZE AS REQUIRED.
3. PLYWOOD ATTACHMENT SHALL BE INSPECTED PRIOR TO COVERING.
4. ALL PLYWOOD TO BE GLUED TO JOIST & BEAMS.
5. ICBO APPROVED ORIENTED-STRAND BOARD (OSB) IS TO BE SUBSTITUTED FOR PLYWOOD WHEN ENGINEERED LUMBER ROOF FRAMING IS USED.

RAFTER TIE SCHEDULE

ROOF SLOPE	SPAN (FT)	NAILING
3:12	12	(5) 16d
	24	(10) 16d
	36	(15) 16d
4:12	12	(4) 16d
	24	(8) 16d
	36	(11) 16d
5:12	12	(3) 16d
	24	(6) 16d
	36	(9) 16d
7:12	12	(3) 16d
	24	(5) 16d
	36	(7) 16d

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RESIDENTIAL INTERIOR
REMODEL
YORBA LINDA, CA 92886

ROOF FRAMING PLAN

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TOTAL ENGINEERING SERVICES, INC.

CIVIL · STRUCTURAL · DESIGN

1651 EAST FOURTH ST., SUITE 228
SANTA ANA, CA 92701
TEL NO. (949) 376-5842
FAX NO. (949) 600-5122
EMAIL: YSalen@TDS-AE.COM

REGISTERED PROFESSIONAL ENGINEER
S 4902
C 1101010
STATE OF CALIFORNIA

BEAM CONN. SCHEDULE						
BEAM SIZE	PL	WELD "I"	A325N BOLTS (1) NO.	SIZE	ALLOW SHEAR	
W8x & W10x	3/8"	5/16	2	7/8"	11k	
W12x & W14x	3/8"	5/16	3	7/8"	22.1k	
W16x	1/2"	3/8	4	7/8"	35.4k	
W18x & W21x	1/2"	3/8	5	7/8"	49.1k	
W24x	1/2"	3/8	6	1"	62.2k	
W27x	1/2"	3/8	7	1"	100k	

"T" = DISTANCE BETWEEN TOP AND BOTTOM FLANGE FILLETS
(PER AISI MANUAL) - 1/2"
(1) = SPECIAL INSPECTION NOT REQUIRED.

NOTE:
BEAM CONNECTION
MAY OCCUR ON
ONE OR BOTH SIDES.
USE FULL DEPTH PLATE
WHERE BEAM OCCURS
ON ONE SIDE ONLY.

SHEAR PL & BOLTS
PER SCHEDULE

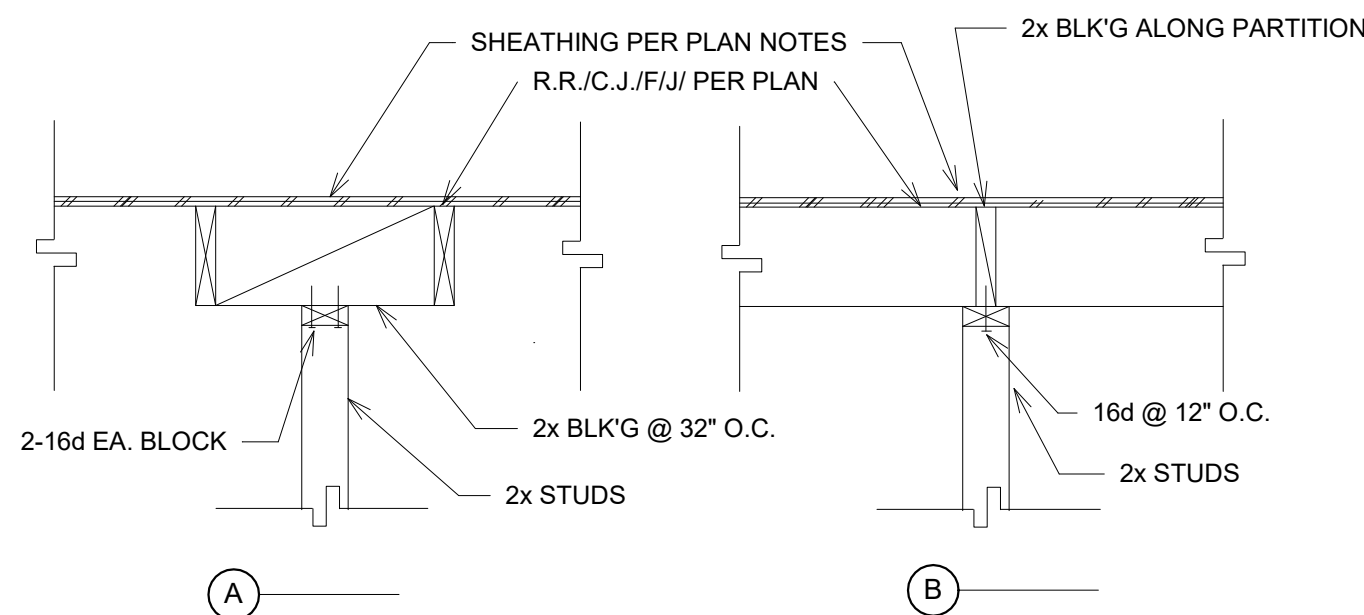
BMFS PER PLAN

COPE FLANGE
WHERE REQ'D.

STL. BEAM TO STL. BEAM CONN.

3/4" = 1'-0"

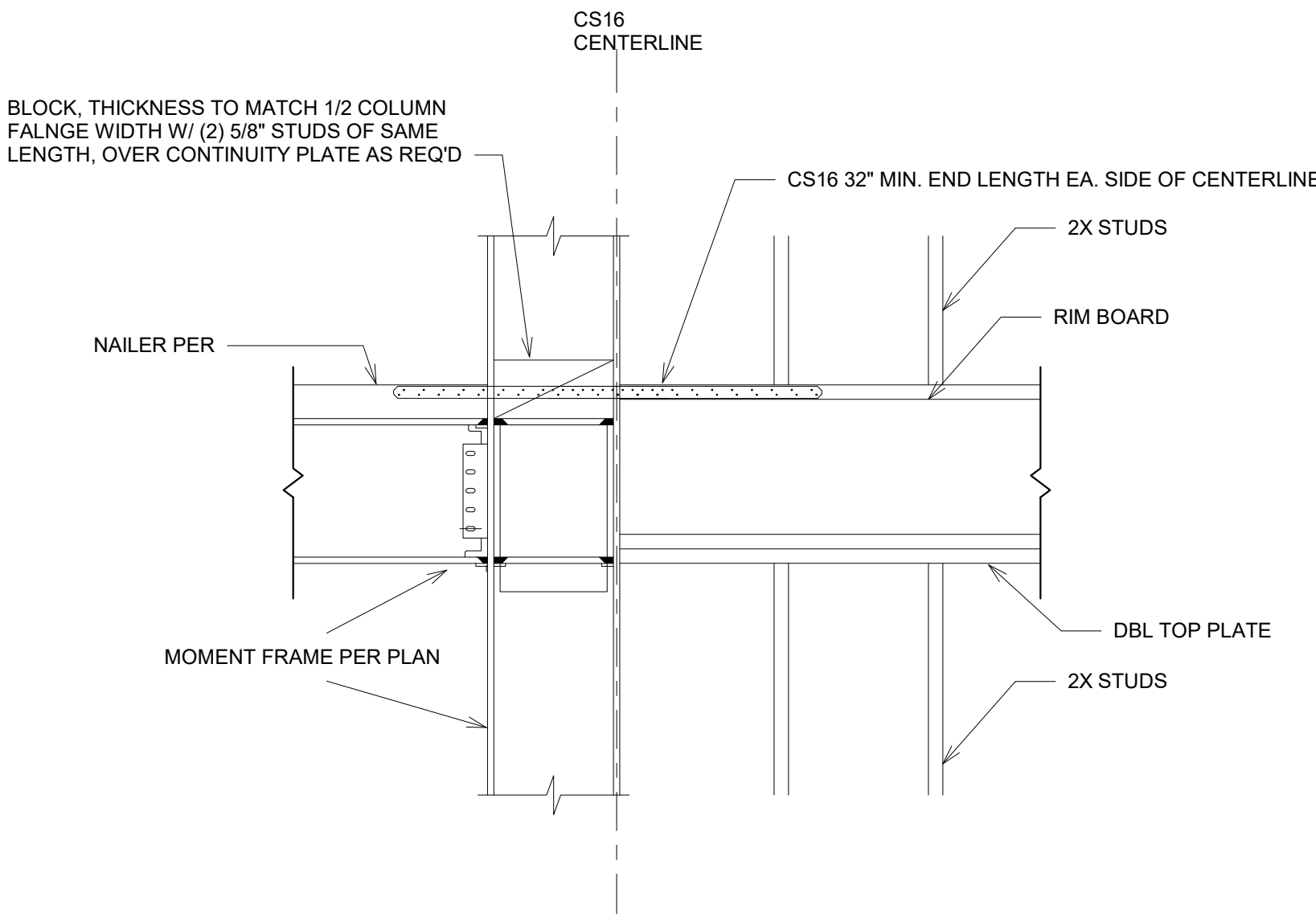
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NON-BEARING WALL CONNECTION

3/4" = 1'-0"

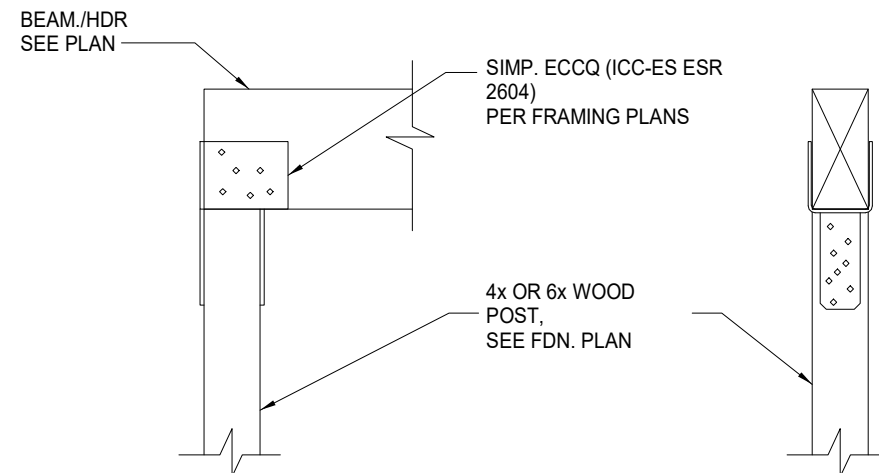
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STL BM DRAG @ TOP PLATE

3/4" = 1'-0"

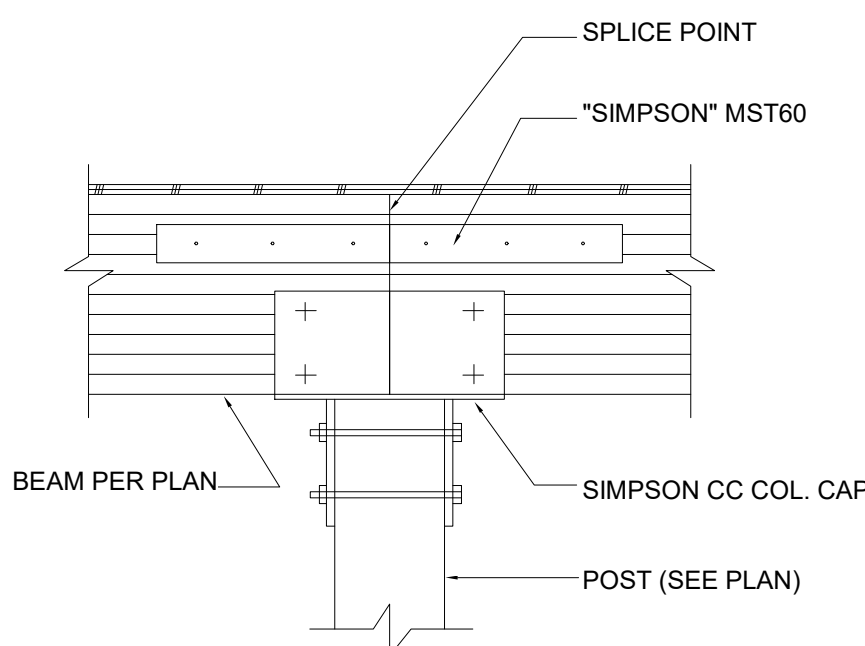
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BEAM TO POST CONNECTION

1" = 1'-0"

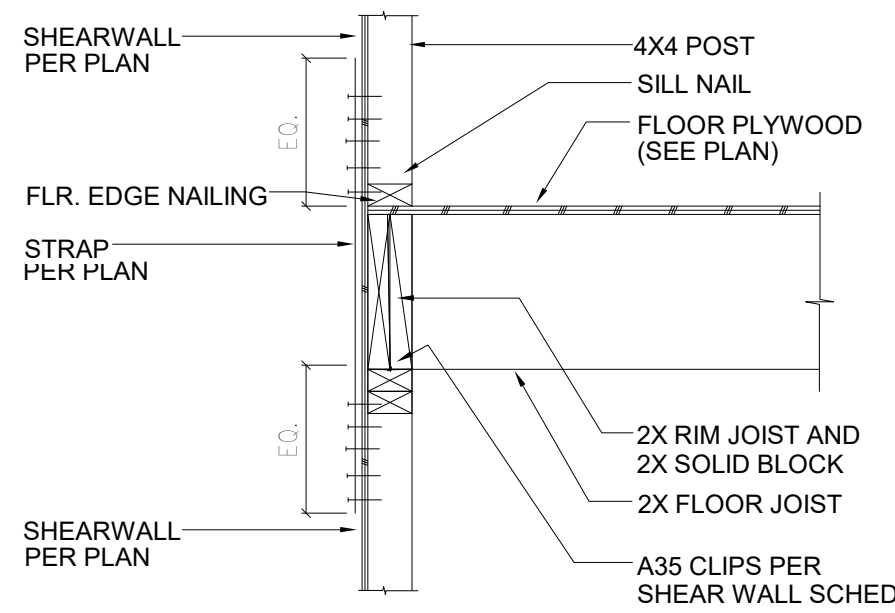
16



DRAG ACROSS BEAMS

1" = 1'-0"

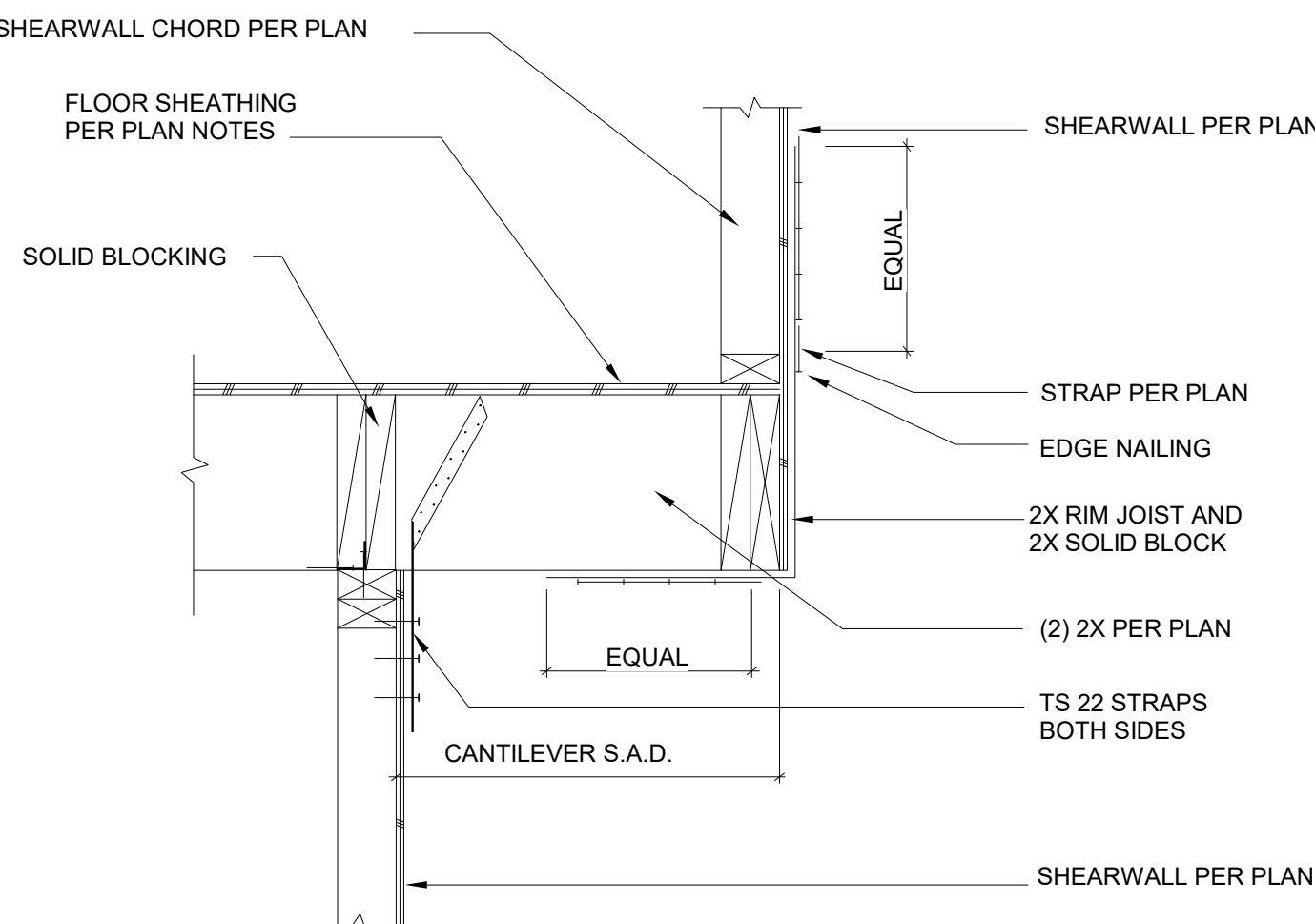
17



SHEAR TRANSFER @ EXT. WALL

1" = 1'-0"

