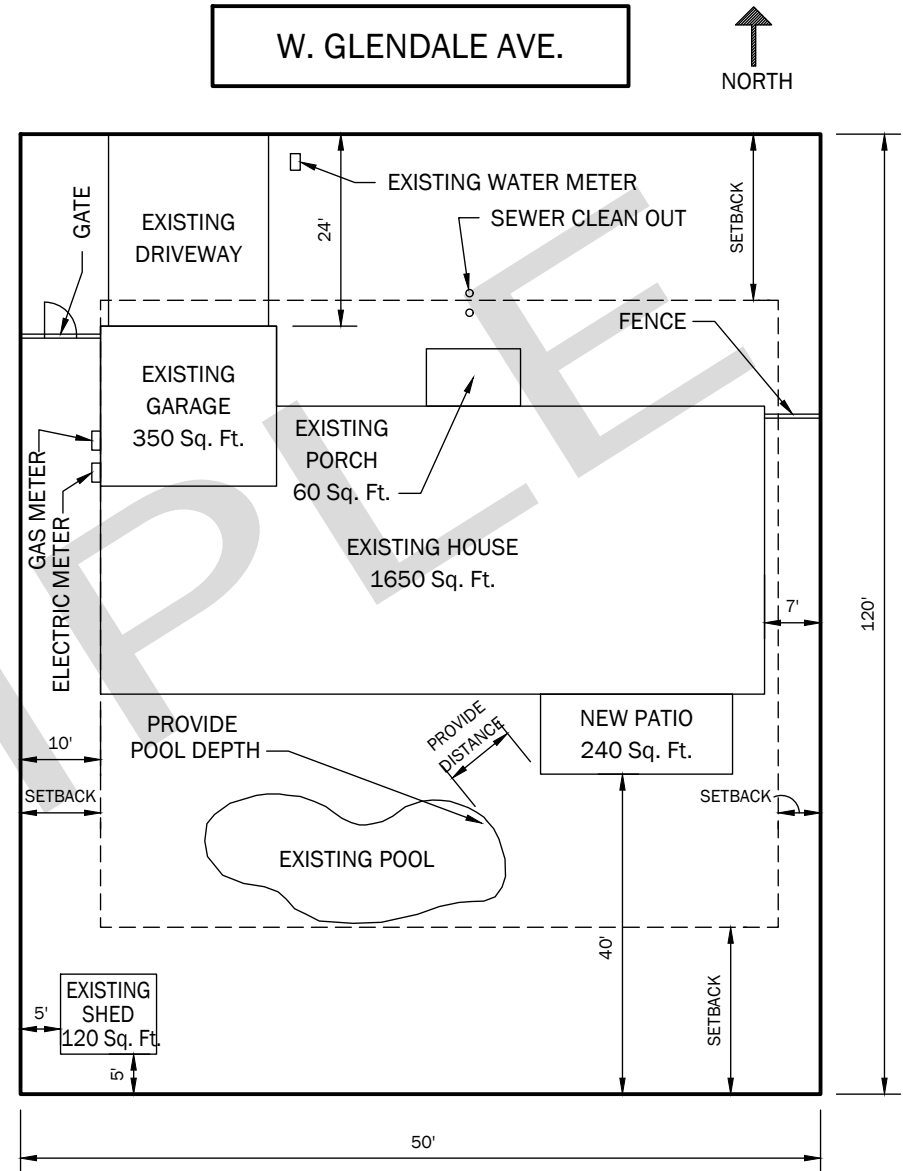


CITY OF GLENDALE ADOPTED CODES (WITH AMENDMENTS):
2018 IBC, 2018 IRC, 2018 IECC, 2018 IPC, 2018 IFGC,
2017 NEC, AND 2018 IFC

PROJECT NAME:	MARLEY RESIDENCE - PATIO ADDITION
PROJECT ADDRESS:	5555 W. GLENDALE AVE.
	GLENDALE, AZ 85301
PARCEL NUMBER:	123-45-678
ZONING DISTRICT:	R1-6

PROPERTY COVERAGE CALCULATIONS (Sq. Ft.)	
EXISTING HOUSE (1ST FLOOR):	1650
EXISTING GARAGE:	350
EXISTING SHED:	120
EXISTING FRONT PORCH:	60
NEW PATIO:	240
TOTAL AREA:	2420
LOT SIZE:	50' x 120' = 6000
TOTAL LOT COVERAGE:	2420/6000 = 0.40 OR 40%

