

**BUILDING CODE COMPLIANCE**

CITY OF MERCER ISLAND ADOPTED CODES:  
 MICC - MERCER ISLAND CITY CODE  
 IRC 2015 - INTERNATIONAL BUILDING CODE  
 IRC 2015 - INTERNATIONAL RESIDENTIAL CODE  
 IMC 2015 - INTERNATIONAL MECHANICAL CODE  
 IFC 2015 - INTERNATIONAL FIRE CODE  
 IECC 2015 - INTERNATIONAL ENERGY CONSERVATION CODE  
 2015 WASHINGTON STATE ENERGY CODE

**BUILDING CODE ANALYSIS**

**PROPOSED USE/OCCUPANCY:**  
 R-15: SINGLE-FAMILY DWELLING PER MICC 19.02.020 / R-3 RESIDENTIAL GROUP PER IBC 310.5  
**PARKING REQUIREMENTS:**  
 RESIDENTIAL - (3) PASSENGER AUTOMOBILE PARKING SPACES, AT LEAST (2) COVERED PER MICC 19.02.020.G.1  
**TYPE OF CONSTRUCTION:**  
 RESIDENTIAL R: TYPE V-B (UNPROTECTED WOOD FRAME) PER IBC TABLE 503  
 PARKING U: TYPE V-B (UNPROTECTED WOOD FRAME) PER IBC TABLE 503  
**FIRE RESISTANCE FOR BUILDING ELEMENTS:**  
 TYPE V-B: UNPROTECTED WOOD FRAME  
 EXTERIOR WALLS: 0 HR. (PER IBC TABLE 601) 0-1 HR.  
 PER IBC TABLE 602 FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE  
 BEARING & NON-BEARING WALL CONSTRUCTION: 0 HR. (PER IBC TABLE 601)  
**EXISTING BUILDING SPRINKLER REQUIREMENTS:**  
 PER MICC 17.02.020  
 AN APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT THE RESIDENCE WHEN THE CONSTRUCTION VALUE OF ALL ADDITIONS, ALTERATIONS OR REPAIRS PERFORMED WITHIN A SIXTY-MONTH PERIOD EXCEEDS 50% OF THE VALUE OF THE RESIDENCE.

**BUILDING SETBACKS:**

MICC 19.02.020.C.1

FRONT YARD (19.02.020.C.1.A):  
 MINIMUM 20 FEET

REAR YARD (19.02.020.C.1.B):  
 MINIMUM 25 FEET

SIDE YARD (19.02.020.C.1.C):  
 FOR LOTS WITH A WIDTH OF MORE THAN 90 FEET, THE SUM OF THE SIDE YARDS' DEPTH SHALL BE A WIDTH THAT IS EQUAL TO AT LEAST 17% OF THE LOT WIDTH.

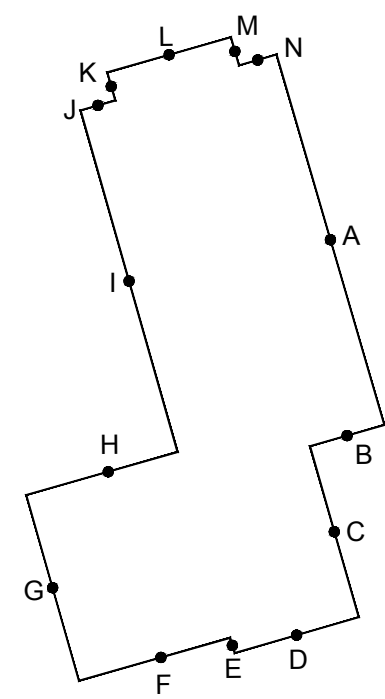
128'-9 1/4" X 0.17 = 21'-10 3/4"

MINIMUM SIDE YARD DEPTH ABUTTING AN INTERIOR LOT LINE IS 5 FEET OR 33% OF THE AGGREGATE SIDE YARD TOTAL DEPTH, WHICHEVER IS GREATER.

MINIMUM SIDE YARD REQUIRED  
 21'-10 3/4" X .33 = 7'-2 3/4"

VARIABLE SIDE YARD REQUIRED  
 21'-10 3/4" - 7'-2 3/4" = 14'-8"

**AVERAGE BUILDING ELEVATION CALCULATIONS:**



AVERAGE BUILDING ELEVATION IS CALCULATED USING THE MIDPOINT, MEASURED HORIZONTALLY, OF EXTERIOR WALLS OF THE STRUCTURE.

MIDPOINT ELEVATION	SEGMENT LENGTH	
A 203.83'	X 60.28'	= 12,286.87
B 207.00'	X 12.08'	= 2,500.56
C 209.00'	X 27.79'	= 5,808.11
D 214.00'	X 20.19'	= 4,320.66
E 214.00'	X 2.48'	= 530.72
F 214.00'	X 24.58'	= 5,260.12
G 214.00'	X 30.17'	= 6,456.38
H 214.00'	X 24.58'	= 5,260.12
I 210.00'	X 55.49'	= 11,652.90
J 203.50'	X 5.64'	= 1,147.74
K 203.50'	X 4.58'	= 932.03
L 203.50'	X 20.08'	= 4,086.28
M 203.50'	X 4.58'	= 932.03
N 203.50'	X 6.12'	= 1,245.42

(TOTAL LENGTH X AVG. ELEV.) ÷ TOTAL LENGTH: 62,419.94 ÷ 298.64'

AVG BUILDING ELEVATION: 209.01'

**HEIGHT LIMITS**

MICC 19.02.202.E BUILDING HEIGHT LIMIT  
 THE MAXIMUM BUILDING HEIGHT SHALL NOT EXCEED THIRTY FEET (30') IN HEIGHT ABOVE AVERAGE BUILDING ELEVATION TO THE HIGHEST POINT OF THE ROOF.

MAXIMUM ALLOWABLE BUILDING HEIGHT:  
 ELEV = 239.01'

**ZONING ANALYSIS**

**LOT SLOPE CALCULATION:**

PER MERCER ISLAND CITY CODE SECTION 19.16.010, LOT SLOPE IS THE ELEVATION DIFFERENCE DIVIDED BY HORIZONTAL DISTANCE MULTIPLIED BY 100.

HIGHEST ELEVATION = 240'  
 LOWEST ELEVATION = 190'  
 ELEVATION DIFFERENCE = 50'  
 HORIZONTAL DIFFERENCE BETWEEN HIGHEST AND LOWEST POINTS = 112'

LOT SLOPE = (50 / 112) X 100 = 45%

**LOT COVERAGE CALCULATION:**

PER MERCER ISLAND CITY CODE SECTION 19.02.020.F MAXIMUM LOT COVERAGE (HOUSE, DRIVING SURFACES & ACCESSORY BUILDINGS) IS 30% OF LOT AREA FOR A LOT WITH A SLOPE 30% TO 50%.

A. GROSS LOT AREA (PER KING COUNTY TAX ASSESSOR) = 44,220 SQ.FT.  
 B. NET LOT AREA (LESS ACCESS EASEMENT) = 43,143 SQ.FT.  
 C. ALLOWED LOT COVERAGE AREA = 12,943 SQ.FT.  
 D. ALLOWED LOT COVERAGE = 30%

E. EXISTING LOT COVERAGE:  
 1. MAIN STRUCTURE ROOF AREA = 3,370 SQ.FT.  
 2. ACCESSORY BUILDING ROOF AREA = 1,397 SQ.FT.  
 3. VEHICULAR USE = 6,445 SQ.FT.  
 4. COVERED PATIOS/COVERED DECKS = 0 SQ.FT.  
 5. TOTAL EXISTING LOT COVERAGE: 11,063 SQ.FT.

F. (TOTAL LOT COVERAGE AREA REMOVED) = 0 SQ.FT.  
 G. PROPOSED ADJUSTMENT FOR SINGLE-STORY = 0 SQ.FT.  
 H. PROPOSED ADJUSTMENT FOR FLAG LOT = 0 SQ.FT.

I. PROPOSED NEW LOT COVERAGE:  
 1. MAIN STRUCTURE NEW ROOF AREA = 1,026 SQ.FT.  
 2. ACCESSORY BUILDING NEW ROOF AREA = 0 SQ.FT.  
 3. NEW VEHICULAR USE AREA = -536 SQ.FT.  
 4. NEW COVERED PATIOS/COVERED DECKS = 0 SQ.FT.  
 5. TOTAL NEW PROPOSED LOT COVERAGE: 490 SQ.FT.

J. TOTAL PROJECT LOT COVERAGE AREA = 12,363 SQ.FT.  
 K. PROPOSED LOT COVERAGE AREA = 29%

**ZONING ANALYSIS (CONT'D)**

**HARDSCAPE CALCULATION:**

PER MERCER ISLAND CITY CODE SECTION 19.02.020.F.3.b.i UP TO 9% OF THE NET LOT AREA MAY CONSIST OF HARDSCAPE AREAS. THE HARDSCAPE DOES NOT INCLUDE DRIVING SURFACES OR BUILDINGS.

IN ADDITION, UNUSED LOT COVERAGE MAY ALSO BE IMPROVED WITH HARDSCAPE.

A. GROSS LOT AREA (PER KING COUNTY TAX ASSESSOR) = 44,220 SQ.FT.  
 B. NET LOT AREA (LESS ACCESS EASEMENT) = 43,143 SQ.FT.  
 C. AREA BORROWED FROM LOT COVERAGE = 1,036 SQ.FT.  
 D. ALLOWED HARDSCAPE AREA = 11%  
 9% OF LOT AREA + C = 4,919 SQ.FT.  
 E. ALLOWED HARDSCAPE AREA = 1,471 SQ.FT.  
 F. TOTAL EXISTING HARDSCAPE AREA:  
 1. UNCOVERED DECKS = 0 SQ.FT.  
 2. UNCOVERED PATIOS = 241 SQ.FT.  
 3. WALKWAYS = 47 SQ.FT.  
 4. STAIRS = 170 SQ.FT.  
 5. ROCKERIES & RETAINING WALLS = 0 SQ.FT.  
 6. OTHER = 0 SQ.FT.  
 7. TOTAL EXISTING HARDSCAPE AREA (F1+F2+F3+F4+F5+F6) = 1,929 SQ.FT.

G. (TOTAL HARDSCAPE AREA REMOVED) = 0 SQ.FT.  
 H. TOTAL NEW HARDSCAPE AREA:  
 1. UNCOVERED DECKS = 0 SQ.FT.  
 2. UNCOVERED PATIOS = 0 SQ.FT.  
 3. WALKWAYS = 0 SQ.FT.  
 4. STAIRS = 0 SQ.FT.  
 5. ROCKERIES & RETAINING WALLS = 0 SQ.FT.  
 6. OTHER = 0 SQ.FT.  
 7. TOTAL NEW HARDSCAPE AREA (F1+F2+F3+F4+F5+F6) = 0 SQ.FT.  
 I. TOTAL PROJECT HARDSCAPE AREA = (F7-G)+H7 = 4%  
 J. TOTAL PROJECT HARDSCAPE AREA = (I/D)X100 =

**GROSS FLOOR AREA CALCULATIONS:**

PER MERCER ISLAND CITY CODE SECTION 19.02.020.D

BUILDING AREA	EXISTING AREA	REMOVED AREA	NEW/ ADDITION	TOTAL
UPPER FLOOR	1294 S.F.	0 S.F.	669 S.F.	1963 S.F.
MAIN FLOOR	2446 S.F.	0 S.F.	0 S.F.	2446 S.F.
GROSS BASEMENT	2562 S.F.	92 S.F.	0 S.F.	2470 S.F.
GARAGE/CARPORT	0 S.F.	0 S.F.	742 S.F.	742 S.F.
TOTAL FLOOR AREA	6302 S.F.	92 S.F.	1411 S.F.	7621 S.F.
ACCESSORY BUILDINGS	1031 S.F.	0 S.F.	0 S.F.	1031 S.F.
150% GFA MODIFIER (MAIN & UPPER FLOOR X2)	0 S.F.	0 S.F.	320 S.F.	320 S.F.
2ND STORY ROOFED DECK	0 S.F.	0 S.F.	166 S.F.	166 S.F.
TOTAL BUILDING AREA	7333 S.F.	92 S.F.	1897 S.F.	9132 S.F.

A. LOT AREA (NET) = 43,143 S.F.  
 B. ZONE = R-15  
 C. ALLOWED GROSS FLOOR AREA = 12,000 S.F.  
 D. ALLOWED GROSS FLOOR AREA = 45%  
 E. PROPOSED GROSS FLOOR AREA = 9132 S.F.  
 F. PROPOSED GROSS FLOOR AREA = 21%

**PROJECT INFORMATION**

OWNER:  
 MAYA & PIERRE NADER

PROJECT ADDRESS:  
 5472 WEST MERCER WAY  
 MERCER ISLAND, WA 98040

LAND USE ZONE:  
 R-15

ASSESSOR'S PARCEL NUMBER:  
 294890-0051

**LEGAL DESCRIPTION:**

GROVELAND PARK ADD POR OF VAC BLKS 4 & 5 & OF VAC BIXBY ST DAF BEG ON N LN OF S 150 FT OF SD BLK 5 S 88-46-43 W 136.01 FT FR E LN OF SE 1/4 OF SEC 24-24-04 TH CONT S 88-46-43 W ALG SD N LN 382.15 FT TH N 16-55-38 E 103.6 FT TH N 13-12-16 E 10 FT TAP ON CURVE RAD PT OF WHICH BEARS N 13-12-16 E 168 FT TH ELY ALG LFT CURVE 26.66 FT TH NELY ALG LFT CURVE RAD 49 FT DIST OF 72.72 FT TH S 80-55-29 E 10 FT TH S 74-01-23 E 137.23 FT TH S 88-46-43 E 160.43 FT TAP ON CURVE RAD PT OF WHICH BEARS S 80-24-52 W 32 FT TH SWLY ALG RGT CURVE 42.11 FT TH S 65-49-15 W 11.87 FT TH S 01-13-17 W 72 FT TO BEG PLAT BLOCK: 4 & PLAT LOT: VAC

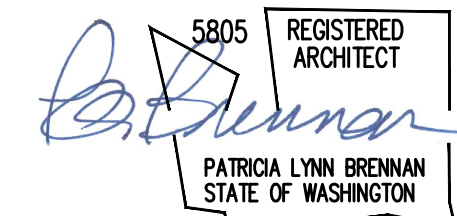
CONTRACTOR:  
 PETER DAVIS BUILDERS LLC  
 CONTACT: PETER DAVIS  
 720 SOUTHEAST 24TH ST, SUITE #1  
 MERCER ISLAND, WA 98040  
 P: (206) 391-5045  
 F: (206) 391-8809

**VICINITY PLAN**



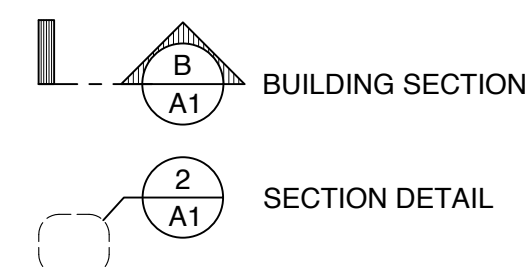
**SHEET INDEX**

SITE 1	SITE PLAN, PROJECT INFORMATION, ZONING NOTES,
SITE 2	VICINITY PLAN
UTILITY	UTILITY SITE PLAN
SURVEY	SURVEY
D0	BASEMENT DEMOLITION PLAN
D1	LEVEL ONE DEMOLITION PLAN
D2	LEVEL TWO DEMOLITION PLAN
A1	BASEMENT PLAN
A2	FIRST FLOOR PLAN
A3	SECOND FLOOR PLAN
A4	ROOF PLAN
A5	DOOR SCHEDULE
A6	NORTH & WEST ELEVATIONS
A7	SOUTH & EAST ELEVATIONS
A8	WINDOW SCHEDULE
A9	SECTIONS A & B
A10	SECTIONS C & D
A11	DETAILS
A12	WINDOW INSTALLATION DETAILS
S1.0 - S4.0	STRUCTURAL PLANS & DETAILS



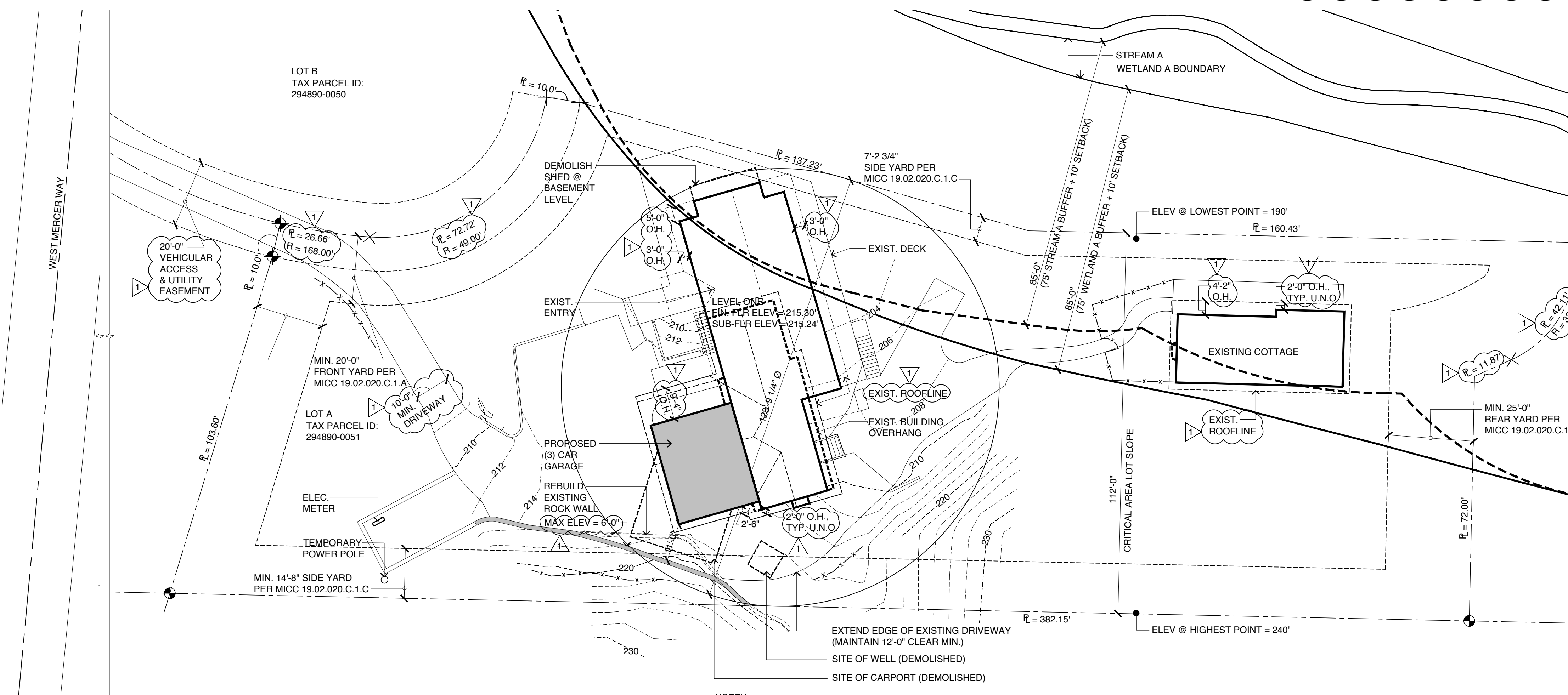
Patricia Brennan  
 ARCHITECTS  
 224  
 Pontius  
 Avenue  
 North  
 Suite 117  
 Seattle  
 Washington  
 98109  
 Phone  
 206.328.2886  
 Fax  
 206.328.2981

**KEY**



\*ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE

CORRECTION #1  
 Date: 07/27/2020  
 Date: 02/27/2020



SITE PLAN

1" = 20'-0"

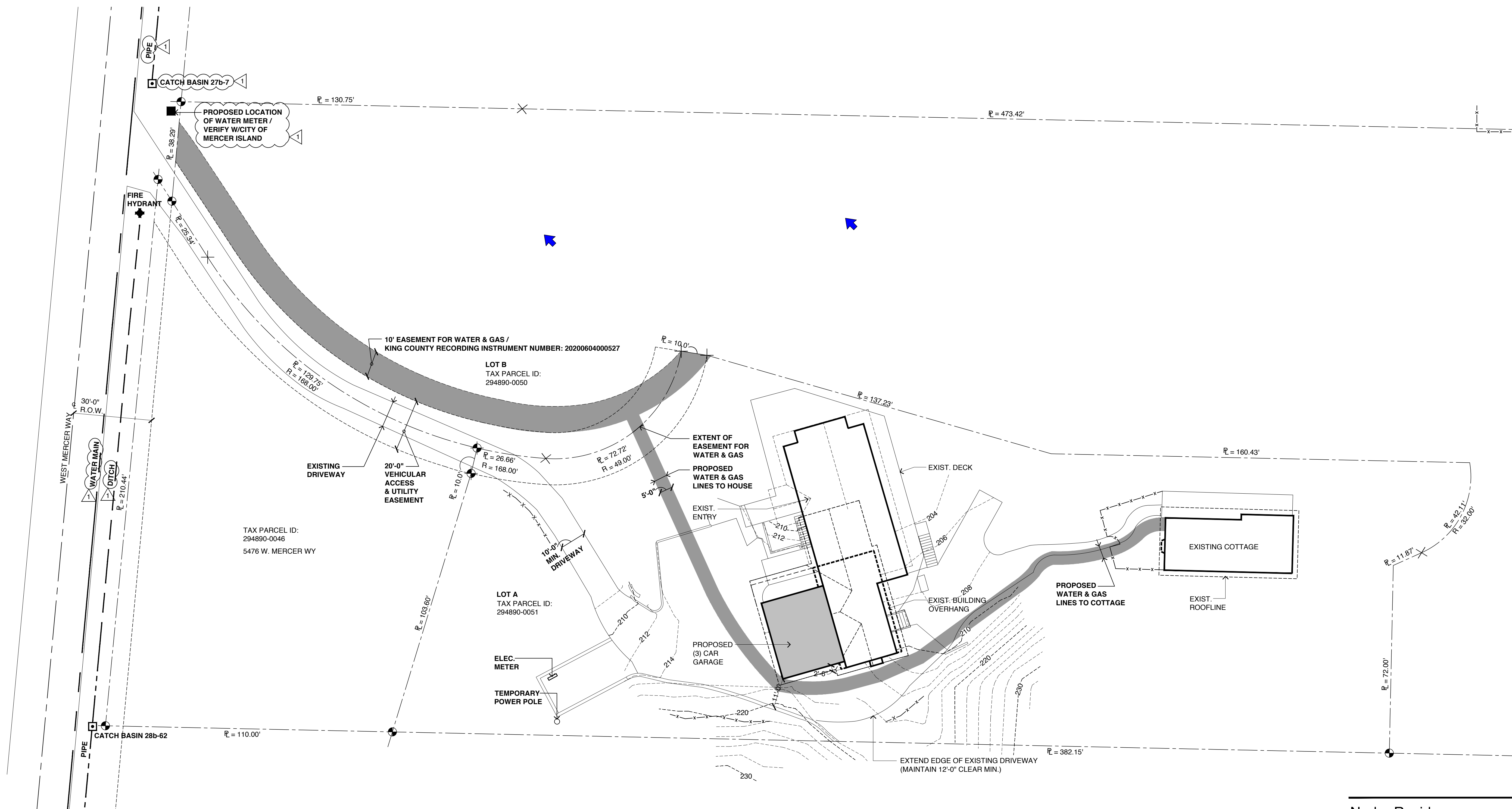


Nader Residence

SITE

1

5472 West Mercer Way  
 Mercer Island, WA 98040



**SITE UTILITY PLAN**

1" = 20'-0"  
 NORTH

5805 REGISTERED ARCHITECT  
 PATRICIA LYNN BRENNAN  
 STATE OF WASHINGTON

Patricia Brennan  
 ARCHITECTS

224  
 Pontius  
 Avenue  
 North  
 Suite 117  
 Seattle  
 Washington  
 98109  
 Phone  
 206.328.2886  
 Fax  
 206.328.2981