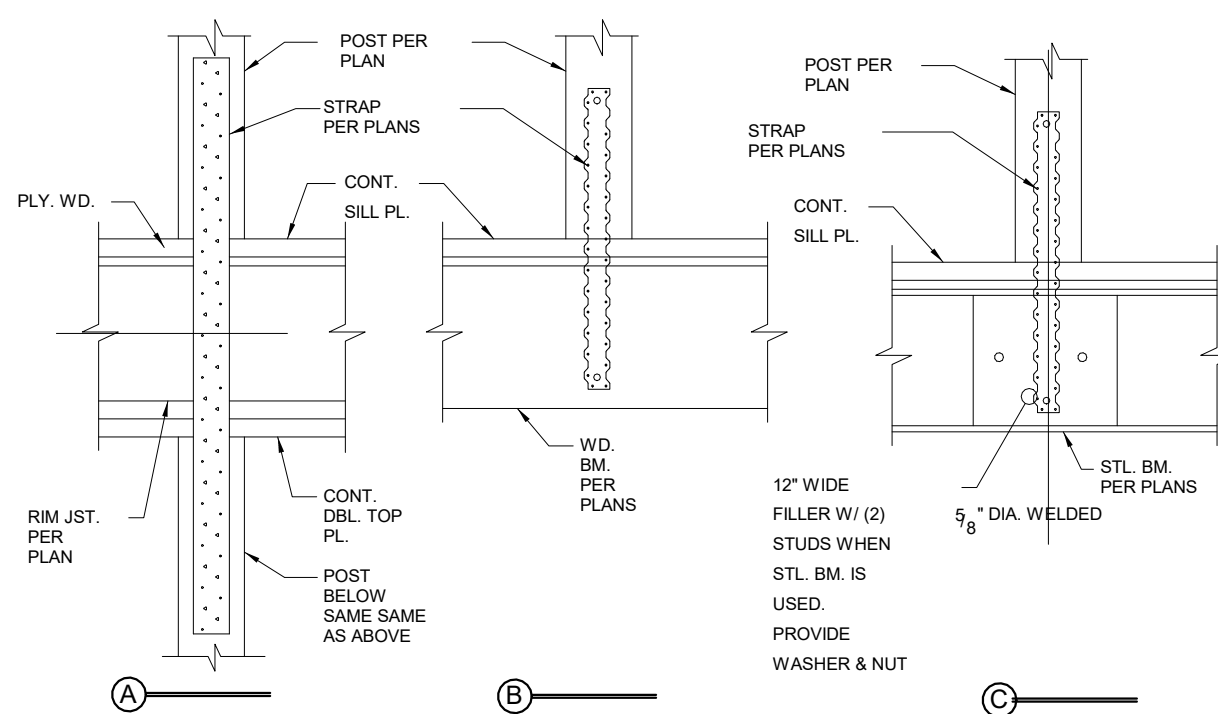
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STRAP @ CANTILVERED FLOOR

1" = 1'-0"

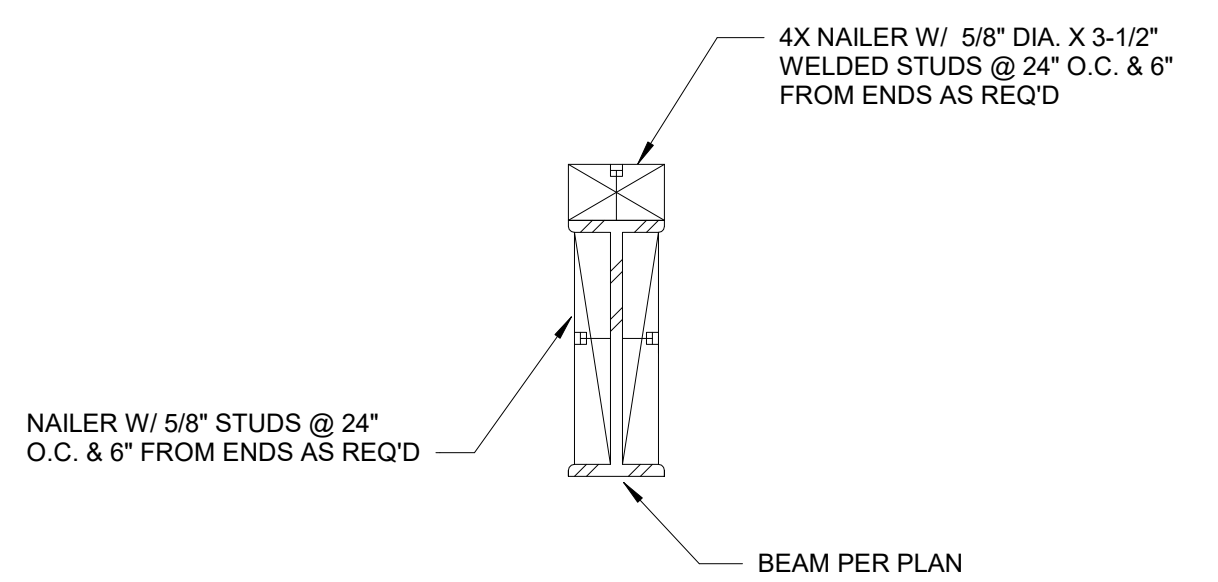
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STRAP @ FLOOR

1" = 1'-0"

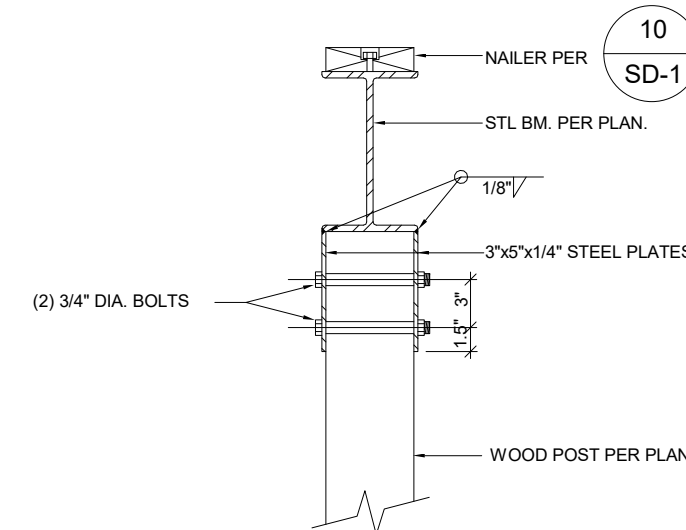
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STL BM W/ NAILER

1" = 1'-0"

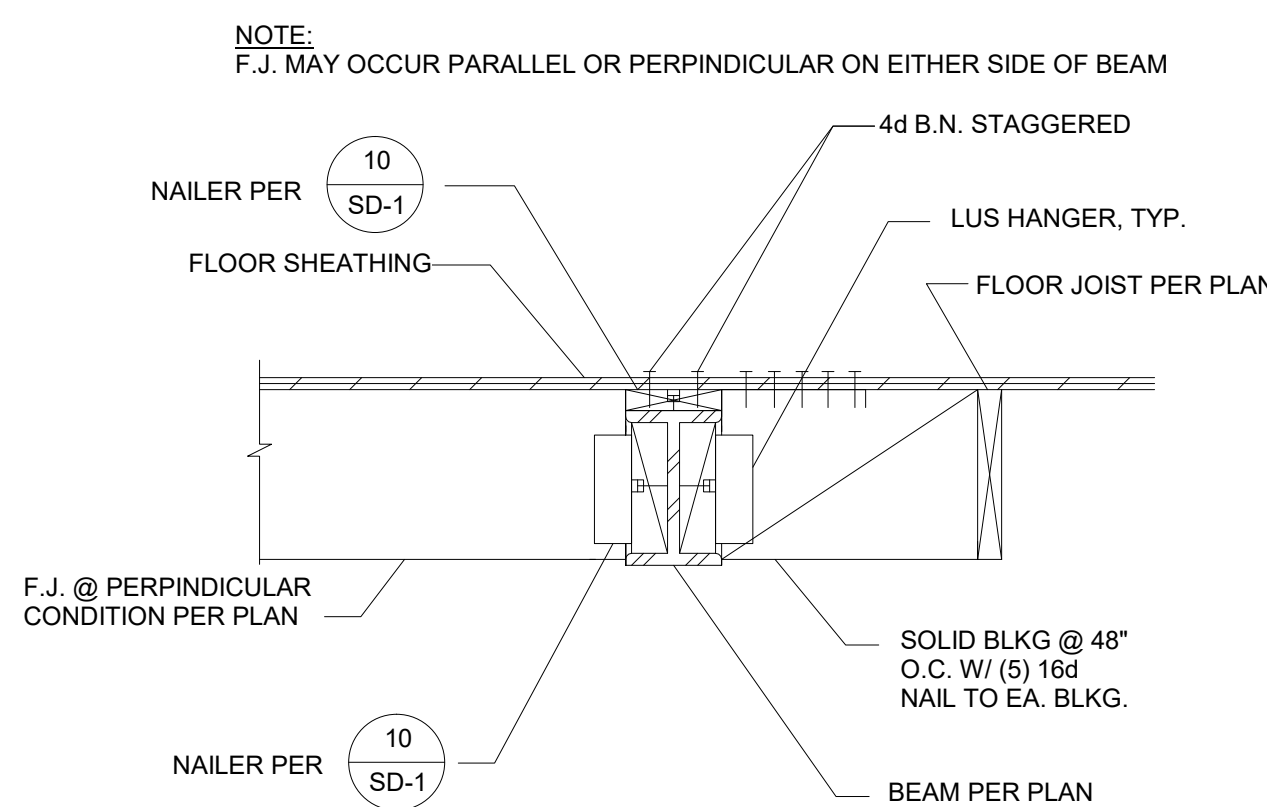
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WOOD POST TO STL BM CONN.

1" = 1'-0"

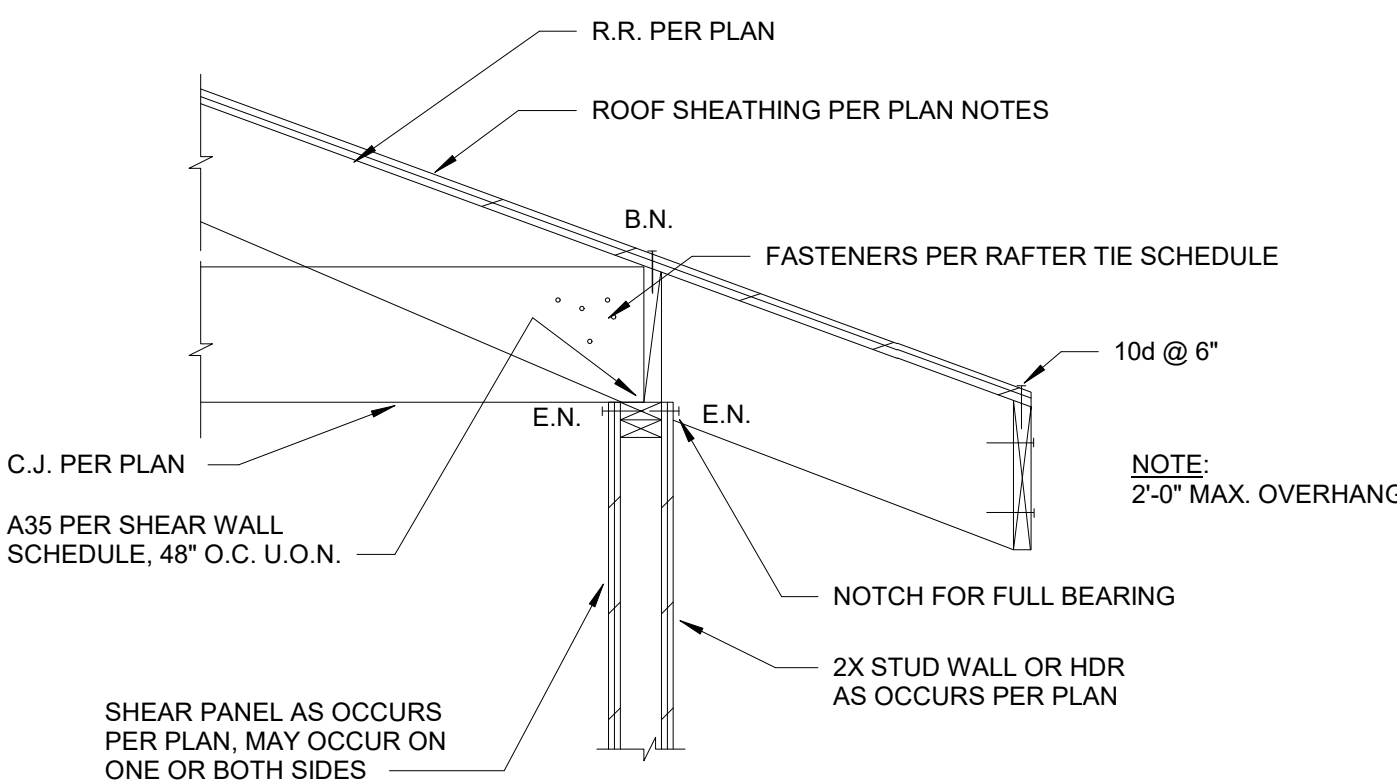
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STL BM W/ WEB NAILER

1" = 1'-0"

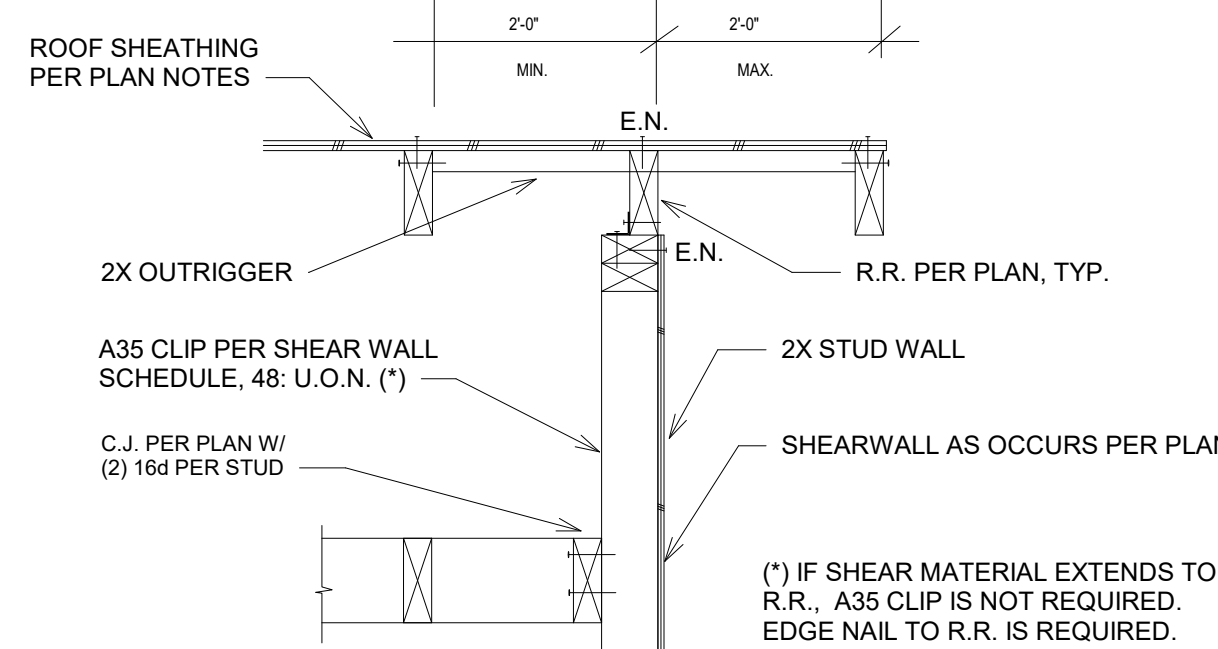
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SHEAR TRANSFER @ DROPPED CEILING

3/4" = 1'-0"

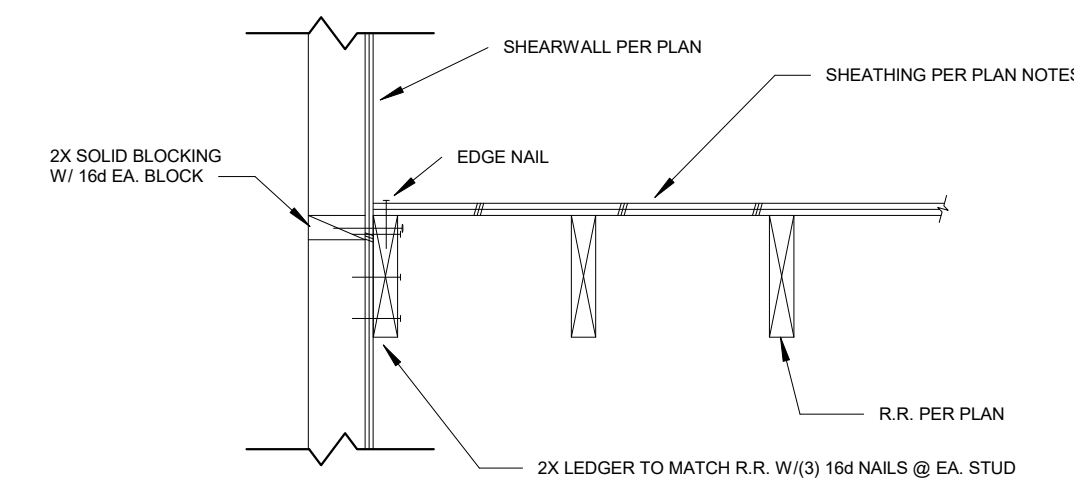
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SHEAR TRANSFER OUTRIGGER

1" = 1'-0"

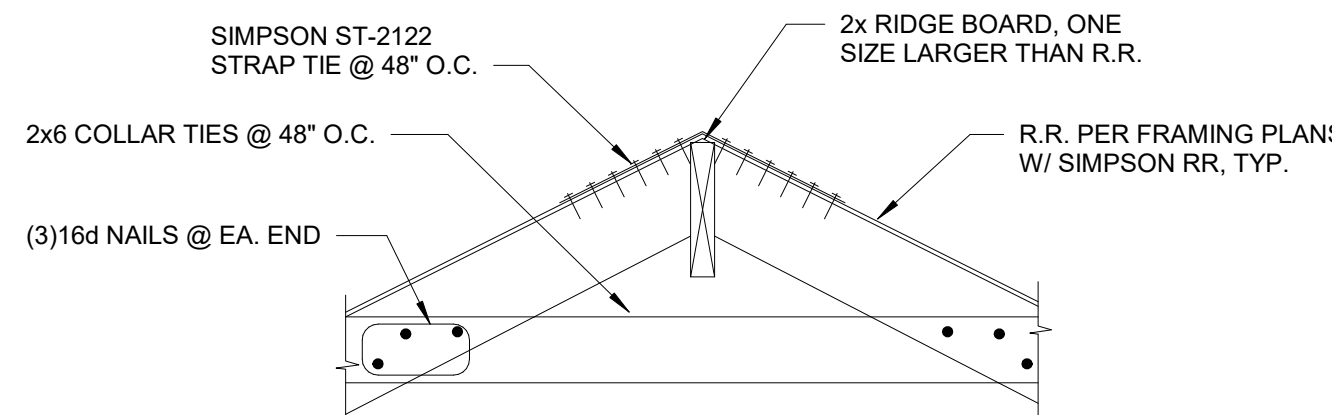
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SHEAR TRANSFER @ ROOF LEDGER

1" = 1'-0"

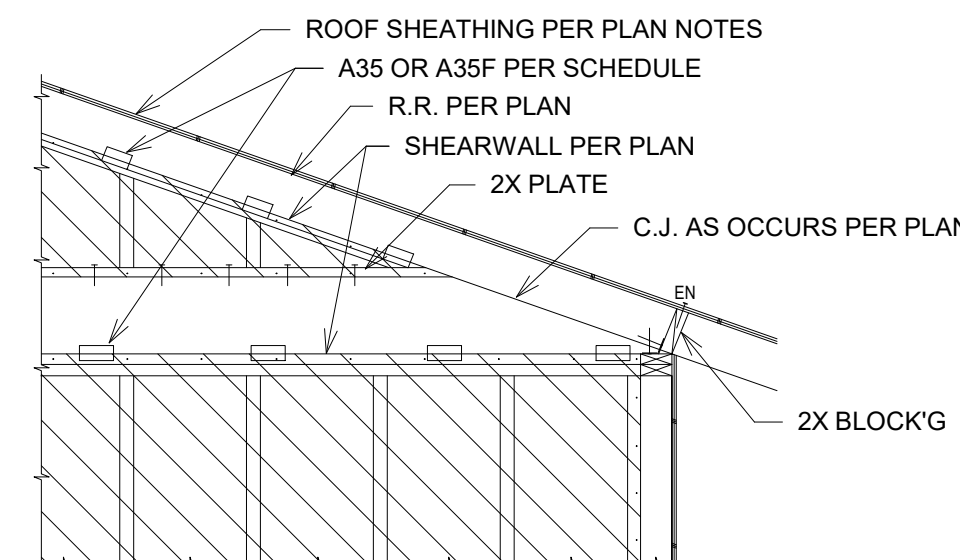
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RIDGE BOARD CONN.