* PROPERTY INFORMATION AVAILABLE ON THE MARICOPA COUNTY ASSESSOR'S OFFICE WEB PAGE



SHEET:
A1
SAMPLE

CITY OF GLENDALE ADOPTED CODES (WITH AMENDMENTS):
2018 IBC, 2018 IRC, 2018 IECC, 2018 IPC, 2018 IFGC,
2017 NEC, AND 2018 IFC

PROJECT NAME:	
PROJECT ADDRESS:	
PARCEL NUMBER:	
ZONING DISTRICT:	

PROPERTY COVERAGE CALCULATIONS (Sq. Ft.)	
EXISTING HOUSE (1ST FLOOR):	
EXISTING GARAGE:	
EXISTING SHED:	
EXISTING FRONT PORCH:	
NEW PATIO:	
TOTAL AREA:	
LOT SIZE:	
TOTAL LOT COVERAGE:	

* PROPERTY INFORMATION AVAILABLE ON THE MARICOPA COUNTY ASSESSOR'S OFFICE WEB PAGE



SEE DETAIL ON SHEET A6

OPTIONAL/NOT REQUIRED:
CEILING SHEATHING SHALL BE
1/2" MIN. GYPSUM BOARD OR T1-11
EXTERIOR SIDING.

IDENTIFY EXISTING CONSTRUCTION:
☐ WOOD FRAMED WALL
☐ MASONRY BLOCK WALL
☐ OTHER: _____

ROOF COVERING:

- ☐ ROLL ROOFING OVER 15# FELT VAPOR BARRIER
☐ ASPHALT SHINGLES OVER 15# FELT VAPOR BARRIER
☐ CLAY/CONCRETE TILES OVER 30# FELT VAPOR BARRIER
☐ OTHER: _____

ROOF FRAMING MEMBERS:

RAFTERS AT O.C.

ROOF BEAM:

POSTS AT O.C.

3-1/2" MIN. CONCRETE SLAB OVER
3" MIN. SAND OR COMPACTED FILL.

SEE DETAIL ON SHEET A5

SLOPE TO DRAIN (PER 2018 IRC, R401.3)

1/2" OSB OR CDX PLYWOOD ROOF SHEATHING.