CORRECTION #1  
 Date: 07/27/2020  
 Date: 02/27/2020

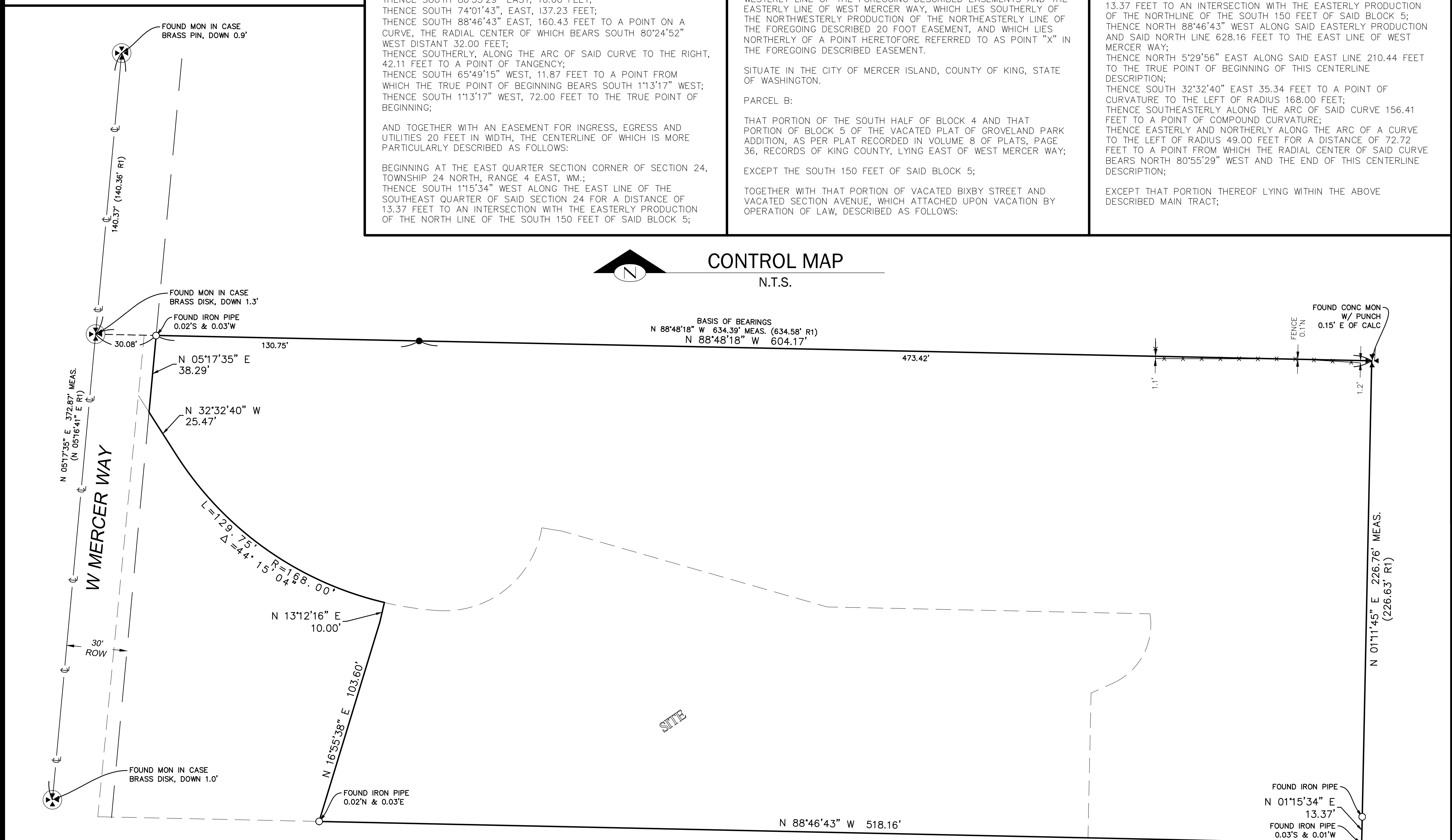
**Nader Residence**

5472 West Mercer Way  
 Mercer Island, WA 98040

**SITE  
 2**

# TOPOGRAPHIC & BOUNDARY SURVEY

SURVEYOR'S NOTES	LEGAL DESCRIPTION	LEGAL DESCRIPTION	LEGAL DESCRIPTION	LEGAL DESCRIPTION
<p>1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN JUNE OF 2019. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS.</p> <p>2. ALL MONUMENTS SHOWN HEREON WERE LOCATED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.</p> <p>3. THE TYPES AND LOCATIONS OF ANY UTILITIES SHOWN ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED TO US, BY OTHERS OR GENERAL INFORMATION READILY AVAILABLE IN THE PUBLIC DOMAIN INCLUDING, AS APPLICABLE, IDENTIFYING MARKINGS PLACED BY UTILITY LOCATE SERVICES AND OBSERVED BY TERRANE IN THE FIELD. AS SUCH, THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE RELIED ON FOR DESIGN OR CONSTRUCTION PURPOSES; TERRANE IS NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR COMPLETENESS OF THIS UTILITY INFORMATION. FOR THE ACCURATE LOCATION AND TYPE OF UTILITIES NECESSARY FOR DESIGN AND CONSTRUCTION, PLEASE CONTACT THE SITE OWNER AND THE LOCAL UTILITY LOCATE SERVICE (800-424-5555).</p> <p>4. SUBJECT PROPERTY TAX PARCEL NO. 294890-0050 &amp; 294890-0051.</p> <p>5. TOTAL SUBJECT PROPERTY AREA PER THIS SURVEY IS 130,377 ±S.F. (2.99 ACRES) FOR PARCEL# 294890-0050, AREA=85,704 ±S.F. (1.97 ACRES) FOR PARCEL# 294890-0051, AREA=44,673 ±S.F. (1.02 ACRES)</p> <p>6. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.</p> <p>7. FIELD DATA FOR THIS SURVEY WAS OBTAINED BY DIRECT FIELD MEASUREMENTS WITH A CALIBRATED ELECTRONIC 5-SECOND TOTAL STATION AND/OR SURVEY GRADE GPS OBSERVATIONS. ALL ANGULAR AND LINEAR RELATIONSHIPS ARE ACCURATE AND MEET THE STANDARDS SET BY WAC 332-130-090.</p>	<p>(PER STATUTORY WARRANTY DEED RECORDING# 20060403002415) PARCEL A</p> <p>THAT PORTION OF THE SOUTH HALF OF BLOCK 4 AND THAT PORTION OF BLOCK 5 OF THE VACATED PLAT OF GROVELAND PARK ADDITION, AS PER PLAT RECORDED IN VOLUME 8 OF PLATS, PAGE 36, RECORDS OF KING COUNTY, LYING EAST OF WEST MERCER WAY;</p> <p>EXCEPT THE SOUTH 150 FEET OF SAID BLOCK 5;</p> <p>TOGETHER WITH THAT PORTION OF VACATED BIXBY STREET AND VACATED SECTION AVENUE, WHICH ATTACHED UPON VACATION BY OPERATION OF LAW;</p> <p>ALSO EXCEPT THAT PORTION OF BLOCKS 4 AND 5, DESCRIBED AS FOLLOWS:</p> <p>BEGINNING AT THE EAST QUARTER SECTION CORNER OF SECTION 24, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M.; THENCE SOUTH 11°5'34" WEST, ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 24, A DISTANCE OF 13.37 FEET TO AN INTERSECTION WITH THE EASTERLY PRODUCTION OF THE NORTH LINE OF THE SOUTH 150.00 FEET OF SAID BLOCK 5; THENCE NORTH 88°46'43" WEST, ALONG SAID EASTERLY PRODUCTION AND SAID NORTH LINE, 136.01 FEET TO THE TRUE POINT OF BEGINNING;</p> <p>THENCE CONTINUING NORTH 88°46'43" WEST ALONG THE NORTH LINE OF THE SOUTH 150 FEET OF SAID BLOCK 5 TO THE EAST LINE OF WEST MERCER WAY;</p> <p>THENCE NORTH 5°29'56" EAST ALONG SAID EAST LINE 210.44 FEET.; THENCE SOUTH 32°32'40" EAST 35.34 FEET TO A POINT OF CURVATURE TO THE LEFT OF RADIUS 168.00 FEET; THENCE SOUTHEASTERLY ALONG THE ARC &amp; SAID CURVE 156.41 FEET TO A POINT OF COMPOUND CURVATURE;</p> <p>THENCE EASTERLY AND NORTHERLY ALONG THE ARC OF A CURVE TO THE LEFT OF RADIUS 49.00 FEET FOR A DISTANCE OF 72.72 FEET TO A POINT FROM WHICH THE RADIAL CENTER OF SAID CURVE BEARS NORTH 80°55'29" WEST AND THE END OF THIS CENTERLINE DESCRIPTION;</p> <p>EXCEPT THAT PORTION THEREOF LYING WITHIN THE ABOVE DESCRIBED MAIN TRACT;</p> <p>ALSO TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES OVER, ACROSS AND UNDER THE FOLLOWING DESCRIBED TRACT:</p> <p>BEGINNING AT THE TRUE POINT OF BEGINNING OF THE CENTERLINE OF THE FOREGOING DESCRIBED 20 FOOT EASEMENT;</p> <p>THENCE SOUTH 5°29'56" WEST 16.23 FEET TO AN INTERSECTION WITH THE SOUTHWESTERLY MARGIN OF SAID EASEMENT, SAID INTERSECTION BEING THE TRUE POINT OF BEGINNING;</p> <p>THENCE SOUTH 32°32'40" EAST ALONG SAID EASEMENT MARGIN 22.56 FEET TO A POINT ON A CURVE, THE RADIAL CENTER OF WHICH BEARS SOUTH 57°27'20" WEST DISTANT 7.78 FEET THEREFROM;</p> <p>THENCE WESTERLY ALONG THE ARC OF SAID CURVE TO THE LEFT 19.28 FEET TO A POINT HEREAFTER TO BE REFERRED TO AS POINT "X";</p> <p>THENCE NORTH 5°29'56" EAST TO THE TRUE POINT OF BEGINNING;</p> <p>AND TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES OVER, ACROSS AND UNDER THAT PORTION OF SAID SOUTH HALF OF VACATED BLOCK 4, WHICH MAY LIE BETWEEN THE WESTERLY LINE OF THE FOREGOING DESCRIBED EASEMENTS AND THE EASTERLY LINE OF WEST MERCER WAY, WHICH LIES SOUTHERLY OF THE NORTHWESTERLY PRODUCTION OF THE NORTHEASTERLY LINE OF THE FOREGOING DESCRIBED 20 FOOT EASEMENT, AND WHICH LIES NORTHERLY OF A POINT HERETOFORE REFERRED TO AS POINT "X" IN THE FOREGOING DESCRIBED EASEMENT.</p> <p>SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.</p> <p>PARCEL B:</p> <p>THAT PORTION OF THE SOUTH HALF OF BLOCK 4 AND THAT PORTION OF BLOCK 5 OF THE VACATED PLAT OF GROVELAND PARK ADDITION, AS PER PLAT RECORDED IN VOLUME 8 OF PLATS, PAGE 36, RECORDS OF KING COUNTY, LYING EAST OF WEST MERCER WAY;</p> <p>EXCEPT THE SOUTH 150 FEET OF SAID BLOCK 5;</p> <p>TOGETHER WITH THAT PORTION OF VACATED BIXBY STREET AND VACATED SECTION AVENUE, WHICH ATTACHED UPON VACATION BY OPERATION OF LAW, DESCRIBED AS FOLLOWS:</p> <p>BEGINNING AT THE EAST QUARTER SECTION CORNER OF SECTION 24, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M.; THENCE SOUTH 11°5'34" WEST ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 24 FOR A DISTANCE OF 13.37 FEET TO AN INTERSECTION WITH THE EASTERLY PRODUCTION OF THE NORTH LINE OF THE SOUTH 150 FEET OF SAID BLOCK 5;</p>	<p>THENCE NORTH 88°46'43" WEST ALONG SAID EASTERLY PRODUCTION AND SAID NORTH LINE 628.16 FEET TO THE EAST LINE OF WEST MERCER WAY;</p> <p>THENCE NORTH 5°29'56" EAST ALONG SAID EAST LINE 210.44 FEET TO THE TRUE POINT OF BEGINNING OF THIS CENTERLINE DESCRIPTION;</p> <p>THENCE SOUTH 32°32'40" EAST 35.34 FEET TO A POINT OF CURVATURE TO THE LEFT OF RADIUS 168.00 FEET;</p> <p>THENCE SOUTHEASTERLY ALONG THE ARC &amp; SAID CURVE 156.41 FEET TO A POINT OF COMPOUND CURVATURE;</p> <p>THENCE EASTERLY AND NORTHERLY ALONG THE ARC OF A CURVE TO THE LEFT OF RADIUS 49.00 FEET FOR A DISTANCE OF 72.72 FEET TO A POINT FROM WHICH THE RADIAL CENTER OF SAID CURVE BEARS NORTH 80°55'29" WEST AND THE END OF THIS CENTERLINE DESCRIPTION;</p> <p>EXCEPT THAT PORTION THEREOF LYING WITHIN THE ABOVE DESCRIBED MAIN TRACT;</p> <p>ALSO TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES OVER, ACROSS AND UNDER THE FOLLOWING DESCRIBED TRACT:</p> <p>BEGINNING AT THE TRUE POINT OF BEGINNING OF THE CENTERLINE OF THE FOREGOING DESCRIBED 20 FOOT EASEMENT;</p> <p>THENCE SOUTH 5°29'56" WEST 16.23 FEET TO AN INTERSECTION WITH THE SOUTHWESTERLY MARGIN OF SAID EASEMENT, SAID INTERSECTION BEING THE TRUE POINT OF BEGINNING;</p> <p>THENCE SOUTH 32°32'40" EAST ALONG SAID EASEMENT MARGIN 22.56 FEET TO A POINT ON A CURVE, THE RADIAL CENTER OF WHICH BEARS SOUTH 57°27'20" WEST DISTANT 7.78 FEET THEREFROM;</p> <p>THENCE WESTERLY ALONG THE ARC OF SAID CURVE TO THE LEFT 19.28 FEET TO A POINT HEREAFTER TO BE REFERRED TO AS POINT "X";</p> <p>THENCE NORTH 5°29'56" EAST TO THE TRUE POINT OF BEGINNING;</p> <p>AND TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES OVER, ACROSS AND UNDER THAT PORTION OF SAID SOUTH HALF OF VACATED BLOCK 4, WHICH MAY LIE BETWEEN THE WESTERLY LINE OF THE FOREGOING DESCRIBED EASEMENTS AND THE EASTERLY LINE OF WEST MERCER WAY, WHICH LIES SOUTHERLY OF THE NORTHWESTERLY PRODUCTION OF THE NORTHEASTERLY LINE OF THE FOREGOING DESCRIBED 20 FOOT EASEMENT, AND WHICH LIES NORTHERLY OF A POINT HERETOFORE REFERRED TO AS POINT "X" IN THE FOREGOING DESCRIBED EASEMENT.</p> <p>SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.</p> <p>PARCEL B:</p> <p>THAT PORTION OF THE SOUTH HALF OF BLOCK 4 AND THAT PORTION OF BLOCK 5 OF THE VACATED PLAT OF GROVELAND PARK ADDITION, AS PER PLAT RECORDED IN VOLUME 8 OF PLATS, PAGE 36, RECORDS OF KING COUNTY, LYING EAST OF WEST MERCER WAY;</p> <p>EXCEPT THE SOUTH 150 FEET OF SAID BLOCK 5;</p> <p>TOGETHER WITH THAT PORTION OF VACATED BIXBY STREET AND VACATED SECTION AVENUE, WHICH ATTACHED UPON VACATION BY OPERATION OF LAW, DESCRIBED AS FOLLOWS:</p> <p>BEGINNING AT THE EAST QUARTER SECTION CORNER OF SECTION 24, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M.; THENCE SOUTH 11°5'34" WEST ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 24 FOR A DISTANCE OF 13.37 FEET TO AN INTERSECTION WITH THE EASTERLY PRODUCTION OF THE NORTH LINE OF THE SOUTH 150 FEET OF SAID BLOCK 5;</p>	<p>BEGINNING AT THE EAST QUARTER SECTION OF SECTION 24, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M.; THENCE SOUTH 11°5'34" WEST, ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 24, A DISTANCE OF 13.37 FEET TO AN INTERSECTION WITH THE EASTERLY PRODUCTION OF THE NORTH LINE OF THE SOUTH 150.00 FEET OF SAID BLOCK 5; THENCE NORTH 88°46'43" WEST, ALONG SAID EASTERLY PRODUCTION AND SAID NORTH LINE, 136.01 FEET TO THE TRUE POINT OF BEGINNING;</p> <p>THENCE CONTINUING NORTH 88°46'43" WEST, 382.15 FEET; THENCE NORTH 16°55'38" EAST, 103.60 FEET; THENCE NORTH 13°12'16" EAST, 10.00 FEET TO A POINT ON A CURVE, THE RADIAL CENTER OF WHICH BEARS NORTH 13°12'16" EAST DISTANT 168.00 FEET;</p> <p>THENCE EASTERLY, ALONG THE ARC OF SAID CURVE TO THE LEFT, 26.66 FEET TO A POINT OF COMPOUND CURVATURE;</p> <p>THENCE EASTERLY AND NORTHERLY, ALONG THE ARC OF A CURVE TO THE LEFT OF RADIUS, 49.00 FEET FOR A DISTANCE OF 72.72 FEET TO A POINT FROM WHICH THE RADIAL CENTER OF SAID CURVE BEARS NORTH 80°55'29" WEST;</p> <p>THENCE SOUTH 80°55'29" EAST, 10.00 FEET; THENCE SOUTH 74°01'43" EAST, 137.23 FEET; THENCE SOUTH 88°46'43" EAST, 160.43 FEET TO A POINT ON A CURVE, THE RADIAL CENTER OF WHICH BEARS SOUTH 80°24'52" WEST DISTANT 32.00 FEET;</p> <p>THENCE SOUTHERLY, ALONG THE ARC OF SAID CURVE TO THE RIGHT, 42.11 FEET TO A POINT OF TANGENCY;</p> <p>THENCE SOUTH 65°49'15" WEST, 11.87 FEET TO A POINT FROM WHICH THE TRUE POINT OF BEGINNING BEARS SOUTH 11°3'17" WEST; THENCE SOUTH 11°3'17" WEST, 72.00 FEET TO THE TRUE POINT OF BEGINNING;</p> <p>TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES 20 FEET IN WIDTH, THE CENTERLINE OF WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:</p> <p>BEGINNING AT THE EAST QUARTER SECTION CORNER OF SECTION 24, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M.; THENCE SOUTH 11°5'34" WEST ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 24 FOR A DISTANCE OF 13.37 FEET TO AN INTERSECTION WITH THE EASTERLY PRODUCTION OF THE NORTH LINE OF THE SOUTH 150 FEET OF SAID BLOCK 5; THENCE NORTH 88°46'43" WEST ALONG SAID EASTERLY PRODUCTION AND SAID NORTH LINE 628.16 FEET TO THE EAST LINE OF WEST MERCER WAY;</p> <p>THENCE NORTH 5°29'56" EAST ALONG SAID EAST LINE 210.44 FEET TO THE TRUE POINT OF BEGINNING OF THIS CENTERLINE DESCRIPTION;</p> <p>THENCE SOUTH 32°32'40" EAST 35.34 FEET TO A POINT OF CURVATURE TO THE LEFT OF RADIUS 168.00 FEET;</p> <p>THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE 156.41 FEET TO A POINT OF COMPOUND CURVATURE;</p> <p>THENCE EASTERLY AND NORTHERLY ALONG THE ARC OF A CURVE TO THE LEFT OF RADIUS 49.00 FEET FOR A DISTANCE OF 72.72 FEET TO A POINT FROM WHICH THE RADIAL CENTER OF SAID CURVE BEARS NORTH 80°55'29" WEST AND THE END OF THIS CENTERLINE DESCRIPTION;</p> <p>EXCEPT THAT PORTION THEREOF LYING WITHIN THE ABOVE DESCRIBED MAIN TRACT;</p>	<p>ALSO TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES OVER, ACROSS AND UNDER THE FOLLOWING DESCRIBED TRACT:</p> <p>BEGINNING AT THE TRUE POINT OF BEGINNING OF THE CENTERLINE OF THE FOREGOING DESCRIBED 20 FOOT EASEMENT;</p> <p>THENCE SOUTH 5°29'56" WEST 16.23 FEET TO AN INTERSECTION WITH THE SOUTHWESTERLY MARGIN OF SAID EASEMENT; SAID INTERSECTION BEING THE TRUE POINT OF BEGINNING;</p> <p>THENCE SOUTH 32°32'40" EAST ALONG SAID EASEMENT MARGIN 22.56 FEET TO A POINT ON A CURVE, THE RADIAL CENTER OF WHICH BEARS SOUTH 57°27'20" WEST DISTANT 7.78 FEET THEREFROM;</p> <p>THENCE WESTERLY ALONG THE ARC OF SAID CURVE TO THE LEFT 19.28 FEET TO A POINT HEREAFTER TO BE REFERRED TO AS POINT "X";</p> <p>THENCE NORTH 5°29'56" EAST TO THE TRUE POINT OF BEGINNING;</p> <p>AND TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES OVER, ACROSS AND UNDER THAT PORTION OF SAID SOUTH HALF OF VACATED BLOCK 4, WHICH MAY LIE BETWEEN THE WESTERLY LINE OF THE FOREGOING DESCRIBED EASEMENTS AND THE EASTERLY LINE OF WEST MERCER WAY, WHICH LIES SOUTHERLY OF THE NORTHWESTERLY PRODUCTION OF THE NORTHEASTERLY LINE OF THE FOREGOING DESCRIBED 20 FOOT EASEMENT, AND WHICH LIES NORTHERLY OF A POINT HERETOFORE REFERRED TO AS POINT "X" IN THE FOREGOING DESCRIBED EASEMENT.</p> <p>SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.</p>
<b>BASIS OF BEARINGS</b>				
A BEARING OF N 88°48'18" W BETWEEN FOUND MONUMENTS ON THE SOUTH LINE OF WESTSIDE GROVE.				
<b>REFERENCES</b>				
R1. WESTSIDE GROVE, VOL. 97, PGS. 101-102, RECORDS OF KING COUNTY, WASHINGTON.				
<b>VERTICAL DATUM</b>				
NAVD88 PER CITY OF MERCER ISLAND BENCHMARK 3142 FOUND "1" BRASS PLUG IN CONC. (DN 1.3") PC W.MERCER WAY & BROOK BAY RD. ELEVATION ON PLUG = 155.728'				



**measure success**

**TOPOGRAPHIC & BOUNDARY SURVEY**  
 SW 1/4 OF NE 1/4 SEC 24, TWP. 24N., RGE 04E., W.M.  
 PARCEL NO. 2948900050 & 2948900051

**NADER RESIDENCE**  
 5472 W MERCER WAY  
 MERCER ISLAND, WA 98040

**MAILLER ENGINEERING**  
 67129 1/2

**Terrane**

10801 Main Street, Suite 102, Bellevue, WA 98004  
 phone 425.458.4488 support@terrane.net  
 www.terrane.net

JOB NUMBER: 160748  
 DATE: 7/3/19  
 DRAFTED BY: IDV-GKD  
 CHECKED BY: JGM  
 SCALE: N.T.S.

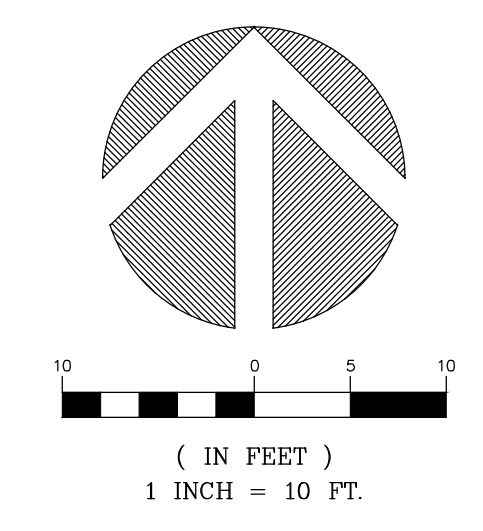
REVISION HISTORY	

SHEET NUMBER  
 1 OF 2

# TOPOGRAPHIC & BOUNDARY SURVEY

## LEGEND

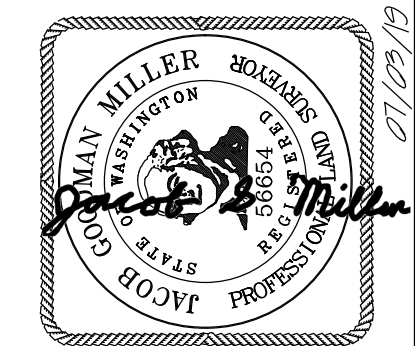
- DECK
- AREA DRAIN
- ASPHALT SURFACE
- BRICK SURFACE
- BOLLARD
- BUILDING
- CENTERLINE ROW
- CONCRETE SURFACE
- RETAINING WALL
- MONUMENT IN CASE (FOUND)
- MONUMENT (SURFACE, FOUND)
- IRON PIPE AS NOTED (FOUND)
- FENCE LINE (CHAIN LINK)
- FENCE LINE (WOOD)
- GAS METER
- INLET (TYPE 1)
- NAIL AS NOTED
- POST
- HOSE BIB RISER
- STORM DRAIN LINE
- TREE (AS NOTED)
- WATER METER
- YARD LIGHT



**STEEL SLOPE/BUFFER DISCLAIMER:**  
 THE LOCATION AND EXTENT OF STEEP SLOPES SHOWN ON THIS DRAWING ARE FOR INFORMATIONAL PURPOSES ONLY AND CANNOT BE RELIED ON FOR DESIGN AND/OR CONSTRUCTION. THE PITCH, LOCATION, AND EXTENT ARE BASED SOLELY ON OUR GENERAL OBSERVATIONS ON SITE AND OUR CURSORY REVIEW OF READILY AVAILABLE PUBLIC DOCUMENTS. AS SUCH, TERRANE CANNOT BE LIABLE OR RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY STEEP SLOPE INFORMATION. ULTIMATELY, THE LIMITS AND EXTENT OF ANY STEEP SLOPES ASSOCIATED WITH ANY SETBACKS OR OTHER DESIGN OR CONSTRUCTION PARAMETERS MUST BE DISCUSSED AND APPROVED BY THE REVIEWING AGENCY BEFORE ANY CONSTRUCTION CAN OCCUR.

**TOPOGRAPHIC & BOUNDARY SURVEY**  
 SW 1/4 OF NE 1/4 SEC 24, TWP. 24N., RGE 04E., W.M.  
 PARCEL NO. 2948900050 & 2948900051

**NADER RESIDENCE**  
 5472 W MERCER WAY  
 MERCER ISLAND, WA 98040



**Terrane**  
 10801 Main Street, Suite 102, Bellevue, WA 98004  
 phone 425.458.4488 support@terrane.net  
[www.terrane.net](http://www.terrane.net)

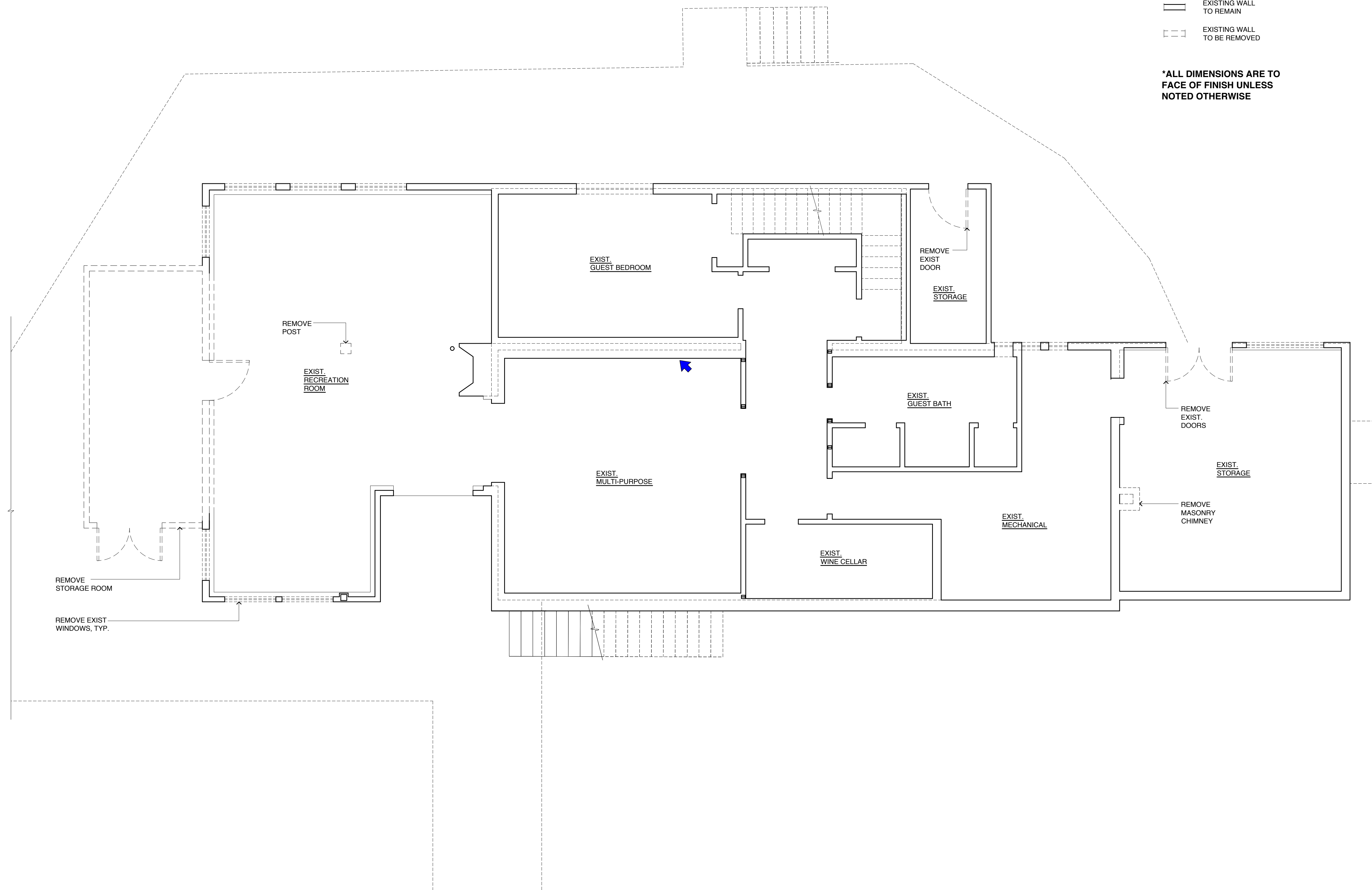
JOB NUMBER:	160748
DATE:	7/3/19
DRAFTED BY:	IDV-GKD
CHECKED BY:	JGM
SCALE:	1"= 10'
<b>REVISION HISTORY</b>	
<b>SHEET NUMBER</b>	
2 OF 2	

**measure success**

**WALL LEGEND**

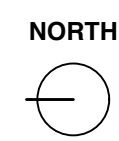
- EXISTING WALL TO REMAIN
- - - EXISTING WALL TO BE REMOVED

**\*ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE**



**BASEMENT DEMOLITION PLAN**

1/4" = 1'-0"



5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
PATRICIA LYNN BRENNAN  
STATE OF WASHINGTON

*Patricia Brennan*  
ARCHITECTS

224  
Pontius  
Avenue  
North  
Suite 117  
Seattle  
Washington  
98109  
Phone  
206.328.2886  
Fax  
206.328.2981



△ CORRECTION #1  
Date: 07/27/2020  
Date: 02/27/2020

Nader Residence

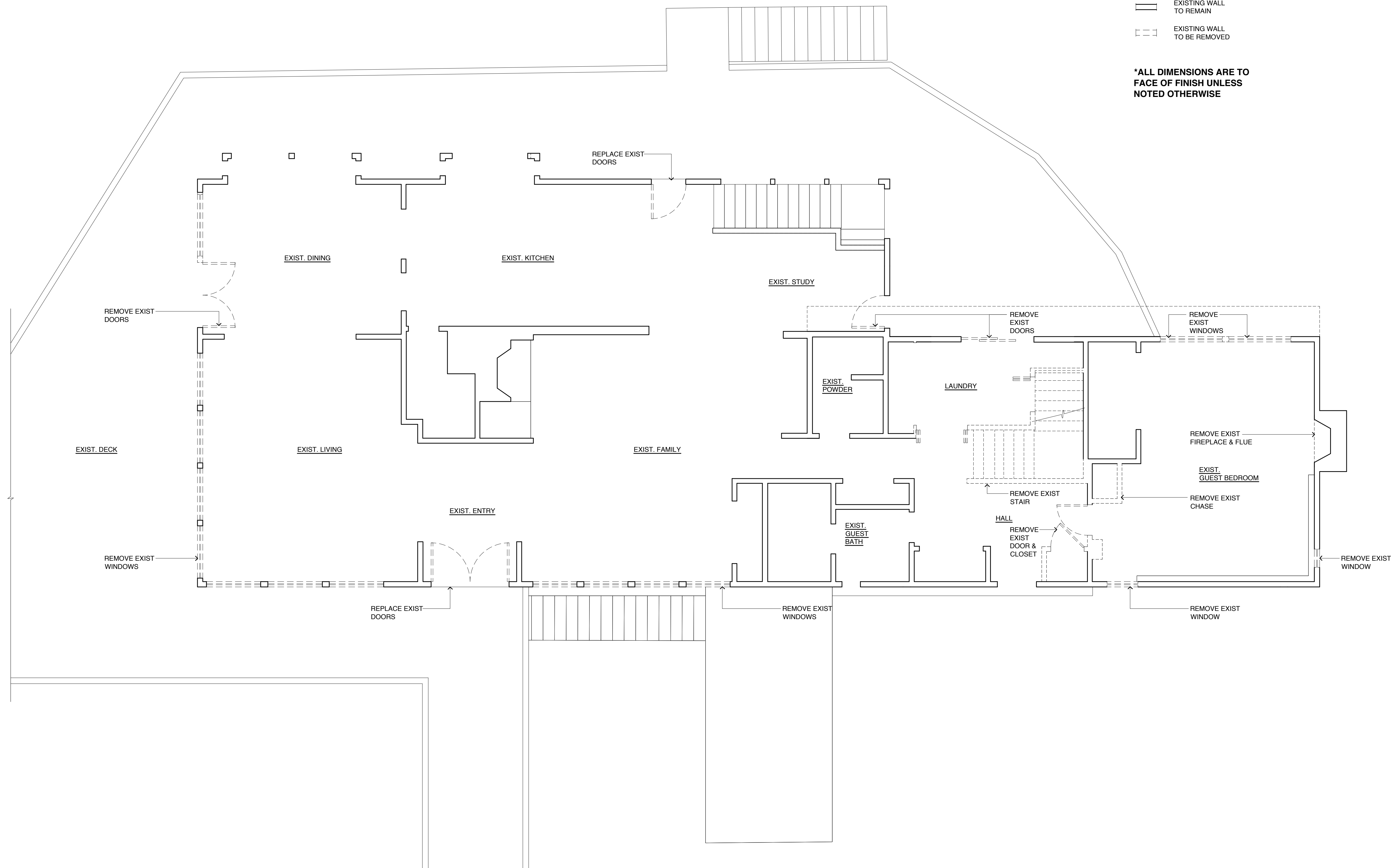
5472 West Mercer Way  
Mercer Island, WA 98040

**D0**

**WALL LEGEND**

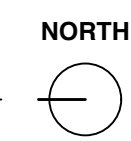
-  EXISTING WALL TO REMAIN
-  EXISTING WALL TO BE REMOVED

**\*ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE**



**LEVEL ONE DEMOLITION PLAN**


1/4" = 1'-0"



5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
 PATRICIA LYNN BRENNAN  
 STATE OF WASHINGTON

*Patricia Brennan*  
 ARCHITECTS

224  
 Pontius  
 Avenue  
 North  
 Suite 117  
 Seattle  
 Washington  
 98109  
 Phone  
 206.328.2886  
 Fax  
 206.328.2981

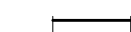
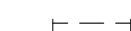
 CORRECTION #1  
 Date: 07/27/2020  
 Date: 02/27/2020

Nader Residence

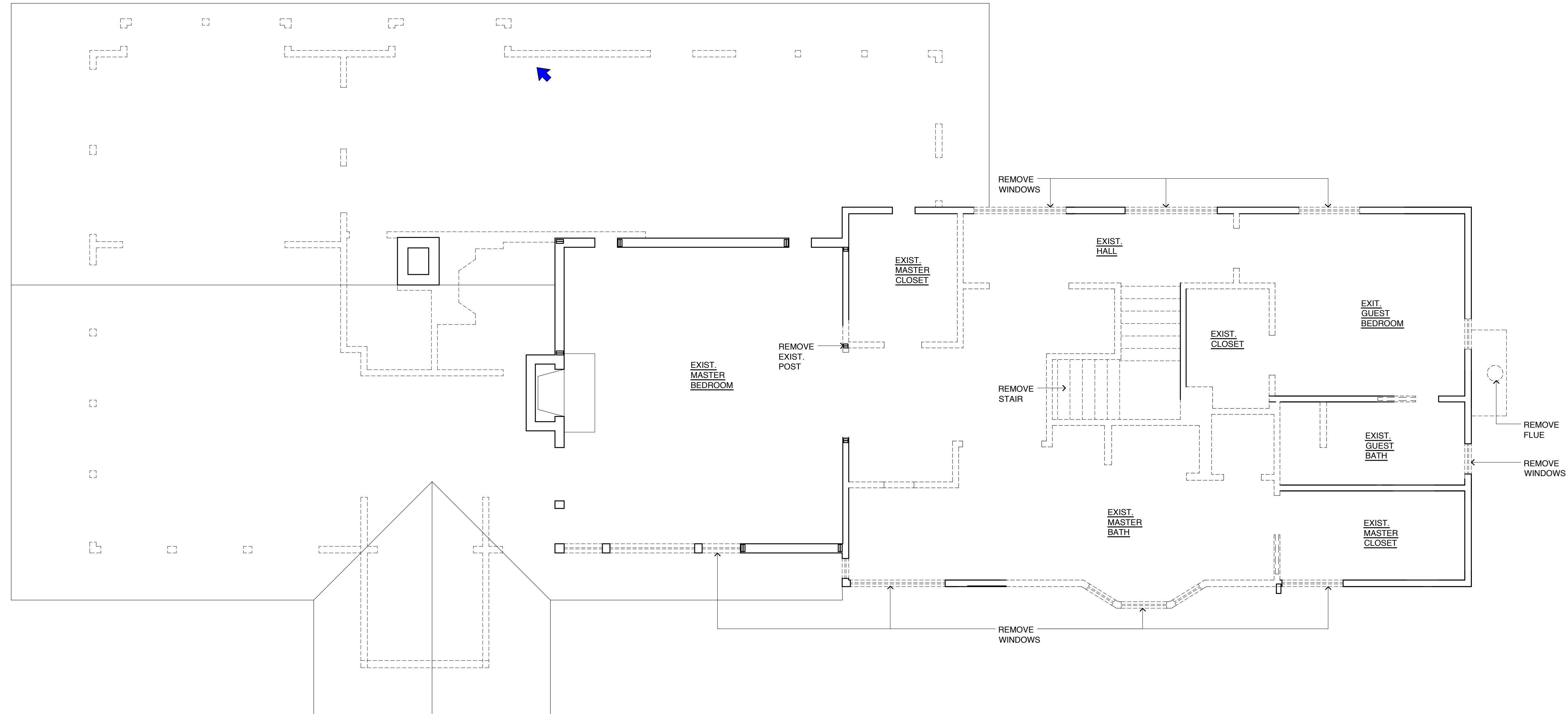
5472 West Mercer Way  
 Mercer Island, WA 98040

**D1**

**WALL LEGEND**

-  EXISTING WALL TO REMAIN
-  EXISTING WALL TO BE REMOVED

**\*ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE**

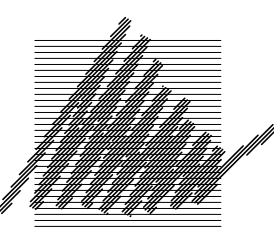


**LEVEL TWO DEMOLITION PLAN**

1/4" = 1'-0"




5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
 PATRICIA LYNN BRENNAN  
 STATE OF WASHINGTON



Patricia Brennan  
 ARCHITECTS

224  
 Pontius  
 Avenue  
 North  
 Suite 117  
 Seattle  
 Washington  
 98109

Phone  
 206.328.2886  
 Fax  
 206.328.2981




 CORRECTION #1  
 Date: 07/27/2020  
 Date: 02/27/2020

Nader Residence

5472 West Mercer Way  
 Mercer Island, WA 98040

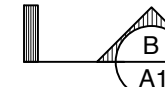
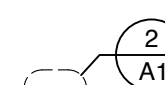
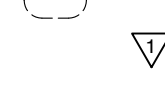

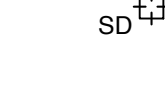

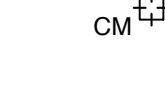
**D2**

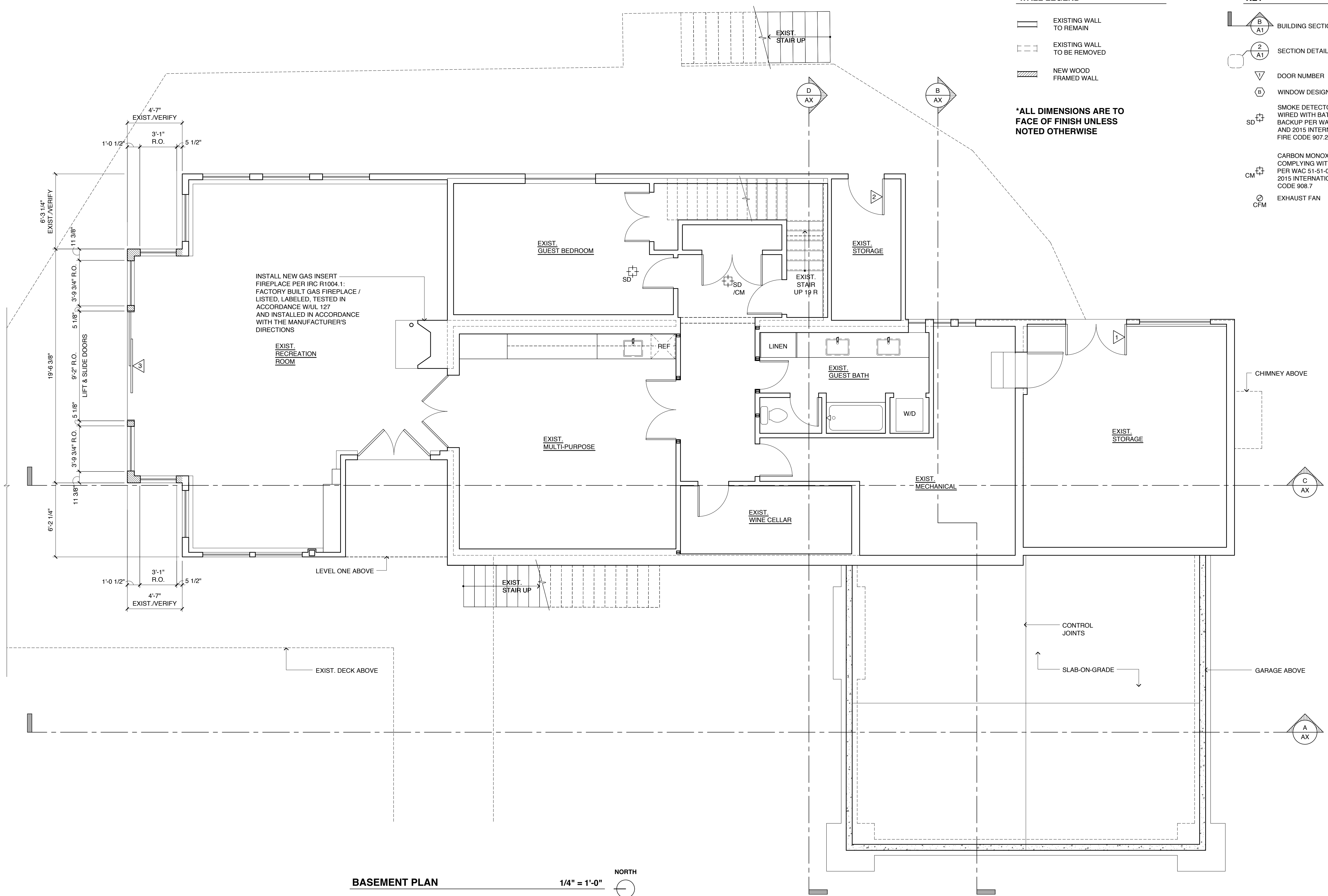
**WALL LEGEND**

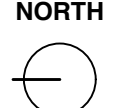
-  EXISTING WALL TO REMAIN
-  EXISTING WALL TO BE REMOVED
-  NEW WOOD FRAMED WALL

**\*ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE**

**KEY**

-  BUILDING SECTION
-  SECTION DETAIL
-  DOOR NUMBER
-  WINDOW DESIGNATION
-  SMOKE DETECTOR / HARD WIRED WITH BATTERY BACKUP PER WAC 51-51-0314 AND 2015 INTERNATIONAL FIRE CODE 907.2.11
-  CARBON MONOXIDE ALARM COMPLYING WITH UL 2034 PER WAC 51-51-0315 AND 2015 INTERNATIONAL FIRE CODE 908.7
-  EXHAUST FAN




**BASEMENT PLAN** 1/4" = 1'-0" 

5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
 PATRICIA LYNN BRENNAN  
 STATE OF WASHINGTON

*Patricia Brennan*  
 ARCHITECTS

224  
 Pontius  
 Avenue  
 North  
 Suite 117  
 Seattle  
 Washington  
 98109  
 Phone  
 206.328.2886  
 Fax  
 206.328.2981

 CORRECTION #1  
 Date: 07/27/2020  
 Date: 02/27/2020



Nader Residence

5472 West Mercer Way  
 Mercer Island, WA 98040

**A1**


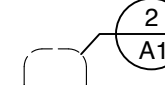

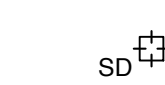

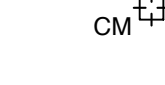
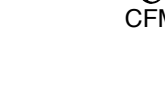


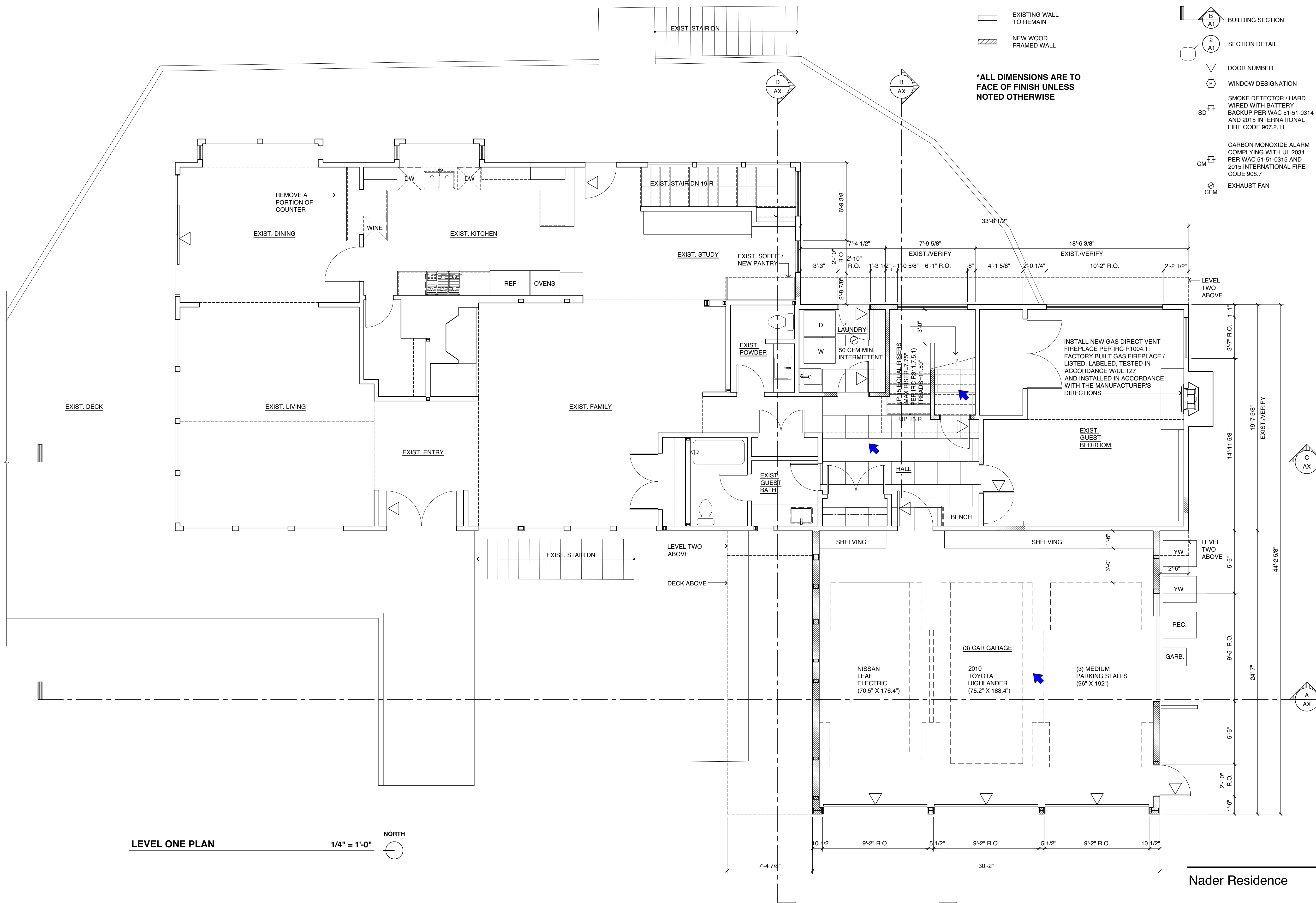
**WALL LEGEND**

-  EXISTING WALL TO REMAIN
-  NEW WOOD FRAMED WALL

**\*ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE**

**KEY**

-  BUILDING SECTION
-  SECTION DETAIL
-  DOOR NUMBER
-  WINDOW DESIGNATION
-  SMOKE DETECTOR / HARD WIRED WITH BATTERY BACKUP PER WAC 51-51-0314 AND 2015 INTERNATIONAL FIRE CODE 907.2.11
-  CARBON MONOXIDE ALARM COMPLYING WITH UL 2034 PER WAC 51-51-0315 AND 2015 INTERNATIONAL FIRE CODE 908.7
-  EXHAUST FAN