1" = 1'-0"

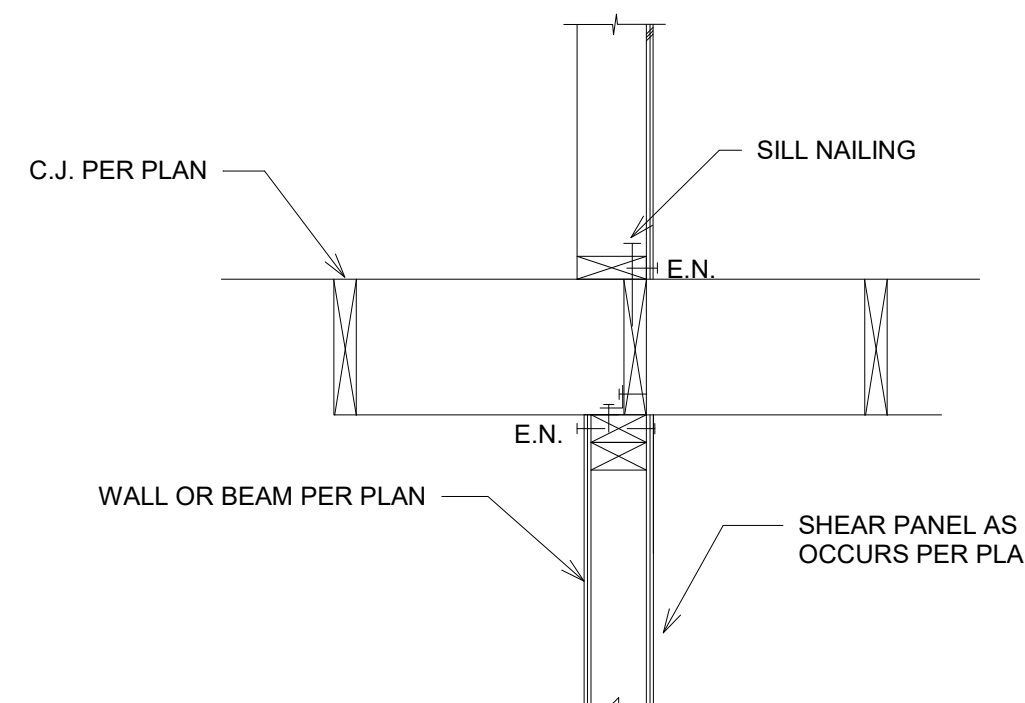
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SHEAR TRANSFER @ RAKE

1" = 1'-0"

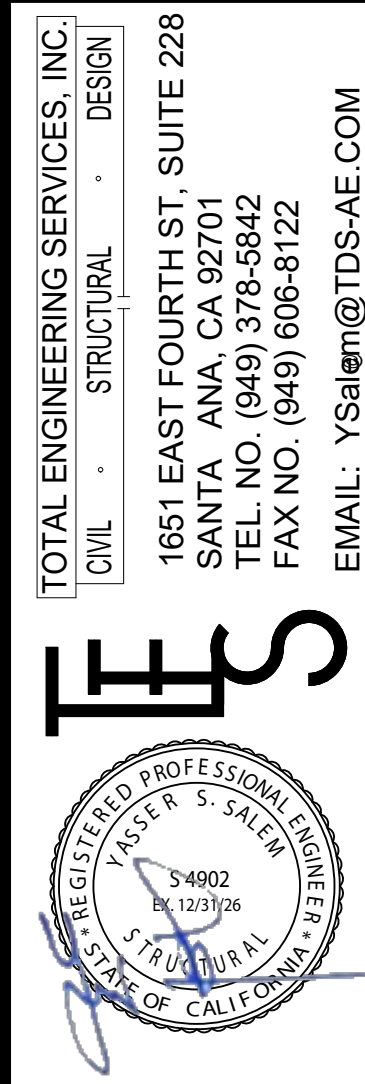
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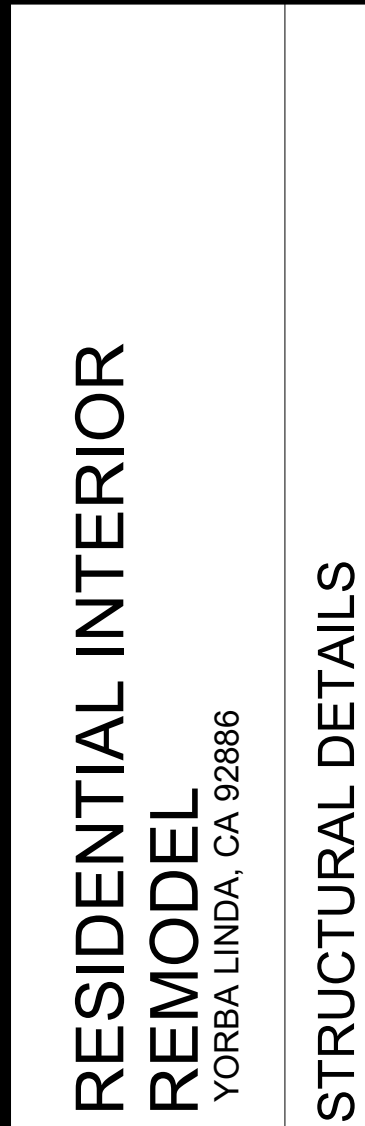
SHEAR TRANSFER @ INT. WALL PERP.

1" = 1'-0"

6

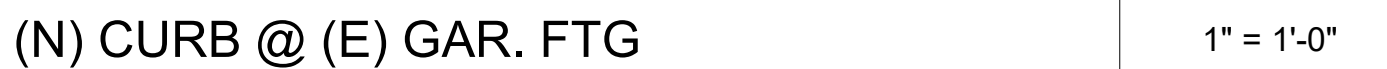
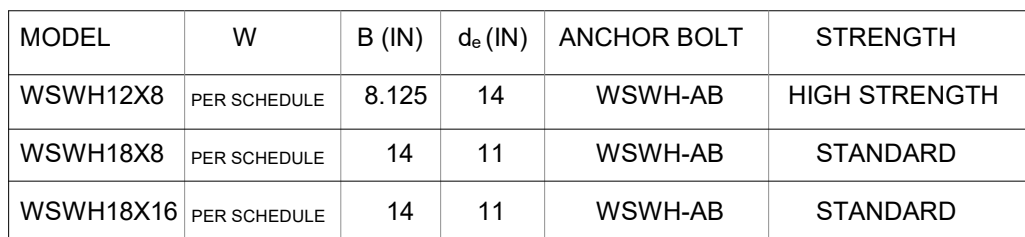


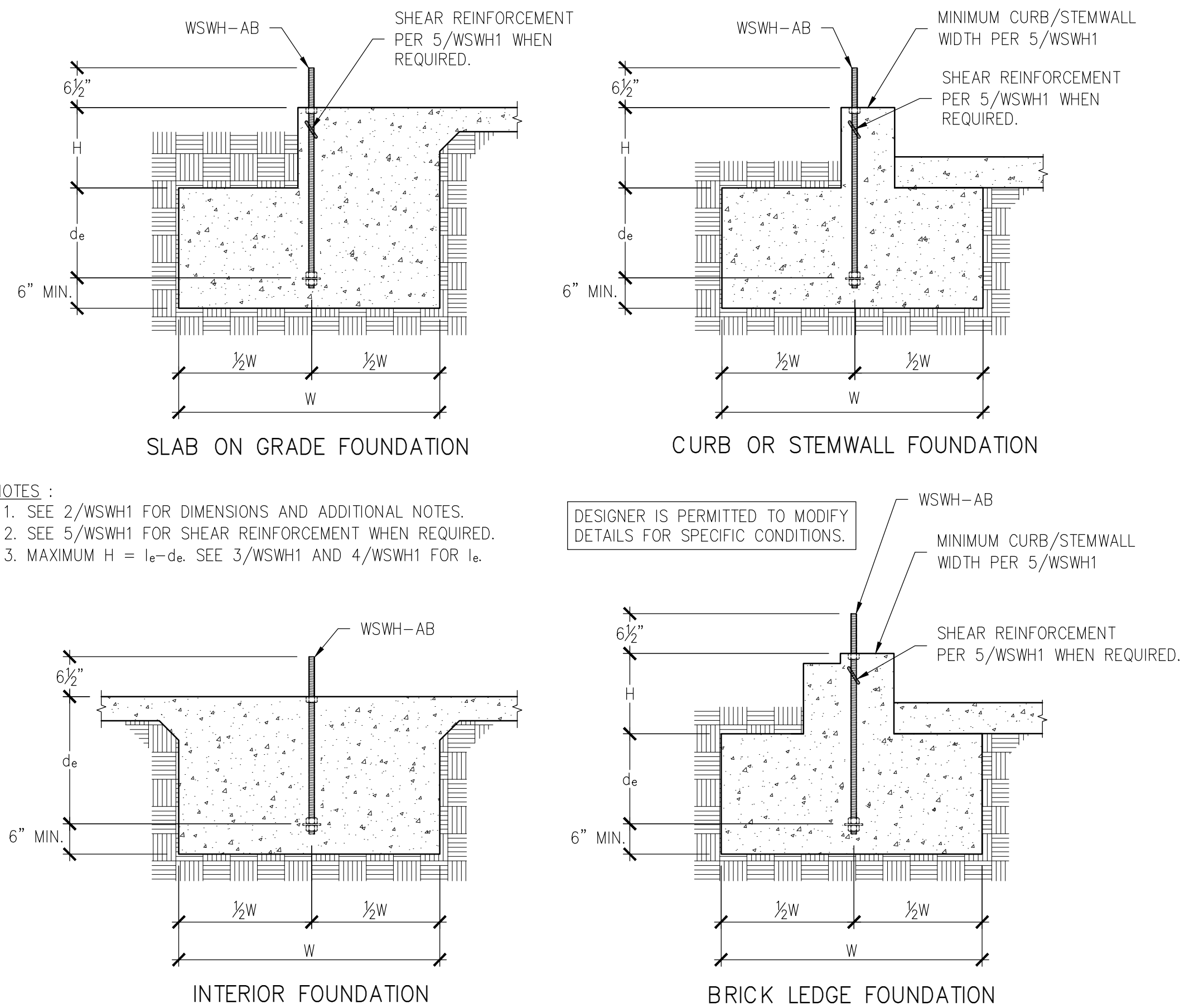
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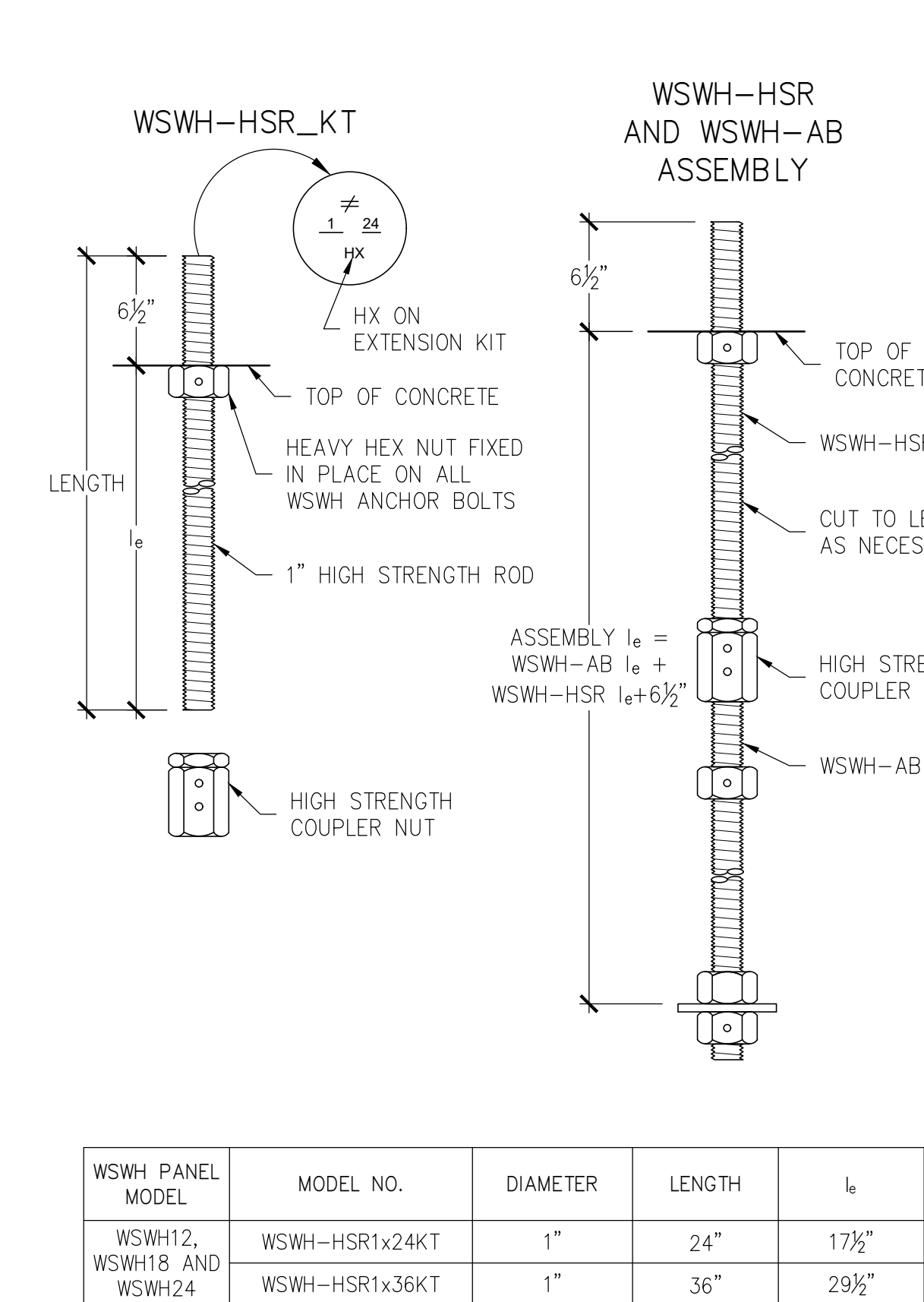
STRONG-WALL® WSWH ANCHORAGE – TYPICAL SECTIONS