SLOPE:
12

SEE DETAIL ON SHEET A7

7'-0" MIN. PER 2018 IRC, SECTION R305.1

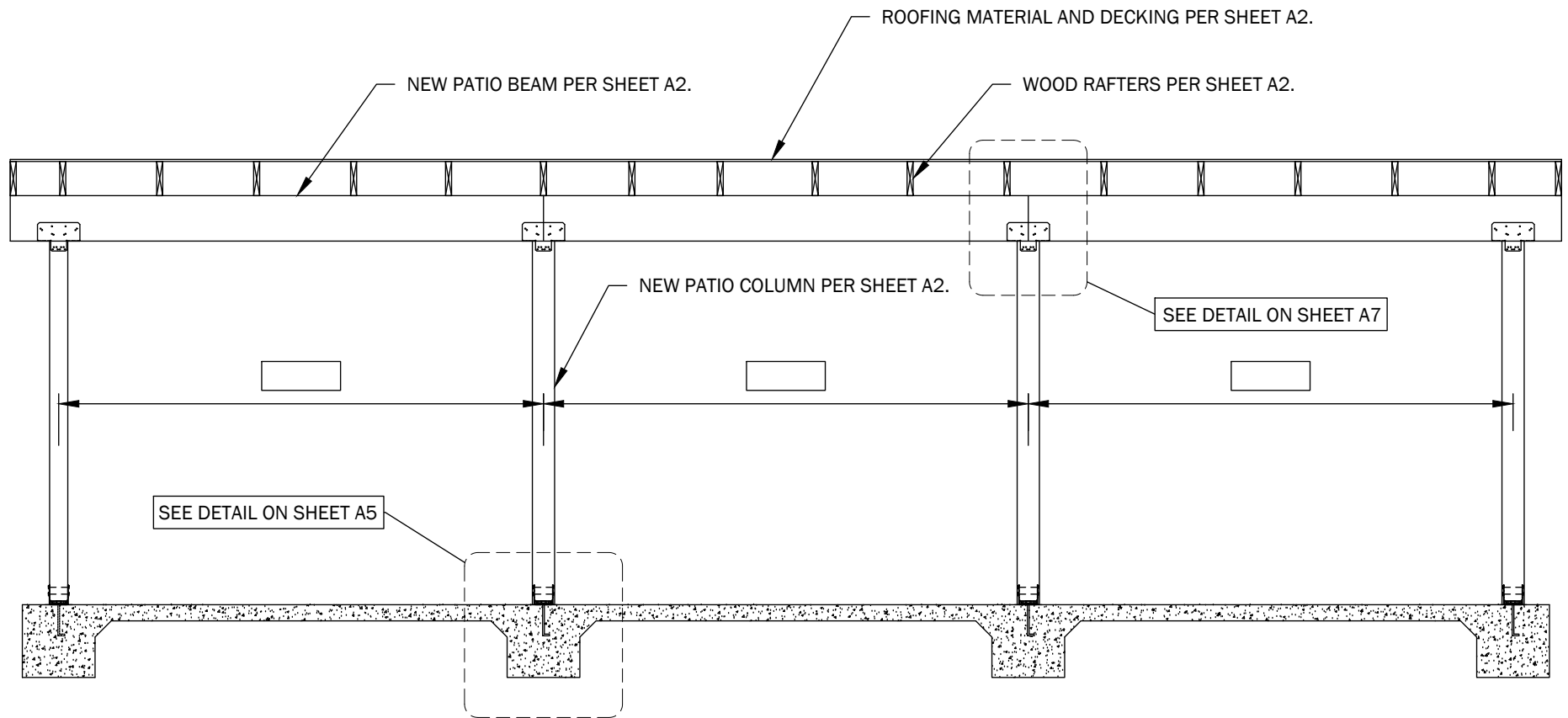


NOTES:

1. PLEASE FILL ALL SPACES DESIGNATED WITH TO DESCRIBE PROPOSED STRUCTURE.
2. SEE SHEET A8 FOR MINIMUM RAFTER/BREAM SIZES AND MINIMUM ROOF SLOPES FOR ROOF COVERINGS.
3. SEE SHEET A3 FOR PATIO ELEVATION AND SHEET A4 FOR ROOF FRAMING PLAN.
4. PLANNING DEPARTMENT NOTE: MATCH EXISTING RESIDENCE COLOR AND MATERIALS.

SHEET:


A2



PATIO ELEVATION

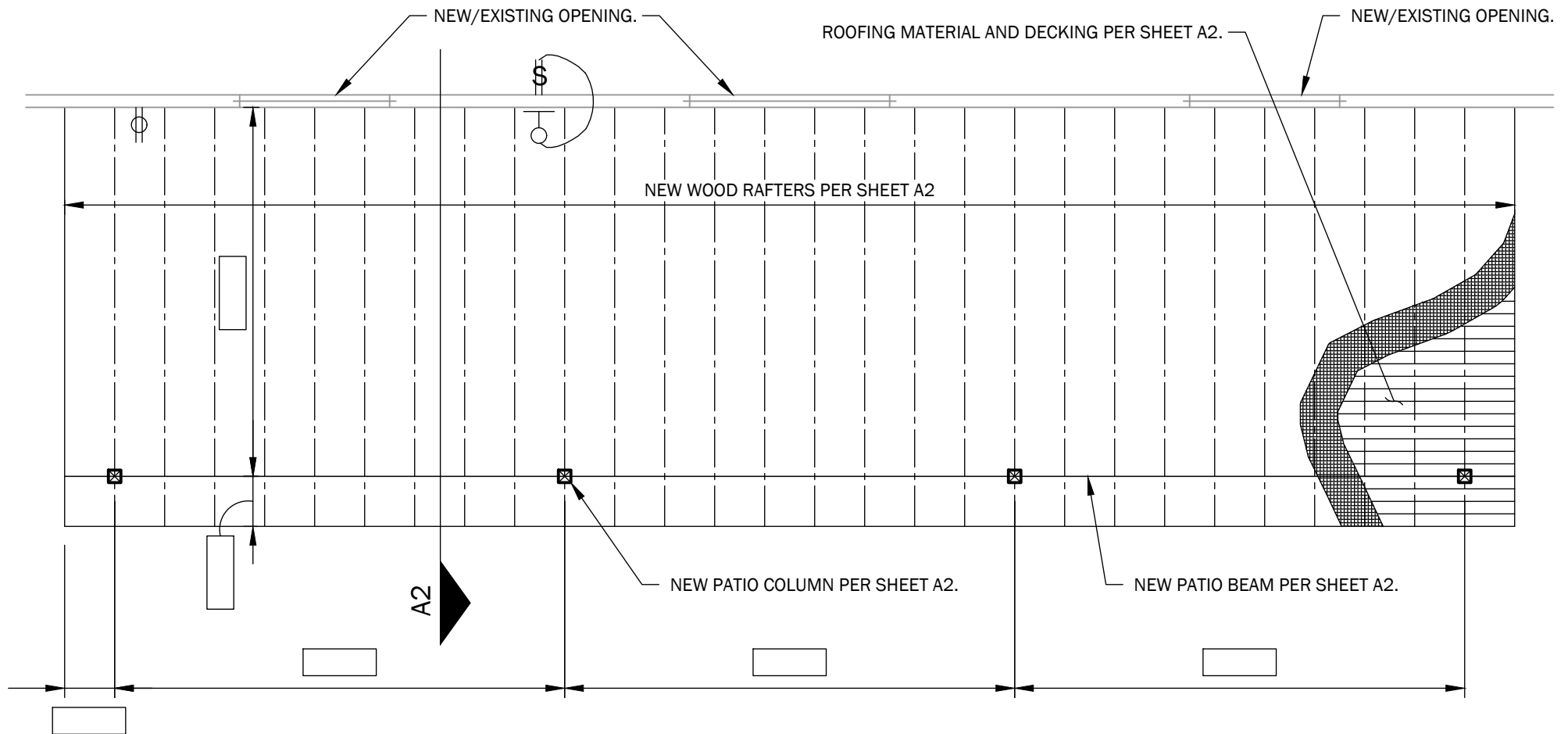


NOTES:

1. PLEASE FILL ALL SPACES DESIGNATED WITH  TO DESCRIBE PROPOSED STRUCTURE.
2. SEE SHEET A2 FOR MORE INFORMATION.
3. PLANNING DEPARTMENT NOTE: MATCH EXISTING RESIDENCE COLOR AND MATERIALS.

SHEET:

A3

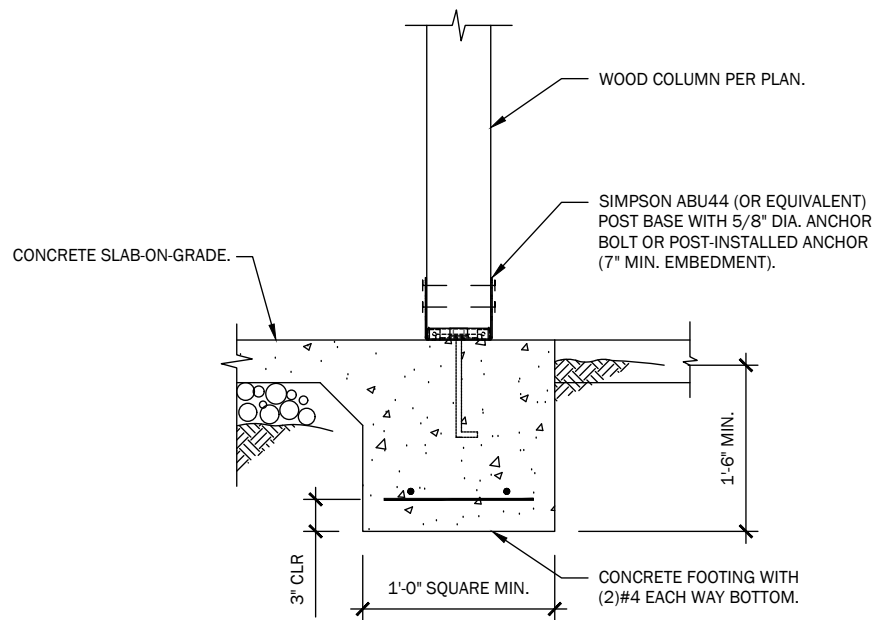


NOTES:

1. PLEASE FILL ALL SPACES DESIGNATED WITH TO DESCRIBE PROPOSED STRUCTURE.
2. PROVIDE SWITCH CONTROLLED LIGHT AT EACH EXTERIOR DOOR TO GRADE PER E3903.3 (NEC 210.70CA).
3. PROVIDE CODE APPROVED OUTLET BOXES FOR CEILING FANS PER NEC 422.18.
4. PROVIDE/IDENTIFY ALL NEW DOOR/WINDOW LOCATIONS AND SPECIFY HEADER SIZE.
5. PROVIDE/IDENTIFY ALL NEW ELECTRICAL OUTLET LOCATIONS.