**LEVEL ONE PLAN** 1/4" = 1'-0" NORTH

5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
 PATRICIA LYNN BRENNAN  
 STATE OF WASHINGTON

*Patricia Brennan*  
 ARCHITECTS

224  
 Pontius  
 Avenue  
 North  
 Suite 117  
 Seattle  
 Washington  
 98109  
 Phone  
 206.328.2886  
 Fax  
 206.328.2981



 CORRECTION #1  
 Date: 07/27/2020  
 Date: 02/27/2020

**Nader Residence**

5472 West Mercer Way  
 Mercer Island, WA 98040

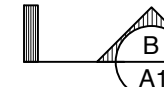
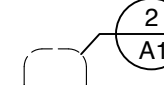



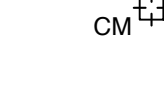

**A2**

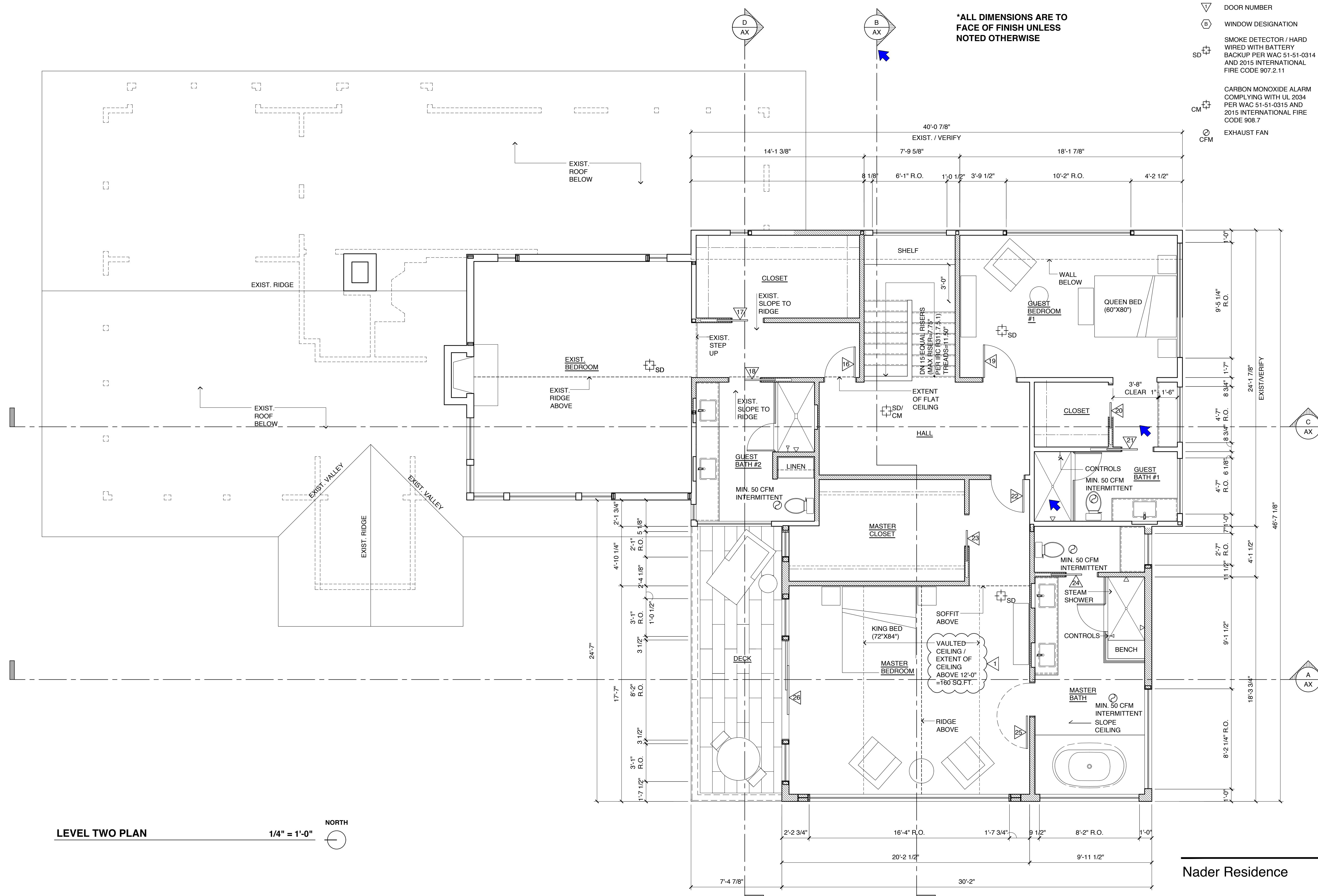
**WALL LEGEND**

-  EXISTING WALL TO REMAIN
-  NEW WOOD FRAMED WALL

**\*ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE**

**KEY**

-  BUILDING SECTION
-  SECTION DETAIL
-  DOOR NUMBER
-  WINDOW DESIGNATION
-  SMOKE DETECTOR / HARD WIRED WITH BATTERY BACKUP PER WAC 51-51-0314 AND 2015 INTERNATIONAL FIRE CODE 907.2.11
-  CARBON MONOXIDE ALARM COMPLYING WITH UL 2034 PER WAC 51-51-0315 AND 2015 INTERNATIONAL FIRE CODE 908.7
-  EXHAUST FAN



**LEVEL TWO PLAN** 1/4" = 1'-0" NORTH

5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
 PATRICIA LYNN BRENNAN  
 STATE OF WASHINGTON

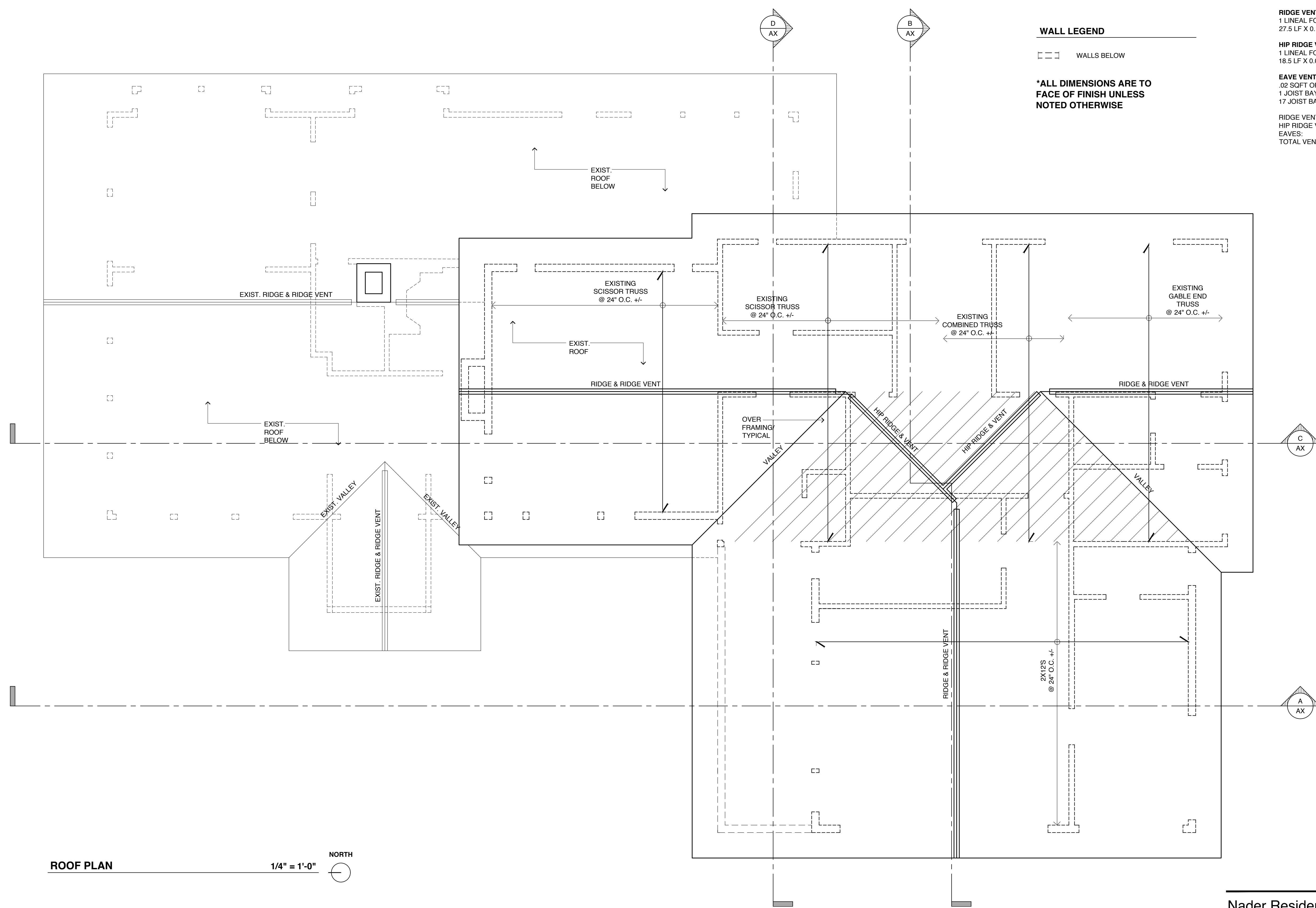
**Patricia Brennan ARCHITECTS**  
 224 Pontius Avenue North Suite 117 Seattle Washington 98109  
 Phone 206.328.2886 Fax 206.328.2981

1 CORRECTION #1  
 Date: 07/27/2020  
 Date: 02/27/2020

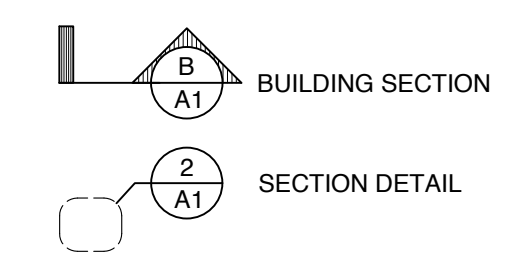
**Nader Residence**

5472 West Mercer Way  
 Mercer Island, WA 98040

**A3**



**KEY**



**WALL LEGEND**



**\*ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE**

**ROOF VENTILATION CALCULATION**

SQUARE FOOTAGE OF ROOF AREA TO BE VENTILATED:  
895 SQ. FT.

TOTAL NET FREE AREA  
**MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTILATED SPACE PER IRC R806.2**

**VENTING AREA REQUIRED** 895 SQ. FT. / 150 = **5.97 SQ. FT.**

**RIDGE VENT:**  
1 LINEAL FOOT OF RIDGE VENT = 0.14 SQ. FT OF VENTILATION  
27.5 LF X 0.14 = **3.85 SQ. FT**

**HIP RIDGE VENT:**  
1 LINEAL FOOT OF HIP RIDGE VENT = 0.06 SQ. FT OF VENTILATION  
18.5 LF X 0.06 = **1.11 SQ. FT**

**EAVE VENTS:**  
.02 SQFT OF VENTILATION PROVIDED PER V-NOTCH @ EAVE  
1 JOIST BAY W/ 3 V-NOTCH PER BAY = 0.06 SQ. FT.  
17 JOIST BAYS X 0.06 SQ. FT = **1.02 SQ. FT.**

RIDGE VENT: 3.85 SQ. FT.  
HIP RIDGE VENT: 1.11 SQ. FT.  
EAVES: 1.02 SQ. FT.  
**TOTAL VENTING PROVIDED: 5.98 SQ. FT.**

**ROOF PLAN** 1/4" = 1'-0" NORTH

5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
PATRICIA LYNN BRENNAN  
STATE OF WASHINGTON

*Patricia Brennan*  
ARCHITECTS

224  
Pontius  
Avenue  
North  
Suite 117  
Seattle  
Washington  
98109

Phone  
206.328.2886  
Fax  
206.328.2981

△ CORRECTION #1  
Date: 07/27/2020  
Date: 02/27/2020

Nader Residence

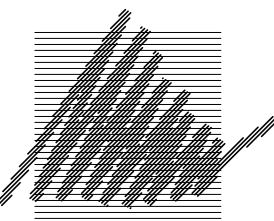
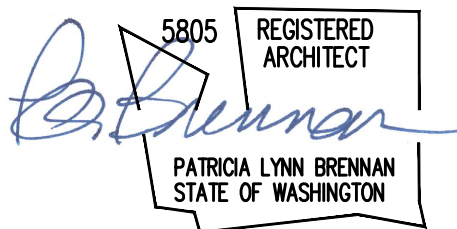
5472 West Mercer Way  
Mercer Island, WA 98040

**A4**

**DOOR SCHEDULE**

MARK	FRAME SIZE	THK	U-VALUE	REMARKS
1	5'-1" X 6'-8" (PAIR)	1-3/4"		VERIFY EXIST. OPENING
2	3'-0" X 6'-8"	1-3/4"		VERIFY EXIST. OPENING
3	9'-0" X 6'-8"	1-3/4"	0.30	LIFT SLIDE PATIO DOOR
4	6'-1 3/8" X 6'-8" (PAIR)	1-3/4"	0.30	CUSTOM ENTRY DOOR / VERIFY EXIST. OPENING
5	10'-4" X 6'-9 1/4"	1-3/4"	0.30	LIFT SLIDE PATIO DOOR
6	2'-8" X 6'-8"	1-3/4"	0.30	CUSTOM STORE DOOR / VERIFY EXIST. OPENING
7	2'-8" X 6'-8"	1-3/4"	0.30	CUSTOM STORE DOOR
8	2'-8" X 7'-0"	1-3/4"	0.30	CUSTOM STORE DOOR
9	9'-0" X 8'-0"	1-3/4"	0.30	CUSTOM GARAGE DOOR
10	9'-0" X 8'-0"	1-3/4"	0.30	CUSTOM GARAGE DOOR
11	9'-0" X 8'-0"	1-3/4"	0.30	CUSTOM GARAGE DOOR
12	3'-0" X 6'-8"	1-3/4"		SMOKE GASKET & SELF-CLOSING HARDWARE
13	2'-8" X 6'-8"	1-3/8"		SOLID CORE FLUSH / MATCH EXISTING
14	2'-6" X 6'-8"	1-3/8"		SOLID CORE FLUSH / MATCH EXISTING
15	2'-8" X 6'-8"	1-3/8"		SOLID CORE FLUSH / MATCH EXISTING
16	2'-6" X 6'-8"	1-3/8"		SOLID CORE FLUSH / MATCH EXISTING
17	2'-6" X 6'-8"	1-3/8"		POCKET DOOR / MATCH EXISTING
18	2'-6" X 6'-8"	1-3/8"		POCKET DOOR / MATCH EXISTING
19	2'-8" X 6'-8"	1-3/8"		SOLID CORE FLUSH / MATCH EXISTING
20	2'-6" X 6'-8"	1-3/8"		POCKET DOOR / MATCH EXISTING
21	2'-6" X 6'-8"	1-3/8"		POCKET DOOR / MATCH EXISTING
22	2'-8" X 6'-8"	1-3/8"		SOLID CORE FLUSH / MATCH EXISTING
23	2'-6" X 6'-8"	1-3/8"		POCKET DOOR / MATCH EXISTING
24	2'-6" X 6'-8"	1-3/8"		POCKET DOOR / MATCH EXISTING
25	2'-8" X 6'-8"	1-3/8"		SOLID CORE FLUSH / MATCH EXISTING
26	8'-0" X 7'-0"	1-3/4"	0.30	LIFT SLIDE PATIO DOOR

- DOOR SCHEDULE NOTES:  
 1. MAXIMUM U-VALUE, VERTICAL GLAZING: 0.30 PER WSEC TABLE R402.1.1  
 2. MAXIMUM U-VALUE, OPAQUE DOORS: 0.30 PER WSEC TABLE R402.1.1  
 3. ALL GLAZING IN DOORS TO BE SAFETY GLASS, SAFETY GLASS TO BE PERMANENTLY MARKED.  
 4. ALL EXTERIOR DOORS TO HAVE WEATHER STRIPPING.  
 5. CONTRACTOR TO VERIFY EXISTING OPENINGS.



Patricia Brennan  
ARCHITECTS

224  
Pontius  
Avenue  
North  
Suite 117  
Seattle  
Washington  
98109

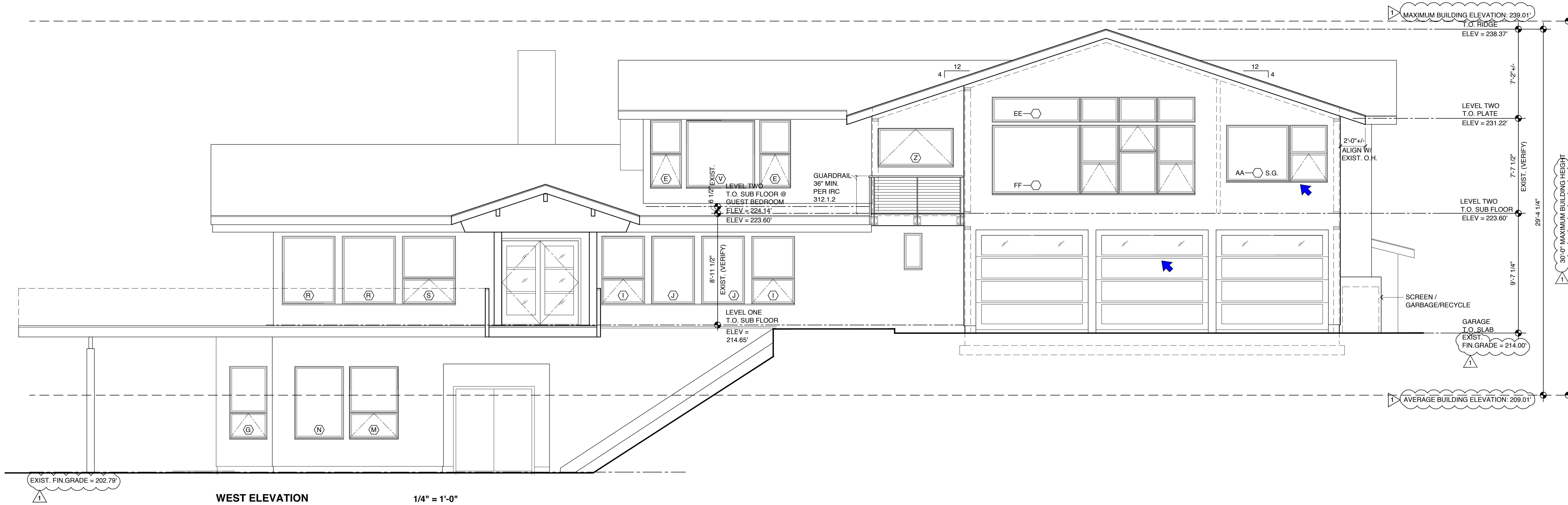
Phone  
206.328.2886  
Fax  
206.328.2981

△ CORRECTION #1  
Date: 07/27/2020  
Date: 02/27/2020

Nader Residence

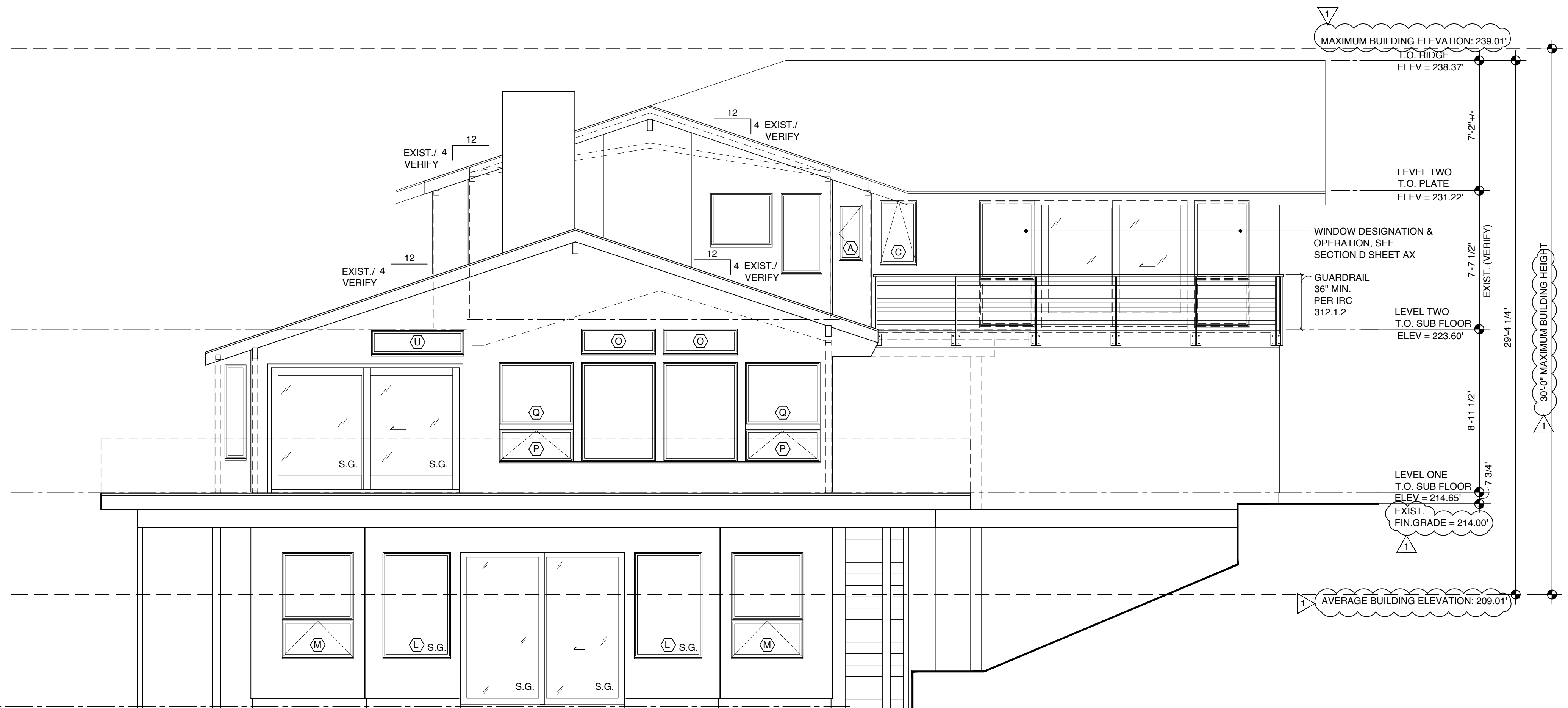
5472 West Mercer Way  
Mercer Island, WA 98040

**A5**



WEST ELEVATION

1/4" = 1'-0"



NORTH ELEVATION

1/4" = 1'-0"

5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
 PATRICIA LYNN BRENNAN  
 STATE OF WASHINGTON

Patricia Brennan  
 ARCHITECTS

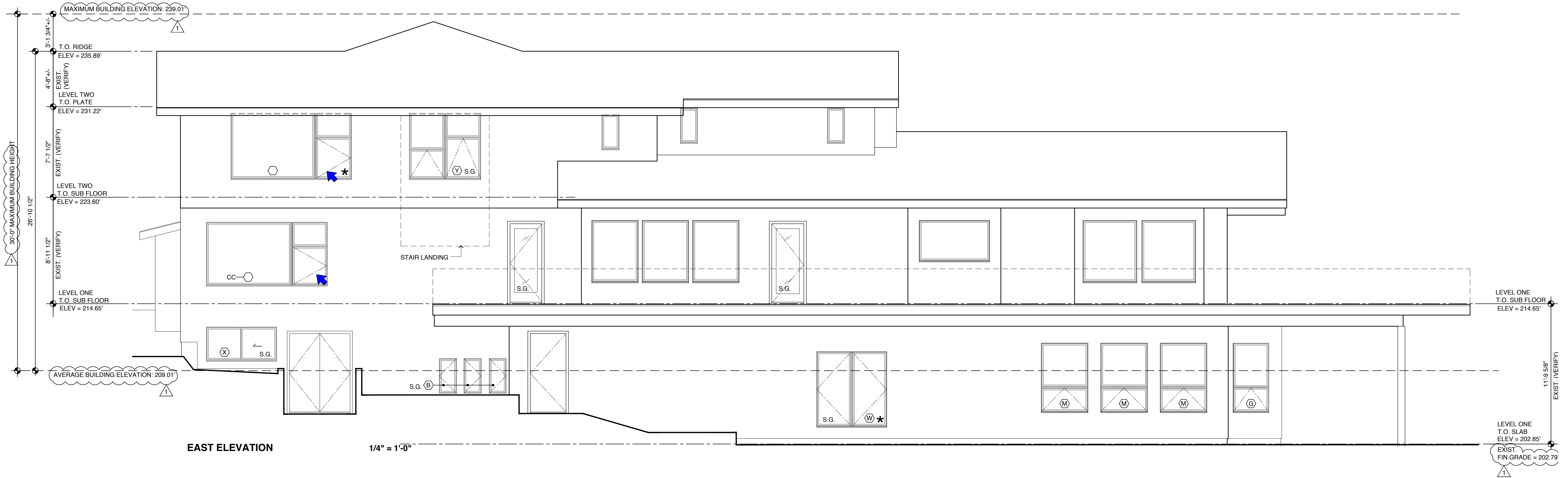
224  
 Pontius  
 Avenue  
 North  
 Suite 117  
 Seattle  
 Washington  
 98109  
 Phone  
 206.328.2886  
 Fax  
 206.328.2981

△ CORRECTION #1  
 Date: 07/27/2020  
 Date: 02/27/2020

Nader Residence

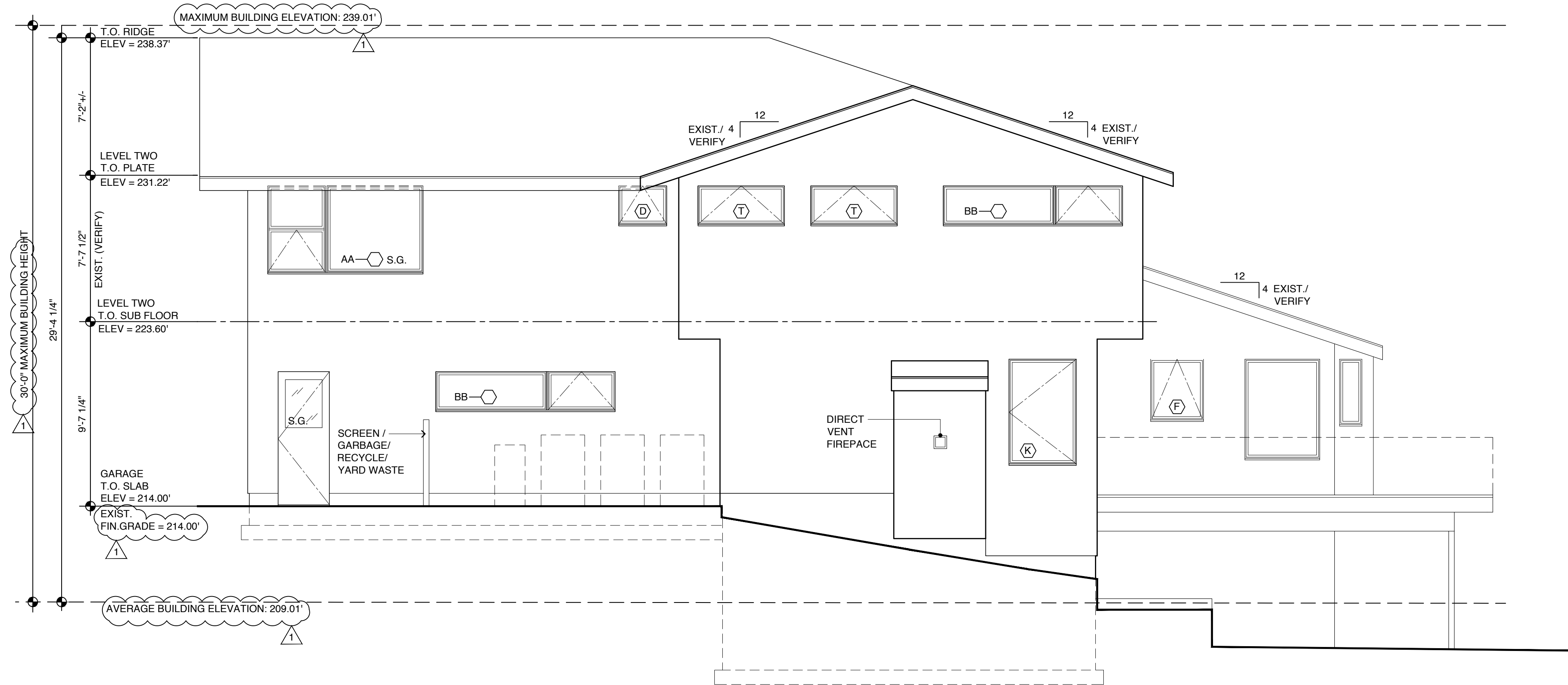
5472 West Mercer Way  
 Mercer Island, WA 98040

A6



EAST ELEVATION

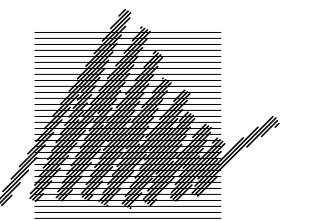
1/4" = 1'-0"



SOUTH ELEVATION

1/4" = 1'-0"

5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
 PATRICIA LYNN BRENNAN  
 STATE OF WASHINGTON



Patricia Brennan  
 ARCHITECTS

224  
 Pontius  
 Avenue  
 North  
 Suite 117  
 Seattle  
 Washington  
 98109

Phone  
 206.328.2886  
 Fax  
 206.328.2981

△ CORRECTION #1  
 Date: 07/27/2020  
 Date: 02/27/2020

Nader Residence

5472 West Mercer Way  
 Mercer Island, WA 98040

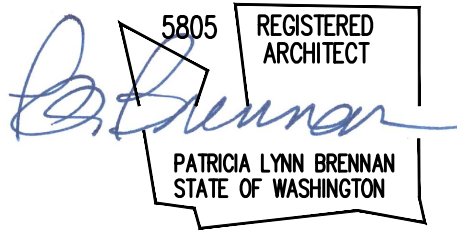
A7

**WINDOW SCHEDULE**

MARK	NET SIZE W/ R.O. IF NEW	LOCATIONS	OPERATION	REMARKS	QTY
A	1'-3 1/4" X 3'-0 1/2"	GUEST BATH #2	CASEMENT	VERIFY EXIST. OPENINGS	1
B	1'-5 1/2" X 2'-11"	BASEMENT MECHANICAL & BASEMENT GUEST BATH	AWNING	VERIFY EXIST. OPENINGS	3
C	2'-0" X 3'-6" (2'-1" X 3'-6 1/2" R.O.)	MASTER CLOSET	AWNING		1
D	2'-6" X 2'-0" (2'-7" X 2'-0 1/2" R.O.)	MASTER BATH	AWNING		1
E	2'-6" X 5'-4 1/2"	GUEST BEDROOM #2	FIXED/AWNING	VERIFY EXIST. OPENINGS	2
F	2'-9" X 3'-2" (2'-10" X 3'-2 1/2" R.O.)	EXIST. STUDY	AWNING		1
G	3'-0" X 5'-9 1/8" (2'-1" X 5'-9 5/8" R.O.)	EXIST. EXERCISE ROOM	FIXED/AWNING		2
H	3'-0" X 7'-0" (3'-1" X 7'-0 1/2" R.O.)	MASTER BEDROOM	FIXED/AWNING		2
I	3'-5" X 5'-5 1/4"	EXIST. FAMILY	FIXED/AWNING	VERIFY EXIST. OPENINGS	2
J	3'-5" X 5'-5 1/4"	EXIST. FAMILY	FIXED	VERIFY EXIST. OPENINGS	2
K	3'-6" X 5'-5 1/4" (3'-7" X 5'-5 3/4" R.O.)	OFFICE	CASEMENT		1
L	3'-8 3/4" X 5'-9 1/8" (3'-9 3/4" X 5'-9 5/8" R.O.)	EXIST. EXERCISE ROOM	FIXED		2
M	3'-11" X 5'-9 1/8"	EXIST. EXERCISE ROOM	FIXED/AWNING	VERIFY EXIST. OPENINGS	6
N	3'-11" X 5'-9 1/8"	EXIST. EXERCISE ROOM	FIXED	VERIFY EXIST. OPENINGS	1
O	4'-1" X 1'-4" (4'-2" X 1'-4 1/2" R.O.)	EXIST. LIVING	FIXED	VERIFY EXIST. OPENINGS	2
P	4'-1" X 3'-5 1/4"	EXIST. LIVING	AWNING	VERIFY EXIST. OPENINGS	2
Q	4'-1" X 1'-9"	EXIST. LIVING	FIXED	VERIFY EXIST. OPENINGS	2
R	4'-3" X 5'-5 1/4"	EXIST. LIVING	FIXED	VERIFY EXIST. OPENINGS	2
S	4'-3" X 5'-5 1/4"	EXIST. LIVING	FIXED/AWNING	VERIFY EXIST. OPENINGS	1
T	4'-6" X 2'-0" (4'-7" X 2'-0 1/2" R.O.)	GUEST BEDROOM #1	AWNING		2
U	5'-1" X 1'-4"	EXIST. DINING	FIXED	VERIFY EXIST. OPENINGS	1
V	5'-6" X 5'-4 1/2"	GUEST BEDROOM #2	FIXED	VERIFY EXIST. OPENINGS	1
W	5'-10 1/2" X 6'-3 1/8"	EXIST. BASEMENT BEDROOM	CASEMENT	VERIFY EXIST. OPENINGS	1
X	5'-11" X 2'-9 1/2"	EXIST. BASEMENT STORAGE	SLIDER	VERIFY EXIST. OPENINGS	1
Y	6'-0" X 5'-6" (6'-1" X 5'-6 1/2" R.O.)	STAIRWELL	(2) FIXED/ (2) AWNING		1
Z	6'-0 1/2" X 3'-0 1/2"	GUEST BATH #2	AWNING	VERIFY EXIST. OPENINGS	1
AA	8'-1" X 5'-6" (8'-2" X 4'-6 1/2" R.O.)	MASTER BATH	PICTURE / FIXED / AWNING		2
BB	8'-1" X 5'-6" (8'-2" X 5'-6 1/2" R.O.)	GARAGE / GUEST BEDROOM #1	FIXED/AWNING		2
CC	10'-1 1/2" X 5'-3" (10'-2 1/2" X 5'-3 1/2" R.O.)	OFFICE	PICTURE / FIXED / AWNING		1
DD	10'-1 1/2" X 5'-6" (10'-2 1/2" X 5'-6 1/2" R.O.)	GUEST BEDROOM #1	PICTURE / FIXED / AWNING		1
EE	16'-3" X 2'-0" (16'-4" X 2'-0 1/2" R.O.)	MASTER BEDROOM	(4) FIXED		1
FF	16'-3" X 5'-6" (16'-4" X 5'-6 1/2" R.O.)	MASTER BEDROOM	PICTURE / (3) FIXED / (3) AWNING		1
TOTAL					52

**WINDOW SCHEDULE NOTES:**

- WINDOW MANUFACTURER/SERIES:**  
WINDSOR PINNACLE CLAD
- REFER TO WINDOW TYPES FOR MULLED UNIT BREAK-UP.**
- CUSTOM WINDOW SIZES TO BE FIELD VERIFIED PRIOR TO ORDERING.
- SEE EXTERIOR ELEVATIONS FOR WINDOW OPERATIONS.
- ★ DENOTES EGRESS WINDOW. PROVIDE EGRESS WINDOWS PER 2015 IRC.
- TEMPERED GLASS TO BE USED IN THE FOLLOWING LOCATIONS:  
- WITHIN 18" OF FLOOR  
- WITHIN 24" OF ANY DOOR  
- OVER A TUB OR SHOWER  
- WITHIN 36" OF STAIR LANDINGS  
- WITHIN 36" OF THE BOTTOM TREAD OF STAIRS  
- **REFER TO ELEVATIONS FOR S.G. DESIGNATION**
- GLAZING SHALL BE NFRC-CERTIFIED AND ALL TEMPERED GLASS SHALL BE PERMANENTLY MARKED AS SUCH
- ALL WINDOWS TO BE INSULATED UNITS, DOUBLE LOW-E WITH ARGON AND 1/2" AIR SPACE, MAX. U-VALUE = .30 (VERTICAL)
- SATIN ETCHED GLAZING AS FOLLOWS:  
:



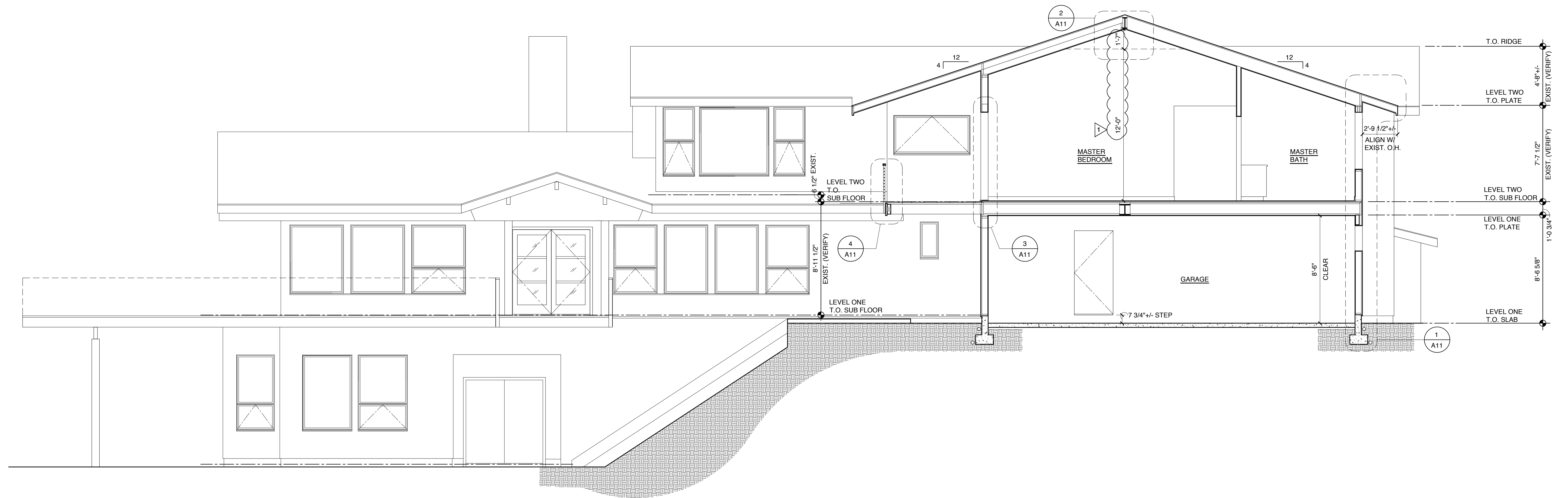
224  
Pontius  
Avenue  
North  
Suite 117  
Seattle  
Washington  
98109  
  
Phone  
206.328.2886  
Fax  
206.328.2981

△ CORRECTION #1  
Date: 07/27/2020  
Date: 02/27/2020

Nader Residence

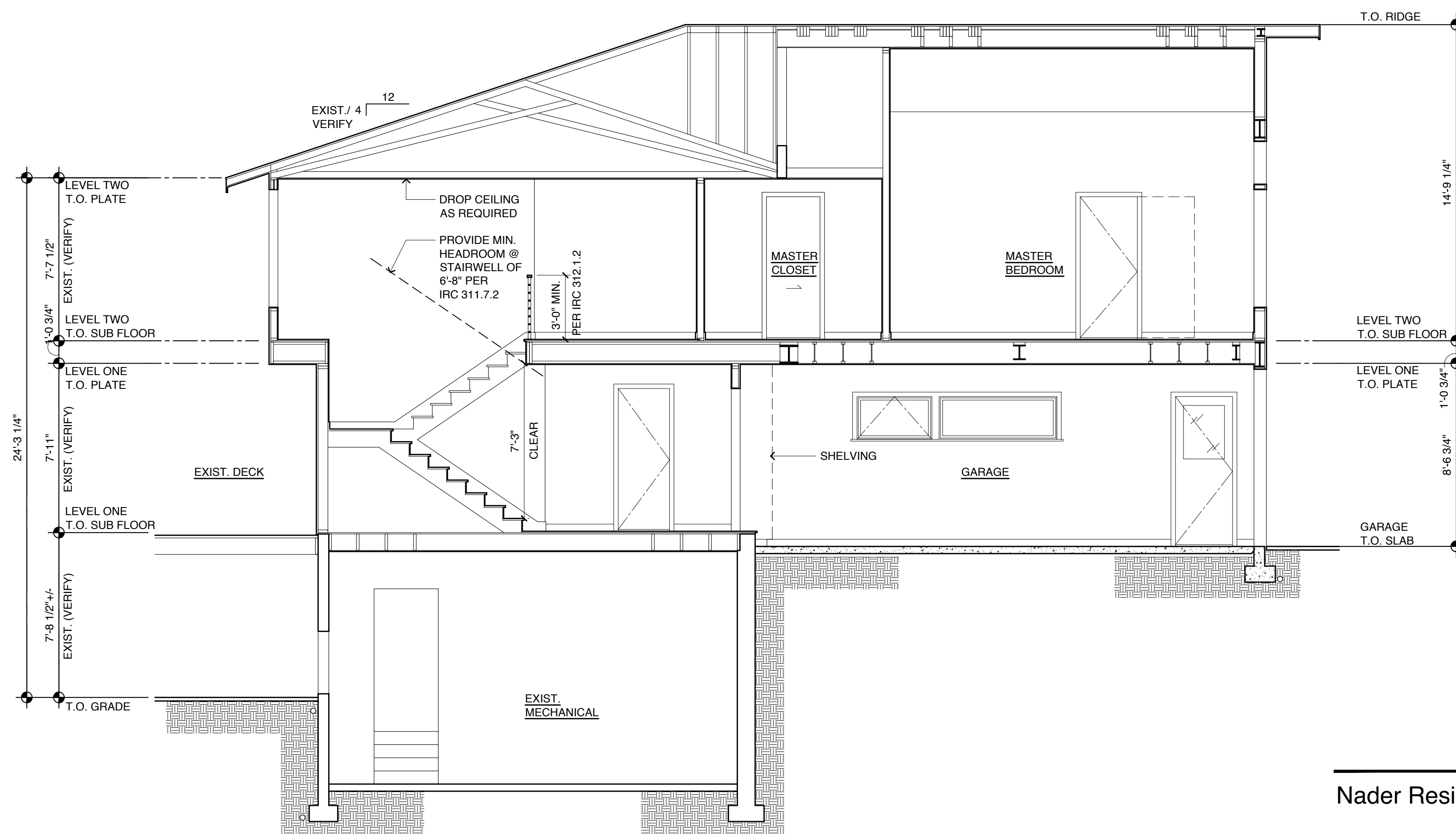
5472 West Mercer Way  
Mercer Island, WA 98040

**A8**



SECTION A LOOKING EAST

1/4" = 1'-0"



SECTION B LOOKING SOUTH

1/4" = 1'-0"

5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
 PATRICIA LYNN BRENNAN  
 STATE OF WASHINGTON

*Patricia Brennan*  
 ARCHITECTS

224  
 Pontius  
 Avenue  
 North  
 Suite 117  
 Seattle  
 Washington  
 98109

Phone  
 206.328.2886  
 Fax  
 206.328.2981

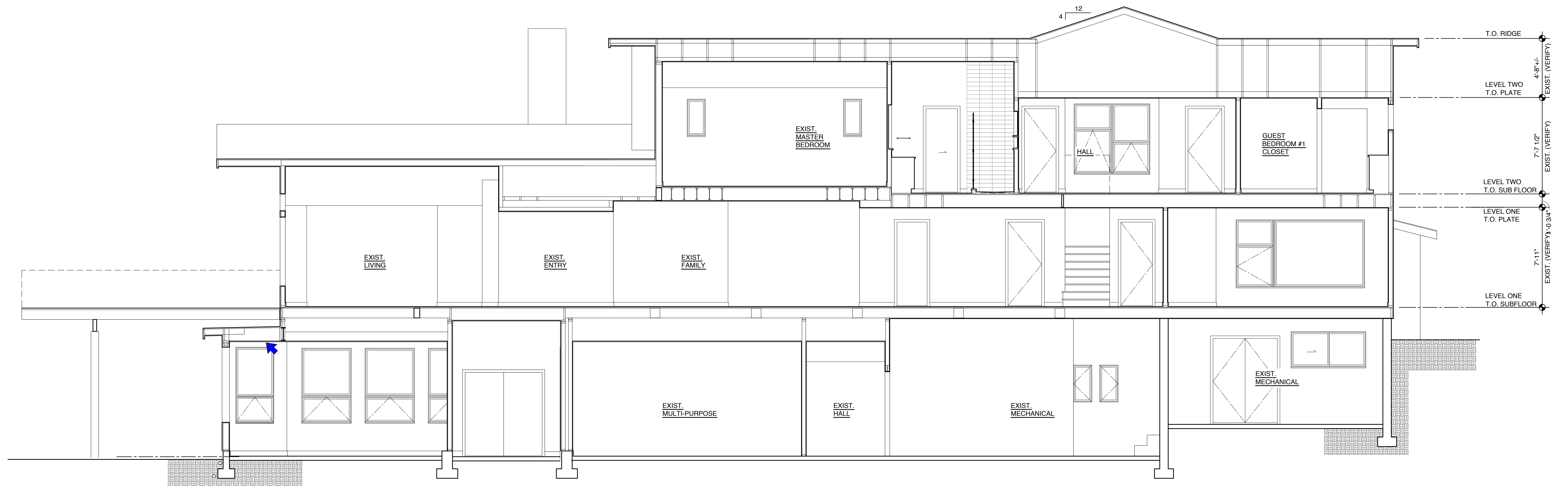
△ CORRECTION #1  
 Date: 07/27/2020  
 Date: 02/27/2020

Nader Residence

5472 West Mercer Way  
 Mercer Island, WA 98040

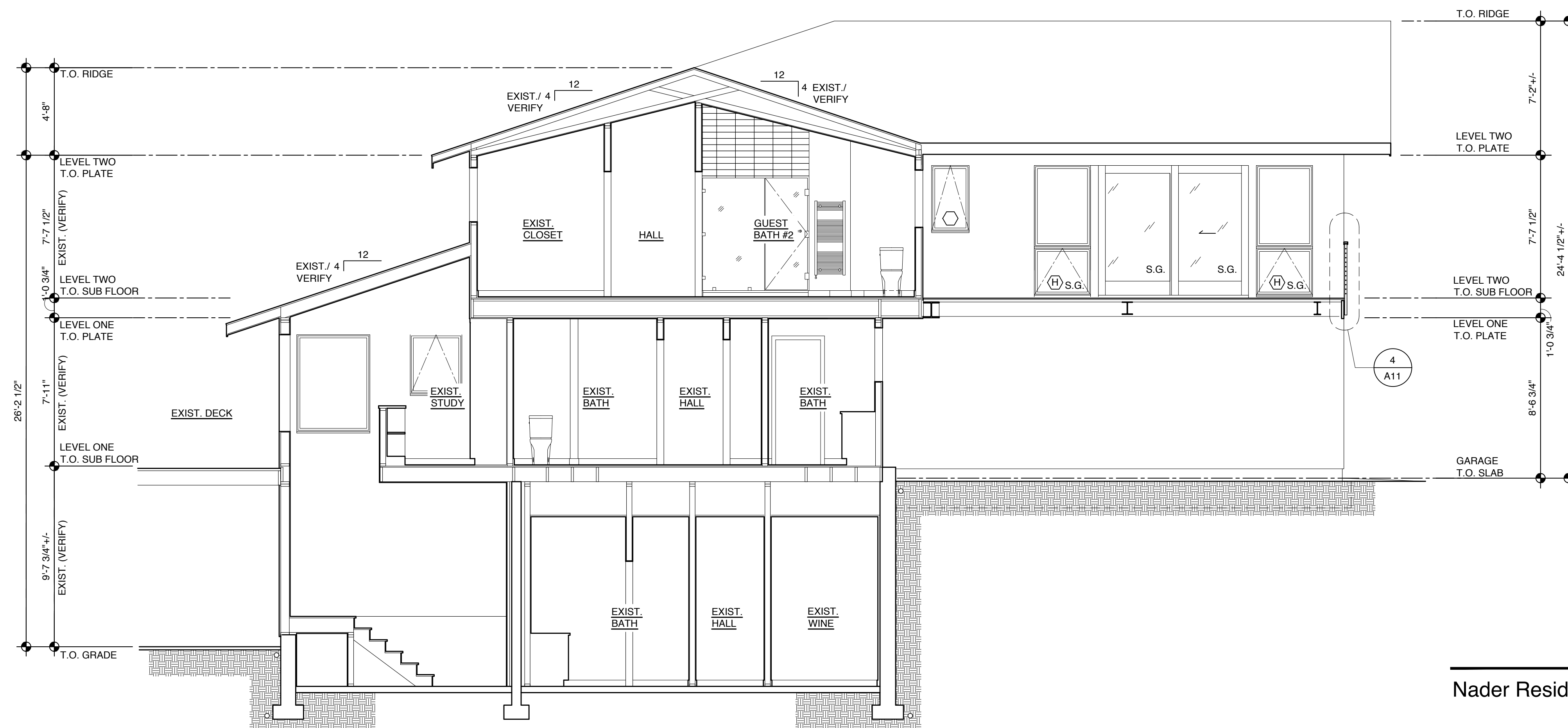
A9





SECTION C LOOKING EAST

1/4" = 1'-0"



SECTION D LOOKING SOUTH

1/4" = 1'-0"

5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
 PATRICIA LYNN BRENNAN  
 STATE OF WASHINGTON

*Patricia Brennan*  
 ARCHITECTS

224  
 Pontius  
 Avenue  
 North  
 Suite 117  
 Seattle  
 Washington  
 98109

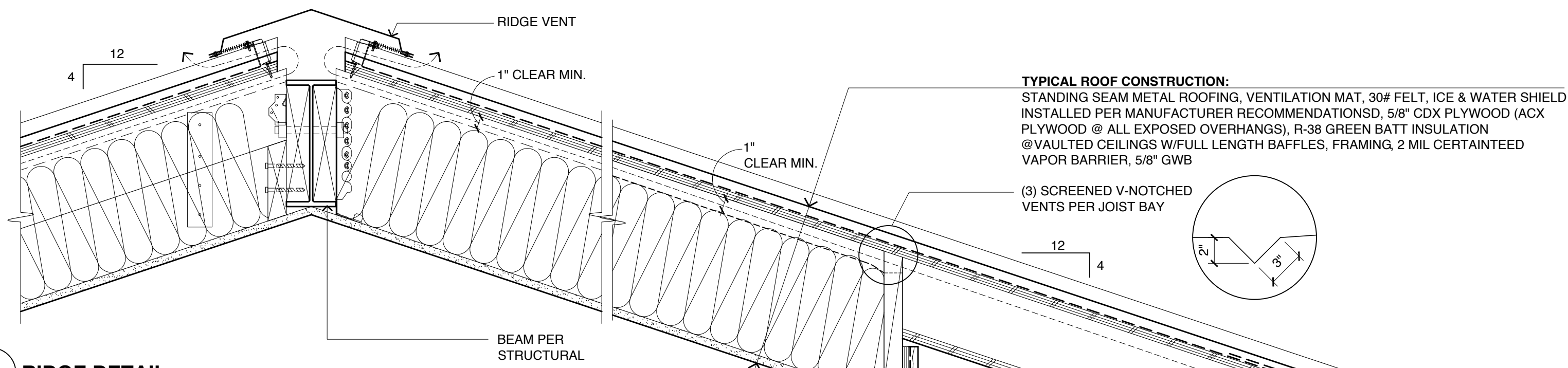
Phone  
 206.328.2886  
 Fax  
 206.328.2981

△ CORRECTION #1  
 Date: 07/27/2020  
 Date: 02/27/2020

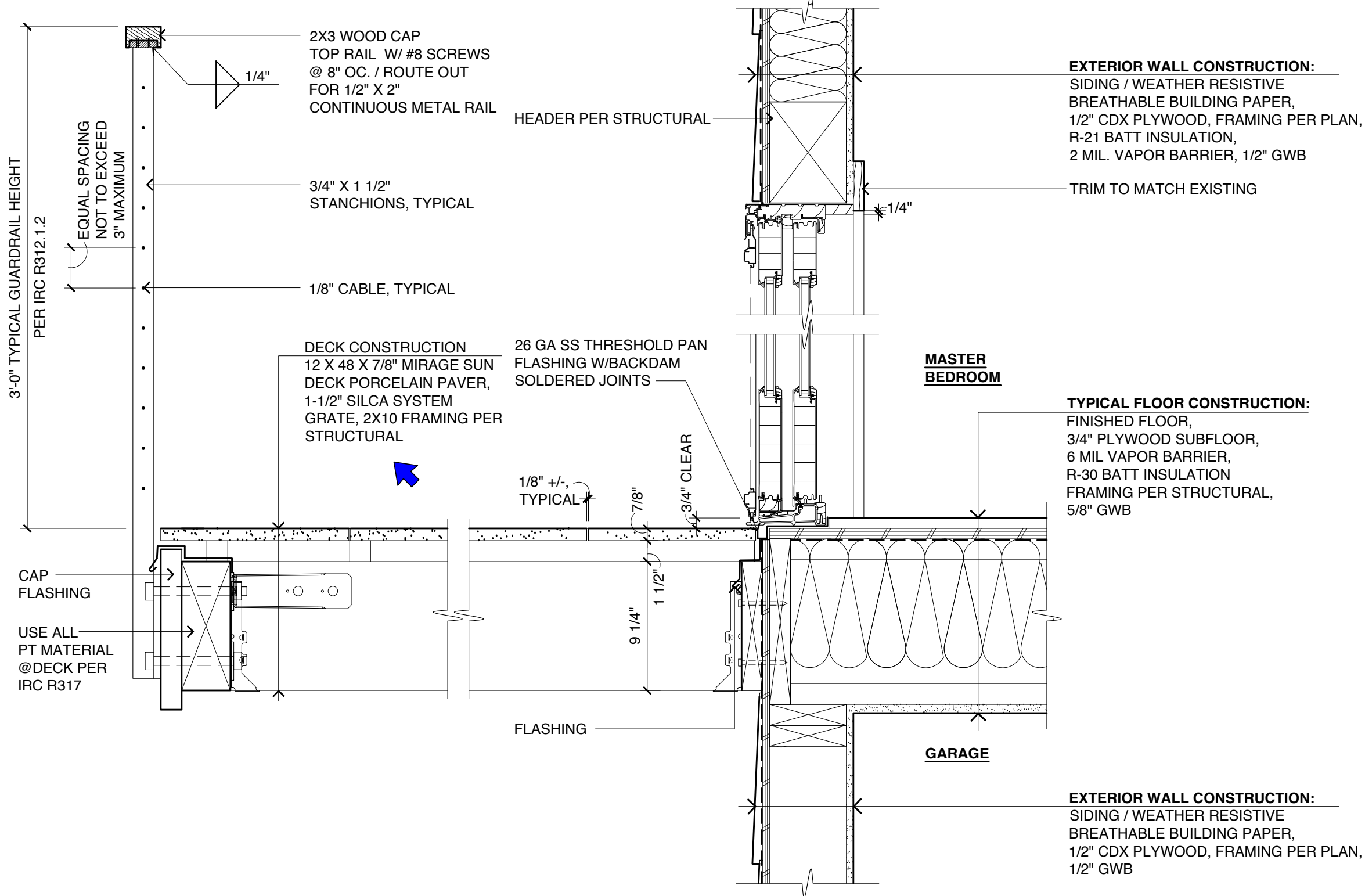
Nader Residence

5472 West Mercer Way  
 Mercer Island, WA 98040

**A10**



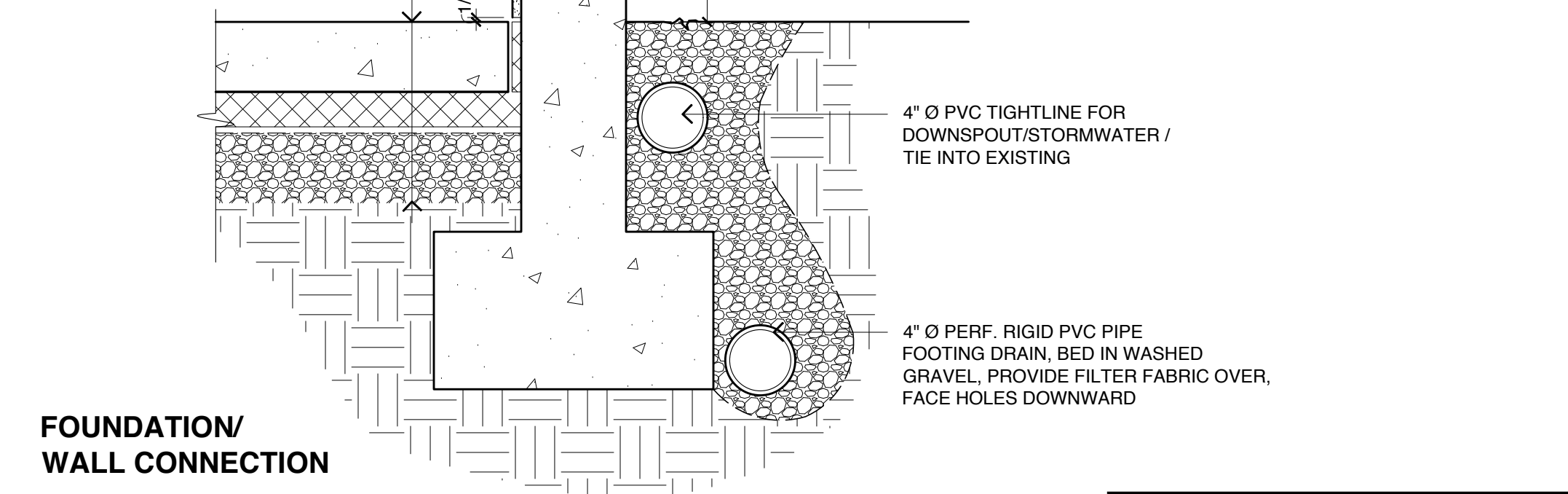
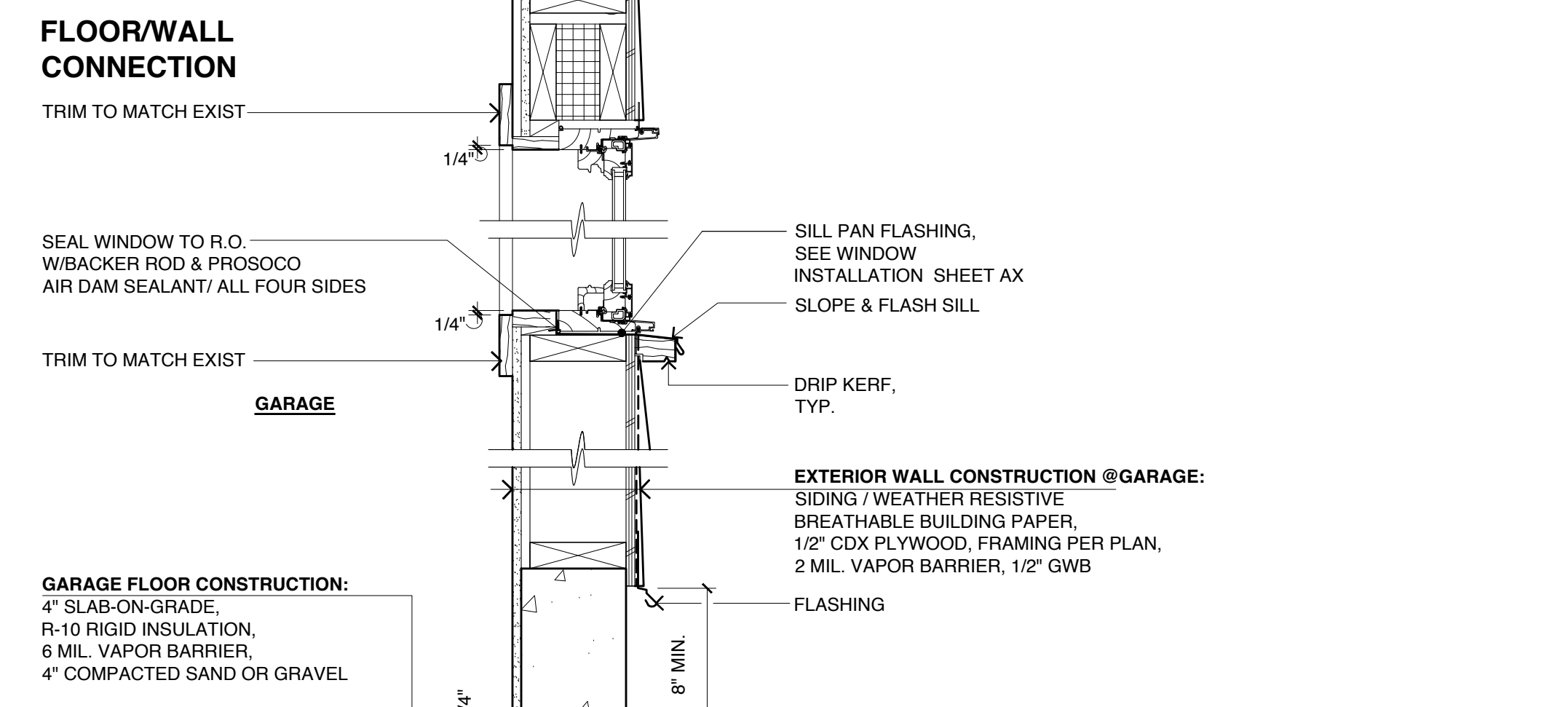
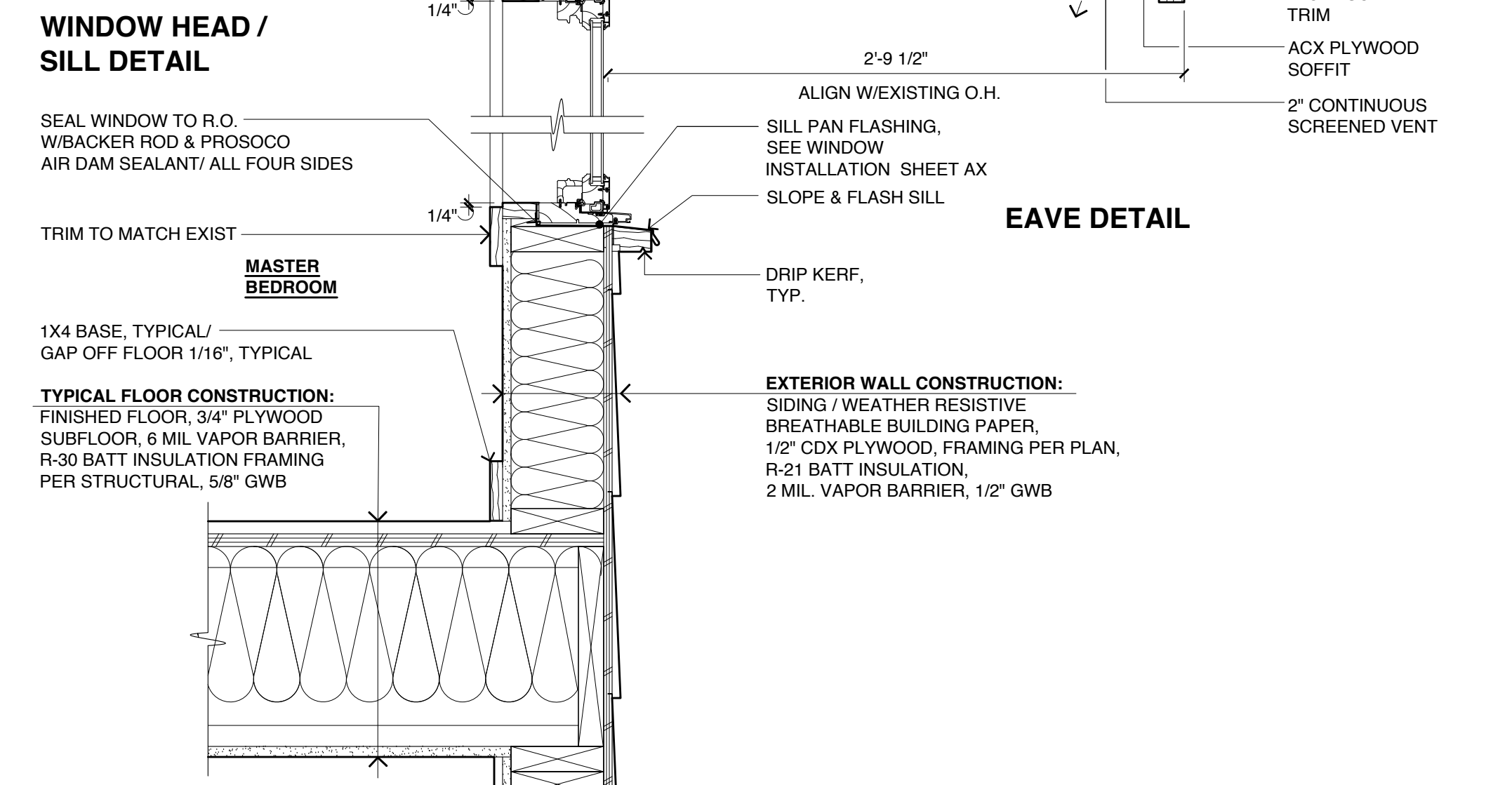
**2 RIDGE DETAIL**  
1 1/2" = 1'-0"



**4 DECK RAILING CONNECTION**  
1 1/2" = 1'-0"



**3 DECK/WALL CONNECTION / DOOR HEAD & SILL DETAIL**  
1 1/2" = 1'-0"



**1 TYPICAL WALL SECTION SECTION**  
1 1/2" = 1'-0"

**TYPICAL ROOF CONSTRUCTION:**  
STANDING SEAM METAL ROOFING, VENTILATION MAT, 30# FELT, ICE & WATER SHIELD INSTALLED PER MANUFACTURER RECOMMENDATIONS, 5/8" CDX PLYWOOD (ACX PLYWOOD @ ALL EXPOSED OVERHANGS), R-38 GREEN BATT INSULATION @ VAULTED CEILINGS W/FULL LENGTH BAFFLES, FRAMING, 2 MIL CERTAINTED VAPOR BARRIER, 5/8" GWB

**EXTERIOR WALL CONSTRUCTION:**  
SIDING / WEATHER RESISTIVE BREATHABLE BUILDING PAPER, 1/2" CDX PLYWOOD, FRAMING PER PLAN, R-21 BATT INSULATION, 2 MIL VAPOR BARRIER, 1/2" GWB

**TYPICAL FLOOR CONSTRUCTION:**  
FINISHED FLOOR, 3/4" PLYWOOD SUBFLOOR, 6 MIL VAPOR BARRIER, R-30 BATT INSULATION FRAMING PER STRUCTURAL, 5/8" GWB

**EXTERIOR WALL CONSTRUCTION:**  
SIDING / WEATHER RESISTIVE BREATHABLE BUILDING PAPER, 1/2" CDX PLYWOOD, FRAMING PER PLAN, 1/2" GWB

**TYPICAL FLOOR CONSTRUCTION:**  
FINISHED FLOOR, 3/4" PLYWOOD SUBFLOOR, 6 MIL VAPOR BARRIER, R-30 BATT INSULATION FRAMING PER STRUCTURAL, 5/8" GWB

**EXTERIOR WALL CONSTRUCTION:**  
SIDING / WEATHER RESISTIVE BREATHABLE BUILDING PAPER, 1/2" CDX PLYWOOD, FRAMING PER PLAN, R-21 BATT INSULATION, 2 MIL VAPOR BARRIER, 1/2" GWB

**EXTERIOR WALL CONSTRUCTION @ GARAGE:**  
SIDING / WEATHER RESISTIVE BREATHABLE BUILDING PAPER, 1/2" CDX PLYWOOD, FRAMING PER PLAN, 2 MIL VAPOR BARRIER, 1/2" GWB

**GARAGE FLOOR CONSTRUCTION:**  
4" SLAB-ON-GRADE, R-10 RIGID INSULATION, 6 MIL VAPOR BARRIER, 4" COMPACTED SAND OR GRAVEL

4" Ø PVC TIGHTLINE FOR DOWNSPOUT/STORMWATER / TIE INTO EXISTING

4" Ø PERF. RIGID PVC PIPE FOOTING DRAIN, BED IN WASHED GRAVEL, PROVIDE FILTER FABRIC OVER, FACE HOLES DOWNWARD

5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
PATRICIA LYNN BRENNAN  
STATE OF WASHINGTON

*Patricia Brennan*  
ARCHITECTS

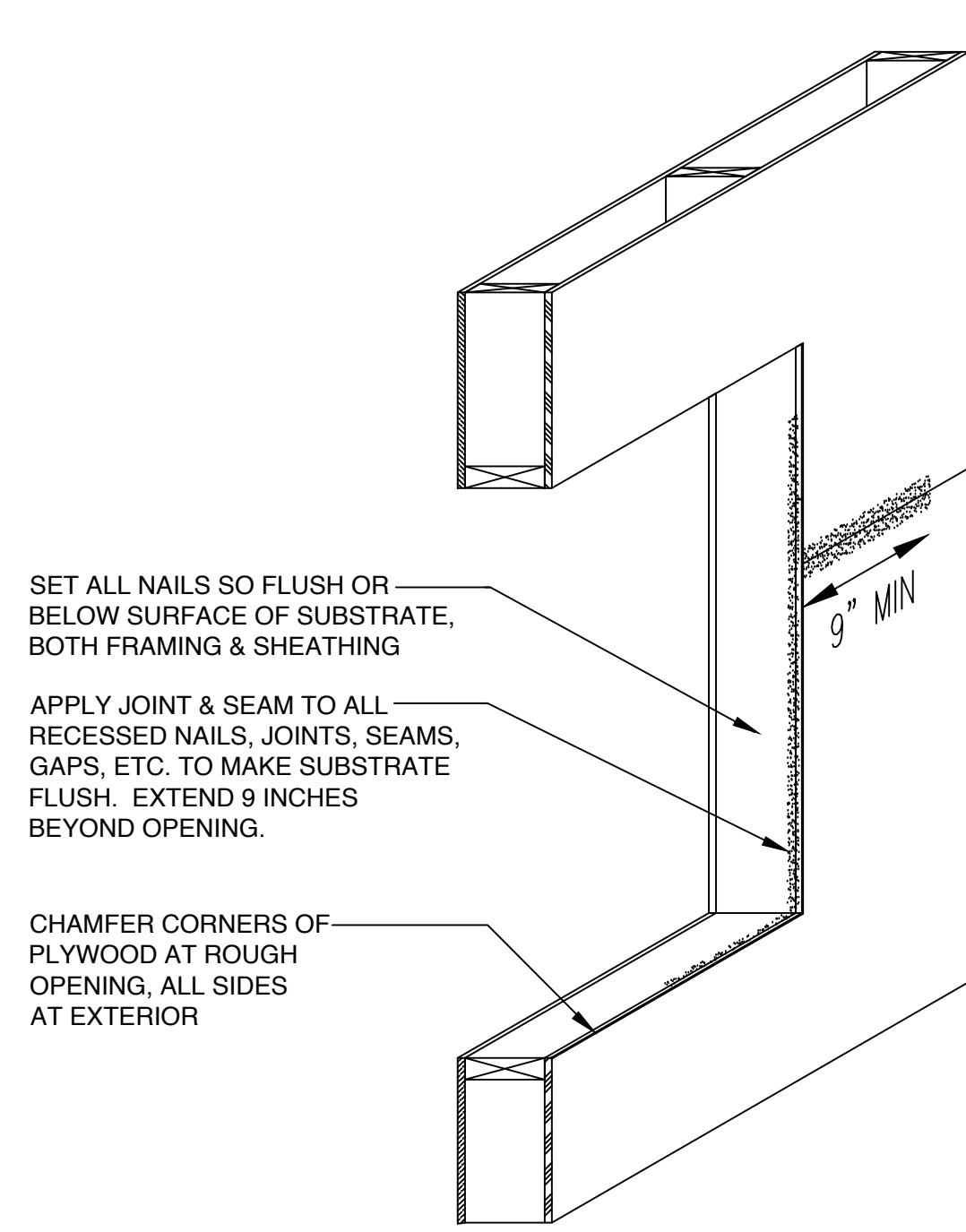
224 Pontius Avenue North Suite 117 Seattle Washington 98109  
Phone 206.328.2886 Fax 206.328.2981