1

WSWH ANCHOR BOLTS

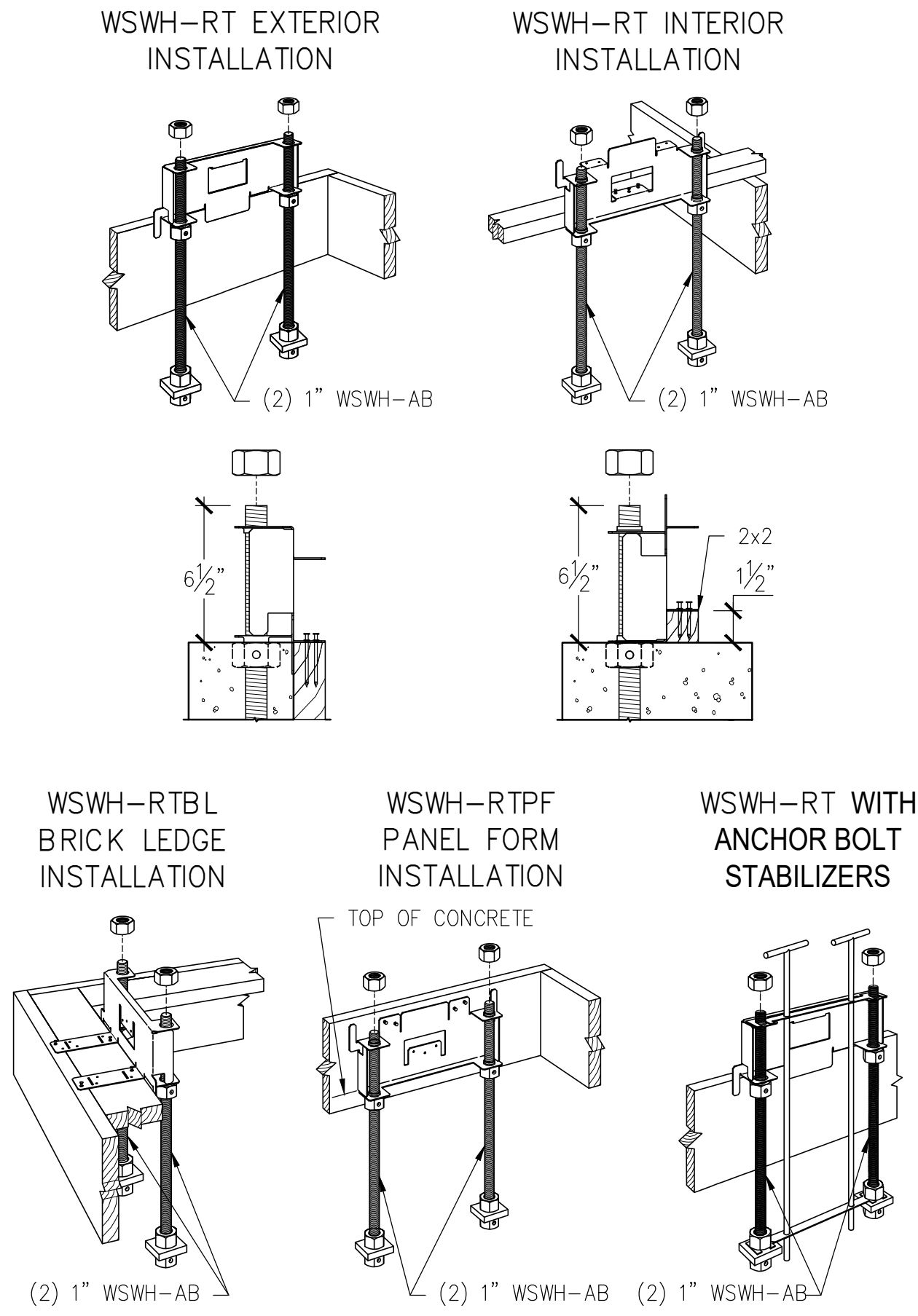
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WSWH PANEL MODEL	MODEL NO.	DIAMETER	LENGTH	l _e
WSWH12, WSWH18 AND WSWH24	WSWH-AB1x24	1"	24"	15½"
	WSWH-AB1x24HS	1"	24"	15½"
	WSWH-AB1x30	1"	30"	21½"
	WSWH-AB1x30HS	1"	30"	21½"
	WSWH-AB1x36	1"	36"	27½"
	WSWH-AB1x36HS	1"	36"	27½"
	WSWH-AB1x42	1"	42"	33½"
	WSWH-AB1x42HS	1"	42"	33½"
	WSWH-AB1x48	1"	48"	39½"
	WSWH-AB1x48HS	1"	48"	39½"



WSWH ANCHOR BOLT EXTENSION

4



WSWH ANCHOR BOLT TEMPLATES

6

NO.	DATE	REVISIONS
0	02-26-2021	FIRST RELEASE - 2018 IBC
1	03-16-2021	2021 IBC REVISIONS
2	04-29-2022	ADDED WSWH-AB MODELS

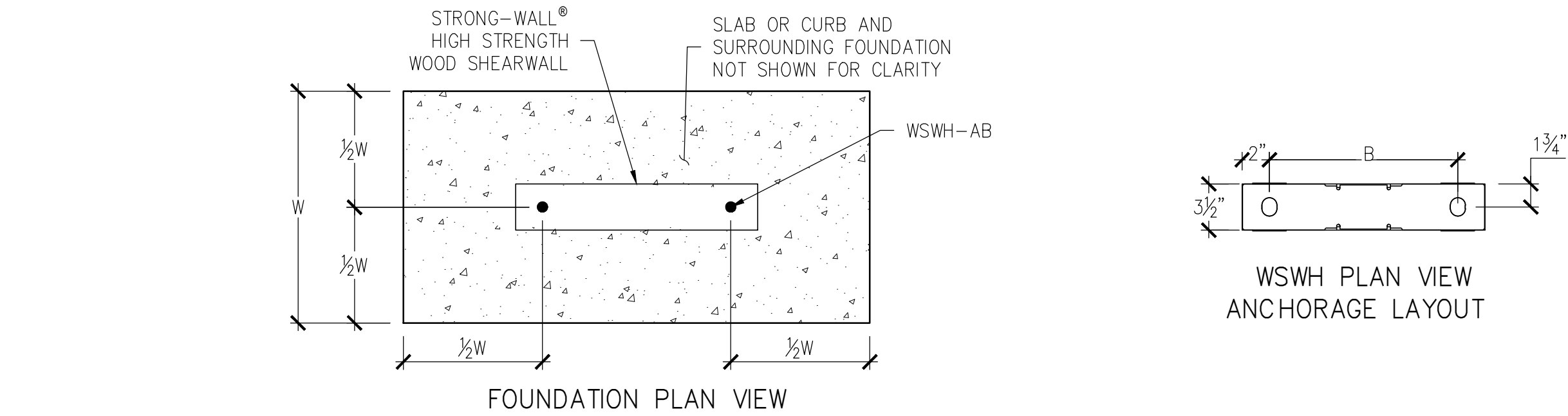
SIMPSON Strong-Tie, Co. Inc.
• 5956 W. Las Positas Blvd.
Pleasanton, CA 94588
• Tel: (800) 999-5099
• Website: www.strongtie.com



STRONG-WALL® WSWH
ANCHORAGE DETAILS
ENGINEERED DESIGNS



NAME	
DATE	04-29-2022
SCALE	N.T.S.
CHECKED	
SHEET	
WSWH1	
OF SHEETS	
JOB NO.	



- NOTES :
- ANCHORAGE DESIGNS CONFORM TO ACI 318-11 APPENDIX D, ACI 318-14 CHAPTER 17 AND ACI 318-19 CHAPTER 17 WITH NO SUPPLEMENTARY REINFORCEMENT FOR CRACKED OR UNCRACKED CONCRETE AS NOTED.
 - ANCHOR STRENGTH INDICATES REQUIRED GRADE OF WSWH-AB ANCHOR BOLT. STANDARD (ASTM F1554 GRADE 36) OR HIGH STRENGTH (HS) (ASTM A193 GRADE B7).
 - SEISMIC INDICATES SEISMIC DESIGN CATEGORY C-F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318-11 SECTION D.3.3.4.3, ACI 318-14 SECTION 17.2.3.4.3 AND ACI 318-19 SECTION 17.10.5.3.
 - WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C.
 - FOUNDATION DIMENSIONS ARE FOR ANCHORAGE ONLY. FOUNDATION DESIGN (SIZE AND REINFORCEMENT) BY OTHERS. THE DESIGNER MAY SPECIFY ALTERNATE EMBEDMENT, FOOTING SIZE OR ANCHOR BOLT.
 - REFER TO 1/WSWH1 FOR d_e.

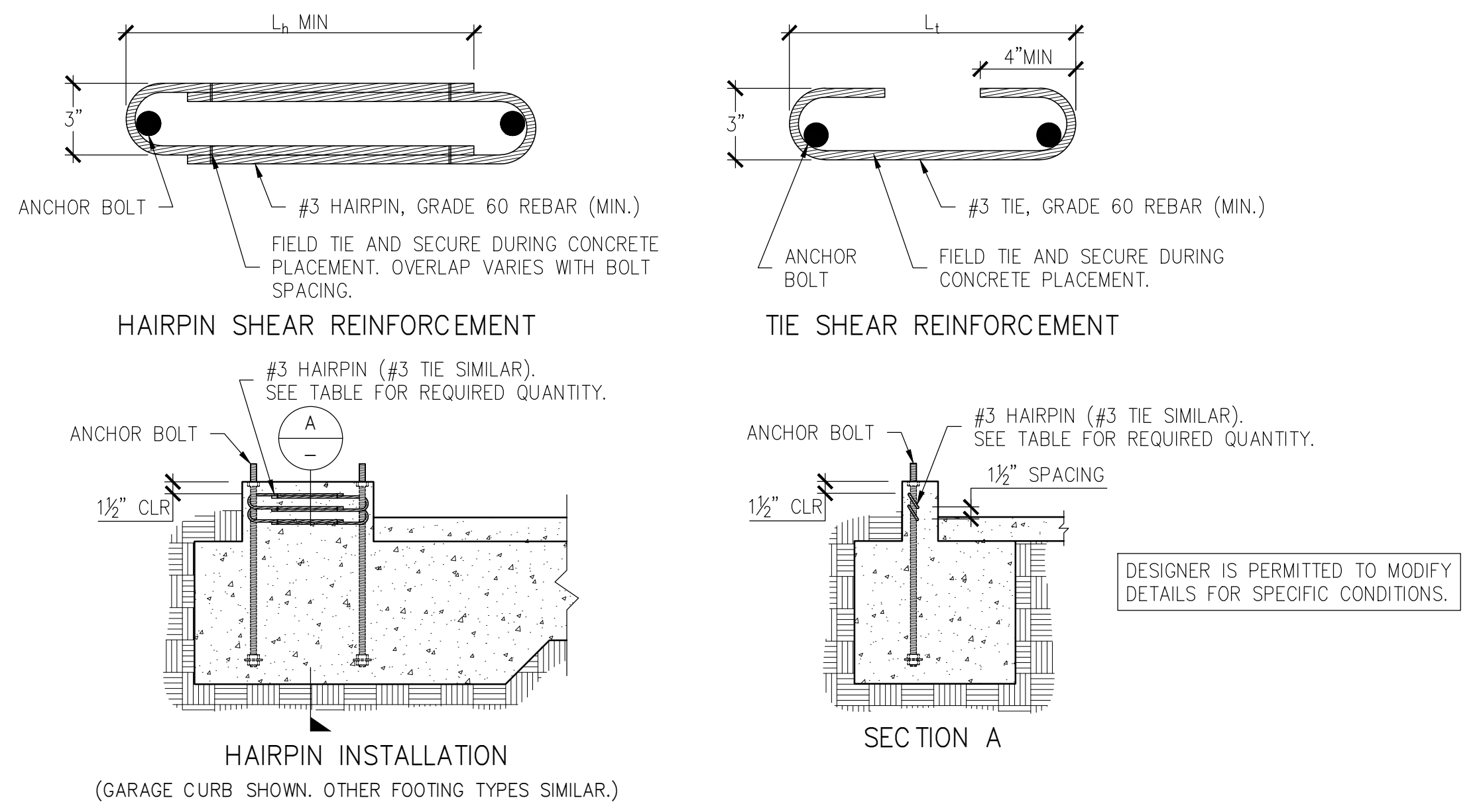
WSWH ANCHORAGE SOLUTIONS FOR 2500 PSI CONCRETE					
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	ASD ALLOWABLE UPLIFT (lbs)	W (in)	d _e (in)
SEISMIC	CRACKED	STANDARD	16,000	33	11
		HIGH STRENGTH	34,100	52	18
		HIGH STRENGTH	36,800	55	19
	UNCRAKED	STANDARD	15,700	28	10
		HIGH STRENGTH	33,500	45	15
		HIGH STRENGTH	36,800	48	16
WIND	CRACKED	STANDARD	6,200	16	6
		HIGH STRENGTH	11,400	24	8
		HIGH STRENGTH	17,100	32	11
		HIGH STRENGTH	21,100	36	12
		HIGH STRENGTH	27,300	42	14
		HIGH STRENGTH	34,100	48	16
	UNCRAKED	STANDARD	6,400	14	6
		HIGH STRENGTH	12,500	22	8
		HIGH STRENGTH	17,100	33	11
		HIGH STRENGTH	22,900	36	12
		HIGH STRENGTH	34,200	42	14
		HIGH STRENGTH	36,800	44	15

WSWH ANCHORAGE SOLUTIONS FOR 3000 PSI CONCRETE					
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	ASD ALLOWABLE UPLIFT (lbs)	W (in)	d _e (in)
SEISMIC	CRACKED	STANDARD	16,000	31	11
		HIGH STRENGTH	33,900	49	17
		HIGH STRENGTH	36,800	52	18
	UNCRAKED	STANDARD	16,300	27	9
		HIGH STRENGTH	34,000	43	15
		HIGH STRENGTH	36,800	46	16
WIND	CRACKED	STANDARD	5,600	14	6
		HIGH STRENGTH	10,200	21	7
		HIGH STRENGTH	17,100	30	10
		HIGH STRENGTH	20,000	33	11
		HIGH STRENGTH	26,500	39	13
		HIGH STRENGTH	33,600	45	15
	UNCRAKED	STANDARD	6,200	13	6
		HIGH STRENGTH	12,800	21	7
		HIGH STRENGTH	17,100	26	9
		HIGH STRENGTH	21,800	30	10
		HIGH STRENGTH	28,900	36	12
		HIGH STRENGTH	33,100	39	13

WSWH ANCHORAGE SOLUTIONS FOR 4500 PSI CONCRETE					
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	ASD ALLOWABLE UPLIFT (lbs)	W (in)	d _e (in)
SEISMIC	CRACKED	STANDARD	16,000	27	9
		HIGH STRENGTH	34,700	44	15
		HIGH STRENGTH	36,800	46	16
	UNCRAKED	STANDARD	15,700	23	8
		HIGH STRENGTH	33,900	38	13
		HIGH STRENGTH	36,800	40	14
WIND	CRACKED	STANDARD	6,800	14	6
		HIGH STRENGTH	11,600	20	7
		HIGH STRENGTH	17,100	26	9
		HIGH STRENGTH	21,400	30	10
		HIGH STRENGTH	28,400	36	12
		HIGH STRENGTH	32,400	39	13
	UNCRAKED	STANDARD	6,800	12	6
		HIGH STRENGTH	12,400	18	6
		HIGH STRENGTH	17,100	23	8
		HIGH STRENGTH	22,800	27	9
		HIGH STRENGTH	26,700	30	10
		HIGH STRENGTH	30,700	33	11

STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL TENSION ANCHORAGE SCHEDULE 2,500, 3,000 AND 4,500 PSI

2



STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL SHEAR ANCHORAGE						
MODEL	SEISMIC ³			WIND ⁴		
	L _t OR L _p (in.)	SHEAR REINFORCEMENT	MIN. CURB/STEMWALL WIDTH (in.)	SHEAR REINFORCEMENT	MIN. CURB/STEMWALL WIDTH (in.)	ASD ALLOWABLE SHEAR LOAD, V (lb.)
WSWH12	10¼	(1) #3 TIE	6	SEE NOTE 7	6	1,080
WSWH18	15	(2) #3 HAIRPINS ^{5,6}	6	(1) #3 HAIRPIN	6	770
WSWH24	19	(2) #3 HAIRPINS ⁵	6	(2) #3 HAIRPINS ⁵	6	HAIRPIN REINF. ACHIEVES MAX. ALLOW SHEAR LOAD OF THE WSWH

- NOTES :
- SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-19, ACI 318-11 AND ACI 318-14 AND ASSUME MINIMUM 2,500 PSI CONCRETE.
 - SHEAR REINFORCEMENT IS NOT REQUIRED FOR INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE), OR BRACED WALL PANEL APPLICATIONS.
 - SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC SHEAR REINFORCEMENT DESIGNS CONFORM TO ACI 318-19, SECTION 17.10.6.3, ACI 318-14, SECTION 17.2.3.5.3.
 - WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B.
 - ADDITIONAL TIES MAY BE REQUIRED AT GARAGE CURB OR STEMWALL INSTALLATIONS BELOW ANCHOR REINFORCEMENT PER DESIGNER.
 - USE (1) #3 HAIRPIN FOR WSWH18 WHEN STANDARD STRENGTH ANCHOR IS USED.
 - USE (1) #3 TIE FOR WSWH12 WHEN PANEL DESIGN SHEAR FORCE EXCEEDS TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.
 - #4 GRADE 40 SHEAR REINFORCEMENT MAY BE SUBSTITUTED FOR WSWH SHEAR ANCHORAGE SOLUTIONS.
 - CONCRETE EDGE DISTANCE FOR ANCHORS MUST COMPLY WITH ACI 318-19 SECTION 17.9.2, ACI 318-14 SECTION 17.7.2 AND ACI 318-11 SECTION D.8.2.
 - THE DESIGNER MAY SPECIFY ALTERNATE SHEAR ANCHORAGE.