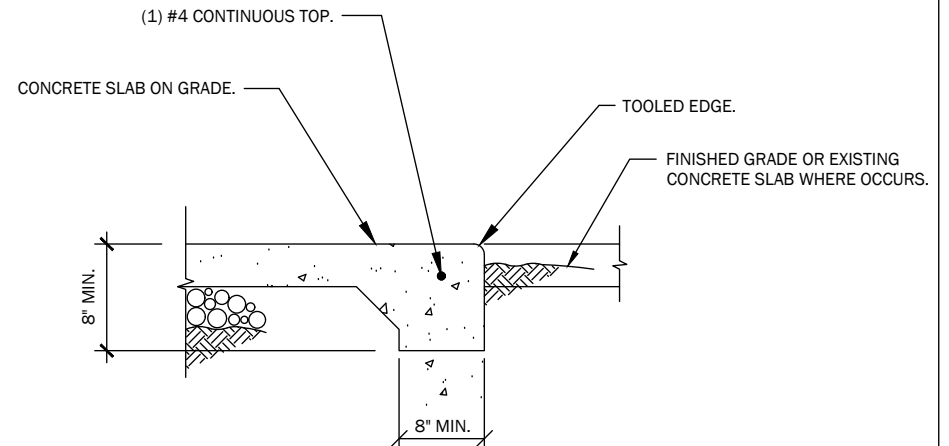
SHEET:

A4



1

WOOD COLUMN AT CONCRETE FOOTING



2

CONCRETE TURNDOWN AT PATIO EDGE

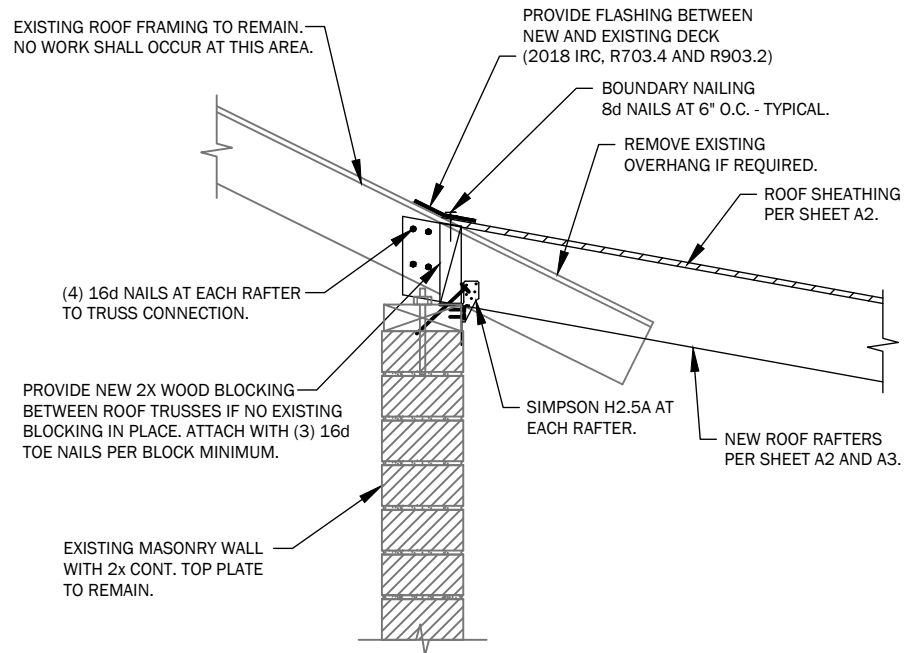


NOTE:

1. REFERENCED METAL CONNECTORS MAY BE REPLACED WITH ANY EQUIVALENT ALTERNATIVE.

SHEET:

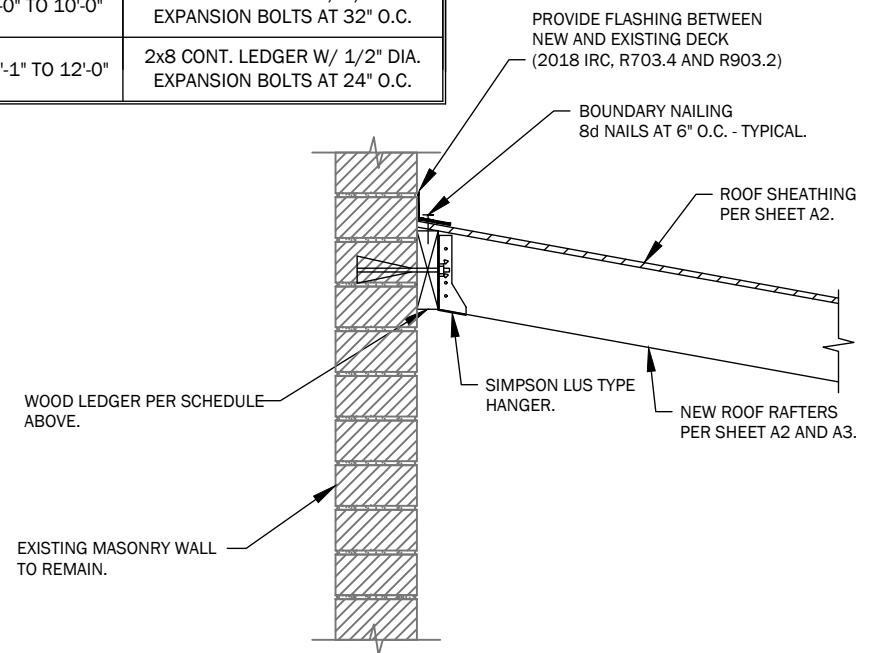
A5



1 WOOD RAFTER AT THE TOP OF EXISTING MASONRY WALL

☐ CONSTRUCTION DETAIL TO BE USED

LEDGER SCHEDULE	
RAFTER SPAN	ROOF LEDGER SIZE AND CONNECTION
0'-0" TO 10'-0"	2x6 CONT. LEDGER W/ 1/2" DIA. EXPANSION BOLTS AT 32" O.C.
10'-1" TO 12'-0"	2x8 CONT. LEDGER W/ 1/2" DIA. EXPANSION BOLTS AT 24" O.C.



2 WOOD RAFTER AT THE SIDE OF EXISTING MASONRY WALL

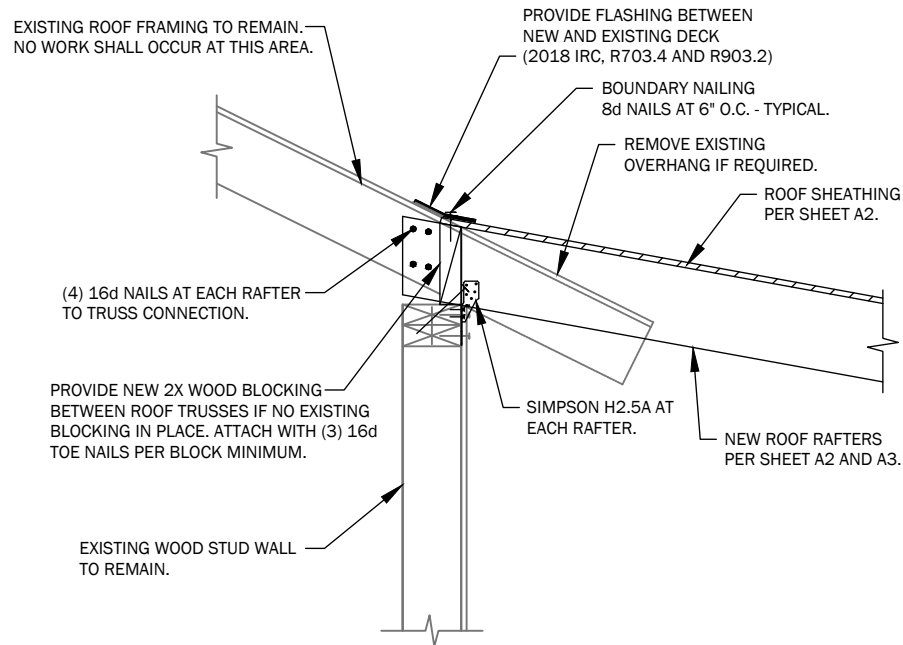
☐ CONSTRUCTION DETAIL TO BE USED



NOTES:

1. PLEASE CHOOSE PREFERRED OPTION FOR NEW PATIO ATTACHMENT TO THE EXISTING STRUCTURE.
2. ALL EXPANSION BOLTS SHALL BE 7" MIN. LONG INSTALLED INTO SOLID GROUTED CELLS FOR MASONRY WALLS.
3. REFERENCED METAL CONNECTORS MAY BE REPLACED WITH ANY EQUIVALENT ALTERNATIVE.