1 CORRECTION #1  
Date: 07/27/2020  
Date: 02/27/2020

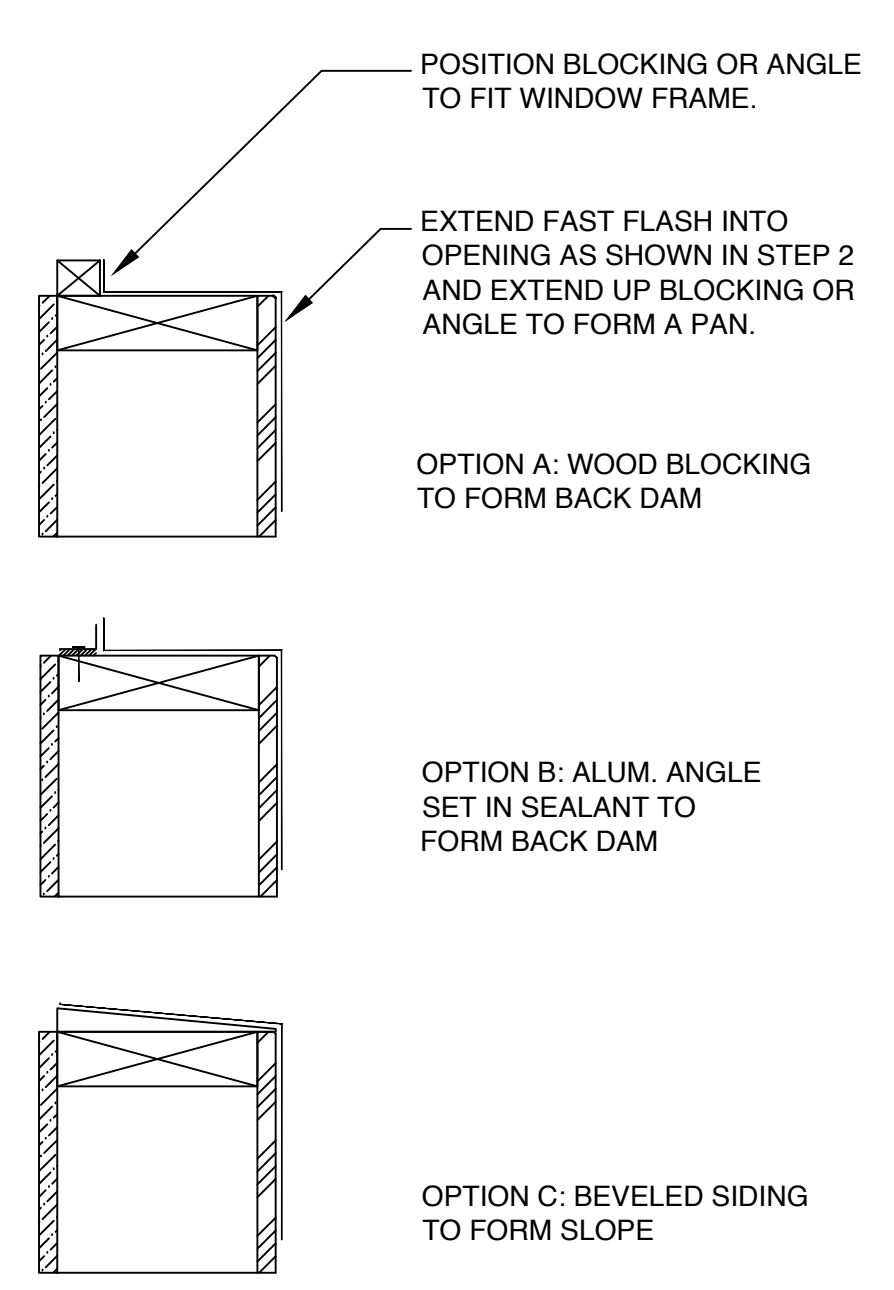
Nader Residence

5472 West Mercer Way  
Mercer Island, WA 98040

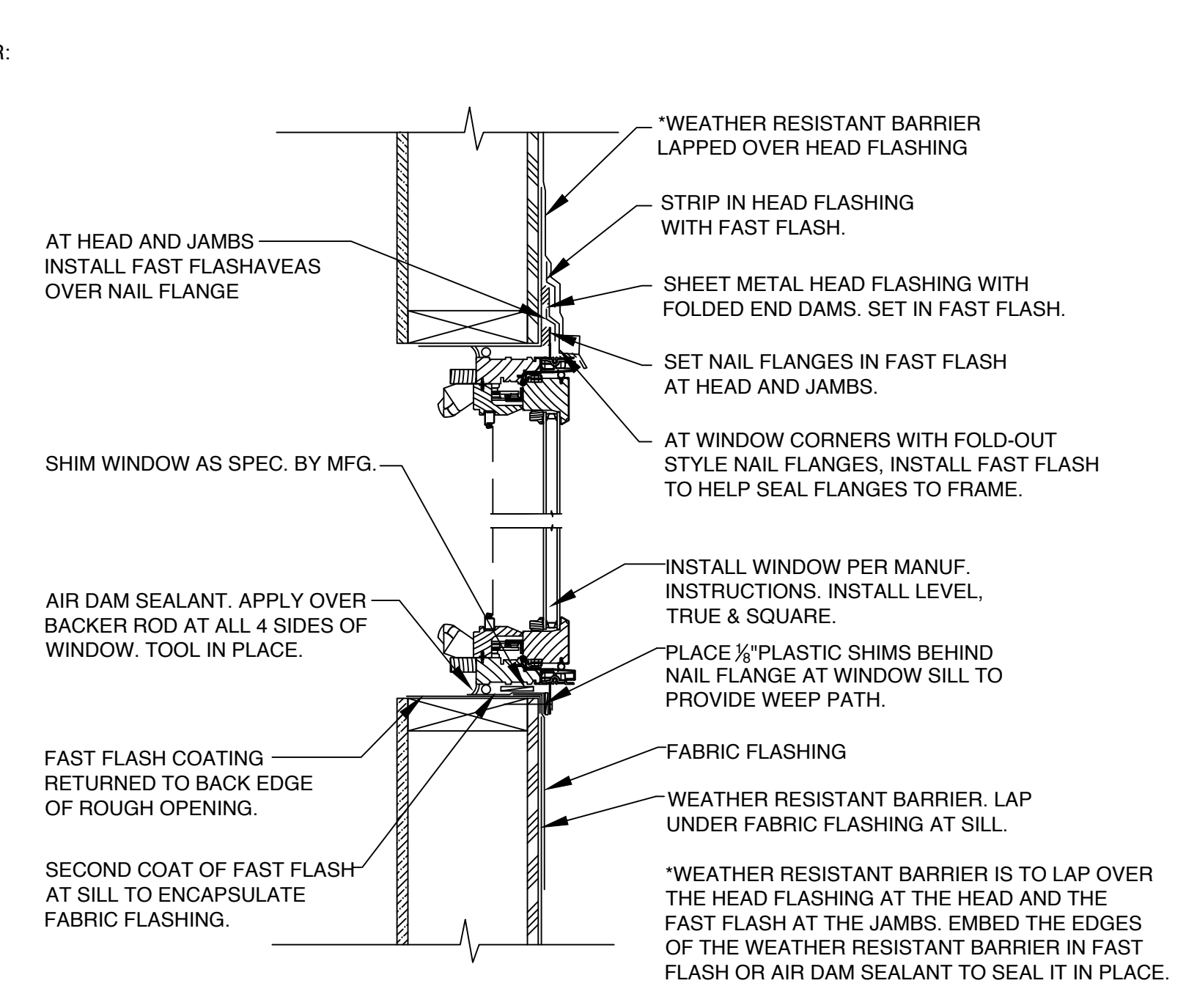
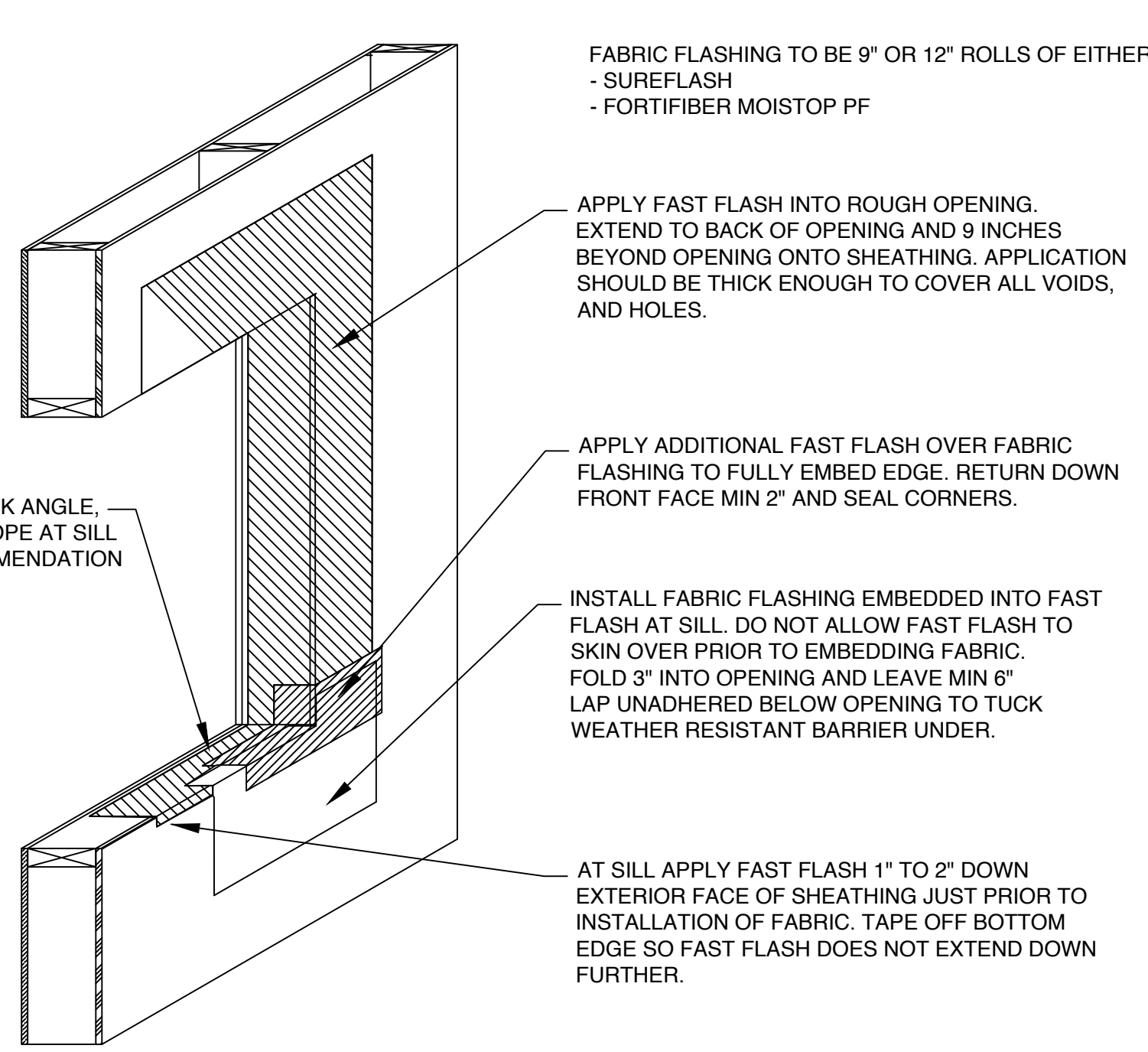
**A11**



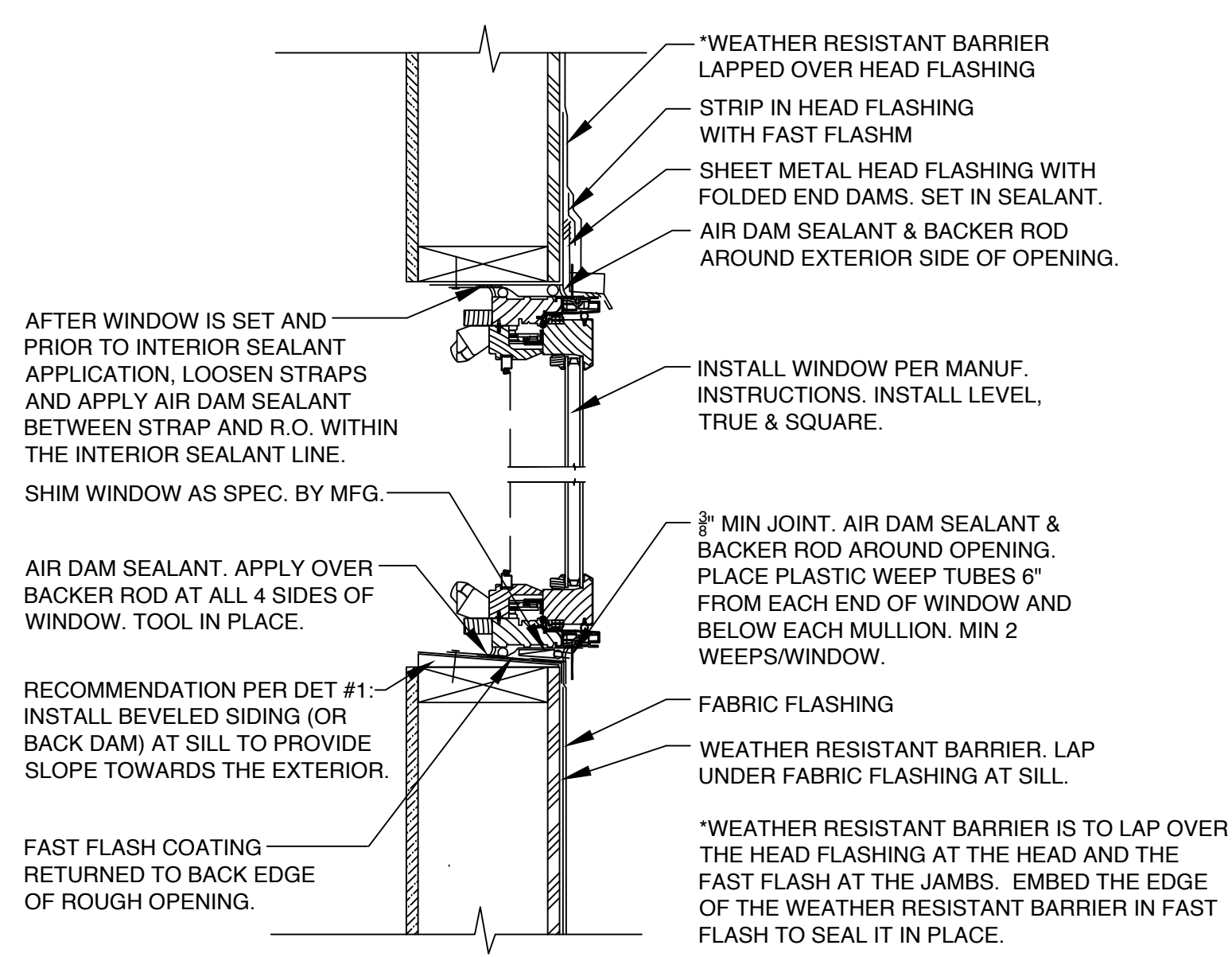
1 PREP OPENING AND APPLY JOINT AND SEAM  
N.T.S.



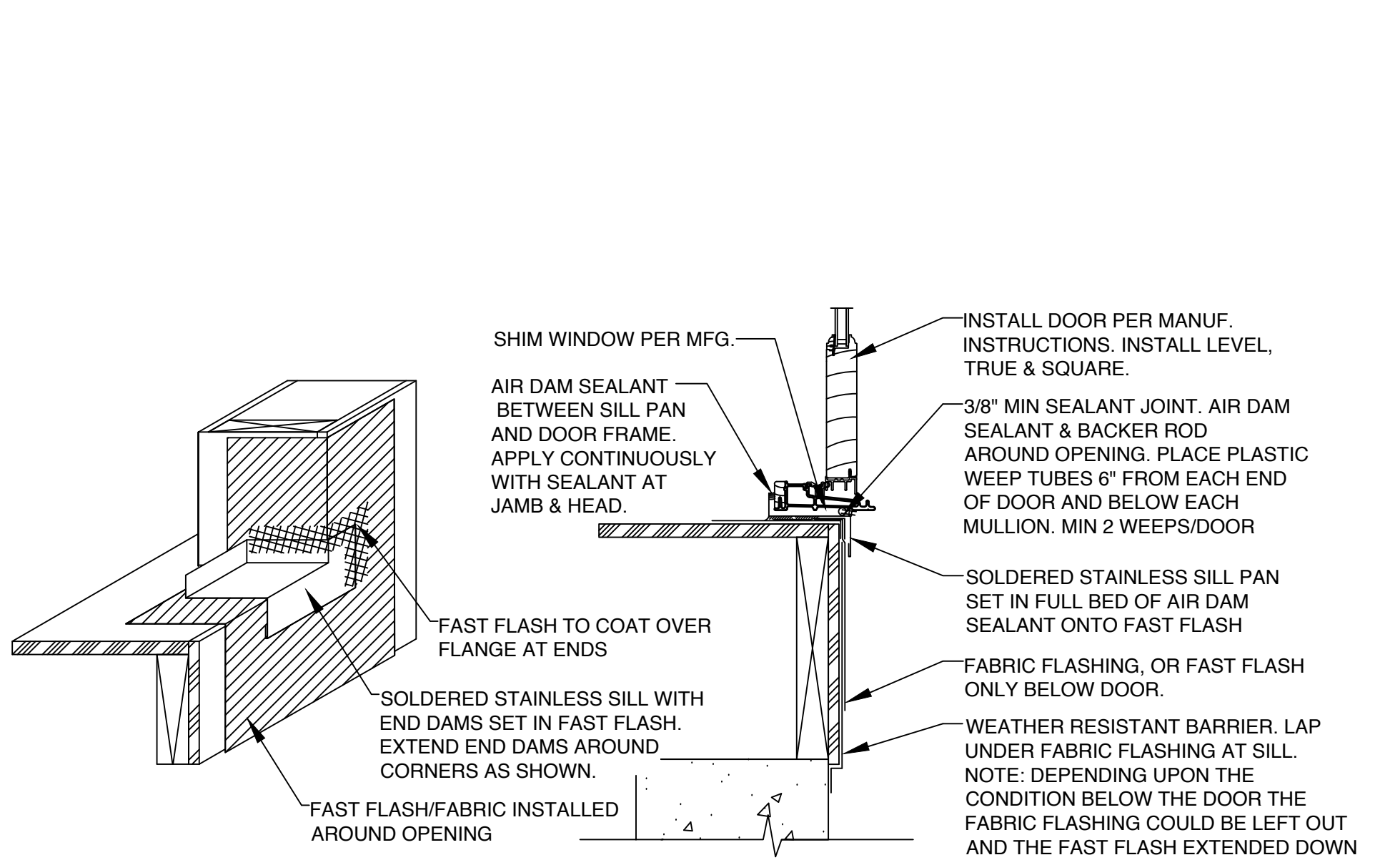
2 COAT OPENING & INSTALL FABRIC AT SILL  
N.T.S.



3A WINDOW INSTALLATION/HEAD FLASHING/WRB  
N.T.S.



3B WINDOW INSTALLATION/HEAD FLASHING/WRB - NO NAIL FLANGE  
N.T.S.



3C DOOR SILL  
N.T.S.

- NOTES:
- ALL STAPLES AND OTHER FASTENERS AT WINDOWS INSTALLATION TO BE CORROSION-RESISTANT (STAINLESS STEEL OR APPROVED EQUAL).
  - WINDOW FLASHING MUST WRAP OPENINGS
  - WINDOW AND DOOR FLASHING AND WATERPROOFING TO BE INSPECTED PRIOR TO INSTALLATION OF UNIT.

5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
PATRICIA LYNN BRENNAN  
STATE OF WASHINGTON

*Patricia Brennan*  
ARCHITECTS

224  
Pontius  
Avenue  
North  
Suite 117  
Seattle  
Washington  
98109  
Phone  
206.328.2886  
Fax  
206.328.2981

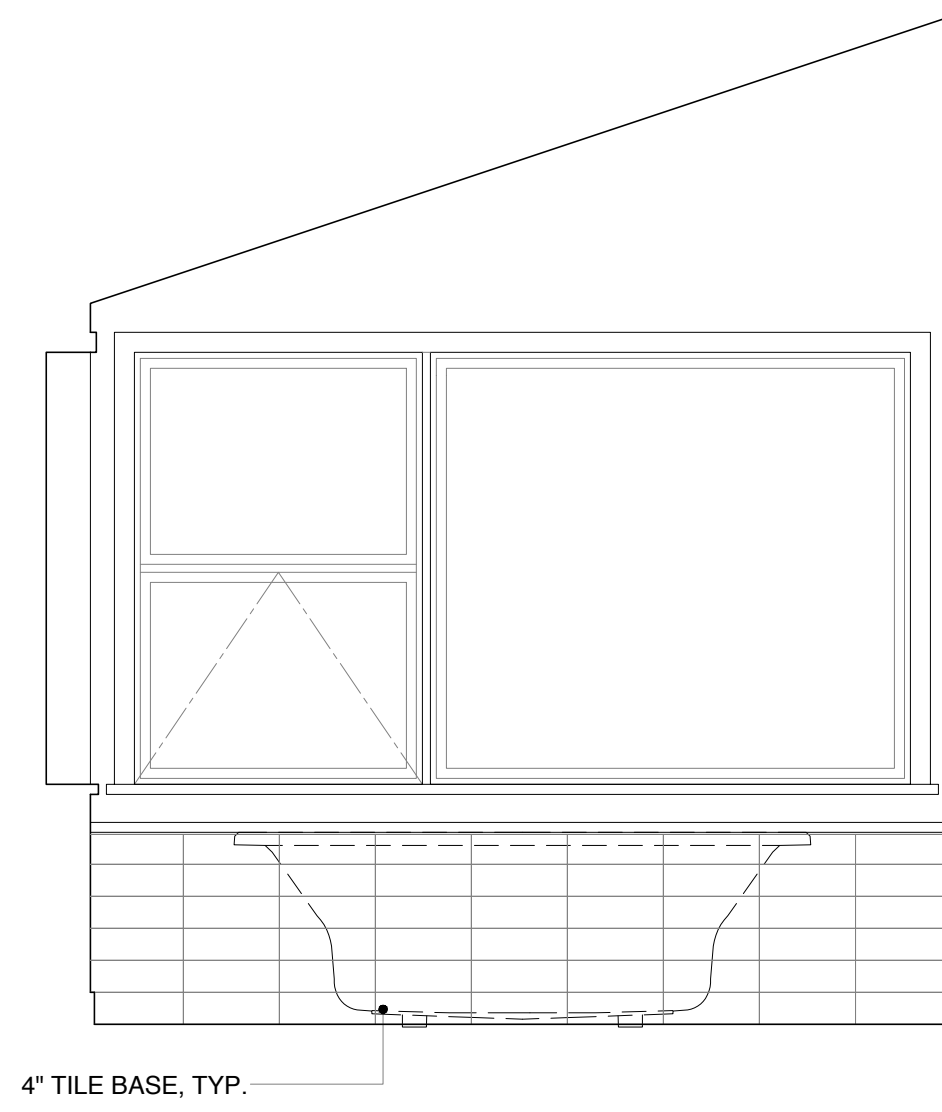
1 CORRECTION #1  
Date: 07/27/2020  
Date: 02/27/2020

WINDOW AND DOOR INSTALLATION DETAILS

Nader Residence

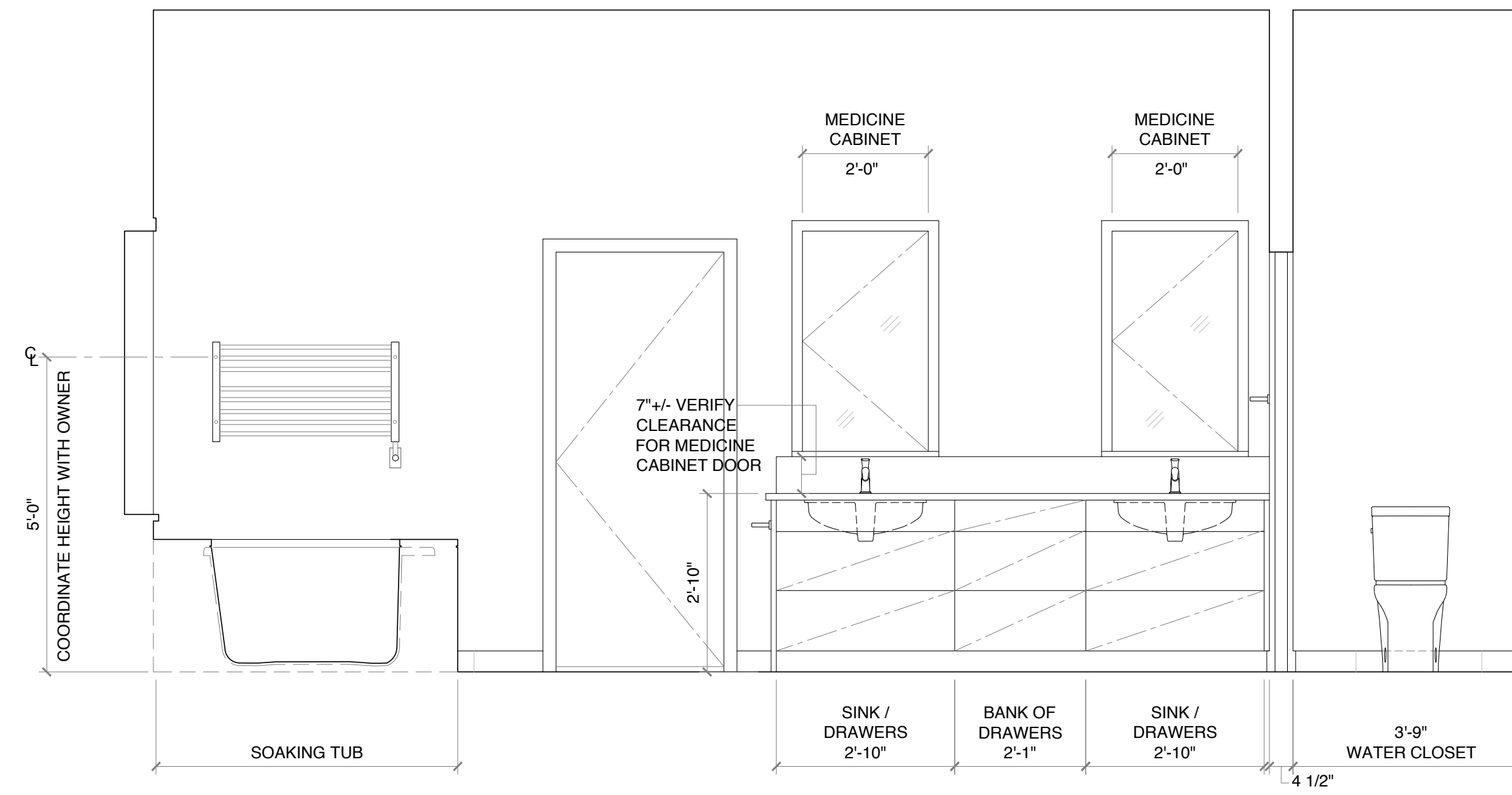
5472 West Mercer Way  
Mercer Island, WA 98040

A12

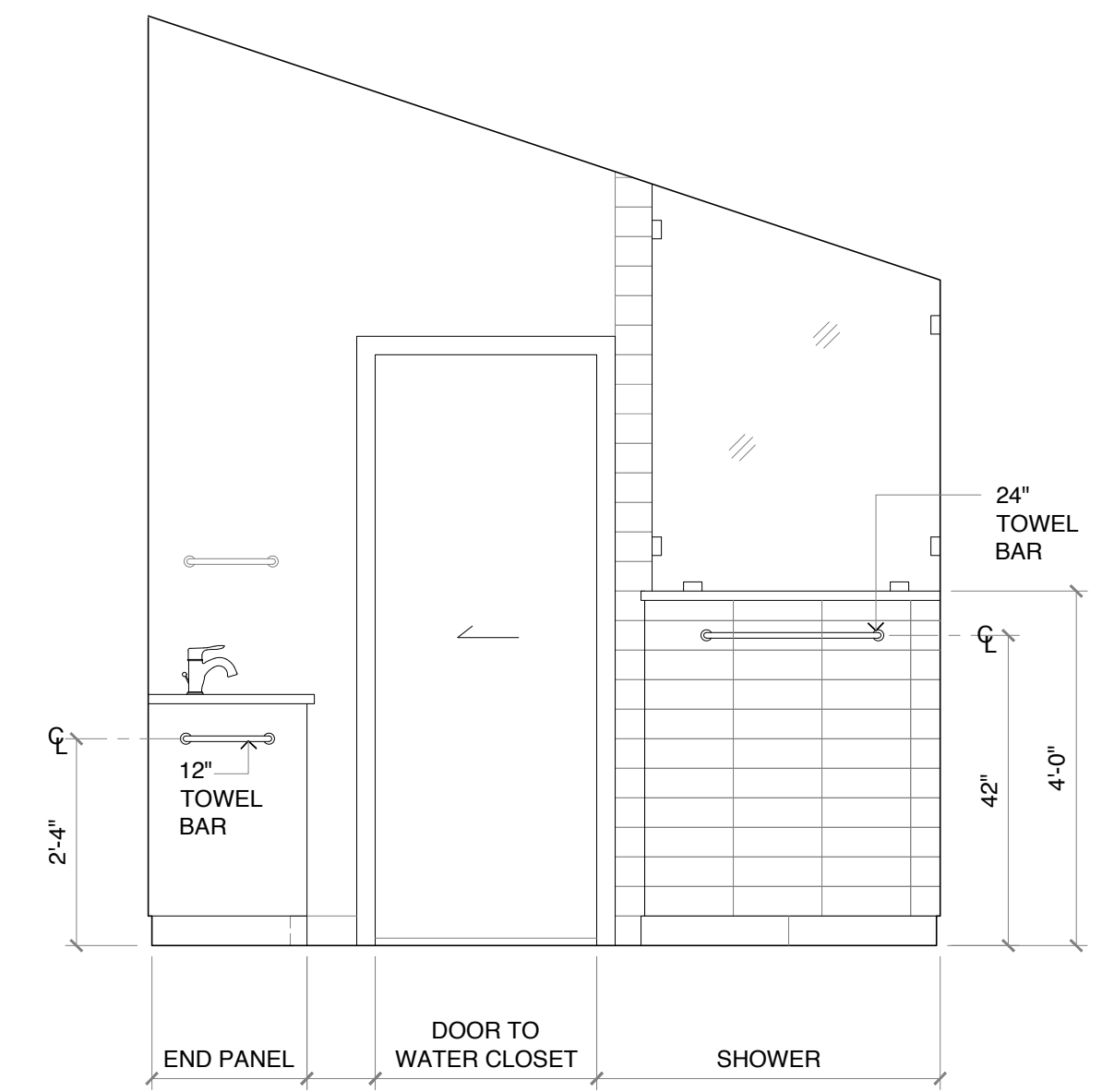


4" TILE BASE, TYP.

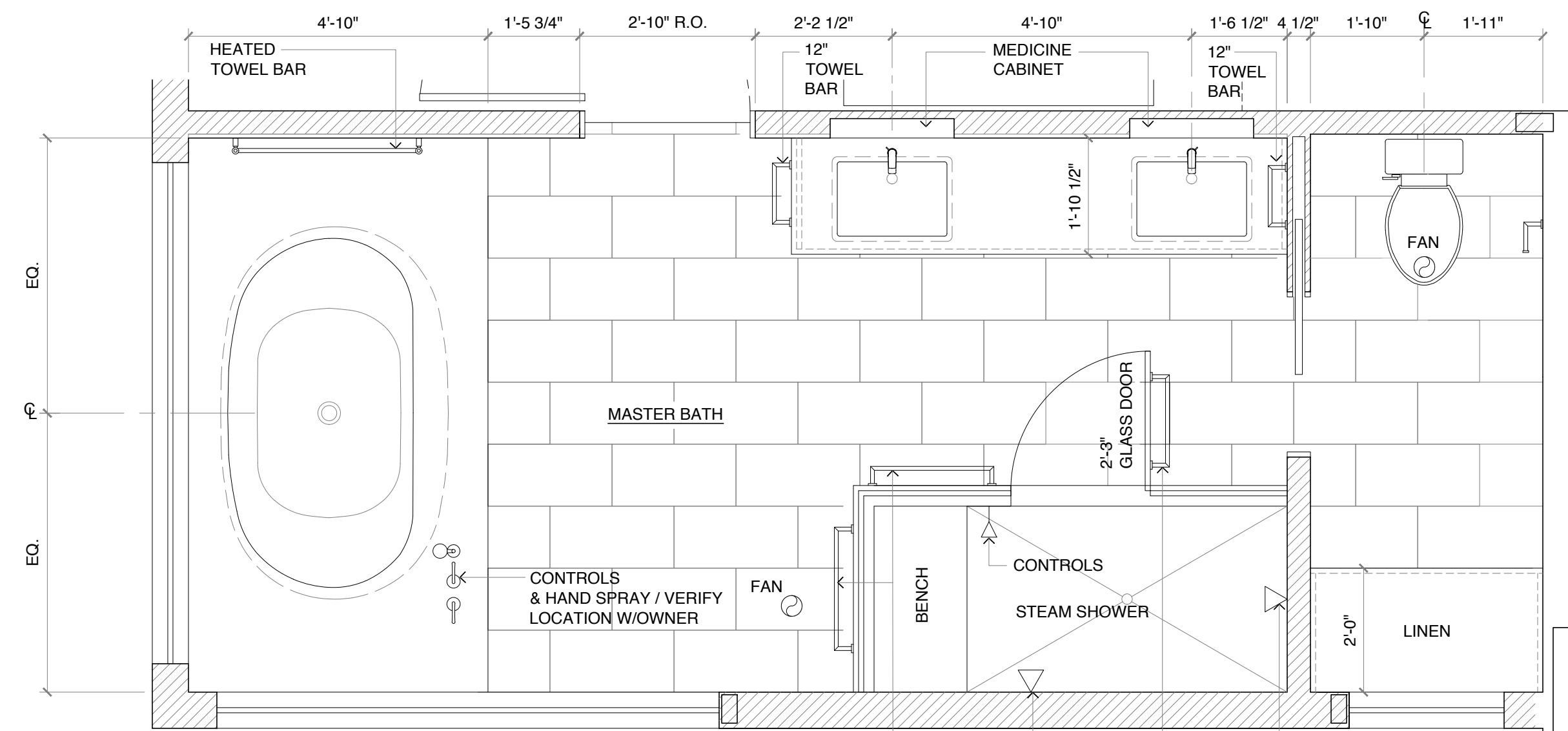
LOOKING WEST 1/2" = 1'-0"



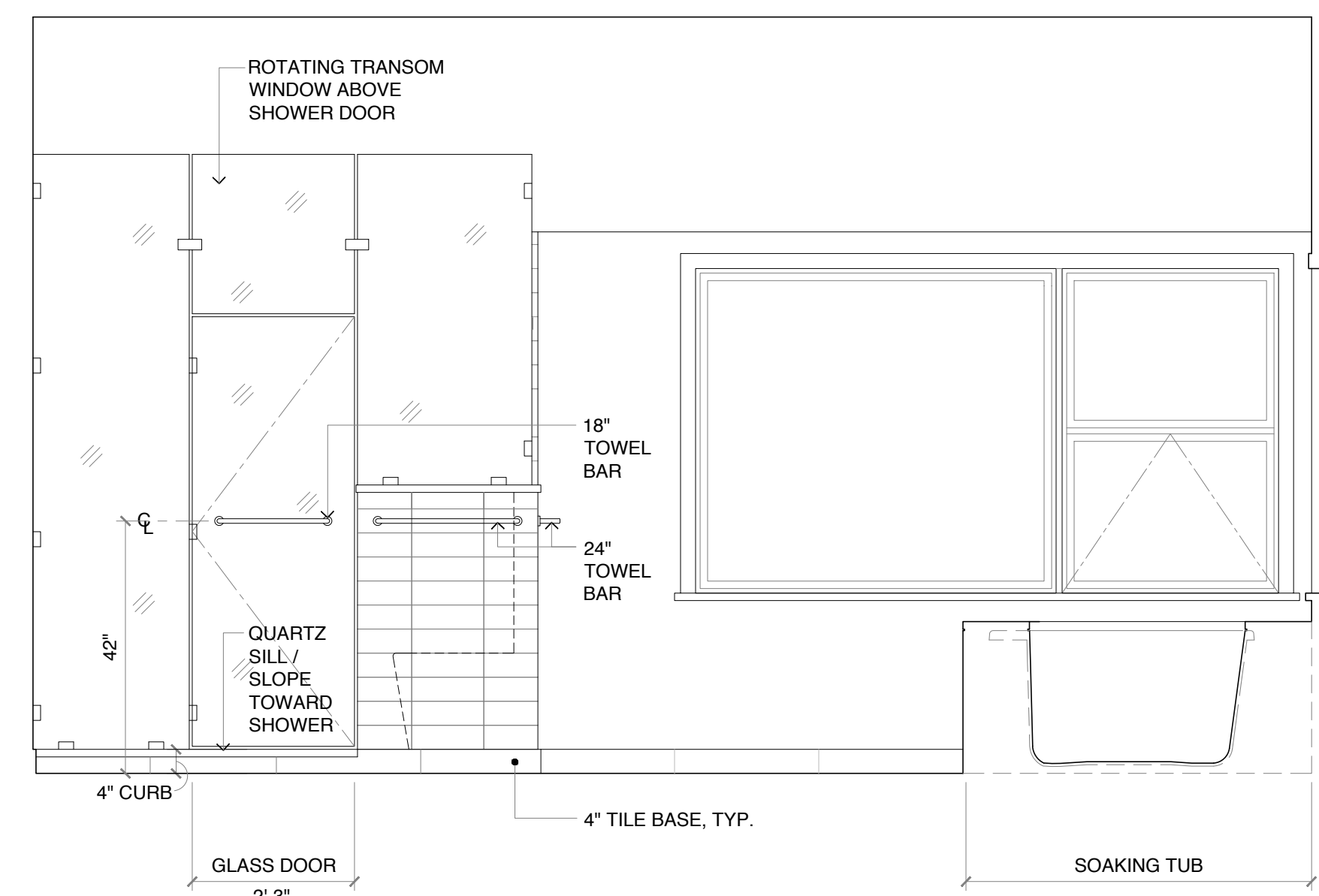
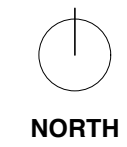
LOOKING NORTH 1/2" = 1'-0"