STRONG-WALL® WSWH SHEAR ANCHORAGE SCHEDULE AND DETAILS

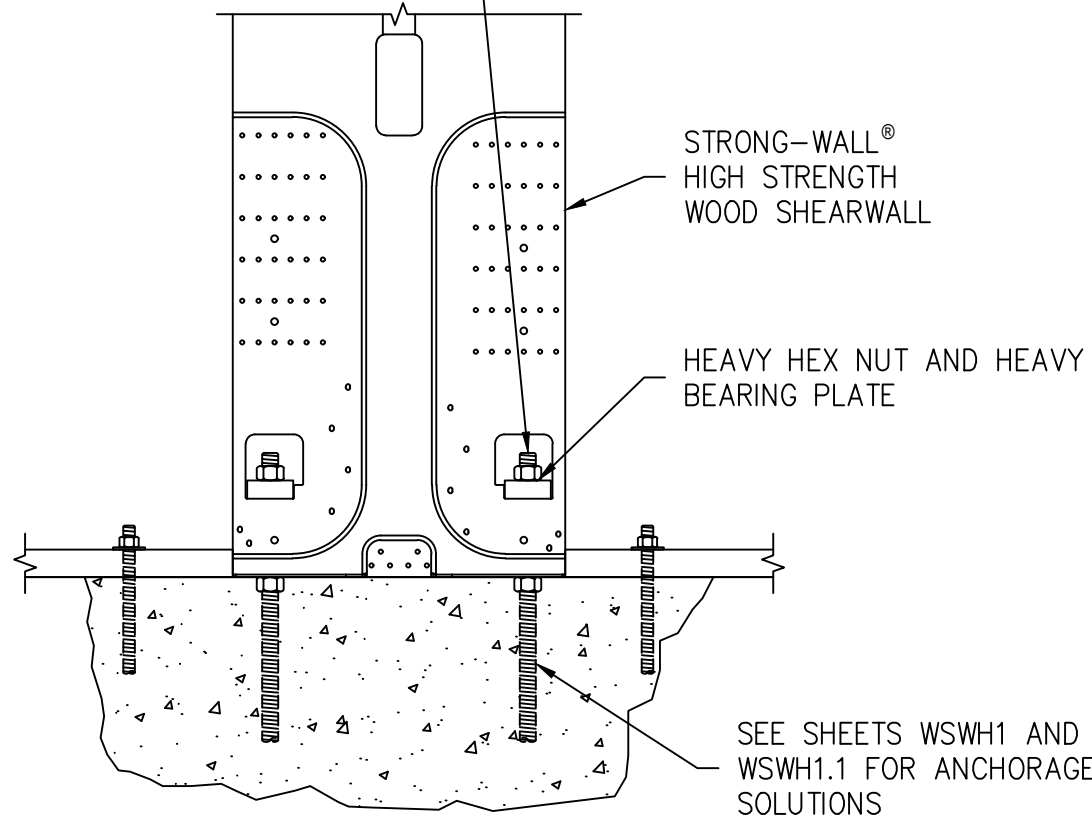
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STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL MODELS

MODEL NO.	W (in.)	H (in.)	ANCHOR BOLTS		TOTAL WALL WEIGHT (lb.)
			QUANTITY	DIA. (in.)	
WSWH12x7	12	84	2	1	105
WSWH18x7	18	84	2	1	155
WSWH12x8	12	96	2	1	120
WSWH18x8	18	96	2	1	175
WSWH24x8	24	96	2	1	225
WSWH12x9	12	108	2	1	130
WSWH18x9	18	108	2	1	195
WSWH24x9	24	108	2	1	250
WSWH12x10	12	120	2	1	145
WSWH18x10	18	120	2	1	210
WSWH24x10	24	120	2	1	275
WSWH12x12	12	144	2	1	165
WSWH18x12	18	144	2	1	245
WSWH24x12	24	144	2	1	325
WSWH18x14	18	168	2	1	285
WSWH24x14	24	168	2	1	370
WSWH24x16	24	192	2	1	420
WSWH18x20	18	240	2	1	390
WSWH24x20	24	240	2	1	520

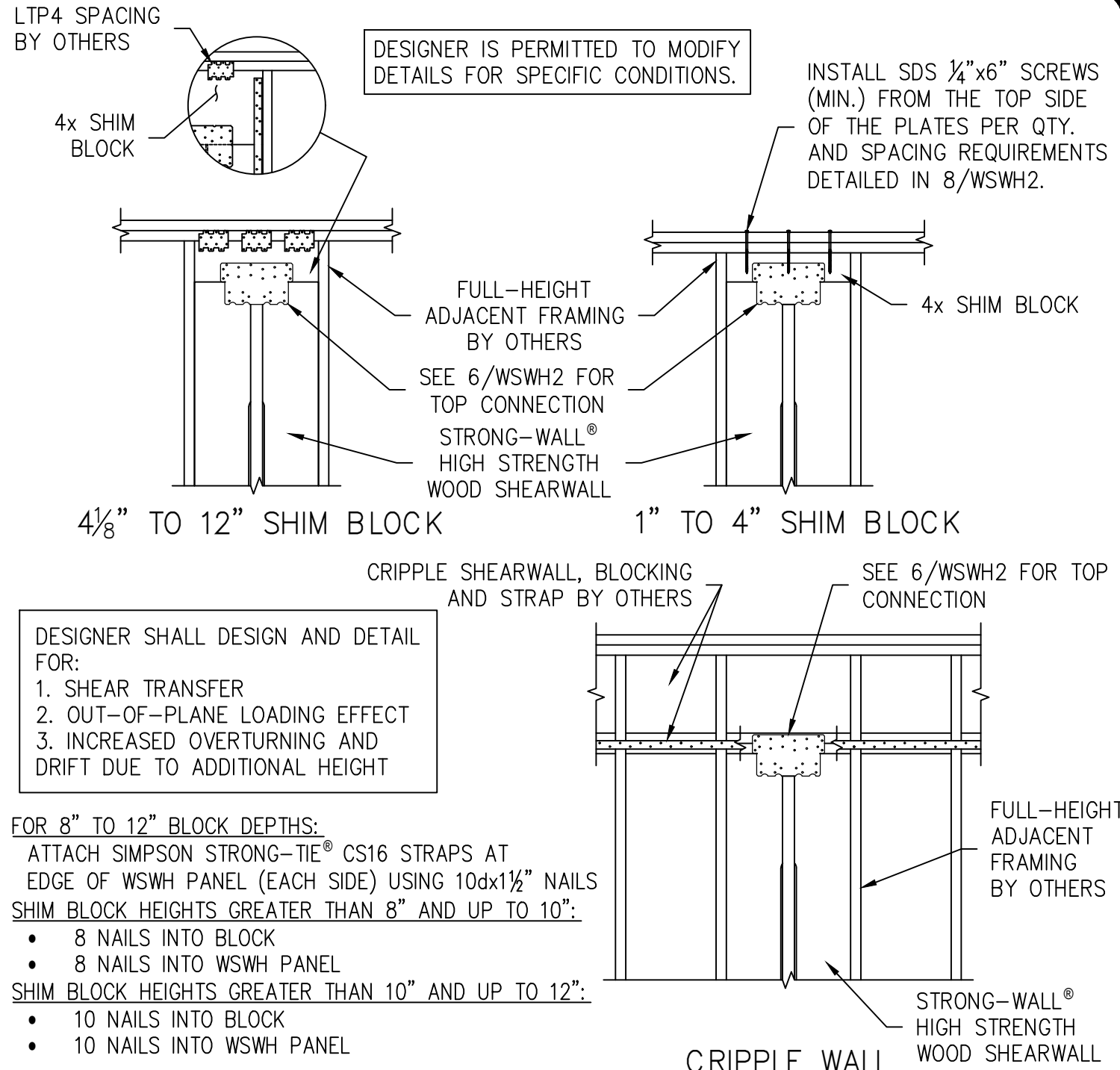
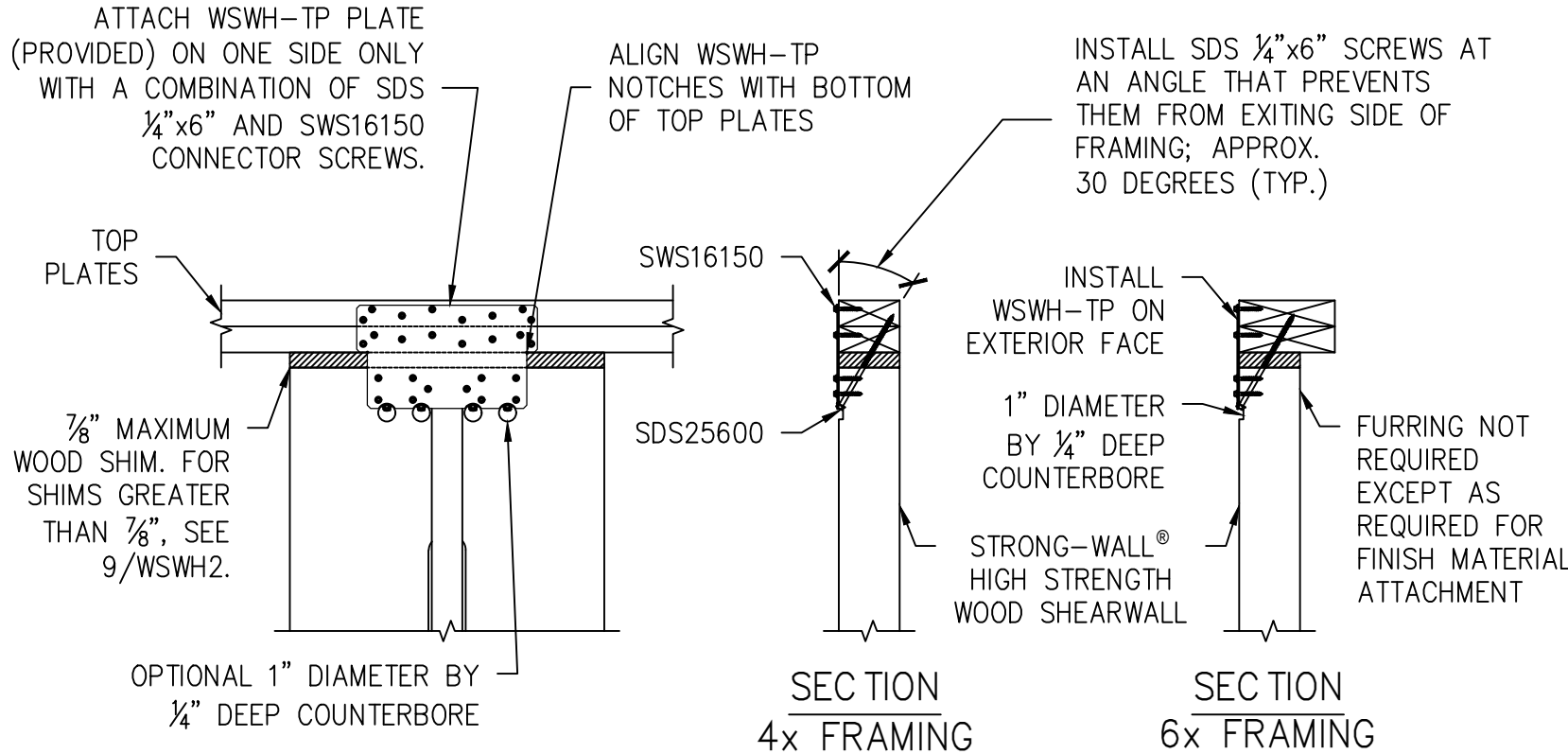
- NOTES :
- FOR HEIGHTS NOT LISTED, ORDER THE NEXT TALLEST PANEL AND TRIM TO FIT.
MINIMUM TRIMMED HEIGHT FOR ALL PANELS IS 74½".
 - ALL PANELS COME WITH PRE-ATTACHED HOLDOWNS, TWO HEAVY HEX NUTS, TWO HEAVY BEARING PLATES, ONE WSWH-TP TOP CONNECTION PLATE WITH REQUIRED FASTENERS AND INSTALLATION INSTRUCTIONS.
 - ALL PANELS ARE ¾" THICK.

PLACE STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL OVER THE ANCHOR BOLTS AND SECURE WITH HEAVY BEARING PLATES AND HEAVY HEX NUTS (PROVIDED). DO NOT USE AN IMPACT WRENCH. USE 1½" WRENCH FOR 1" NUT. TIGHTEN ANCHOR NUTS FINGER TIGHT + ½" TURN.



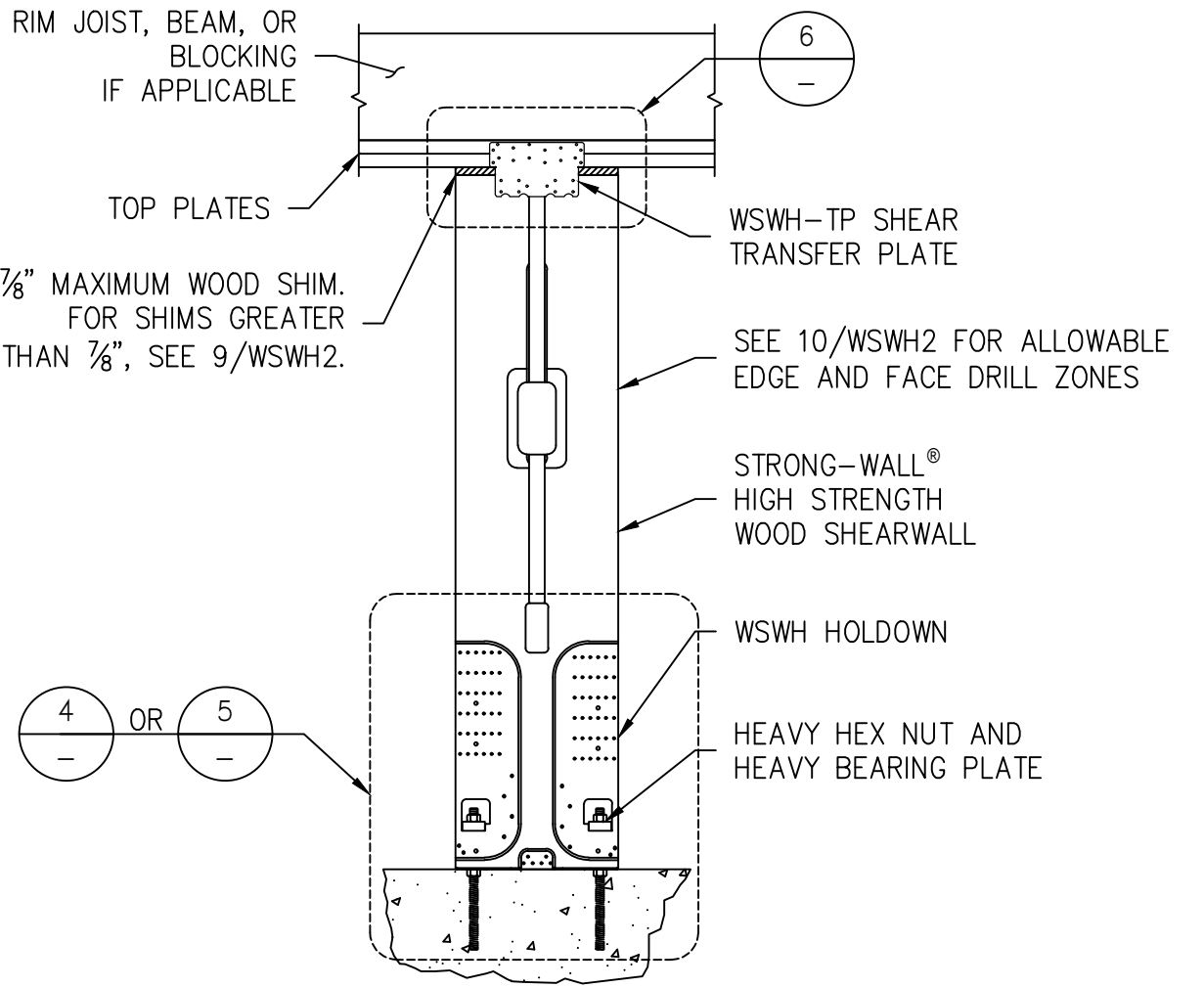
WSWH-TP CONNECTION		
MODEL NO.	FASTENER QUANTITY	
	SWS16150	SDS25600
WSWH-TP12	14	2
WSWH-TP18	26	4
WSWH-TP24	46	8

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.