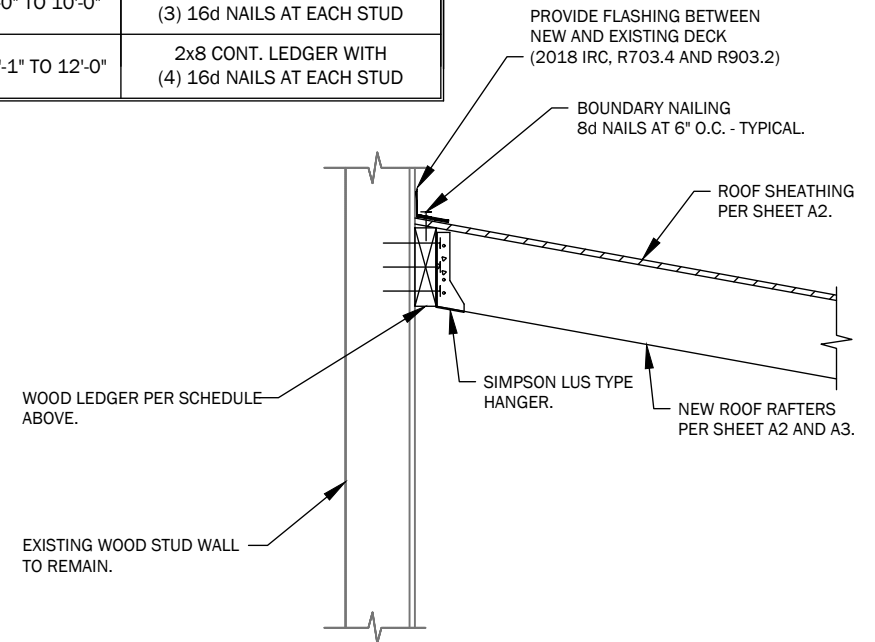
SHEET:
A6
MASONRY WALL



1 WOOD RAFTER AT THE TOP OF EXISTING WOOD STUD WALL

☐ CONSTRUCTION DETAIL TO BE USED

LEDGER SCHEDULE	
RAFTER SPAN	ROOF LEDGER SIZE AND CONNECTION
0'-0" TO 10'-0"	2x6 CONT. LEDGER WITH (3) 16d NAILS AT EACH STUD
10'-1" TO 12'-0"	2x8 CONT. LEDGER WITH (4) 16d NAILS AT EACH STUD



2 WOOD RAFTER AT THE SIDE OF EXISTING WOOD STUD WALL

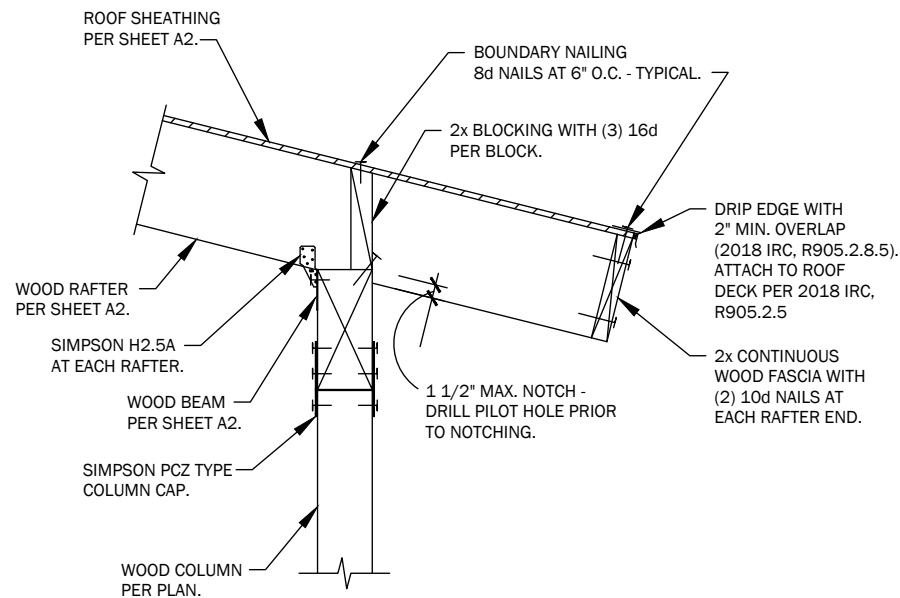
☐ CONSTRUCTION DETAIL TO BE USED



NOTES:

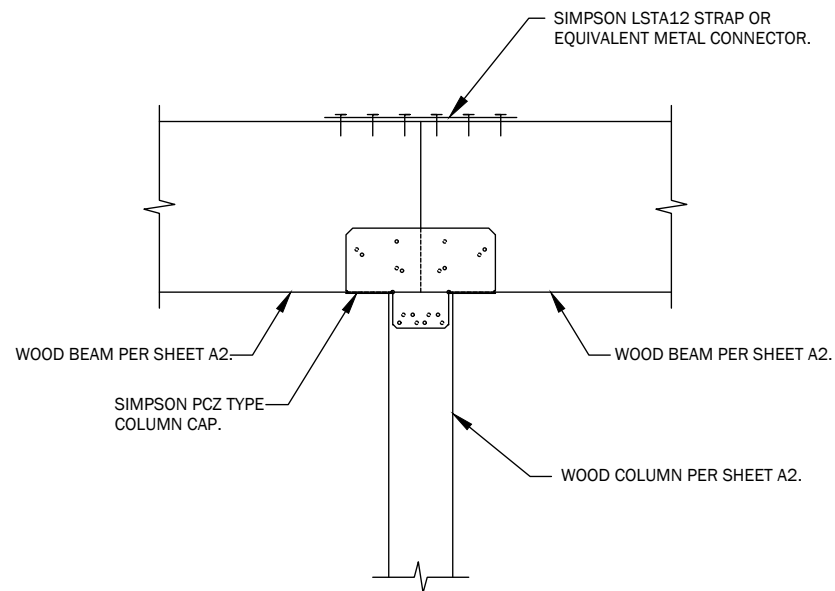
1. PLEASE CHOOSE PREFERRED OPTION FOR NEW PATIO ATTACHMENT TO THE EXISTING STRUCTURE.
2. REFERENCED METAL CONNECTORS MAY BE REPLACED WITH ANY EQUIVALENT ALTERNATIVE.

SHEET:
A6
WOOD STUD WALL



1

WOOD RAFTER AT WOOD BEAM/COLUMN



2

WOOD BEAMS AT WOOD COLUMN



NOTE:

1. REFERENCED METAL CONNECTORS MAY BE REPLACED WITH ANY EQUIVALENT ALTERNATIVE.

SHEET:

A7

RAFTER SCHEDULE				
RAFTER SPAN	RAFTER SPACING (CENTER TO CENTER)			
	12"	16"	19.2"	24"
8'-0"	2x4	2x4	2x4	2x4
9'-0"	2x4	2x6	2x6	2x6
10'-0"	2x6	2x6	2x6	2x6
11'-0"	2x6	2x6	2x6	2x8
12'-0"	2x6	2x6	2x8	2x8

BEAM SCHEDULE					
RAFTER SPAN	POST/COLUMN SPACING (CENTER TO CENTER)				
	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
8'-0"	4x6	4x6	4x8	4x8	4x8
9'-0"	4x6	4x6	4x8	4x8	4x8
10'-0"	4x6	4x6	4x8	4x8	4x10
11'-0"	4x6	4x8	4x8	4x10	4x10
12'-0"	4x8	4x8	4x10	4x10	4x10

ROOF SLOPES FOR ROOF COVERINGS (2018 IRC REFERENCES)			
TYPE OF ROOFING	SLOPE	TYPE OF ROOFING	SLOPE
ASPHALT SHINGLES (R905.2.2)	2:12	BUILT-UP ROOFING (R905.9.1)	0.25:12
CLAY AND CONCRETE TILE (R905.3)	2.5:12	MODIFIED BITUMEN (R905.11)	0.25:12
MINERAL-SURFACE ROLLED ROOFING (R905.5)	1:12	SPRAY POLYURETHANE FOAM (R905.14)	0.25:12
WOOD SHINGLES AND SHAKES (R905.7)	3:12	METAL ROOF SHINGLES (R905.4)	3:12

NOTES:

1. MINIMUM MEMBER SIZES SHOWN IN THESE SCHEDULES ARE FOR ROOF LOADS ONLY (NO WALKING DECK).
2. ALL WOOD MEMBERS SHALL BE GRADE MARKED HEM-FIR GRADE #2 OR BETTER.
3. THE SLOPES ABOVE ARE MINIMUM UNITS HORIZONTAL TO UNITS VERTICAL.
4. ROOF SHEATHING SHALL BE CONTINUOUS OVER 2 OR MORE RAFTERS, FACE GRAIN SHALL BE PERPENDICULAR TO SUPPORTS.
5. FRAMING HARDWARE SHALL BE ICC APPROVED FOR THE INTENDED USE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
6. CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
7. ALL WOOD IN CONTACT WITH CONCRETE/MASONRY SHALL BE PRESERVATIVE TREATED WOOD PER 2018 IRC, R317.1.2.
8. ALL PROJECTIONS (OVERHANGS) GREATER THAN 2'-0" BUT LESS THAN 5'-0" REQUIRE 1-HOUR FIRE PROTECTION ON UNDERSIDE OF ROOF RAFTERS (5/8" TYPE "X" GYPSUM BOARD MINIMUM).