LOOKING EAST 1/2" = 1'-0"

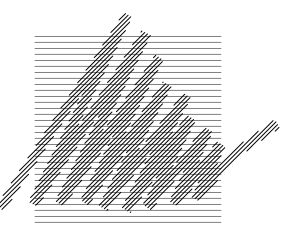


MASTER BATH PLAN  
1/2" = 1'-0"



LOOKING SOUTH 1/2" = 1'-0"

5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
PATRICIA LYNN BRENNAN  
STATE OF WASHINGTON



Patricia Brennan  
ARCHITECTS

224  
Pontius  
Avenue  
North  
Suite 117  
Seattle  
Washington  
98109

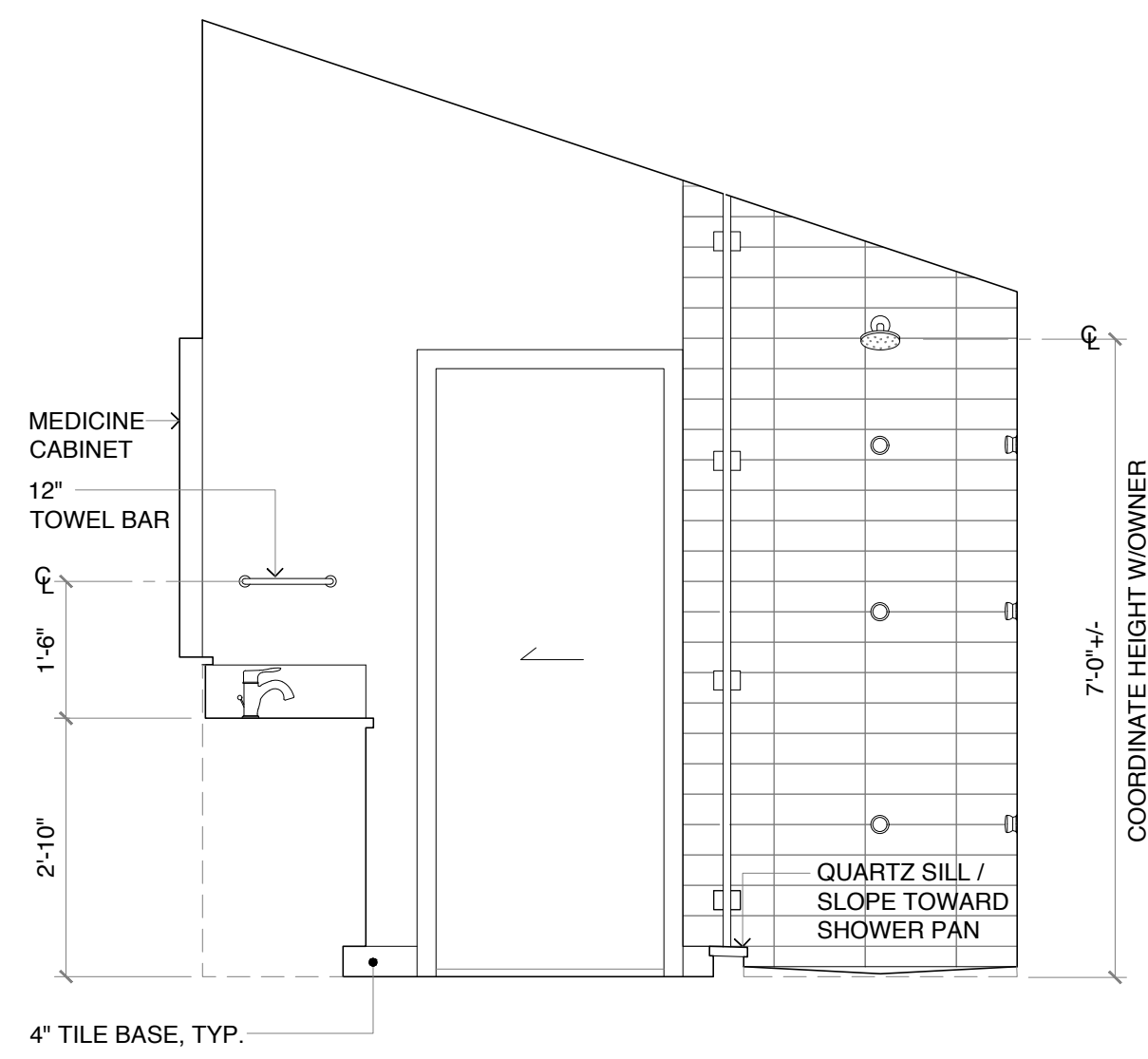
Phone  
206.328.2886  
Fax  
206.328.2981

△ CORRECTION #1  
Date: 07/27/2020  
Date: 02/27/2020

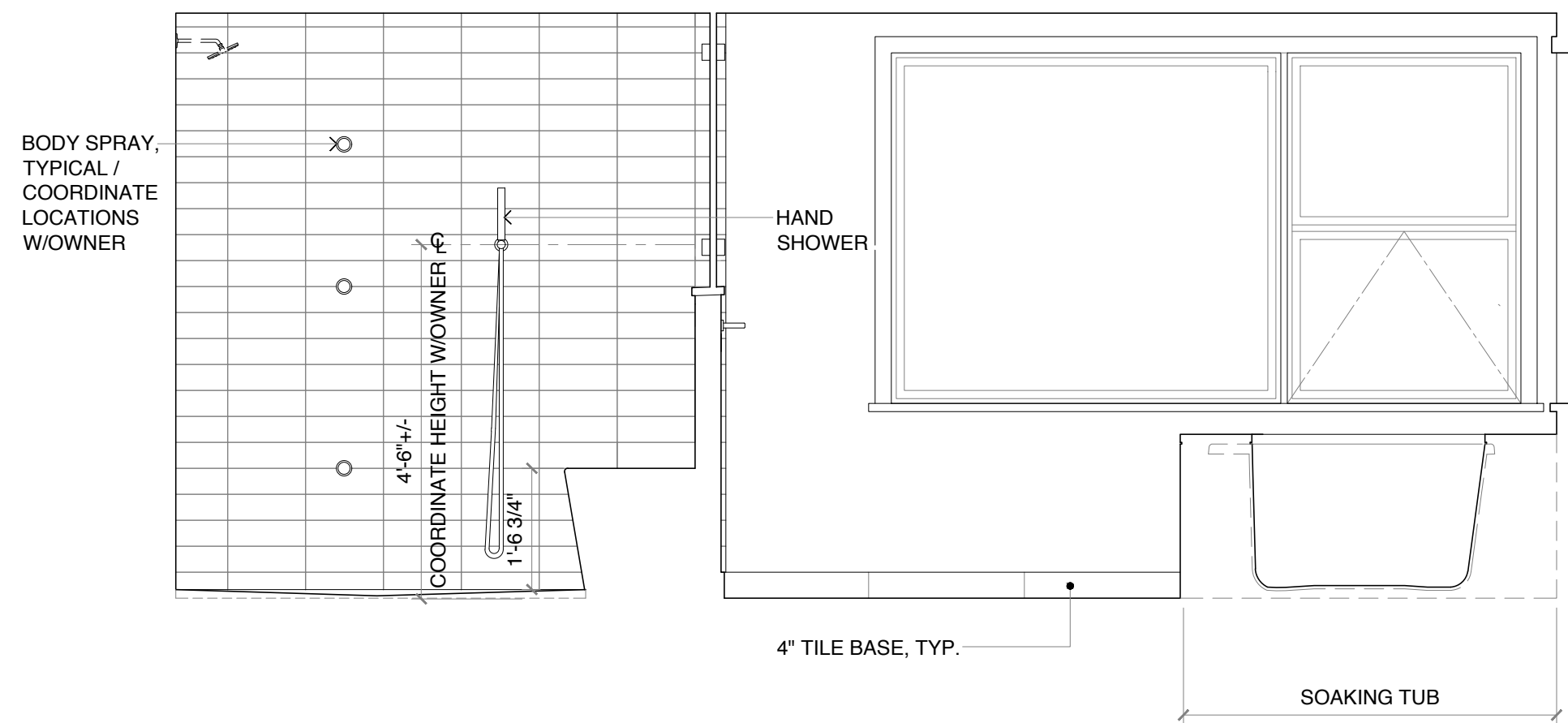
Nader Residence

5472 West Mercer Way  
Mercer Island, WA 98040

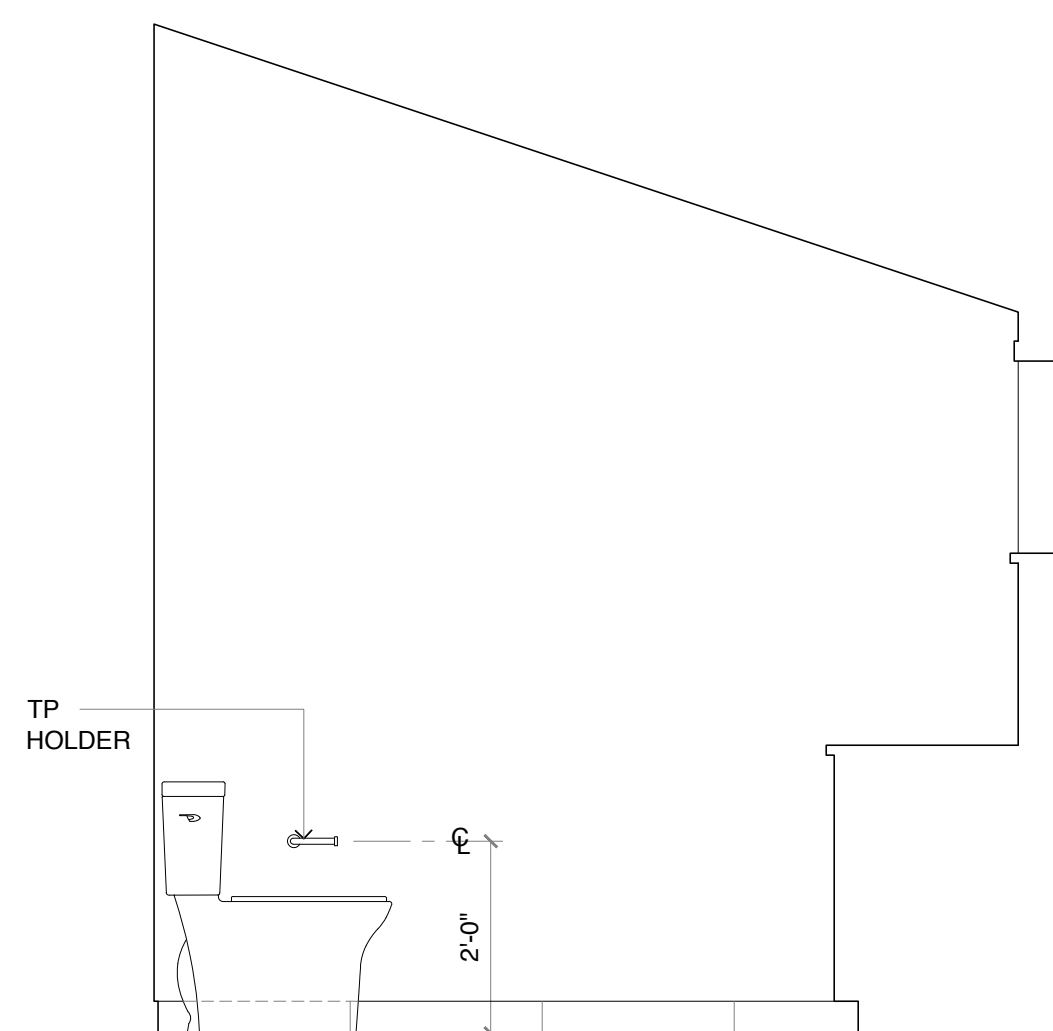
A13



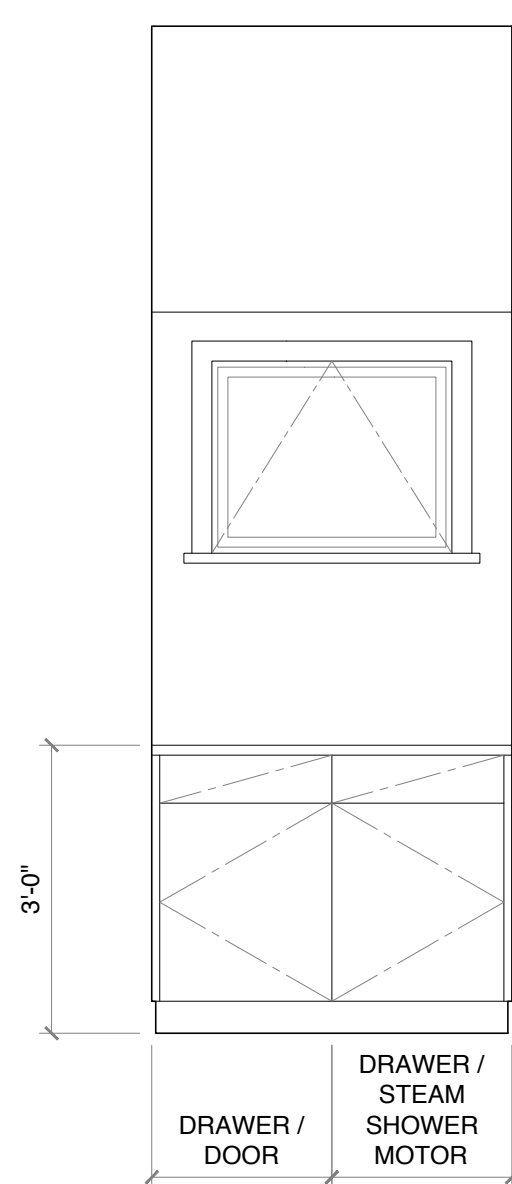
LOOKING EAST 1/2" = 1'-0"



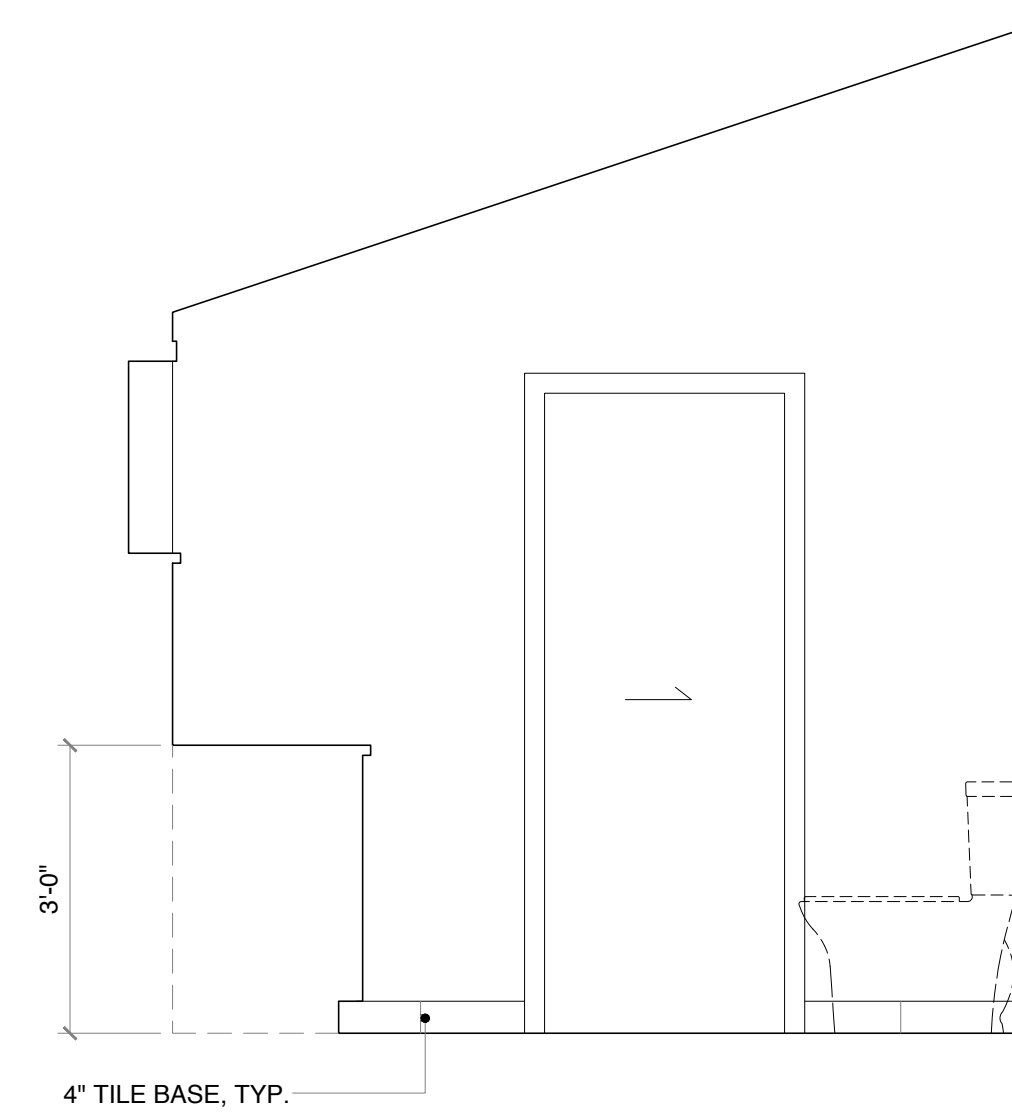
LOOKING SOUTH 1/2" = 1'-0"



LOOKING EAST 1/2" = 1'-0"



LOOKING SOUTH 1/2" = 1'-0"



LOOKING WEST 1/2" = 1'-0"

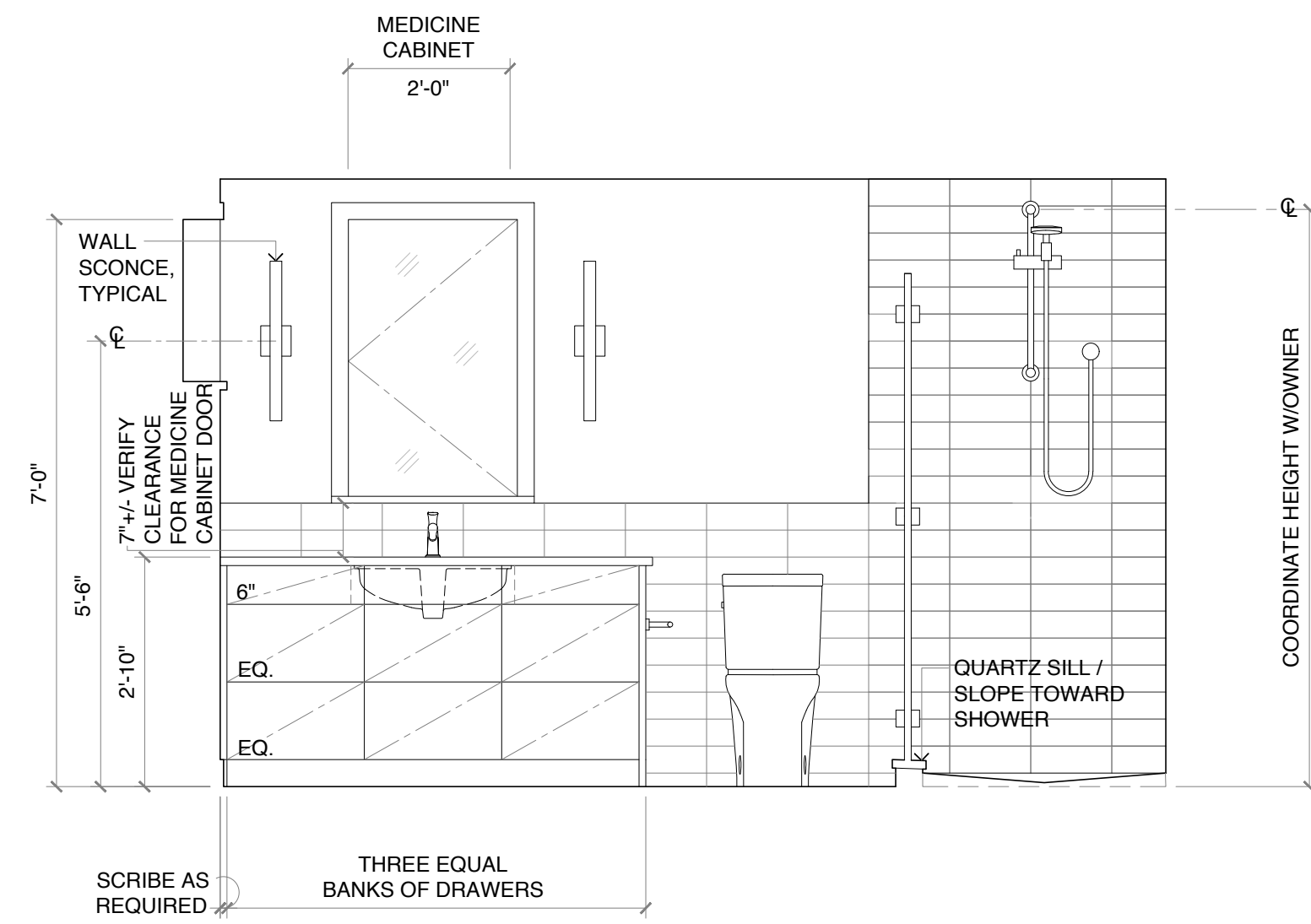
5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
 PATRICIA LYNN BRENNAN  
 STATE OF WASHINGTON

*Patricia Brennan*  
 ARCHITECTS

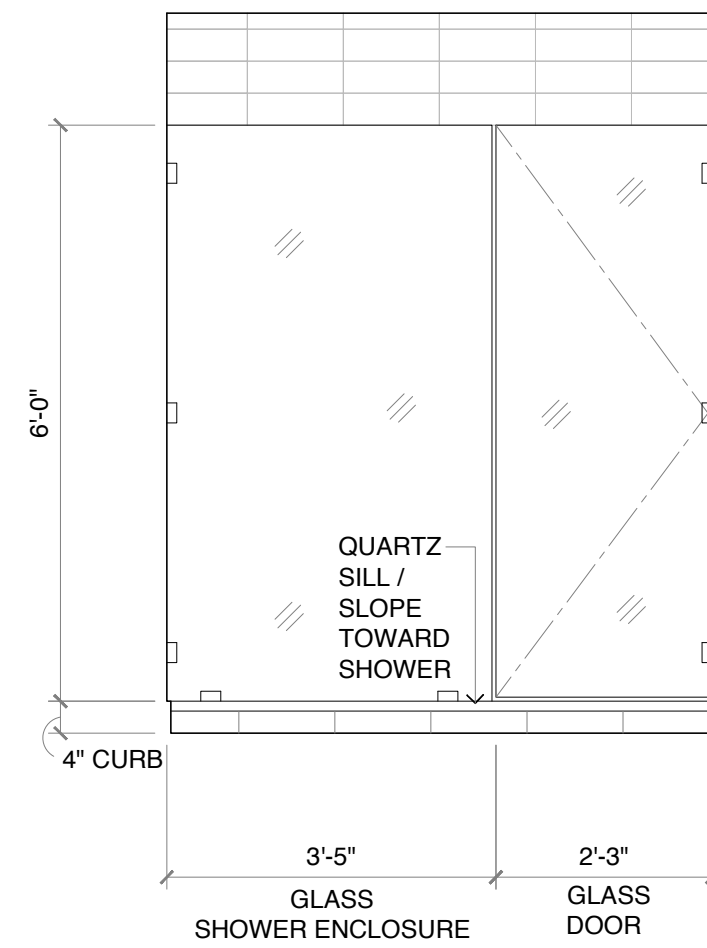
224  
 Pontius  
 Avenue  
 North  
 Suite 117  
 Seattle  
 Washington  
 98109

Phone  
 206.328.2886  
 Fax  
 206.328.2981

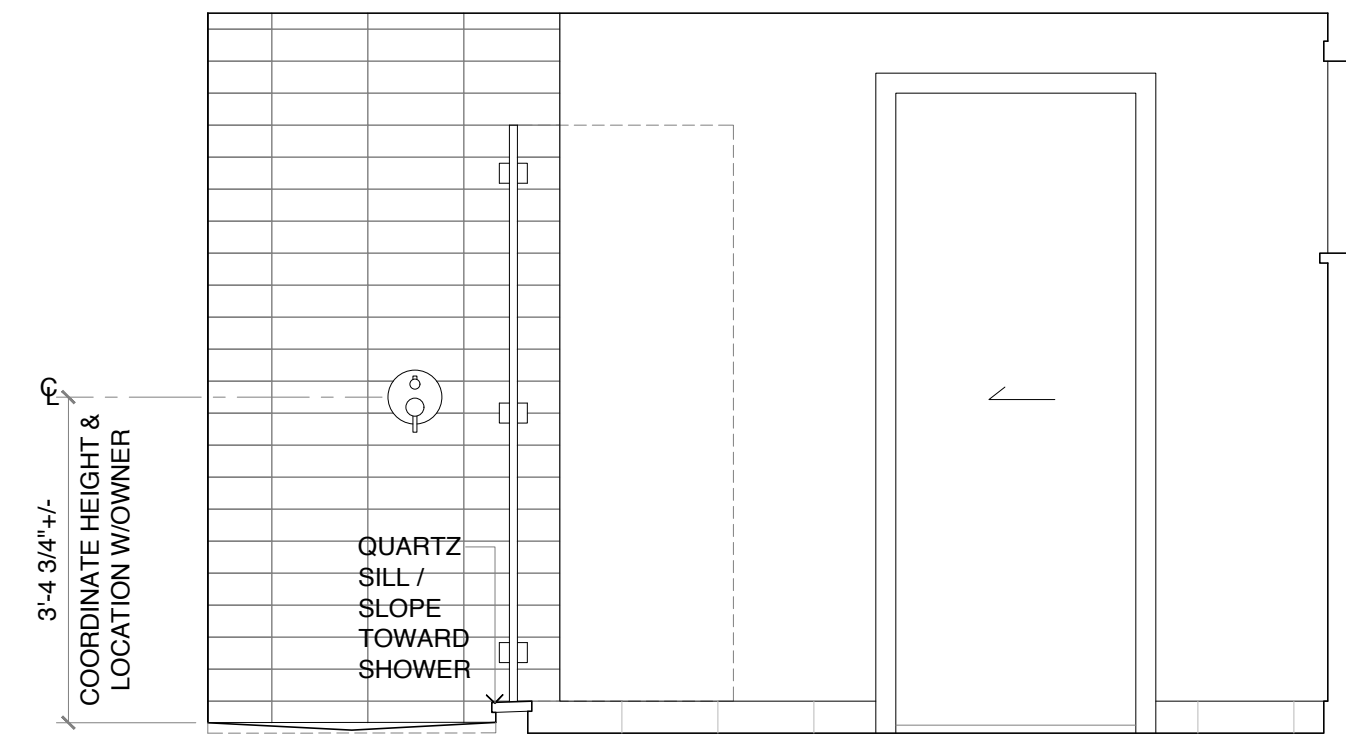
△ CORRECTION #1  
 Date: 07/27/2020  
 Date: 02/27/2020



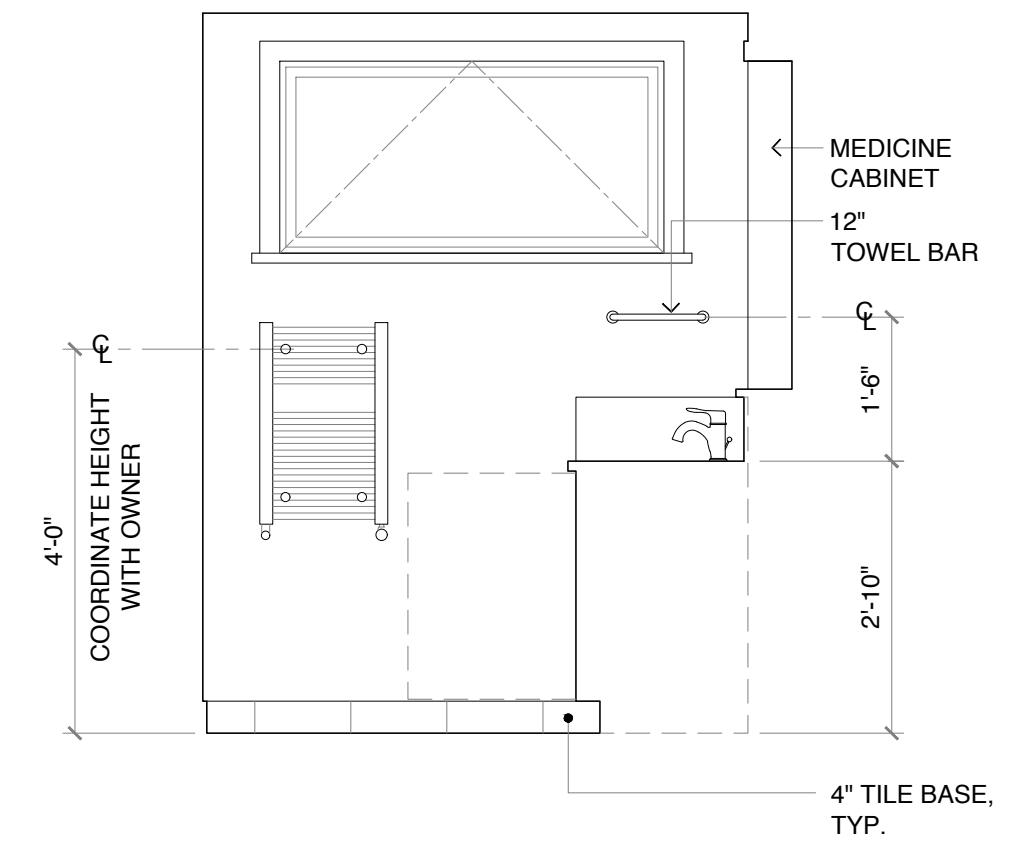
LOOKING WEST



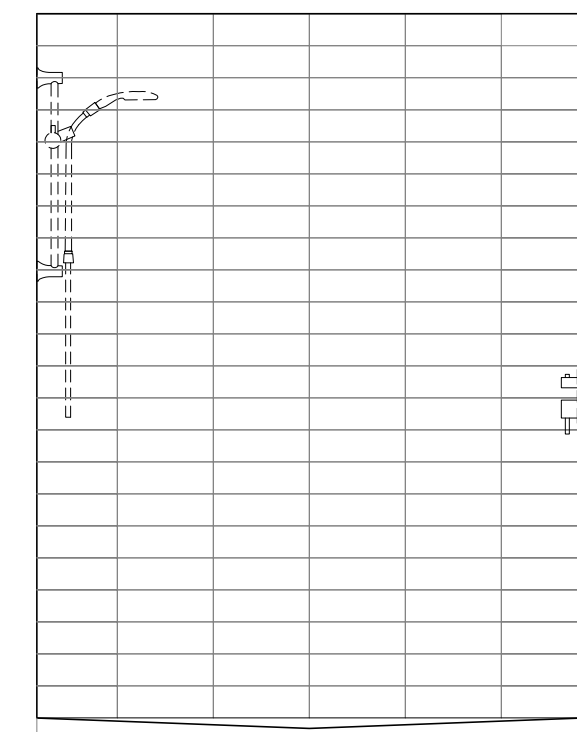
LOOKING NORTH



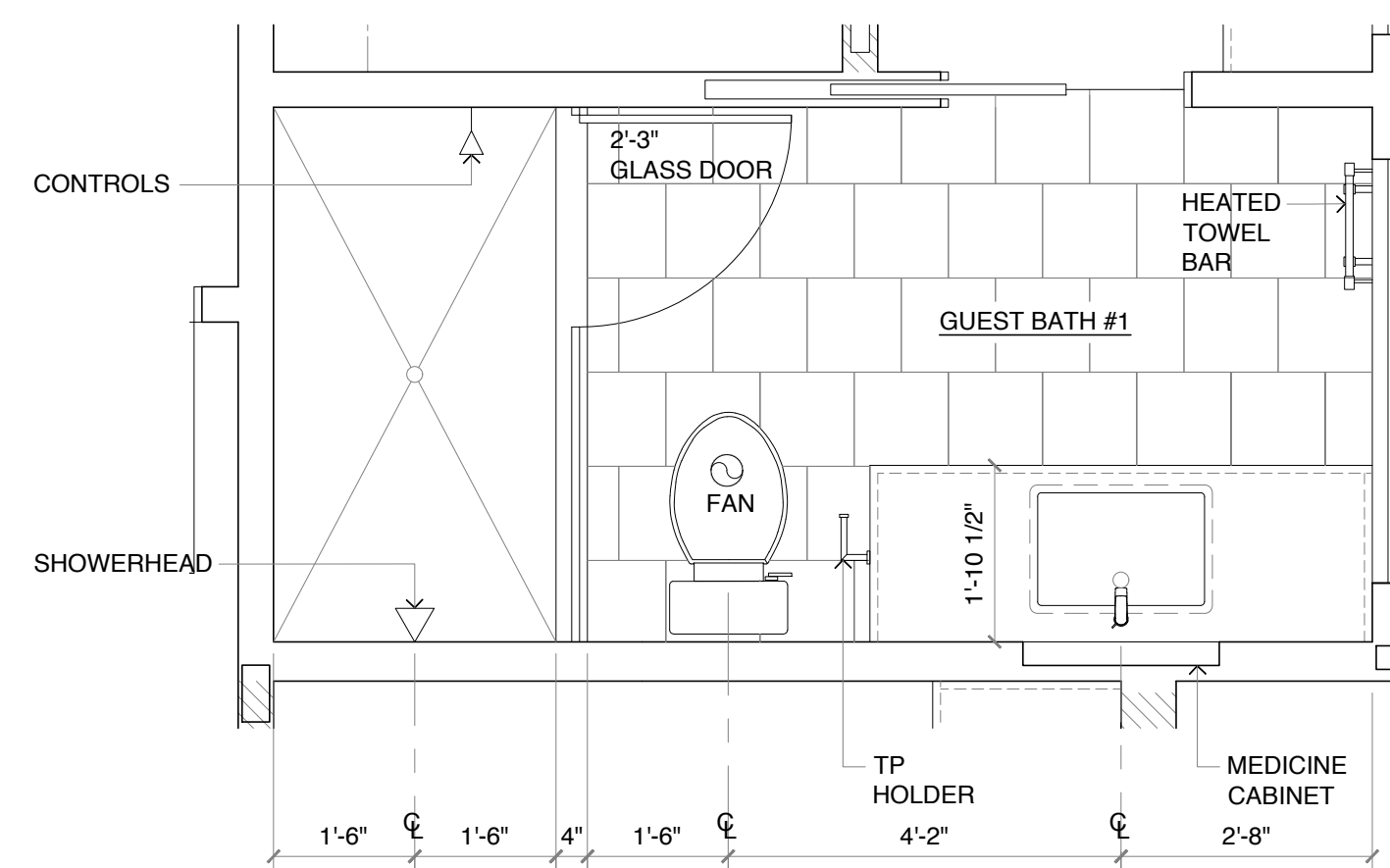
LOOKING EAST



LOOKING SOUTH



LOOKING NORTH



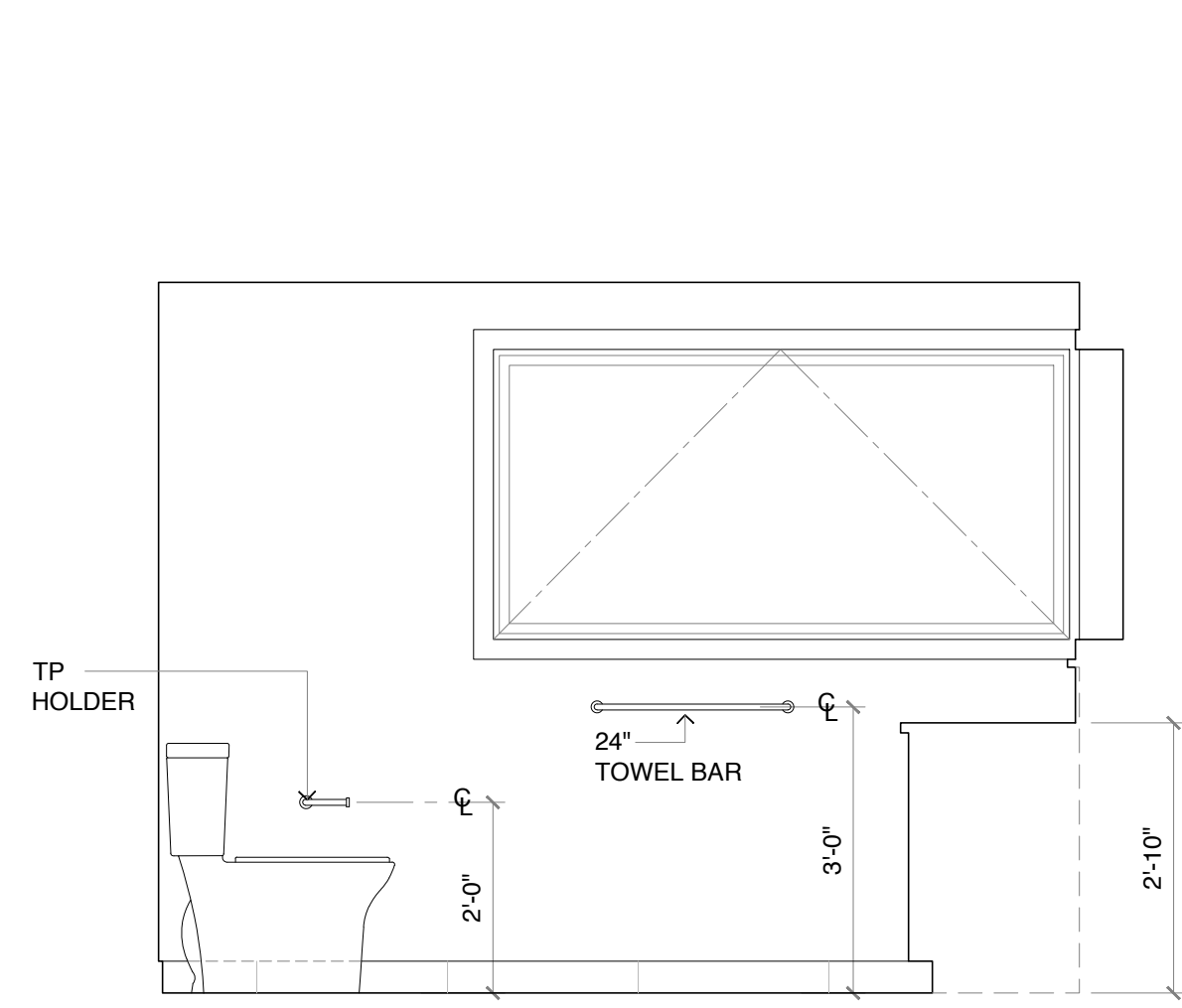
GUEST BATH #1 PLAN  
1/2" = 1'-0"