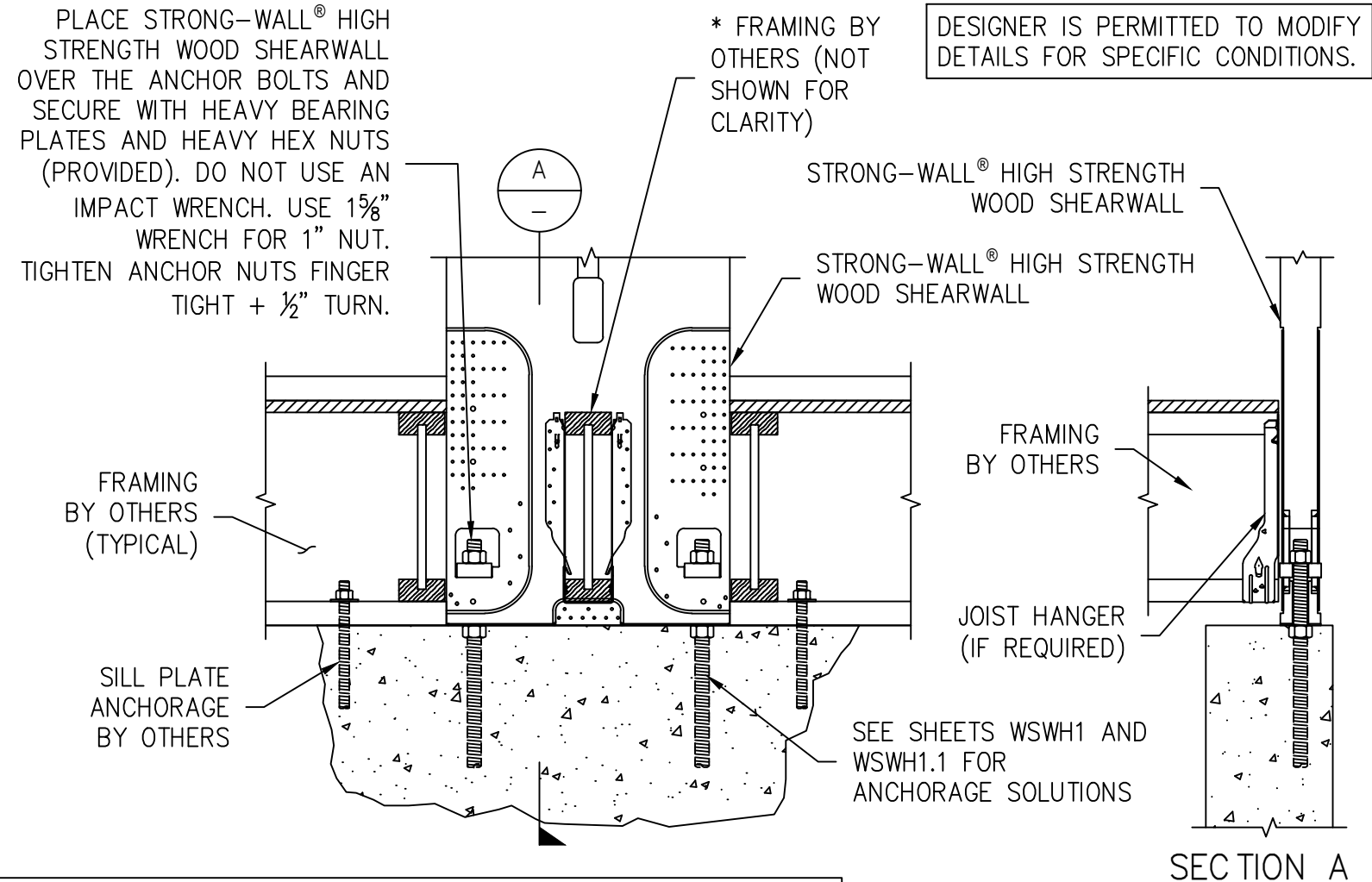
STRONG-WALL® WSWH MODELS

1



STANDARD INSTALLATION BASE CONNECTION

4

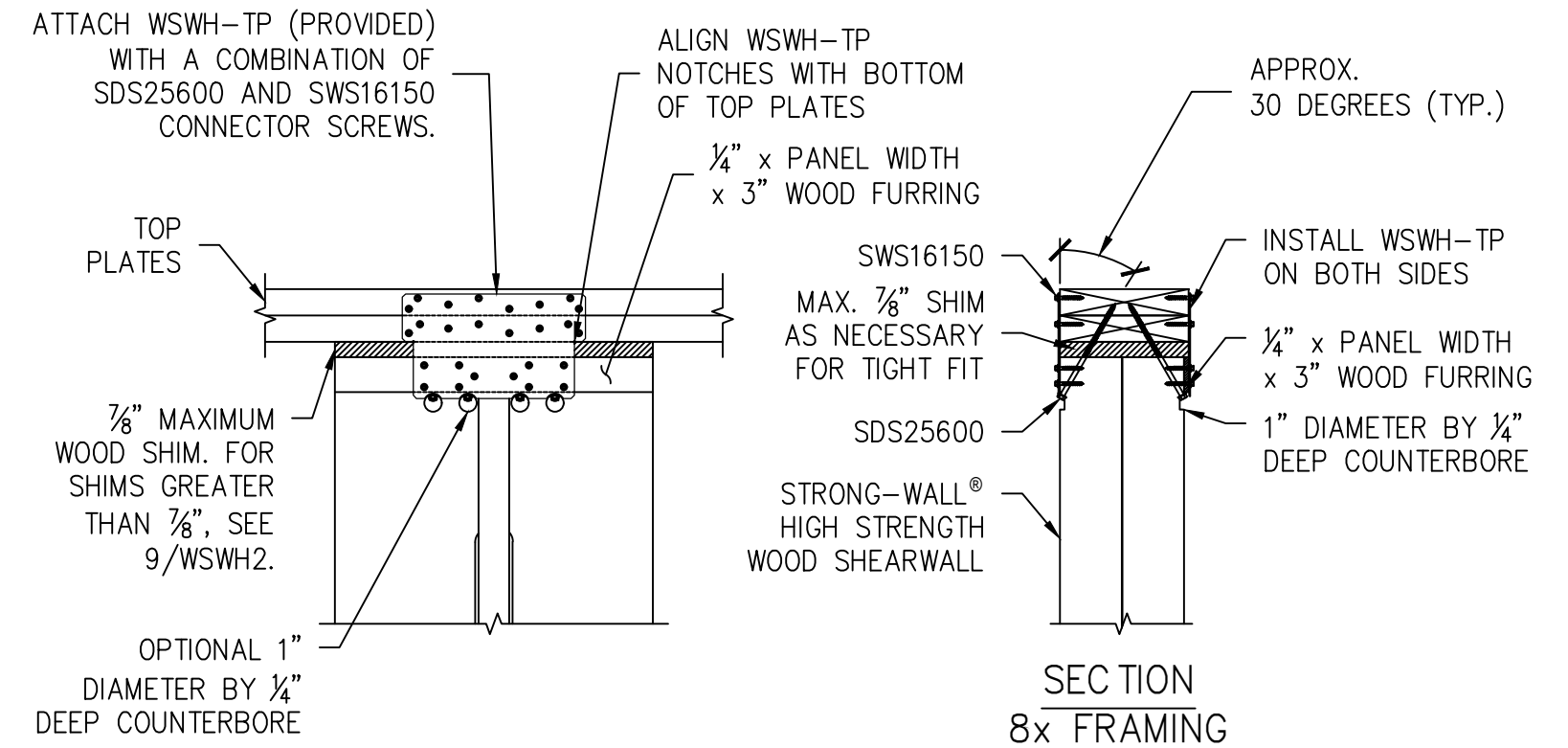


TOP CONNECTION

6

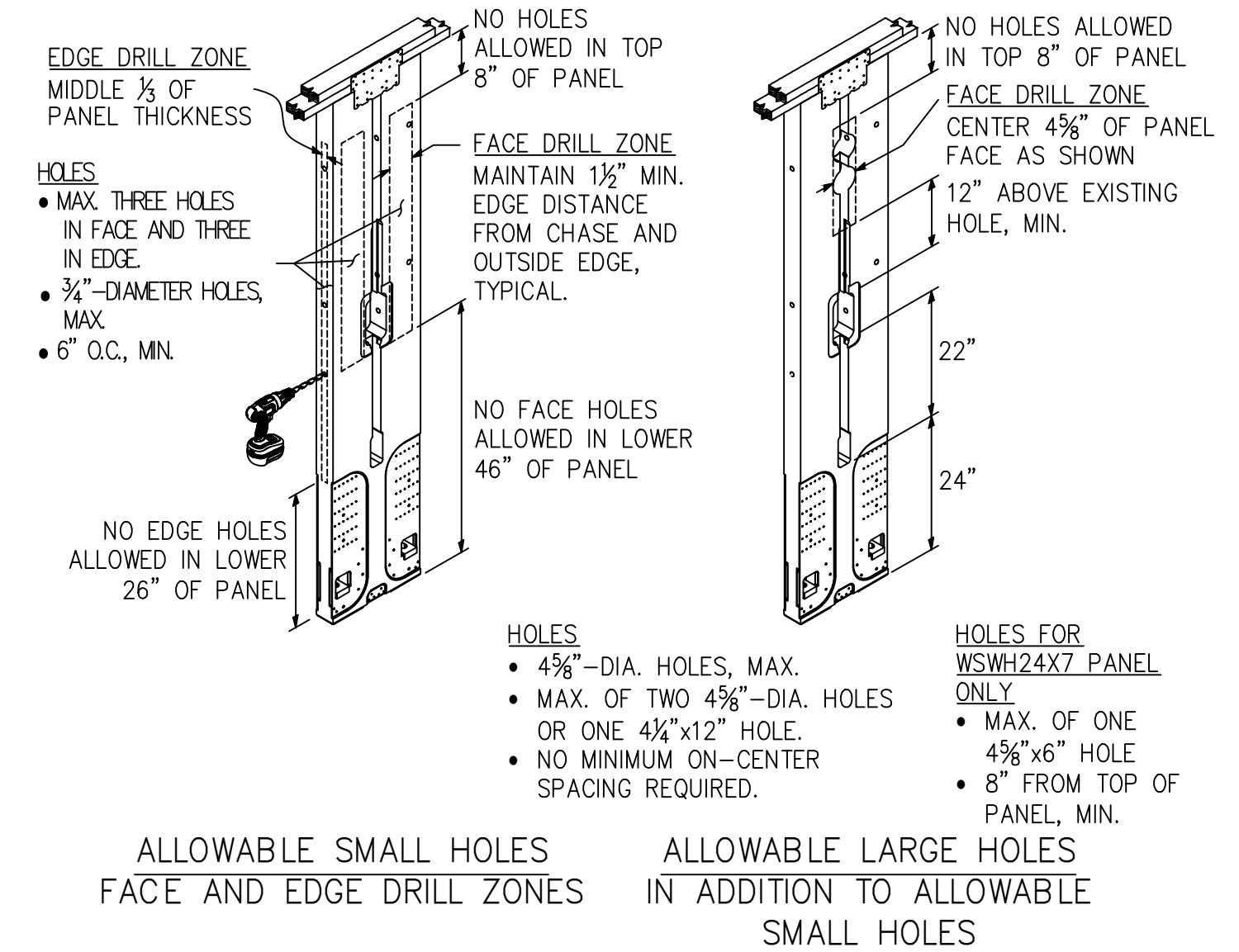
WSWH-TP CONNECTION		
MODEL NO.	FASTENER QUANTITY	
	SWS16150	SDS25600
WSWH-TP12	28	4
WSWH-TP18	52	8
WSWH-TP24	92	16

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.



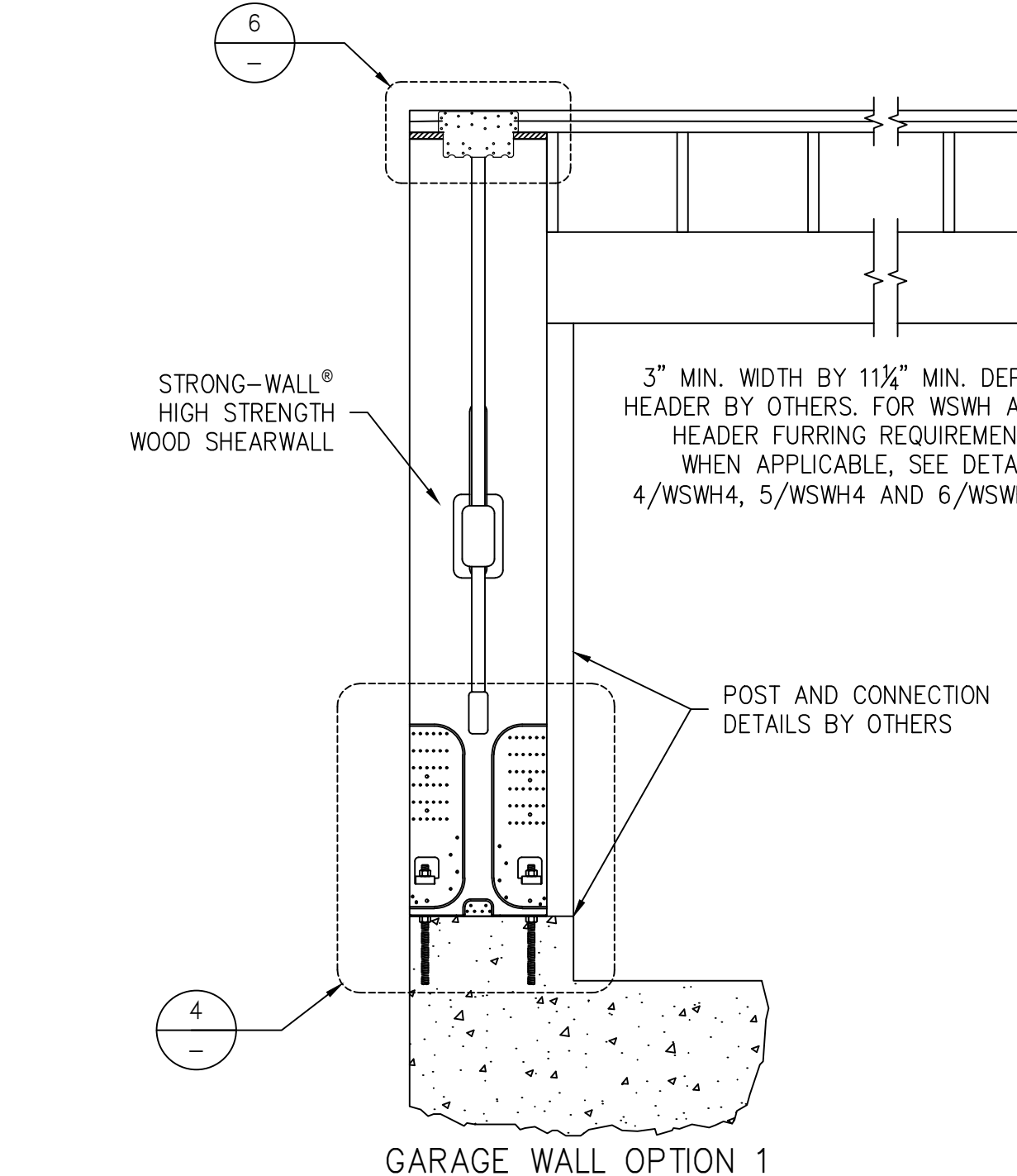
TOP OF WALL HEIGHT ADJUSTMENTS

9



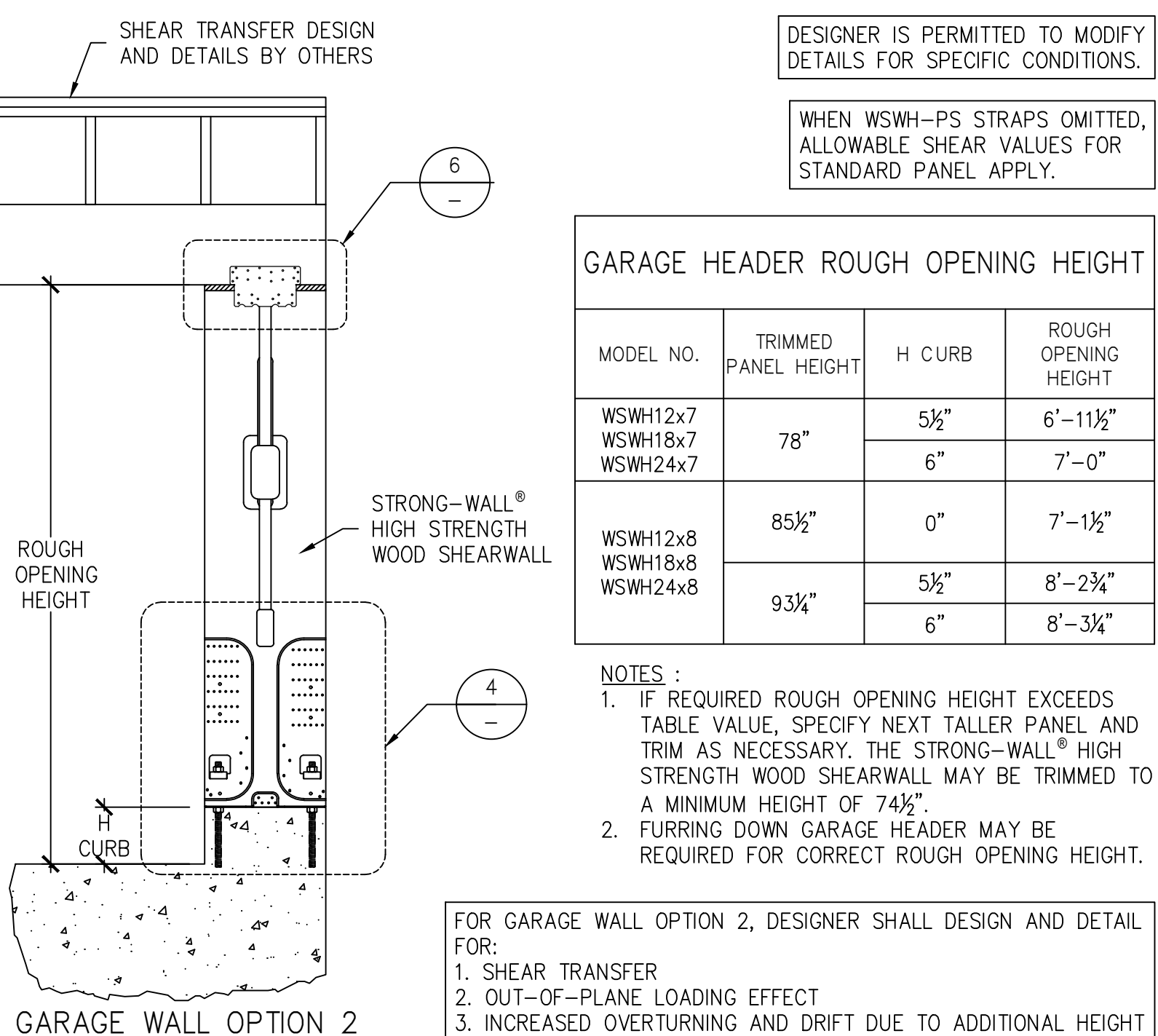
SINGLE STORY WSWH ON CONCRETE

2



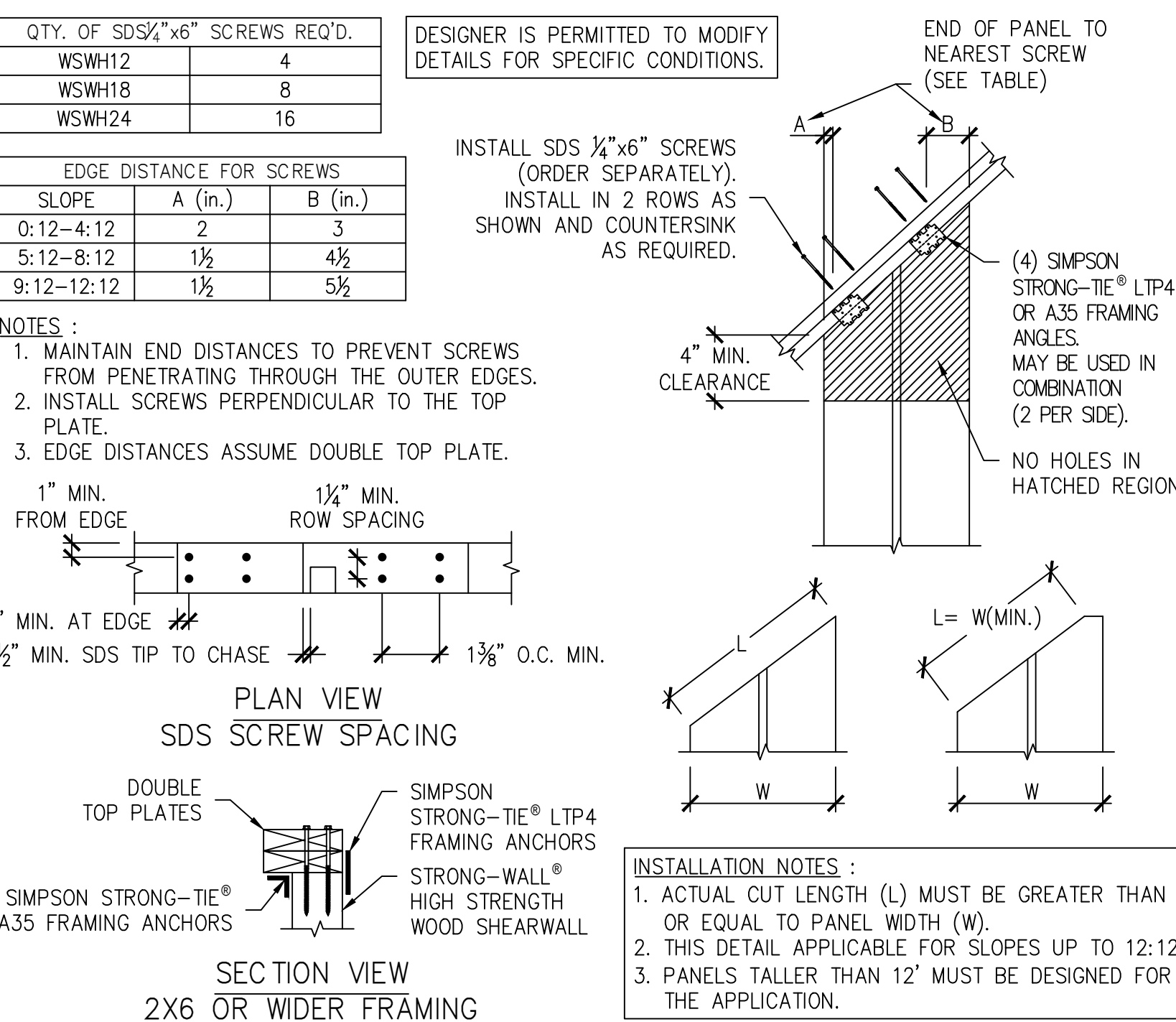
WOOD FLOOR SYSTEM BASE CONNECTION

5



BACK-TO-BACK TOP CONNECTION

7



TRIM ZONE AND ALLOWABLE HOLES

10

1. STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL IS MANUFACTURED AND TRADEMARKED BY "SIMPSON STRONG-TIE COMPANY INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA 94588 TEL: (800) 999-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY INC." IS AN ISO 9001-2008 REGISTERED COMPANY.
2. USE OF THIS PRODUCT IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING DEPARTMENT.
3. THIS PRODUCT IS PART OF THE OVERALL LATERAL FORCE RESISTING SYSTEM OF THE STRUCTURE. DESIGN OF THE BUILDING'S LATERAL FORCE RESISTING SYSTEM, INCLUDING THE LOAD PATH TO TRANSFER LATERAL FORCES FROM THE STRUCTURE TO THE GROUND, IS THE RESPONSIBILITY OF THE DESIGNER.
4. ENGINEER OF RECORD IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ELEVATIONS, ETC. PRIOR TO INSTALLATION OF ANY COMPONENTS FOR THE STRONG-WALL SB SYSTEM. IF ANY DISCREPANCIES ARE FOUND, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
6. INSTALLATION OF PRODUCT SHALL BE DONE IN CONFORMANCE TO THESE DRAWINGS. THE PERFORMANCE OF MODIFIED PRODUCTS OR ALTERED INSTALLATION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE DESIGNER.
7. SIMPSON STRONG-TIE COMPANY INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, AND MODELS WITHOUT NOTICE OR LIABILITY FOR SUCH CHANGES.
8. ALL HARDWARE CALLED OUT IS SIMPSON STRONG-TIE.
9. SEE ICC-ES ESR-2652 OR CITY OF LOS ANGELES RR25730 AS APPLICABLE FOR ADDITIONAL INFORMATION.

ALTERNATE WSWH GARAGE FRONT OPTIONS

3

ALTERNATE WSWH GARAGE FRONT OPTIONS

RAKE WALL

8

RAKE WALL

NOTES

11

NOTES

REVISIONS		FIRST RELEASE - 2018 IBC	
NO.	DATE	11-20-2020	2021 IBC REVISIONS
0		03-16-2021	UPDATE DETAIL 5
1		09-27-2023	

SIMPSON Strong-Tie, Co. Inc.

5956 W. Las Positas Blvd.
Pleasanton, CA 94588
Tel: (800) 999-5099
Website: www.strongtie.com

SIMPSON Strong-Tie

THERE IS NO EQUAL

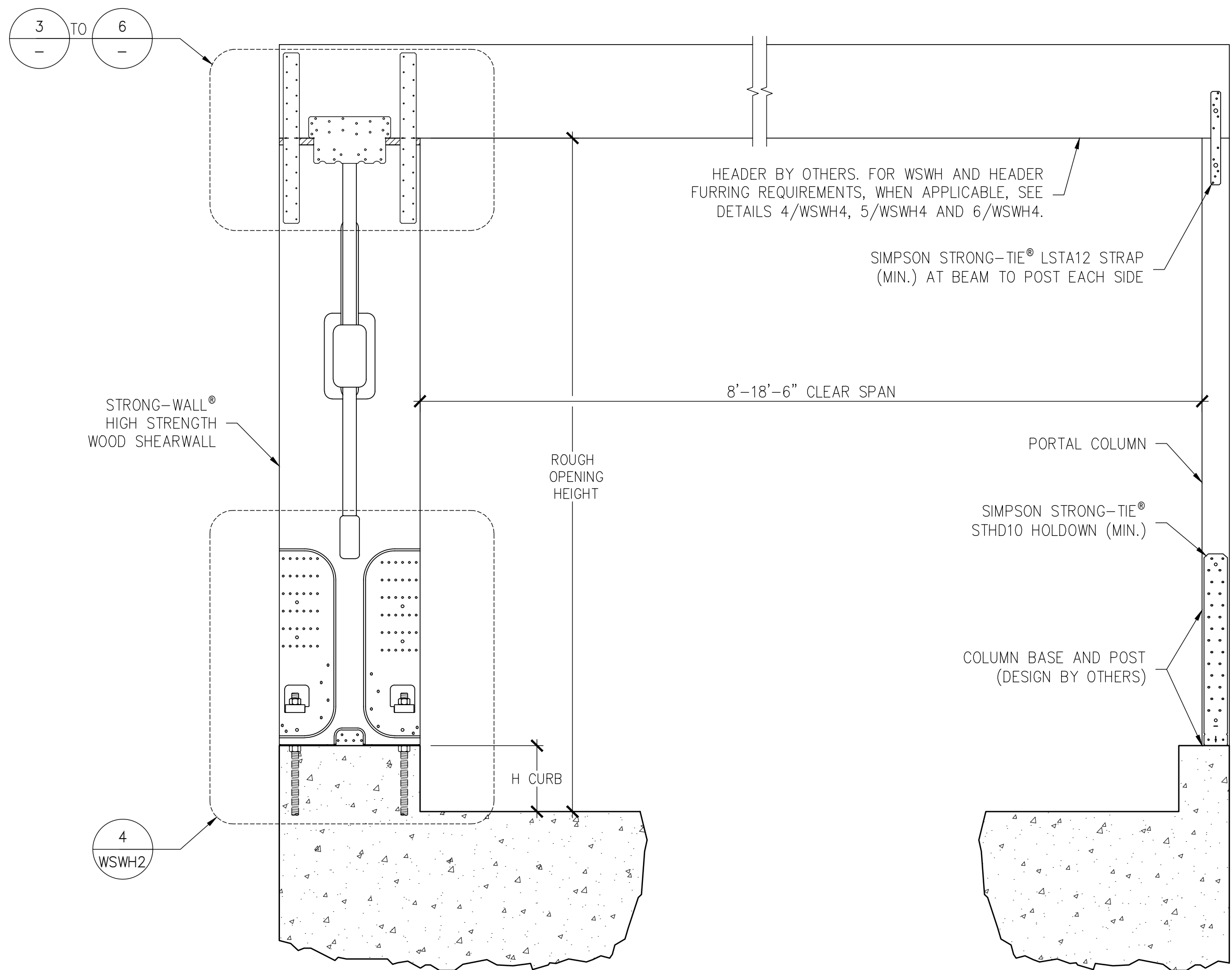
STRONG-WALL® WSWH

FRAMING DETAILS
ENGINEERED DESIGNS

SIMPSON Strong-Tie

THERE IS NO EQUAL

NAME	
DATE	09-27-2023
SCALE	N.T.S.
CHECKED	
SHEET	
WSWH2	
OF SHEETS	
JOB NO.	

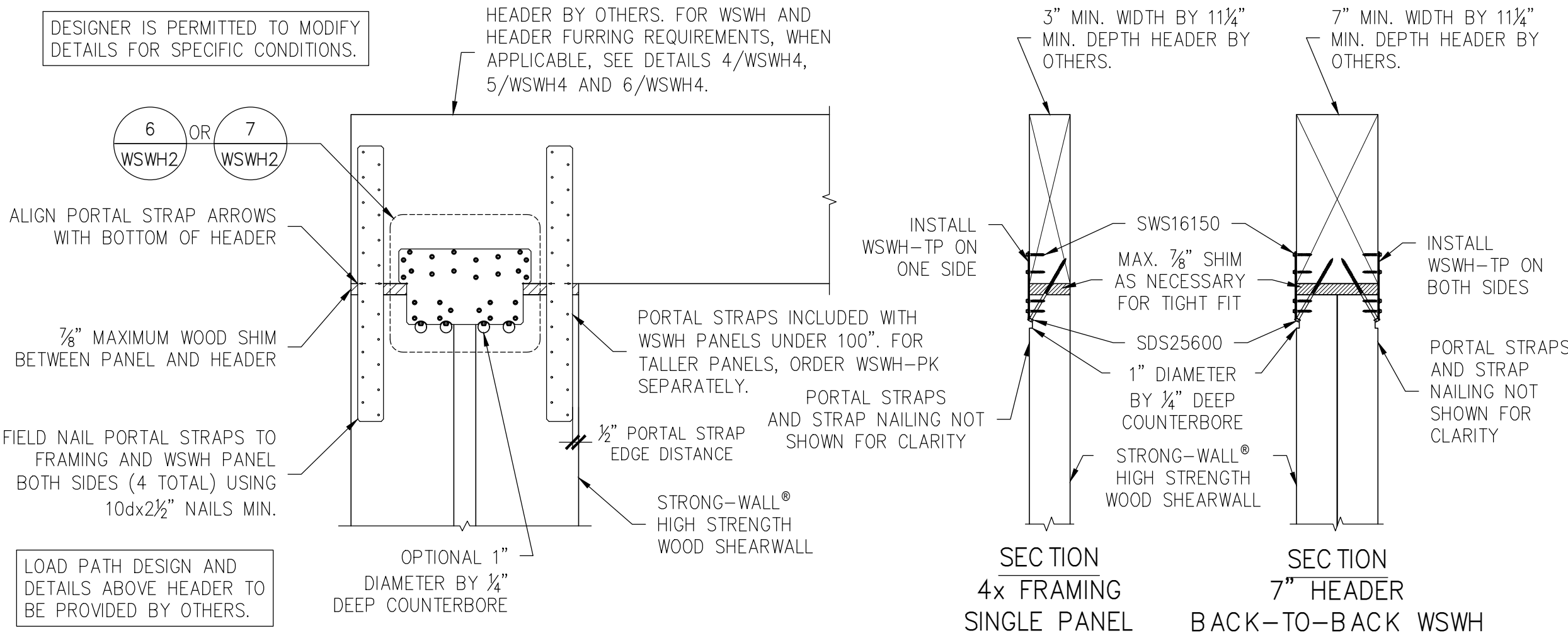


GARAGE HEADER ROUGH OPENING HEIGHT			
MODEL NO.	TRIMMED PANEL HEIGHT	H CURB	ROUGH OPENING HEIGHT
WSWH12x7 WSWH18x7 WSWH24x7	78"	5½"	6'-11½"
		6"	7'-0"
WSWH12x8 WSWH18x8 WSWH24x8	85½"	0"	7'-1½"
		5½"	8'-2¾"
	93¾"	6"	8'-3¼"

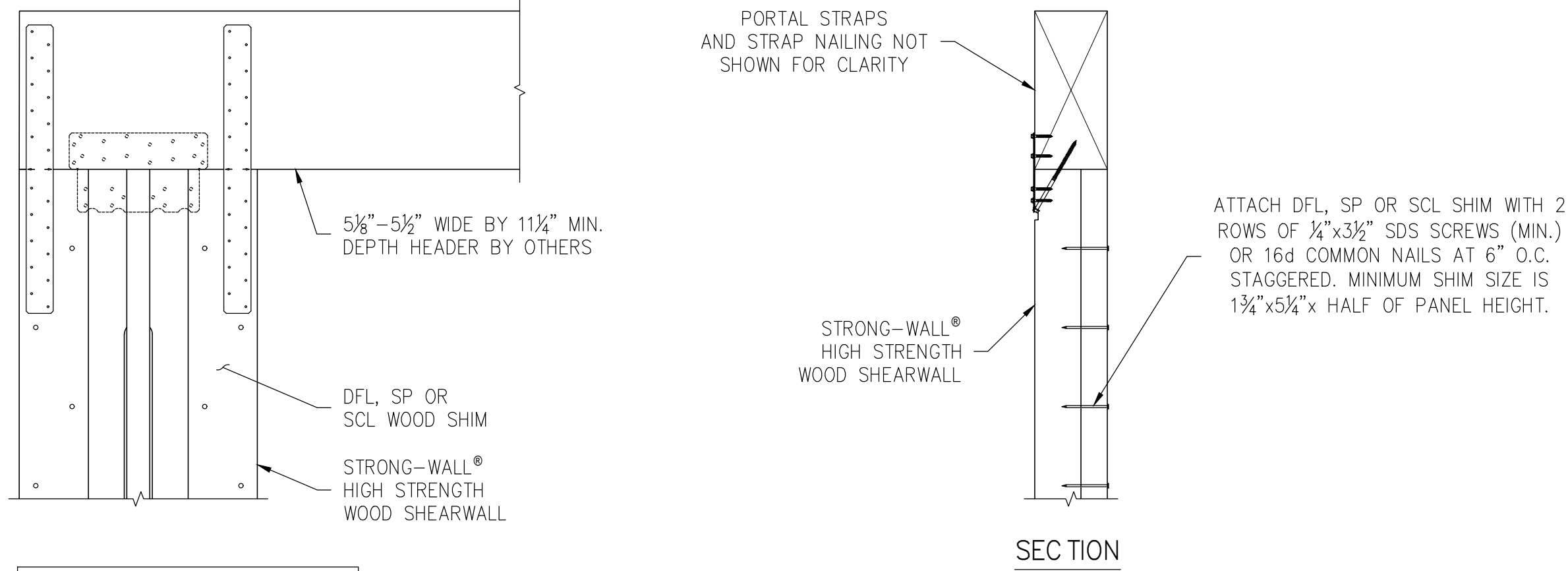
- NOTES :
1. IF REQUIRED ROUGH OPENING HEIGHT EXCEEDS TABLE VALUE, SPECIFY NEXT TALLER PANEL AND TRIM AS NECESSARY. THE STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL MAY BE TRIMMED TO A MINIMUM HEIGHT OF 74½".
 2. FURRING DOWN GARAGE HEADER MAY BE REQUIRED FOR CORRECT ROUGH OPENING HEIGHT.

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

ENSURE CONCRETE IS LEVEL AND SMOOTH BENEATH PANEL. GRIND OR FILL AS NECESSARY.

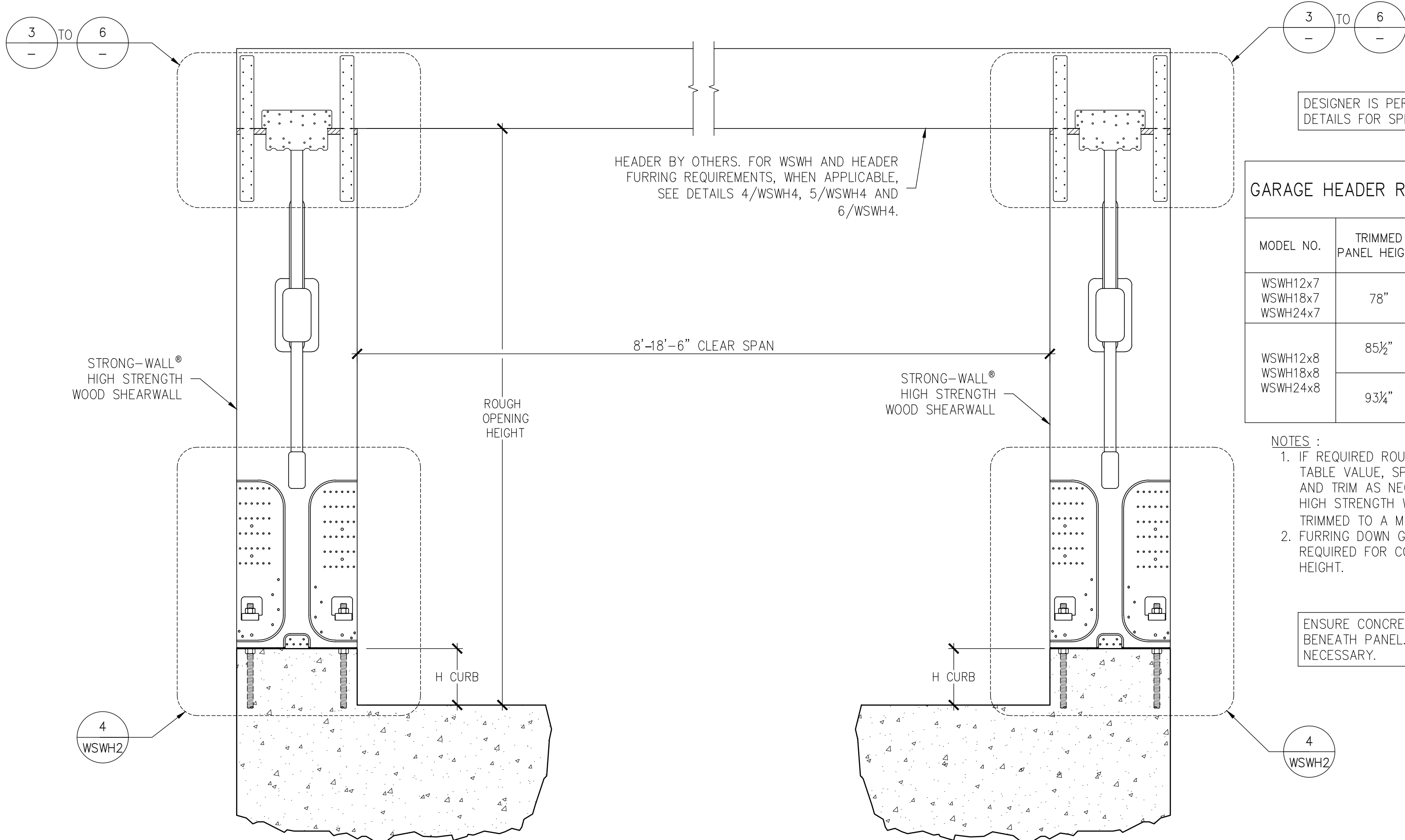


PORTAL TOP CONNECTION



STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL SINGLE PORTAL ASSEMBLY

1



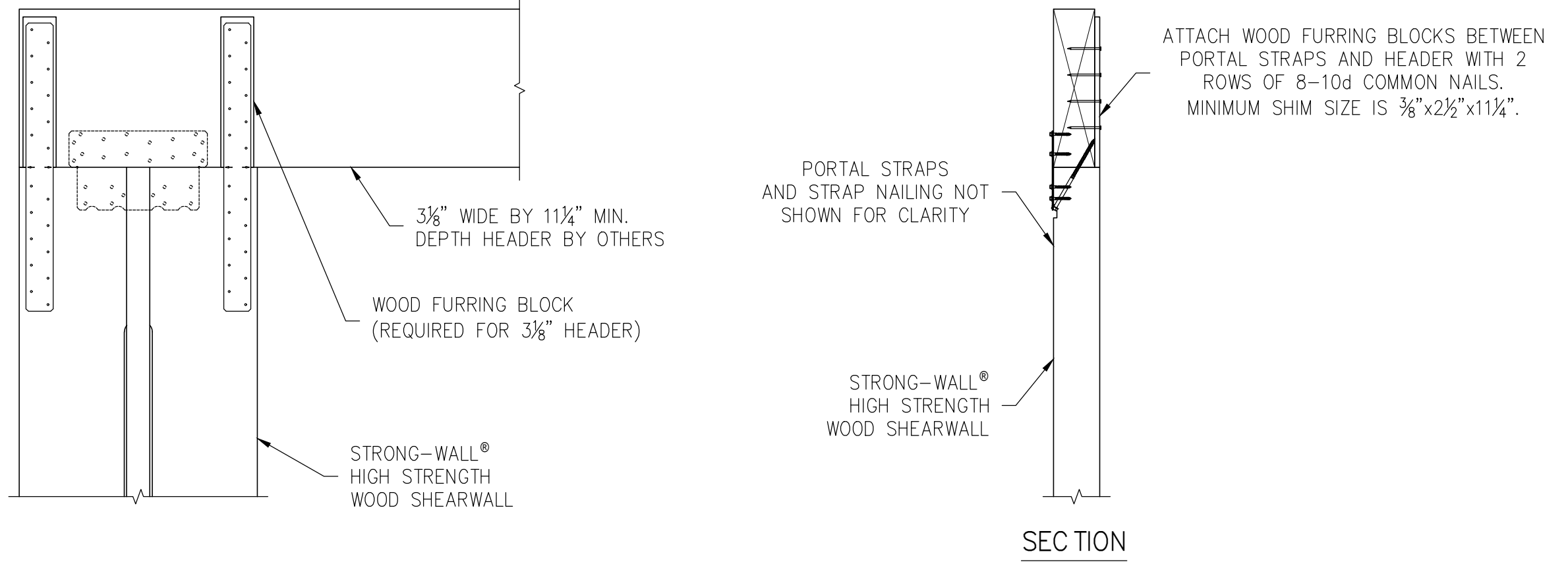
GARAGE HEADER ROUGH OPENING HEIGHT			
MODEL NO.	TRIMMED PANEL HEIGHT	H CURB	ROUGH OPENING HEIGHT
WSWH12x7 WSWH18x7 WSWH24x7	78"	5½"	6'-11½"
		6"	7'-0"
WSWH12x8 WSWH18x8 WSWH24x8	85½"	0"	7'-1½"
		5½"	8'-2¾"
	93¾"	6"	8'-3¼"

- NOTES :
1. IF REQUIRED ROUGH OPENING HEIGHT EXCEEDS TABLE VALUE, SPECIFY NEXT TALLER PANEL AND TRIM AS NECESSARY. THE STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL MAY BE TRIMMED TO A MINIMUM HEIGHT OF 74½".
 2. FURRING DOWN GARAGE HEADER MAY BE REQUIRED FOR CORRECT ROUGH OPENING HEIGHT.