5805 REGISTERED ARCHITECT  
*Patricia Brennan*  
PATRICIA LYNN BRENNAN  
STATE OF WASHINGTON

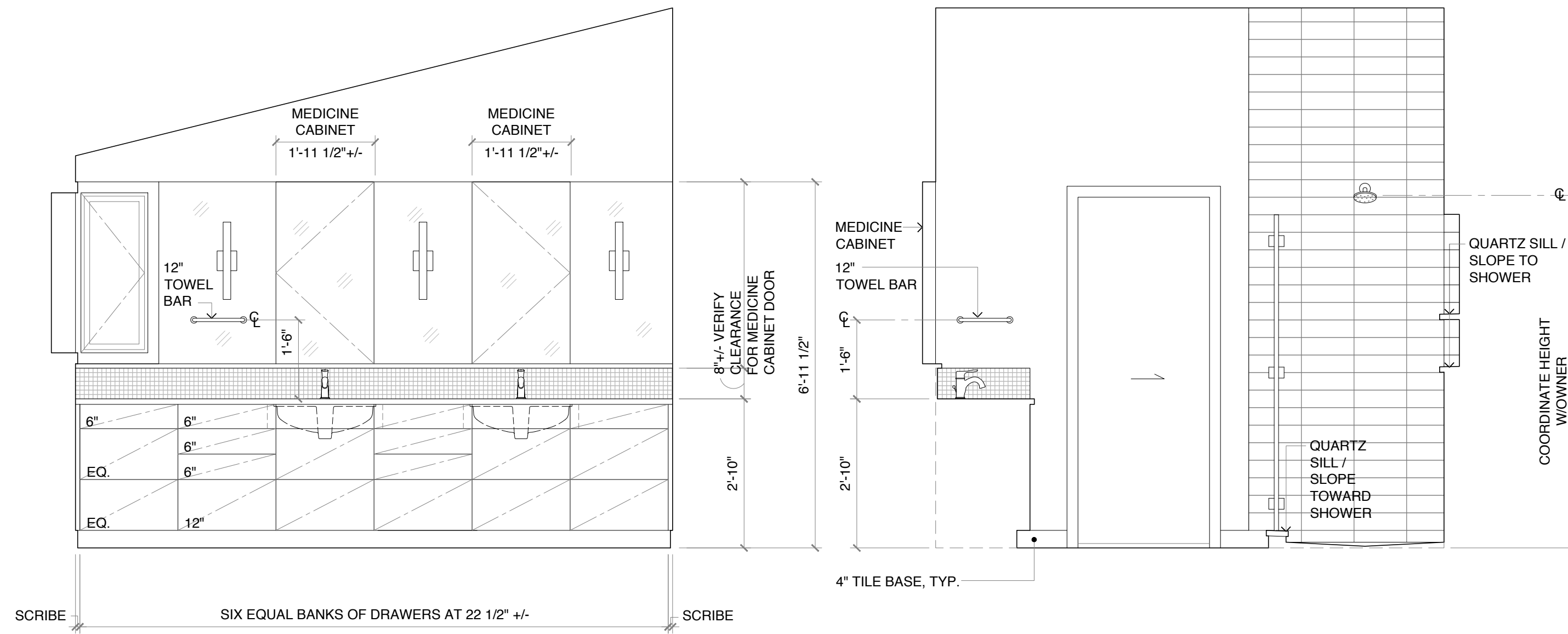
*Patricia Brennan*  
ARCHITECTS

224  
Pontius  
Avenue  
North  
Suite 117  
Seattle  
Washington  
98109  
Phone  
206.328.2886  
Fax  
206.328.2981

CORRECTION #1  
Date: 07/27/2020  
Date: 02/27/2020

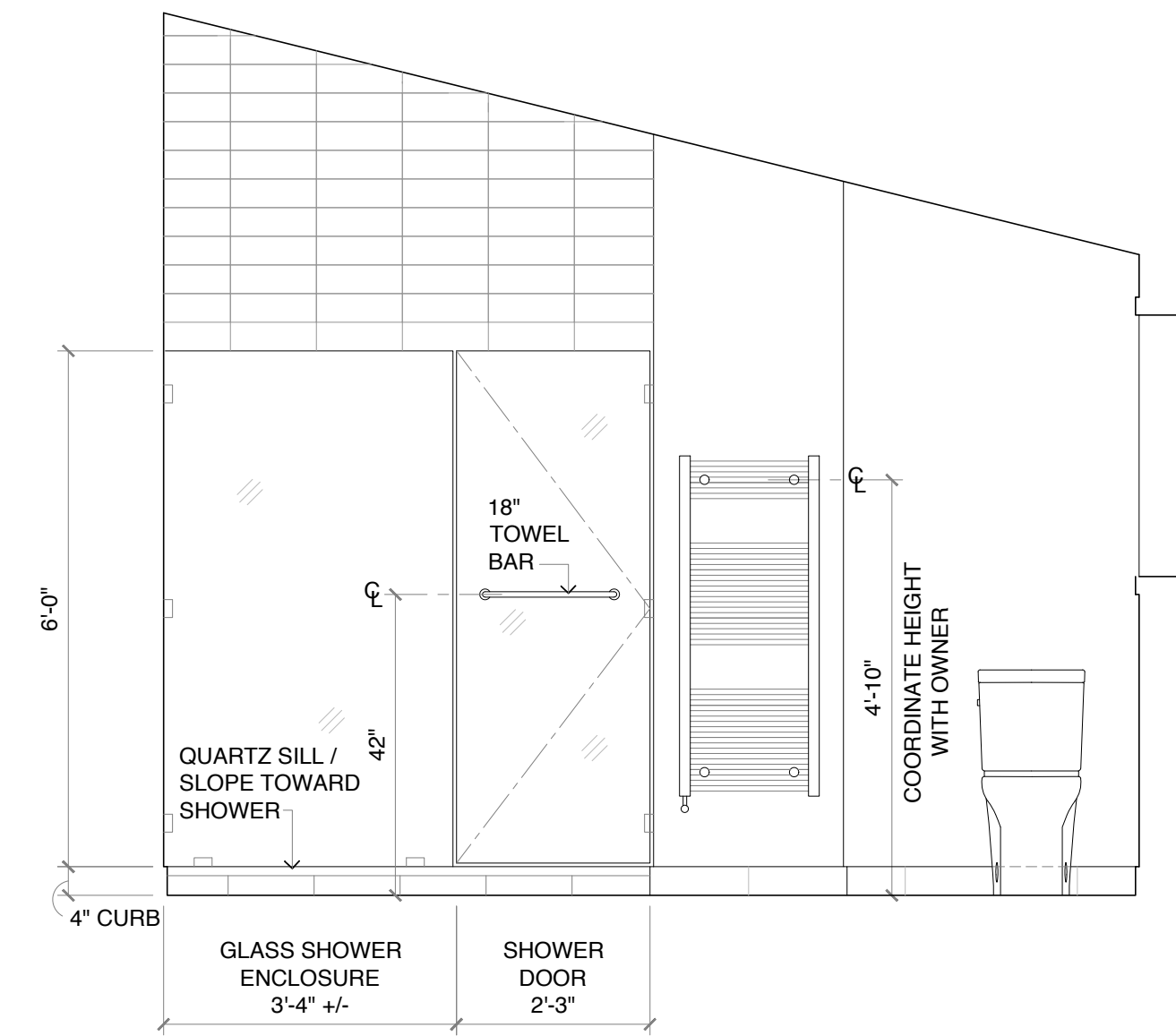


LOOKING WEST

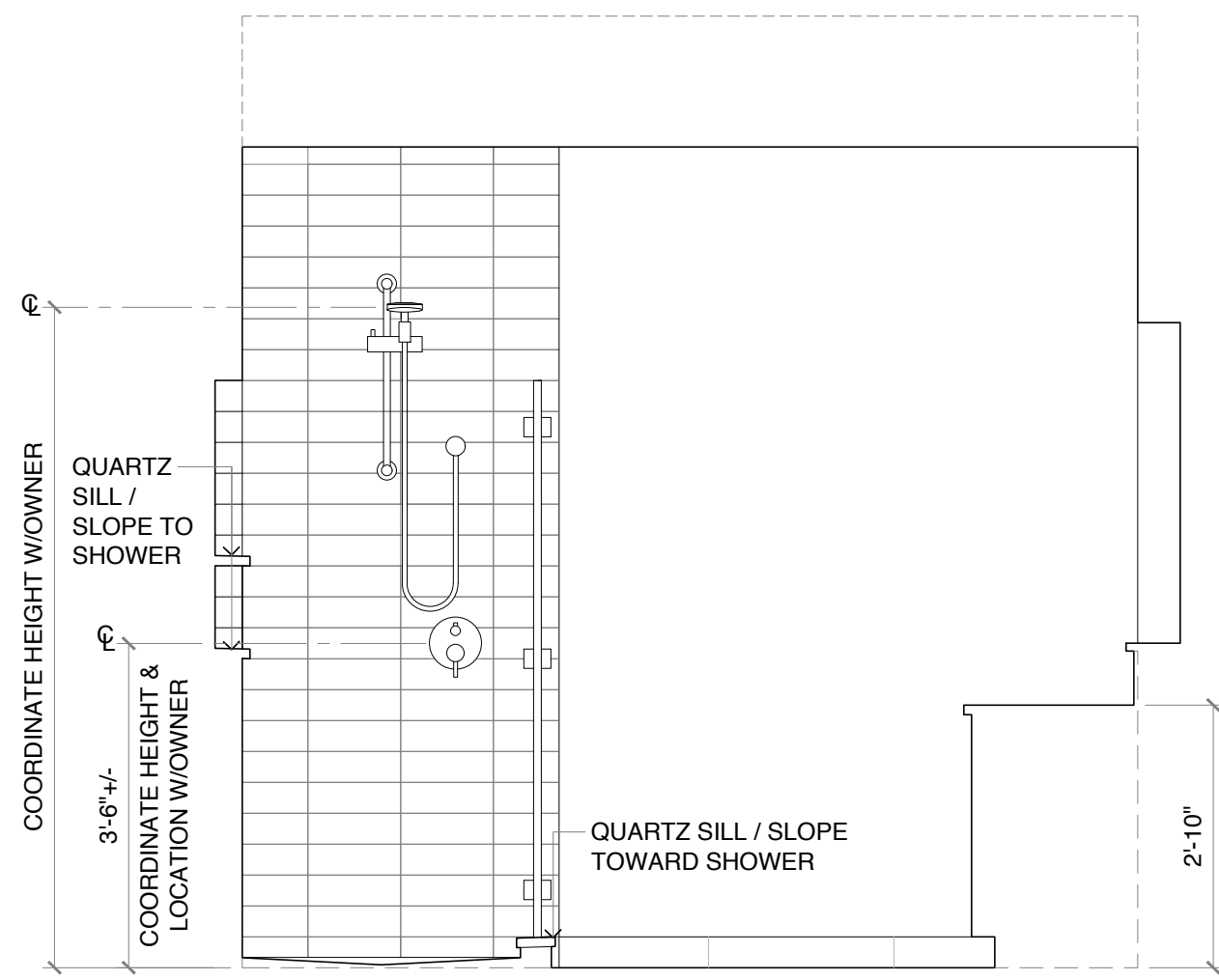


LOOKING NORTH

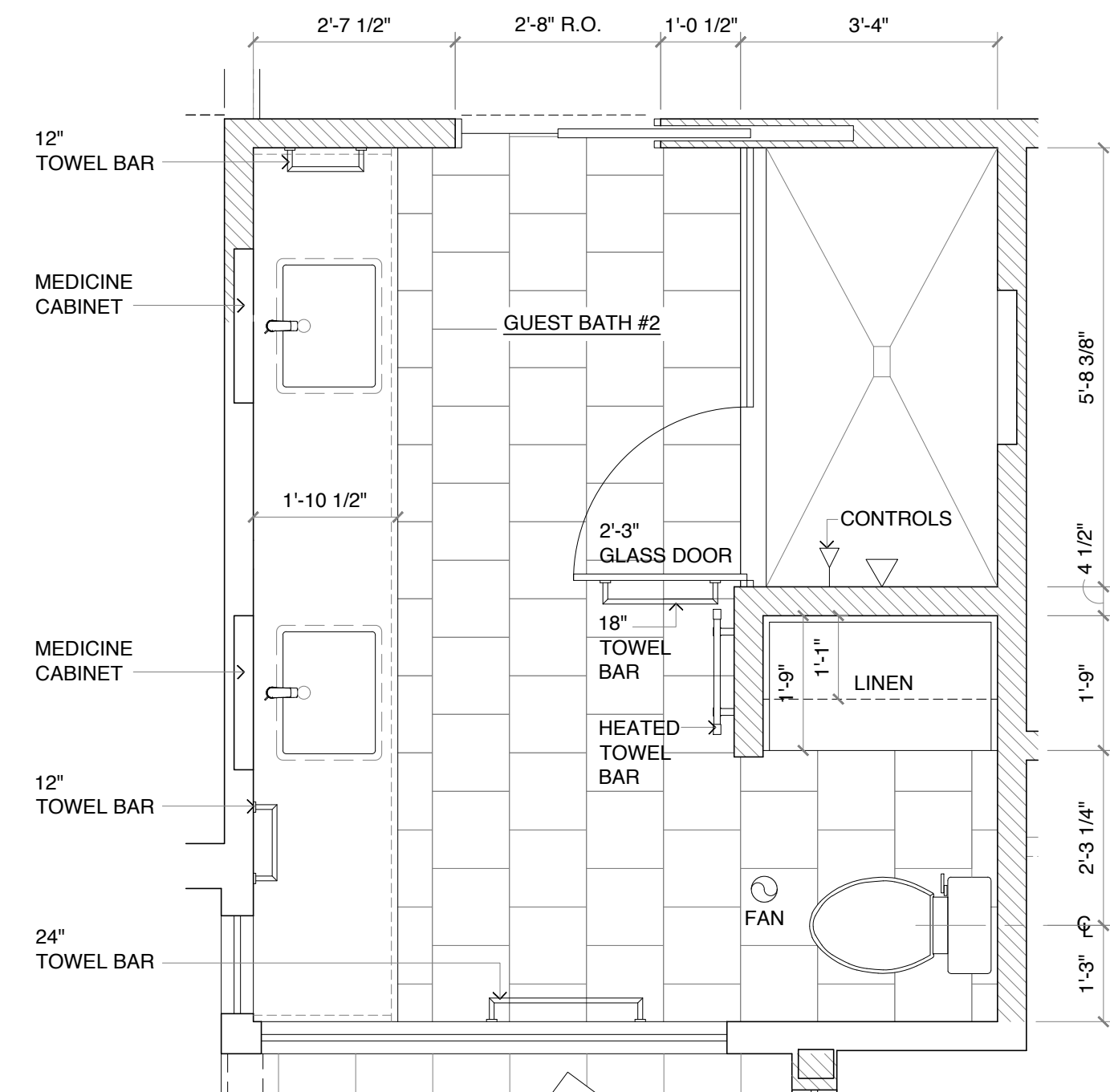
LOOKING EAST



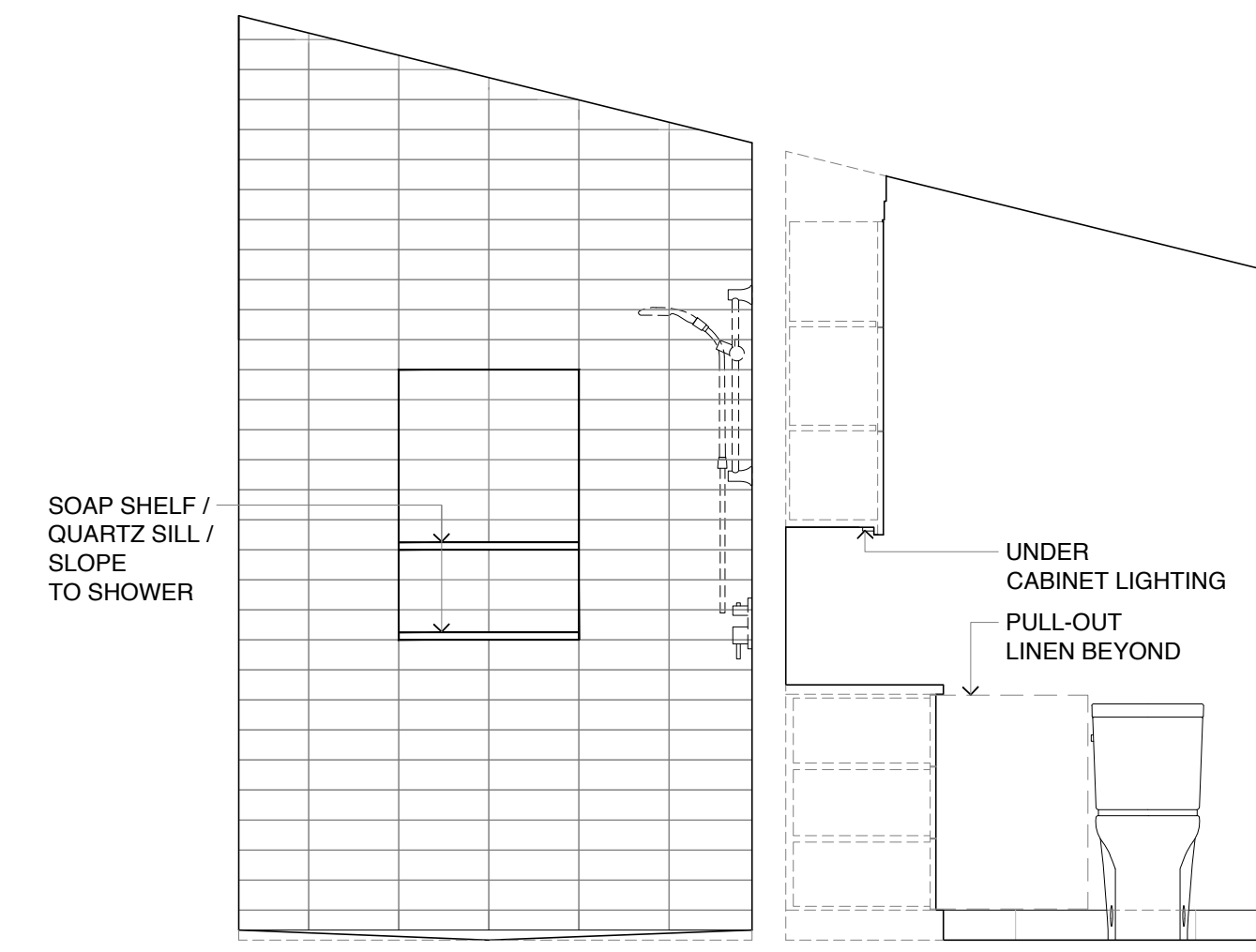
LOOKING SOUTH



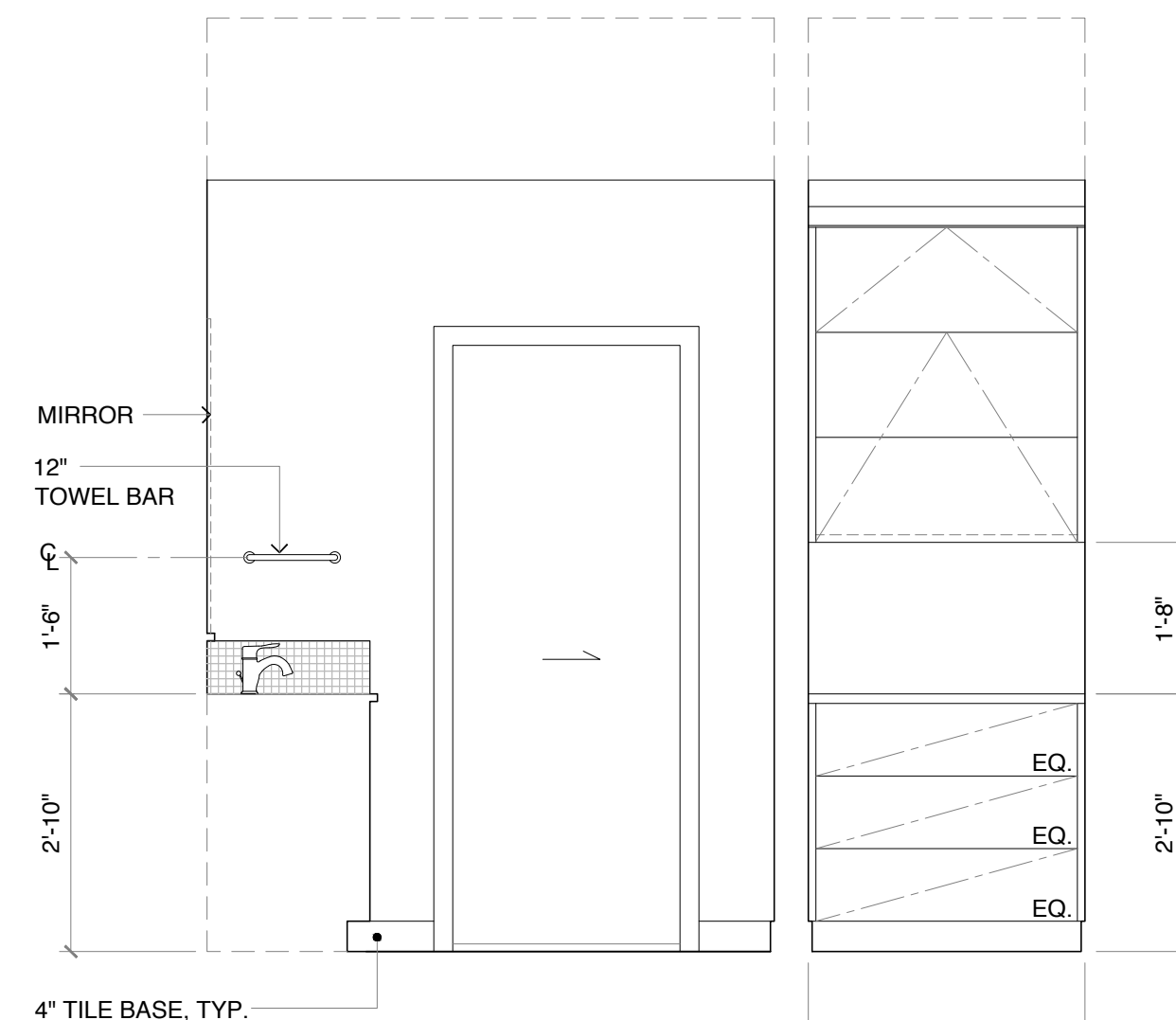
LOOKING WEST



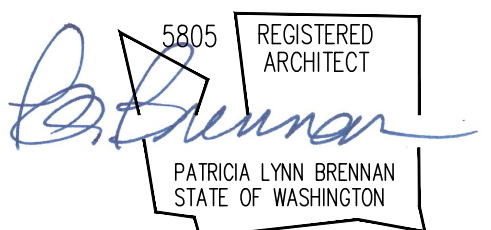
GUEST BATH #2 PLAN  
1/2" = 1'-0"



LOOKING SOUTH



LOOKING EAST



224  
Pontius  
Avenue  
North  
Suite 117  
Seattle  
Washington  
98109  
Phone  
206.328.2886  
Fax  
206.328.2981

**i** CORRECTION #1  
Date: 07/27/2020  
Date: 02/27/2020

Nader Residence

5472 West Mercer Way  
Mercer Island, WA 98040

**A16**

**GENERAL STRUCTURAL NOTES**  
(THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE PLANS)

**CRITERIA**

- ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, THE INTERNATIONAL BUILDING CODE (2015 EDITION), & LOCAL BUILDING CODE MODIFICATIONS TO THE INTERNATIONAL BUILDING CODE.

**DESIGN LOADING CRITERIA:**

FLOOR LIVE LOAD (RESIDENTIAL) . . . . .40 PSF  
 FLOOR LIVE LOAD (DECK) . . . . .60 PSF  
 ROOF SNOW LOAD (Pf) . . . . .25 PSF

**WIND:**  
 BASIC WIND SPEED (3-SECOND GUST) . . . . .110 MPH  
 WIND IMPORTANCE FACTOR (Iw) . . . . .1.0  
 WIND EXPOSURE . . . . .C  
 TOPOGRAPHICAL FACTOR (Kzt) . . . . .1.22

**EARTHQUAKE:**  
 LAT. / LONG. . . . .47.553 / -122.228  
 SEISMIC IMPORTANCE FACTOR (Ie) . . . . .1.0  
 SEISMIC USE GROUP . . . . .I  
 MAPPED SPECTRAL RESPONSE (Ss/S1) . . . . .1.46g/0.51g  
 SPECTRAL RESPONSE COEF. (SDS/SD1) . . . . .0.97g/0.51g  
 SEISMIC FORCE RESISTING SYSTEM . . . . .PLYWOOD SHEAR WALLS  
 DESIGN BASE SHEAR . . . . .18.28k  
 SEISMIC RESPONSE COEFFICIENT (Cs) . . . . .0.149  
 SEISMIC DESIGN CATEGORY . . . . .D  
 RESPONSE MODIFICATION FACTOR (R) . . . . .6.5  
 ANALYSIS PROCEDURE . . . . .EQUIVALENT LATERAL FORCE

REFERENCE: USGS NATIONAL SEISMIC HAZARD MAPPING PROJECT, 2008 DATA

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO COMMENCING EXCAVATION. THE CONTRACTOR SHALL BRING ALL CONFLICTS AND DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.

- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES. EXISTING REINFORCING SHALL BE RETAINED UNDAMAGED WHERE NOTED ON THE PLANS. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. LIMIT CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING FLOOR SYSTEMS TO 40 PSF. ALL NEW OPENINGS THROUGH EXISTING CONCRETE OR MASONRY WALLS, SLABS AND BEAMS SHALL BE ACCOMPLISHED BY SAW CUTTING WHEREVER POSSIBLE.

- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.

- SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 109 AND 1704 OF THE INTERNATIONAL BUILDING CODE AND THE PROJECT SPECIFICATIONS BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS.

- STRUCTURAL STEEL FABRICATION AND ERECTION (INCLUDING FIELD WELDING AND HIGH-STRENGTH FIELD BOLTING)
- EPOXY GROUTED INSTALLATIONS

- SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

- STRUCTURAL STEEL
- PLYWOOD WEB JOISTS

APPROVED SETS OF ALL SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPARTMENT.

**GEOTECHNICAL**

- FOUNDATION NOTES: ALLOWABLE SOIL PRESSURE AND LATERAL EARTH PRESSURE ARE ASSUMED AND THEREFORE MUST BE VERIFIED BY A QUALIFIED SOILS ENGINEER. IF SOILS ARE FOUND TO BE OTHER THAN ASSUMED, NOTIFY THE STRUCTURAL ENGINEER FOR POSSIBLE FOUNDATION REDESIGN.

FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH AT LEAST 18" BELOW ADJACENT FINISHED GRADE. UNLESS NOTED OTHERWISE, FOOTINGS SHALL BE CENTERED BELOW COLUMNS OR WALLS ABOVE. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE.

ALLOWABLE SOIL PRESSURE . . . . .2,000 PSF  
 LATERAL EARTH PRESSURE . . . . .35 PCF

**CONCRETE**

- CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905 AND ACI 301. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF F'c = 2,500 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS.

THE MINIMUM AMOUNTS OF CEMENT AND MAXIMUM AMOUNTS OF WATER MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE CONCRETE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH IBC 1905.1.3. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT SHALL BE IN ACCORDANCE WITH TABLE 19.3.2.1 OF THE ACI 318.

- REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 40, FY = 40,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

- REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 318. LAP ALL CONTINUOUS REINFORCEMENT 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

- CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:  
 A. FOOTINGS AND OTHER UNFORMED SURFACES, EARTH FACE . . . . .3"  
 B. ALL OTHER SURFACES . . . . .1 1/2"

- NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3000 PSI MINIMUM).

**ANCHORAGE**

- EPOXY-GROUTED ITEMS SPECIFIED ON THE DRAWINGS SHALL BE GROUTED WITH "SET-XP" HIGH STRENGTH EPOXY AS MANUFACTURED BY THE SIMPSON COMPANY AND INSTALLED IN STRICT ACCORDANCE WITH ICC ESR 2508.

- TITEN HD ANCHORS SPECIFIED ON THE DRAWINGS SHALL CONSIST OF "TITEN HD" HEAVY DUTY SCREW ANCHORS AS MANUFACTURED BY THE SIMPSON COMPANY AND INSTALLED IN STRICT ACCORDANCE WITH ICC ESR 2713.

**STEEL**

- STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON THE LATEST EDITIONS OF THE AISC SPECIFICATIONS AND CODES:

- SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360)
- CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (AISC 303)
- SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. BOLTS IN SHEAR OR BEARING TYPE CONNECTIONS NEED ONLY BE TIGHTENED TO THE SNUG TIGHT CONDITION PER SECTION 8(C).

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING MINIMUM STANDARDS. PLATES, ANGLES, AND CHANNELS SHALL CONFORM TO ASTM A36, FY = 36 KSI. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, FY = 50 KSI. STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, FY = 35 KSI. SQUARE OR RECTANGULAR STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, FY = 46 KSI. ANCHOR BOLTS AND CONNECTION BOLTS SHALL CONFORM TO ASTM A307. THREADED ROD AND STUDS SHALL CONFORM TO ASTM A36.

- ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED.

**WOOD**

- FRAMING LUMBER SHALL BE KILN DRIED OR MC-15, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17, LATEST EDITION. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

JOISTS: (2X MEMBERS) HEM-FIR NO. 2  
 MINIMUM BASE VALUE, FB = 850 PSI  
 (3X & 4X MEMBERS) DOUGLAS FIR NO. 1  
 MINIMUM BASE VALUE, FB = 1000 PSI

STRUCTURAL LIGHT FRAMING: DOUGLAS FIR NO. 2  
 (INCL. 3X AND 4X POSTS) MINIMUM BASE VALUE, FB = 900 PSI

BEAMS AND STRINGERS: DOUGLAS FIR NO. 1  
 (INCL. 6X AND LARGER) MINIMUM BASE VALUE, FB = 1350 PSI

POSTS AND TIMBERS: DOUGLAS FIR NO. 1  
 (6X6 AND LARGER) MINIMUM BASE VALUE, FC = 1000 PSI

STUDS, PLATES & MISC. FRAMING: DOUGLAS FIR OR HEM-FIR STANDARD GRADE

2X6 STUDS AND PLATES: HEM-FIR NO.3/ STUD GRADE

- ENGINEERED LUMBER MEMBERS SHALL BE MANUFACTURED UNDER A PROCESS BY THE NATIONAL RESEARCH BOARD. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, THE NATIONAL RESEARCH BOARD NUMBER, AND THE QUALITY CONTROL AGENCY. ALL LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPROPRIATE NER REPORT AND GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER.

PSL FB = 2900 PSI E = 2000 KSI FV = 290 PSI NER-292  
 LSL FB = 2250 PSI E = 1500 KSI FV = 285 PSI NER-481  
 LVL FB = 2600 PSI E = 1800 KSI FV = 285 PSI NER-126

DESIGN SHOWN ON PLANS IS BASED ON LUMBER MANUFACTURED BY THE WEYERHAUSER CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH MEMBERS PROVIDED.

ALL PROPOSED HOLE SIZES AND LOCATIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL TWO WORKING DAYS PRIOR TO DRILLING HOLES.

- PREFABRICATED PLYWOOD WEB JOIST DESIGN SHOWN ON PLANS IS BASED ON JOISTS MANUFACTURED BY THE WEYERHAUSER CORPORATION AND SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED SPECIFICATIONS. ALL NECESSARY BRIDGING, BLOCKING, BLOCKING PANELS, STIFFENERS, ETC., SHALL BE DETAILED AND FURNISHED BY THE MANUFACTURER. SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALTERNATE PLYWOOD WEB JOIST MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH PLYWOOD WEB JOIST PROVIDED.

ALL HOLES SHALL CONFORM TO THE MANUFACTURERS SPECIFICATIONS. IF THREE OR FEWER HOLES ARE PROPOSED FOR A SINGLE JOIST, HOLES SHALL CONFORM TO THE WEYERHAUSER ILEVEL TJJ ALLOWABLE HOLE CHART. IF MORE THEN THREE HOLES ARE PROPOSED FOR ONE SINGLE JOIST, ALL HOLE SIZES AND LOCATIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL TWO WORKING DAYS PRIOR TO DRILLING HOLES.

- PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH APA STANDARDS. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND SPAN RATING MAY BE USED IN LIEU OF PLYWOOD.

- ROOF SHEATHING SHALL BE 1/2" (NOM.) WITH SPAN RATING 24/0.
- FLOOR SHEATHING SHALL BE 3/4" (NOM.) WITH SPAN RATING 40/20.
- WALL SHEATHING SHALL BE 1/2" (NOM.) WITH SPAN RATING 24/0.

REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING.

- ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY. ALL WOOD EXPOSED TO WEATHER WITHOUT THE ADEQUATE PROTECTION OF A ROOF OR EAVE SHALL BE AN APPROVED WOOD OF NATURAL RESISTANCE TO DECAY OR PRESSURE TREATED. SUCH MEMBERS INCLUDE HORIZONTAL MEMBERS SUCH AS GIRDERS, JOISTS, AND DECKING; OR VERTICAL MEMBERS SUCH AS POSTS, POLES, AND COLUMNS.

- TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR MOST RECENT CATALOG. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. UNLESS NOTED OTHERWISE, ALL NAILS SHALL BE COMMON. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED. HANGERS IN DIRECT CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE EITHER STAINLESS STEEL (SST300), POST HOT-DIPPED GALVANIZED(HDG) OR GALVANIZED WITH A MINIMUM OF 1.850Z ZINC PER SQUARE INCH (ZMAX).