ENSURE CONCRETE IS LEVEL AND SMOOTH BENEATH PANEL. GRIND OR FILL AS NECESSARY.

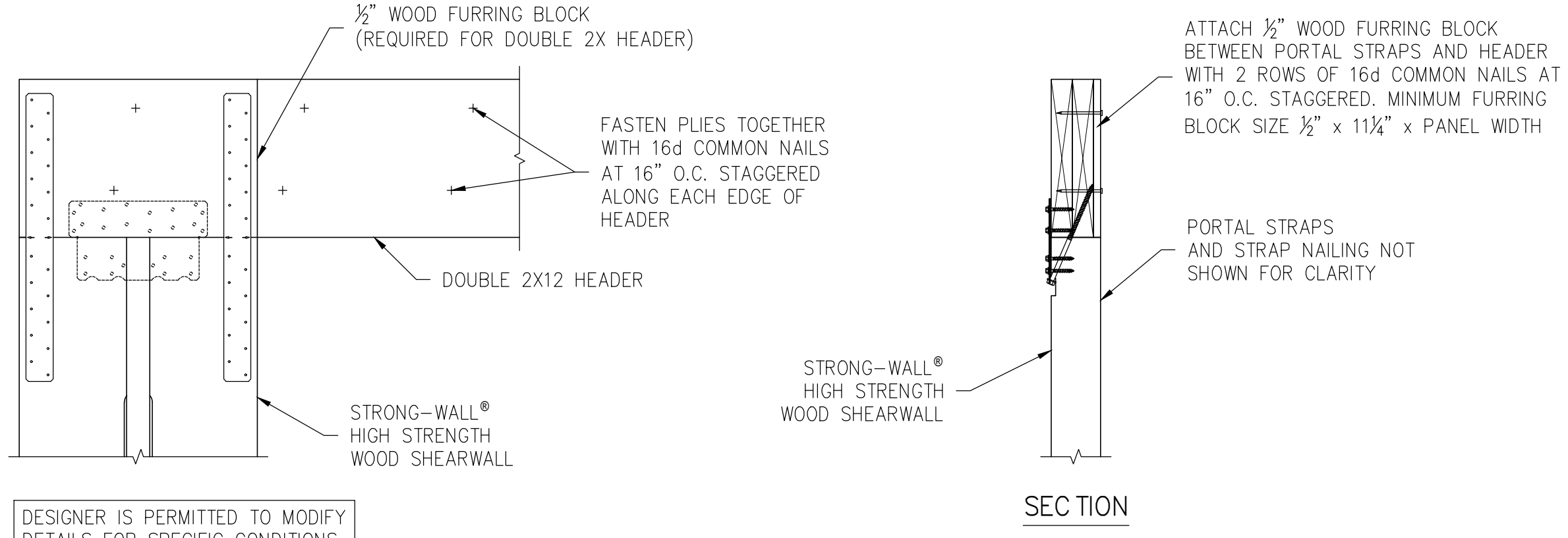
FURRING FOR 5⅛" TO 5½" HEADER

4



FURRING FOR 3⅛" HEADER

5



STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL DOUBLE PORTAL ASSEMBLY

2

FURRING FOR DOUBLE 2X12 HEADERS

6

REVISIONS		FIRST RELEASE - 2018 IBC	
NO.	DATE	11-23-2020	2021 IBC REVISIONS
0		03-16-2021	

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Pleasanton, CA 94588
• Tel: (800) 999-5099
• Website: www.strongtie.com

SIMPSON Strong-Tie

THERE IS NO EQUAL

STRONG-WALL® WSWH

PORTAL SYSTEM

FRAMING DETAILS

ENGINEERED DESIGNS

SIMPSON Strong-Tie

THERE IS NO EQUAL

NAME	
DATE	03-16-2021
SCALE	N.T.S.
CHECKED	
SHEET	
WSWH4	
OF SHEETS	
JOB NO.	

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Residential Building
Calculation Date/Time: 2024-12-18T13:29:24-08:00
Calculation Description: Title 24 Analysis

CF18-PRF-01-E
(Page 1 of 10)

GENERAL INFORMATION

01	Project Name	Residential Building
02	Run Title	Title 24 Analysis
03	Project Location	0551 Ohio St.
04	City	Yuba Units
05	Zip code	92886
06	Standards Version	2022
07	Software Version	EnergyPro 9.3
08	Climate Zone	8
09	Front Orientation (deg/ Cardinal)	135
10	Building Type	Single Family
11	Number of Dwelling Units	1
12	Project Scope	Addition and/or Alteration
13	Number of Bedrooms	4
14	Number of Stories	2
15	Addition Cond. Floor Area (ft²)	0
16	Existing Cond. Floor Area (ft²)	3100
17	Fenestration Average U-factor	0.2
18	Total Cond. Floor Area (ft²)	3100
19	Glasing Percentage (%)	17.55%
20	ADU Bedroom Count	n/a
21	ADU Conditioned Floor Area	n/a
22	Fuel Type	Natural gas
23	No Dwelling Unit	No

COMPLIANCE RESULTS

01	Building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.
03	This building incorporates one or more Special Features shown below

Registration Number: 424-P010319551A-000-000-0000000-0000
Registration Date/Time: 12/18/2024 13:35
HERS Provider: CHEERS
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Report Version: 2022.0.000
Report Generated: 2024-12-18 13:29:40
Schema Version: rev 20220901

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CF18-PRF-01-E
(Page 2 of 10)

ENERGY USE SUMMARY

Energy Use	Standard Design Source Energy (EER1) (kBtu/ft²·yr)	Standard Design TDV Energy (EDR2) (kWh/ft²·yr)	Proposed Design Source Energy (EER1) (kBtu/ft²·yr)	Proposed Design TDV Energy (EDR2) (kWh/ft²·yr)	Compliance Margin (EER1)	Compliance Margin (EDR2)
Space Heating	0	13.04	0	12.05	0	0.99
Space Cooling	0	30.26	0	30.53	0	-0.27
IAQ Ventilation	0	0	0	0	0	0
Water Heating	0	11.7	0	13.84	0	-0.14
Self Utilization/Flexibility Credit			0	0		
Efficiency Compliance Total	0	57	0	56.42	0	0.58
Photovoltaics	0		0			
Battery						
Flexibility						
Indoor Lighting	0	6.09	0	6.09		
Appl. & Cooking	0	16.75	0	16.75		
Plug Loads	0	21.05	0	21.05		
Outdoor Lighting	0	1.59	0	1.59		
TOTAL COMPLIANCE	0	102.48	0	101.9		

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CF18-PRF-01-E
(Page 3 of 10)

ENERGY USE INTENSITY

	Standard Design (kBtu/ft²·yr)	Proposed Design (kBtu/ft²·yr)	Margin (kBtu/ft²·yr)	Margin Percentage
Gross EUI¹	12.85	12.81	0.04	0.31
Net EUI²	12.85	12.81	0.04	0.31

Notes
1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.
2. Net EUI is Energy Use Total (including PV) / Total Building Area.

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- Floor has high level of insulation

HERS FEATURE SUMMARY

The following is a summary of the features that must be field verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the buildings tables below. Registered CF28s and CF38s are required to be completed in the HERS Registry

- Kitchen range hood

BUILDING - FEATURES INFORMATION

01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Residential Building	3100	1	4	2	0	1

ZONE INFORMATION

01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Status
Zone 1	Conditioned	HVAC System1	1662	8	DHW Sys 1	Existing Unchanged
Zone 2	Conditioned	HVAC System1	1438	8	DHW Sys 1	Existing Unchanged

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Registration Date/Time: 12/18/2024 13:35
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CF18-PRF-01-E
(Page 4 of 10)

OPAQUE SURFACES

01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Asimuth	Orientation	Gross Area (ft²)	Window and Door Area (ft²)	TIR (deg)	Wall Exceptions	Status	Verified Existing Condition
Front Wall	Zone 1	R-19 Wall	135	Front	477	196	90	none	Existing	No
Left Wall	Zone 1	R-19 Wall	225	Left	374	50	90	none	Existing	No
Rear Wall	Zone 1	R-19 Wall	315	Back	363	171	90	none	Existing	No
Right Wall	Zone 1	R-19 Wall	45	Right	216	18	90	none	Existing	No
Front Wall 2	Zone 2	R-15 Wall	135	Front	450	58	90	none	Altered	No
Left Wall 2	Zone 2	R-15 Wall	225	Left	240	24	90	none	Existing	No
Rear Wall 2	Zone 2	R-15 Wall	315	Back	476	88	90	none	Altered	No
Right Wall 2	Zone 2	R-15 Wall	45	Right	236	18	90	none	Altered	No
Roof	Zone 1	R-38 Roof Attic	n/a	n/a	1662	n/a	n/a	n/a	Altered	No
Roof 2	Zone 2	R-38 Roof Attic	n/a	n/a	1438	n/a	n/a	n/a	Altered	No
Raised Floor	Zone 2	R-22 Floor No Crawlspace	n/a	n/a	1438	n/a	n/a	n/a	Altered	No

ATTIC

01	02	03	04	05	06	07	08	09	10
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof	Status	Verified Existing Condition
Attic Zone 1	Attic RoofZone 1	Ventilated	0	0.1	0.85	Yes	No	Existing	No
Attic Zone 2	Attic RoofZone 2	Ventilated	4	0.1	0.85	Yes	No	Existing	No

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface	Orientation	Asimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition
Window	Window	Front Wall	Front	135			1	156	0.2	NFRC	0.23	NFRC	Bug Screen	Existing	No

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Schema Version: rev 20220901

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CF18-PRF-01-E
(Page 5 of 10)

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface	Orientation	Asimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition
Window 2	Window	Left Wall	Left	225			1	50	0.2	NFRC	0.23	NFRC	Bug Screen	Existing	No
Window 3	Window	Rear Wall	Back	315			1	152	0.2	NFRC	0.23	NFRC	Bug Screen	Existing	No
Window 4	Window	Right Wall	Right	45			1	18	0.2	NFRC	0.23	NFRC	Bug Screen	Existing	No
Window 5	Window	Front Wall 2	Front	135			1	38	0.2	NFRC	0.23	NFRC	Bug Screen	Altered	No
Window 6	Window	Left Wall 2	Left	225			1	24	0.2	NFRC	0.23	NFRC	Bug Screen	Existing	No
Window 7	Window	Rear Wall 2	Back	315			1	88	0.2	NFRC	0.23	NFRC	Bug Screen	Existing	No
Window 8	Window	Right Wall 2	Right	45			1	18	0.2	NFRC	0.23	NFRC	Bug Screen	Altered	No

OPAQUE DOORS

01	02	03	04	05	06
Name	Side of Building	Area (ft²)	U-factor	Status	Verified Existing Condition
Door	Front Wall	40	0.2	Existing	No
Door 2	Rear Wall	19	0.2	Existing	No

SLAB FLOORS

01	02	03	04	05	06	07	08	09	10
Name	Zone	Area (ft²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted fraction	Heated	Status	Verified Existing Condition
Slab	Zone 1	1662	0.1	none	0	80%	No	Altered	No

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CF18-PRF-01-E
(Page 6 of 10)

OPAQUE SURFACE CONSTRUCTIONS

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-19 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-19	None / None	0.074	Inside Finish: Gypsum Board Cavity / Frame: R-15 in S-1/2 in. (R-18) / 2x6 Exterior Finish: 3 Coat Stucco
R-15 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-15	None / None	0.095	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Exterior Finish: 3 Coat Stucco
Attic RoofZone 1	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None / 0	0.644	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/Sheathing/Decking Cavity / Frame: no insul. / 2x4
Attic RoofZone 2	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None / 0	0.644	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/Sheathing/Decking Cavity / Frame: no insul. / 2x4
R-38 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-38	None / None	0.025	Over Ceiling Joists: R-28.9 Insul. Cavity / Frame: R-8.1 / 2x4 Inside Finish: Gypsum Board
R-22 Floor No Crawlspace	Exterior Floors	Wood Framed Floor	2x8 @ 16 in. O. C.	R-22	None / None	0.044	Floor Surface: Carpeted Floor Deck: Wood Siding/Sheathing/Decking Cavity / Frame: R-22 / 2x8

BUILDING ENVELOPE - HERS VERIFICATION

01	02	03	04	05
Quality Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
Not Required	Not Required	N/A	n/a	n/a

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CF18-PRF-01-E
(Page 7 of 10)

WATER HEATING SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (ft)	Status	Verified Existing Condition	Existing Water Heating System
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (0)	New	NA	

WATER HEATERS

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Name	Heating Element Type	Tank Type	# of Units	Tank Vol. (gal)	Heating Efficiency Type	Efficiency	Rated Input Type	Input Rating or Pilot	Tank Insulation R-value (in/EI)	Standby Loss or Recovery Eff	1st Hr. Rating or Flow Rate	Tank Location	Status	Verified Existing Condition
DHW Heater 1	Gas	Conventional	1	0	UEF	0.81	Btu/Hr	200000	0	n/a	n/a		New	n/a

WATER HEATING - HERS VERIFICATION

01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required

SPACE CONDITIONING SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type	Status	Verified Existing Condition	Existing HVAC System
HVAC System1	Heating and cooling system other	Heating Component 1	1	Cooling Component 1	1	HVAC Fan 1	Air Distribution System 1	n/a	Existing	No	

Registration Number: 424-P010319551A-000-000-0000000-0000
Registration Date/Time: 12/18/2024 13:35
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Residential Building
Calculation Date/Time: 2024-12-18T13:29:24-08:00
Calculation Description: Title 24 Analysis

CF18-PRF-01-E
(Page 8 of 10)

HVAC - HEATING UNIT TYPES

01	02	03	04	05	06	07	08	09
Name	System Type	Number of Units	Efficiency Metric	Efficiency EER/EER2/CEER	Efficiency SEER/SEER2	Zonally Controlled	Multi-speed Compressor	HERS Verification
Heating Component 1	Electric	1				HSFP -		n/a

HVAC - COOLING UNIT TYPES

01	02	03	04	05	06	07	08	09
Name	System Type	Number of Units	Efficiency Metric	Efficiency EER/EER2/CEER	Efficiency SEER/SEER2	Zonally Controlled	Multi-speed Compressor	HERS Verification
Cooling Component 1	Central split AC	1		EER2/SEER2	11.7	14	Not Zonal	Single Speed Cooling Coefficient 1-hers-cool

HVAC - DISTRIBUTION SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Design Type	Duct Insul. R-value	Duct Return Suppl Y	Duct Location	Surface Area	Duct Return Suppl Y	Bypass Duct	Duct Leakage	HERS Verification	Status	Verified Existing Condition	Existing Distribution system	New Ducts >= 25 ft	
Air Distribution System 1	Unconditioned attic	Non-Verified	R-8	R-8	Attic	n/a	Attic	n/a	No Bypass Duct	Existing (not specified)	Air Distribution System 1-hers-dist	Existing	No	n/a	

HVAC - FAN SYSTEMS

01	02	03	04
Name	Type	Fan Power (Watts/CFM)	Name
HVAC Fan 1	HVAC Fan	0.58	HVAC Fan 1-hers-fan

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CF18-PRF-01-E
(Page 9 of 10)

HVAC FAN SYSTEMS - HERS VERIFICATION

01	02	03
Name	Verified Fan Watt Draw	Required Fan Efficiency (Watts/CFM)
HVAC Fan 1-hers-fan	Not Required	0

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CF18-PRF-01-E
(Page 10 of 10)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I, I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Yasser Salem
Signature Date: 12/18/2024
Company: Total Engineering Services, Inc.
Address: 1651 East Fourth Street, Suite 228
City/State/Zip: Santa Ana, CA 92701
Phone: (949) 378-5842

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- I am eligible under Division 1 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
- I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Responsible Designer Name: Yasser Salem
Signature Date: 12/18/2024
Company: Total Engineering Services, Inc.
Address: 1651 East Fourth Street, Suite 22