- NAILS - NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETER
6D	2"	0.113"
8D	2-1/2"	0.131"
10D	3"	0.148"
12D	3-1/4"	0.148"
16D	3-1/2"	0.162"

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL. NAILS SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED.

- WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN:

- ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE. MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO TABLE 2304.10.1 OF THE INTERNATIONAL BUILDING CODE. UNLESS NOTED OTHERWISE, ALL NAILS SHALL BE COMMON. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD.

- WALL FRAMING: ALL STUD WALLS SHOWN AND NOT OTHERWISE NOTED SHALL BE 2X4 STUDS @ 16" O.C. AT INTERIOR WALLS AND 2X6 @ 16" O.C. AT EXTERIOR WALLS. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS. TWO 2X8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATE TO EACH STUD WITH TWO 16D NAILS, AND TOENAIL OR END NAIL EACH STUD TO BOTTOM PLATE WITH TWO 16D NAILS. FACE NAIL DOUBLE TOP PLATE WITH 16D AT 12" O.C. AND LAP MINIMUM 4'-0" AT JOINTS AND PROVIDE SIX 16D NAILS AT 4" O.C. EACH SIDE OF JOINT. ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16D NAILS AT 12" O.C. STAGGERED OR BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS (WITH 7" MINIMUM EMBEDMENT) @ 4'-0" O.C. UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH 16D @ 12" O.C. STAGGERED. REFER TO THE PLANS AND SHEAR WALL SCHEDULE FOR REQUIRED SHEATHING AND NAILING. WHEN NOT OTHERWISE NOTED, PROVIDE GYPSUM WALLBOARD ON INTERIOR SURFACES NAILED TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING WITH NAILS AT 7" O.C. USE 5D COOLER NAILS FOR 1/2" CWB AND 6D COOLER NAILS FOR 5/8" CWB. WHEN NOT OTHERWISE NOTED, PROVIDE 1/2" (NOM.) APA RATED SHEATHING (SPAN RATING 24/0) ON EXTERIOR SURFACES NAILED AT ALL PANEL EDGES (BLOCK UNSUPPORTED EDGES), TOP AND BOTTOM PLATES WITH 8D @ 6" O.C. AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH 8D @ 12" O.C. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS.

- FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH TWO 16D NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH METAL JOIST HANGERS IN ACCORDANCE WITH TIMBER CONNECTOR NOTE. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH 16D @ 12" O.C. STAGGERED. UNLESS OTHERWISE NOTED ON THE PLANS, ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND NAILED WITH 8D NAILS @ 6" O.C. TO FRAMED PANEL EDGES AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" O.C. TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND-GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF ALL ROOF AND FLOOR SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16D @ 12" O.C. UNLESS OTHERWISE NOTED. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS PROVIDE FLAT 2X BLOCKING AT ALL UNFRAMED PLYWOOD PANEL EDGES AND NAIL WITH EDGE NAILING SPECIFIED.

**HV**

**Harriott Valentine Engineers Inc.**  
 1932 First Avenue, Suite 720  
 Seattle, Washington 98101-2447  
 tel 206 624 4760 fax 206 447 6971  
 www.harriottvalentine.com



**Project Contact**  
 Jim Harriott  
 tel 206 624 4760 ex. 31  
 fax 206 447 6971  
 jharriott@harriottvalentine.com

**Project Architect**  
 Patricia Brennan Architects  
 224 Pontius Avenue North, Suite 117  
 Seattle, WA 98109

**Project**  
**Nader Residence**  
 5472 West Mercer Way  
 Mercer Island, WA 98040

Issue Date	Issue Description
6/18/20	Permit Submittal
7/27/20	Site Wall Revisions

**Building Department Approval**

Drawing Title:  
**GENERAL STRUCTURAL NOTES**

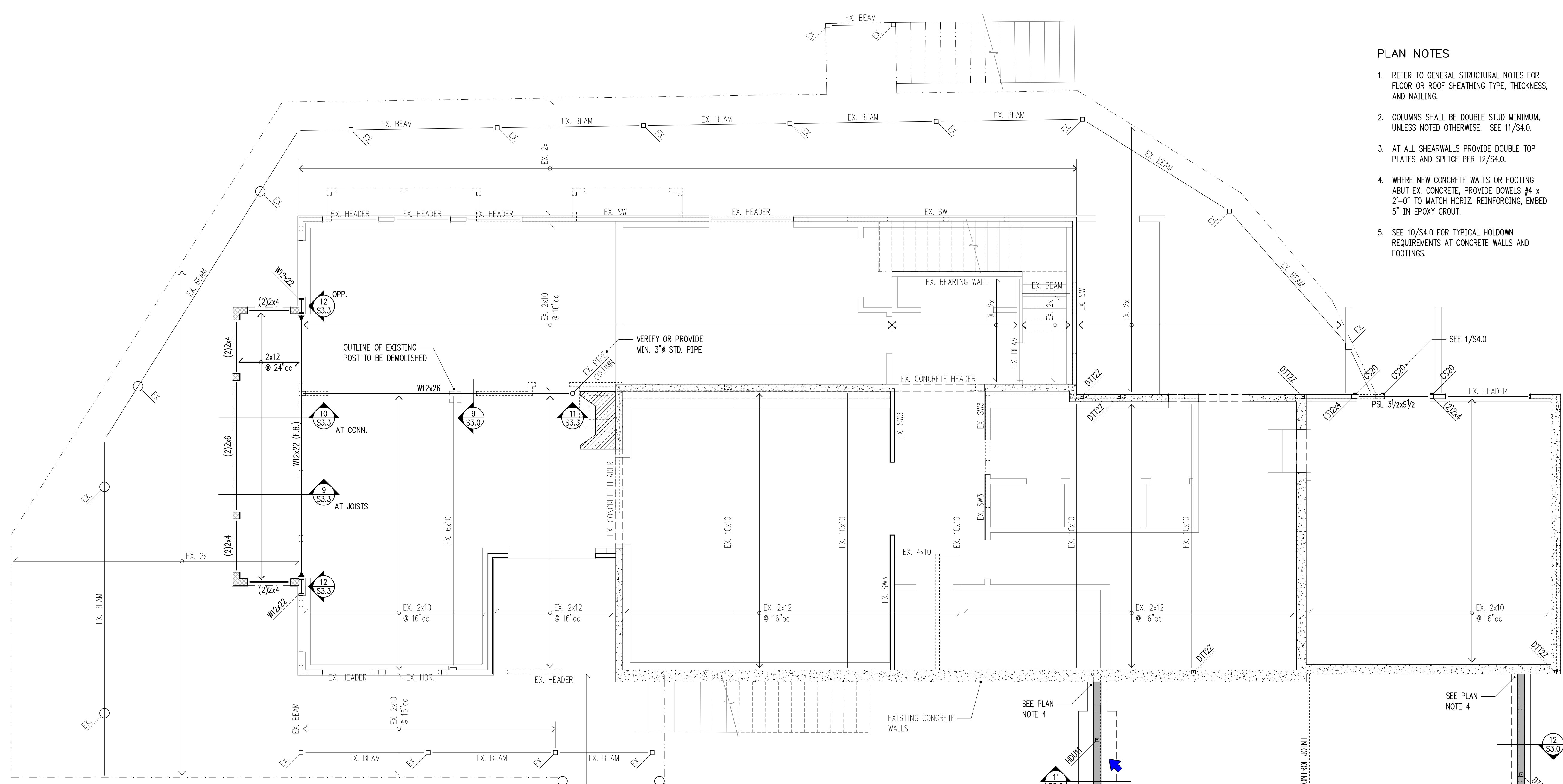
Drawing Number

**S1.0**

NADER RESIDENCE

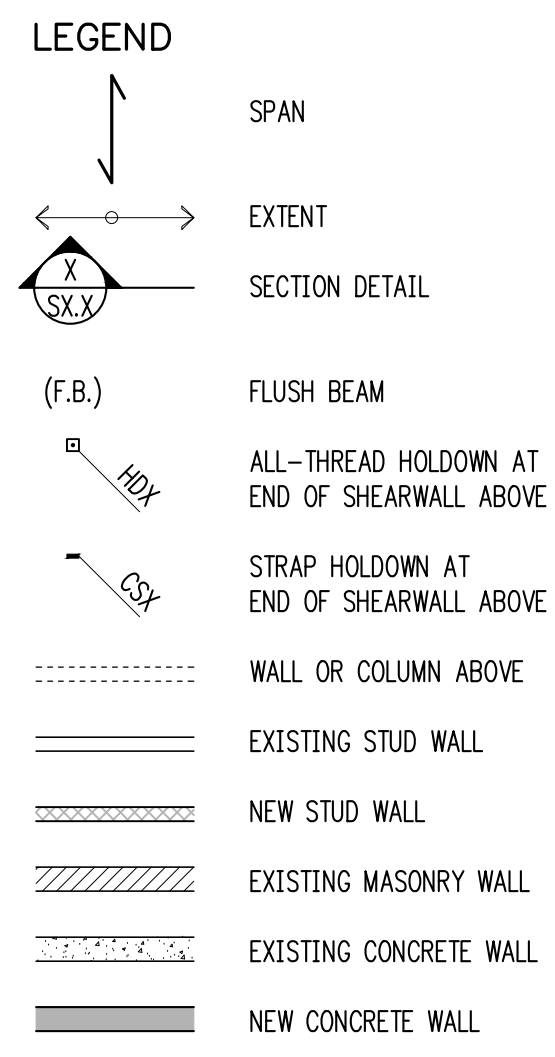




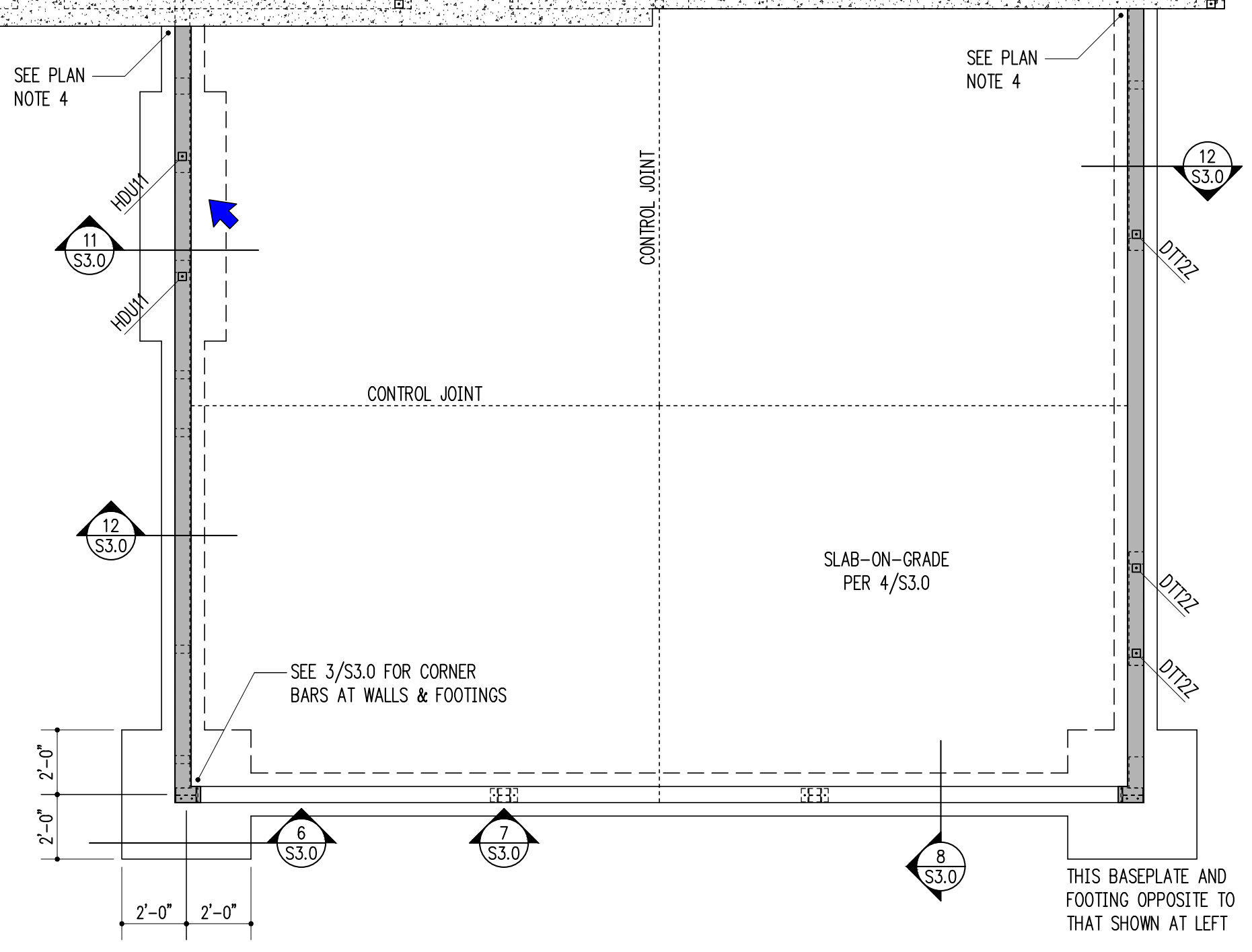


**PLAN NOTES**

1. REFER TO GENERAL STRUCTURAL NOTES FOR FLOOR OR ROOF SHEATHING TYPE, THICKNESS, AND NAILING.
2. COLUMNS SHALL BE DOUBLE STUD MINIMUM, UNLESS NOTED OTHERWISE. SEE 11/S4.0.
3. AT ALL SHEARWALLS PROVIDE DOUBLE TOP PLATES AND SPLICE PER 12/S4.0.
4. WHERE NEW CONCRETE WALLS OR FOOTING ABUT EX. CONCRETE, PROVIDE DOWELS #4 x 2'-0" TO MATCH HORIZ. REINFORCING, EMBED 5" IN EPOXY GROUT.
5. SEE 10/S4.0 FOR TYPICAL HOLDOWN REQUIREMENTS AT CONCRETE WALLS AND FOOTINGS.



**LEVEL ONE FRAMING PLAN (BASEMENT WALLS)**  
 scale: 1/4" = 1'-0"



**HV**  
 Harriott Valentine Engineers Inc.  
 1932 First Avenue, Suite 720  
 Seattle, Washington 98101-2447  
 tel 206 624 4760 fax 206 447 6971  
 www.harriottvalentine.com



**Project Contact**  
 Jim Harriott  
 tel 206 624 4760 ex. 31  
 fax 206 447 6971  
 jharriott@harriottvalentine.com

**Project Architect**  
 Patricia Brennan Architects  
 224 Pontius Avenue North, Suite 117  
 Seattle, WA 98109

**Project**  
**Nader Residence**  
 5472 West Mercer Way  
 Mercer Island, WA 98040

Issue Date	Issue Description
6/18/20	Permit Submittal
7/27/20	Site Wall Revisions

**Building Department Approval**

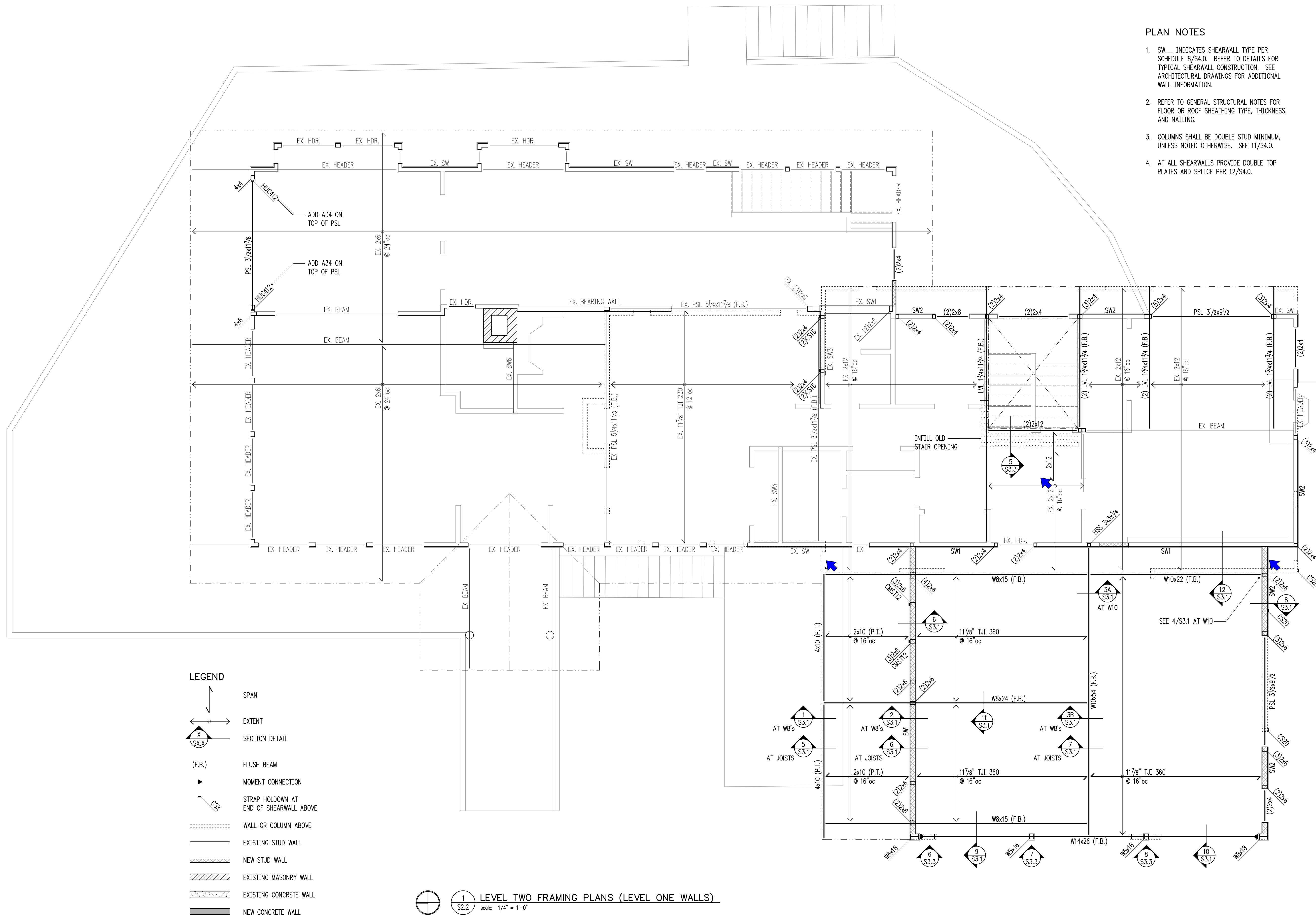
Drawing Title  
**LEVEL ONE FRAMING PLAN**

Drawing Number  
**S2.1**

NADER RESIDENCE

PLAN NOTES

1. SW... INDICATES SHEARWALL TYPE PER SCHEDULE 8/S4.0. REFER TO DETAILS FOR TYPICAL SHEARWALL CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION.
2. REFER TO GENERAL STRUCTURAL NOTES FOR FLOOR OR ROOF SHEATHING TYPE, THICKNESS, AND NAILING.
3. COLUMNS SHALL BE DOUBLE STUD MINIMUM, UNLESS NOTED OTHERWISE. SEE 11/S4.0.
4. AT ALL SHEARWALLS PROVIDE DOUBLE TOP PLATES AND SPLICE PER 12/S4.0.



1 LEVEL TWO FRAMING PLANS (LEVEL ONE WALLS)  
 S2.2 scale: 1/4" = 1'-0"



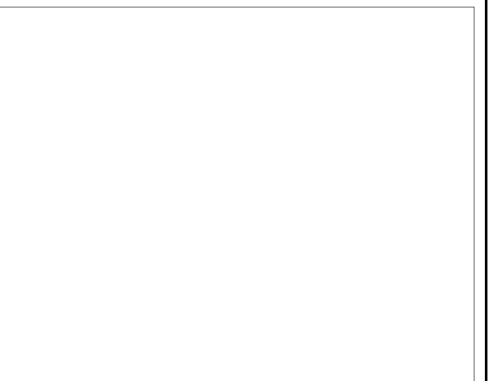
Project Contact  
 Jim Harriott  
 tel 206 624 4760 ex. 31  
 fax 206 447 6971  
 jharriott@harriottvalentine.com

Project Architect  
 Patricia Brennan Architects  
 224 Pontius Avenue North, Suite 117  
 Seattle, WA 98109

Project  
**Nader Residence**  
 5472 West Mercer Way  
 Mercer Island, WA 98040

Issue Date	Issue Description
6/18/20	Permit Submittal
7/27/20	Site Wall Revisions

Building Department Approval



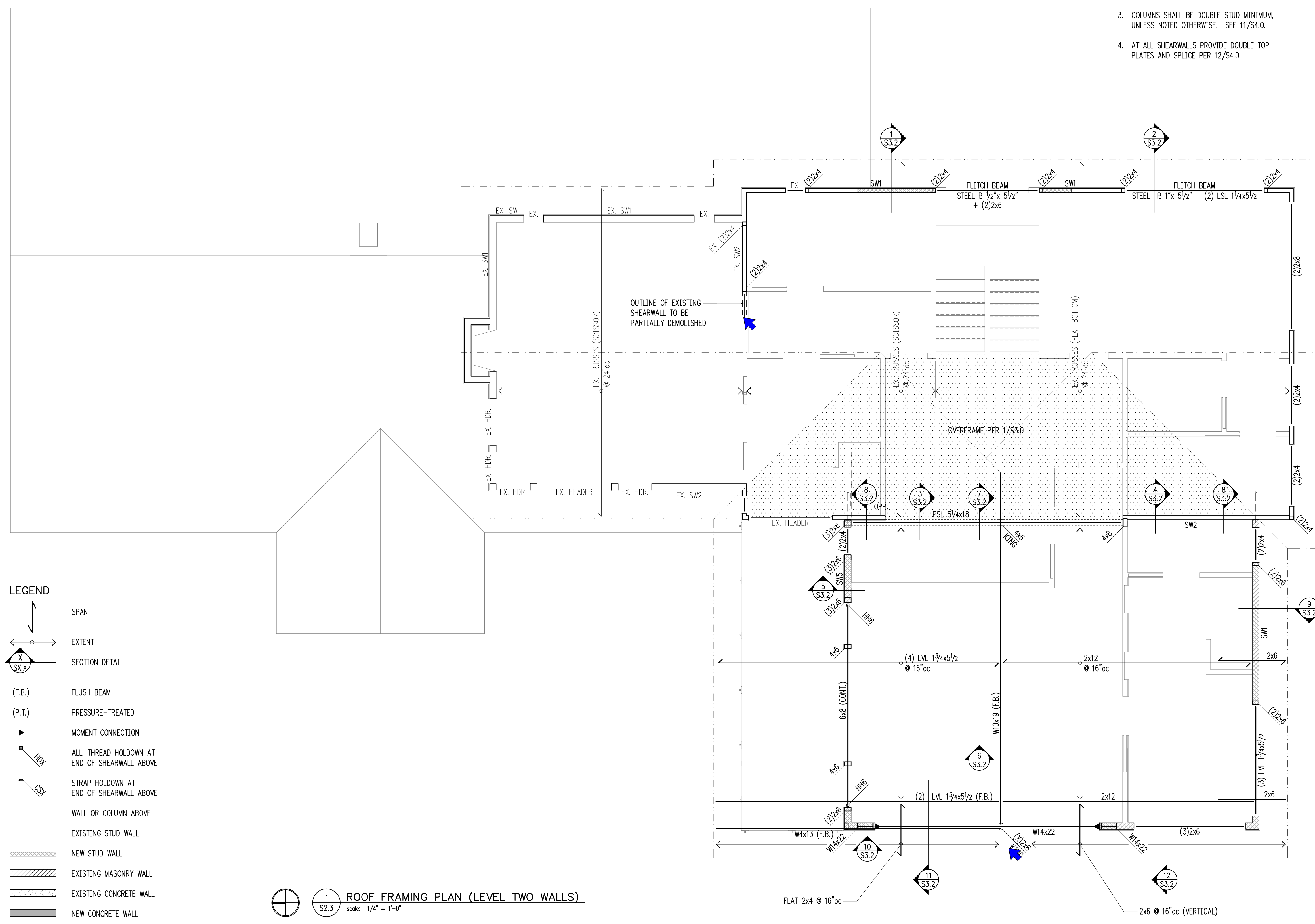
Drawing Title  
**LEVEL TWO FRAMING PLAN**

Drawing Number  
**S2.2**

NADER RESIDENCE

PLAN NOTES

1. SW... INDICATES SHEARWALL TYPE PER SCHEDULE 8/S4.0. REFER TO DETAILS FOR TYPICAL SHEARWALL CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION.
2. REFER TO GENERAL STRUCTURAL NOTES FOR FLOOR OR ROOF SHEATHING TYPE, THICKNESS, AND NAILING.
3. COLUMNS SHALL BE DOUBLE STUD MINIMUM, UNLESS NOTED OTHERWISE. SEE 11/S4.0.
4. AT ALL SHEARWALLS PROVIDE DOUBLE TOP PLATES AND SPLICE PER 12/S4.0.



**LEGEND**

	SPAN
	EXTENT
	SECTION DETAIL
(F.B.)	FLUSH BEAM
(P.T.)	PRESSURE-TREATED
	MOMENT CONNECTION
	ALL-THREAD HOLDOWN AT END OF SHEARWALL ABOVE
	STRAP HOLDOWN AT END OF SHEARWALL ABOVE
	WALL OR COLUMN ABOVE
	EXISTING STUD WALL
	NEW STUD WALL
	EXISTING MASONRY WALL
	EXISTING CONCRETE WALL
	NEW CONCRETE WALL

**ROOF FRAMING PLAN (LEVEL TWO WALLS)**  
 scale: 1/4" = 1'-0"



Project Contact  
 Jim Harriott  
 tel 206 624 4760 ex. 31  
 fax 206 447 6971  
 jharriott@harriottvalentine.com

Project Architect  
 Patricia Brennan Architects  
 224 Pontius Avenue North, Suite 117  
 Seattle, WA 98109

Project  
**Nader Residence**  
 5472 West Mercer Way  
 Mercer Island, WA 98040

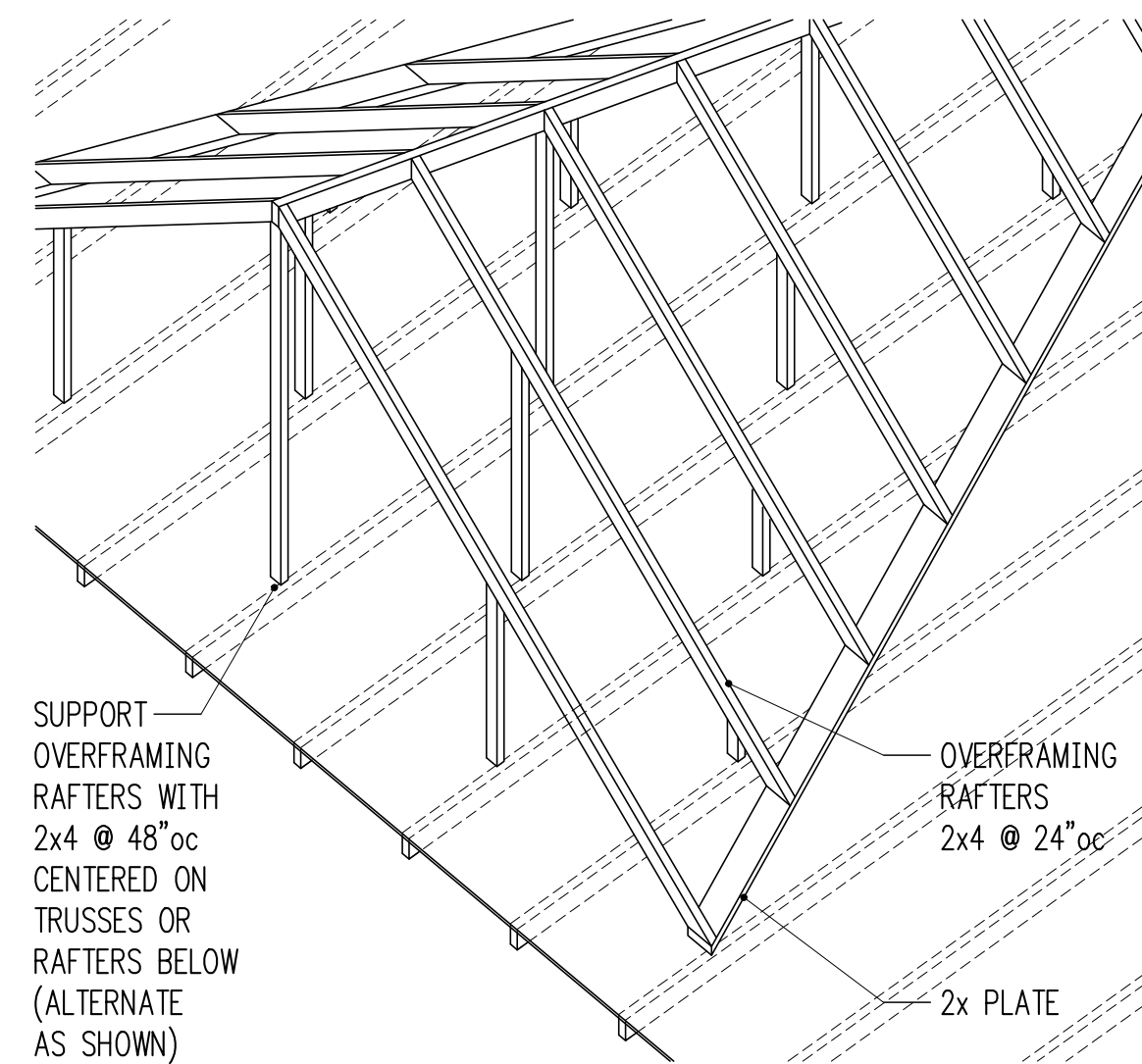
Issue Date	Issue Description
6/18/20	Permit Submittal
7/27/20	Site Wall Revisions

Building Department Approval

Drawing Title  
**ROOF FRAMING PLAN**

Drawing Number  
**S2.3**

NADER RESIDENCE



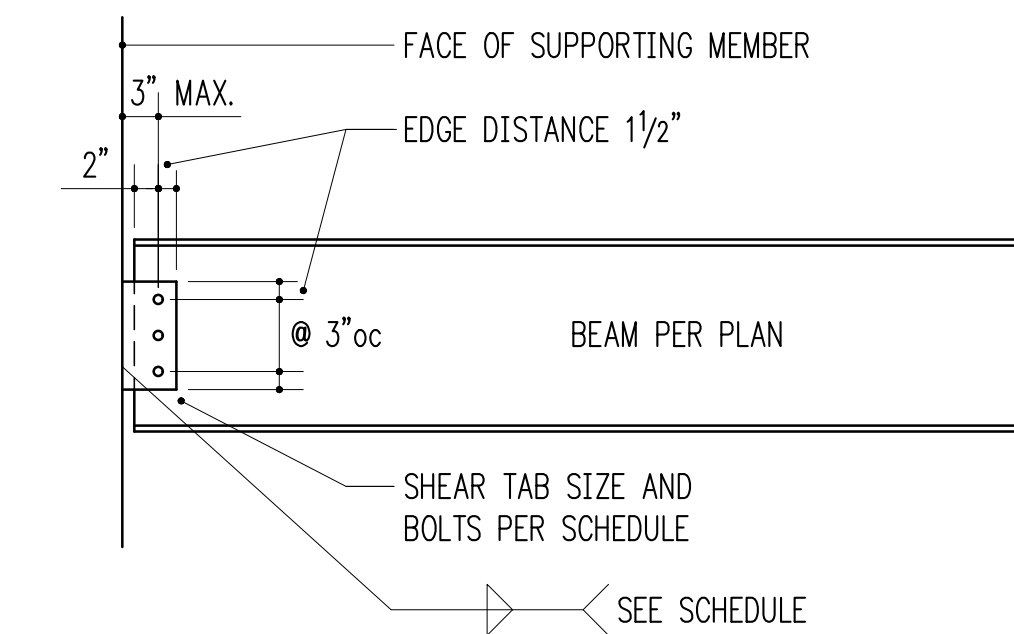
SUPPORT OVERFRAMING RAFTERS WITH 2x4 @ 48"oc CENTERED ON TRUSSES OR RAFTERS BELOW (ALTERNATE AS SHOWN)

3/8" = 1'-0" 1

**SHEAR TAB SCHEDULE**

BEAM SIZE	# BOLTS	BOLT SIZE	PL THICK.	WELD SIZE	CAPACITY
W8, W10	(2)	3/4"φ	1/4"	3/16"	16,300 lb
W14	(3)	3/4"φ	1/4"	3/16"	25,600 lb

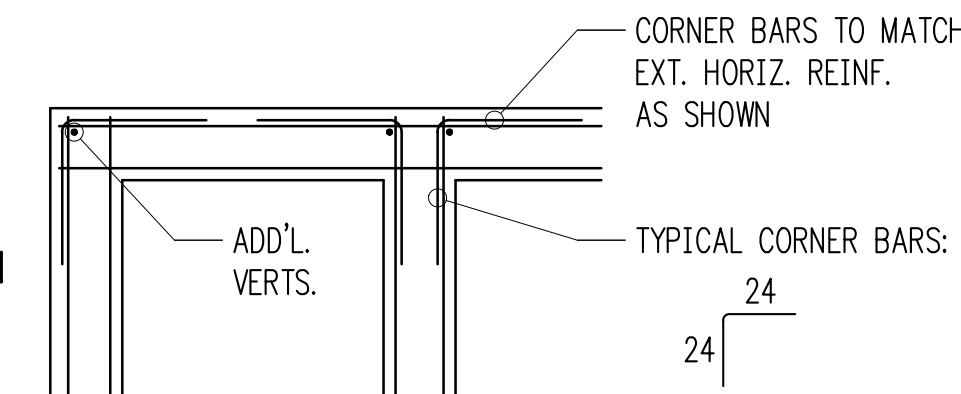
BOLT TYPE SHALL BE A325N. PLATE MATERIAL SHALL BE A36.



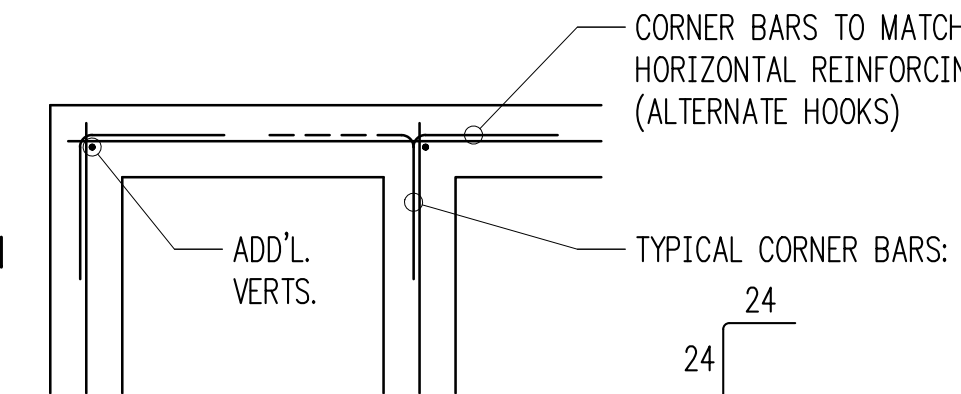
TYPICAL SHEAR TAB CONNECTION

3/4" = 1'-0" 2

**DOUBLE CURTAIN**



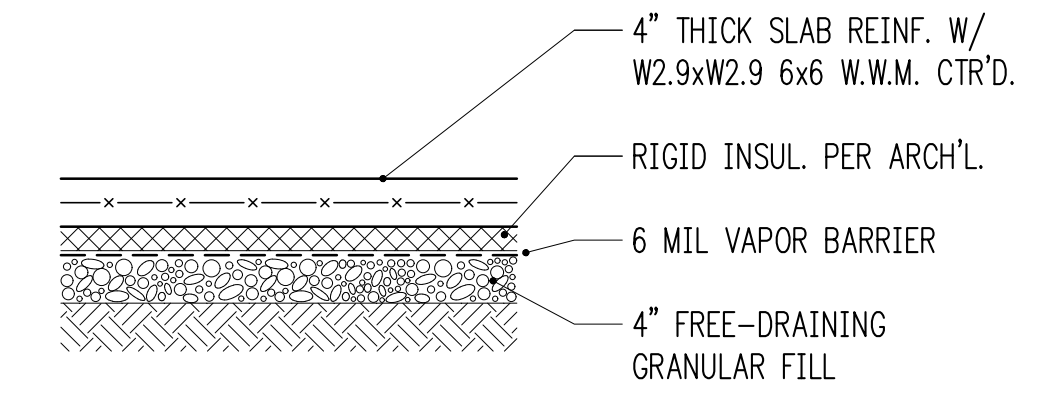
**SINGLE CURTAIN**



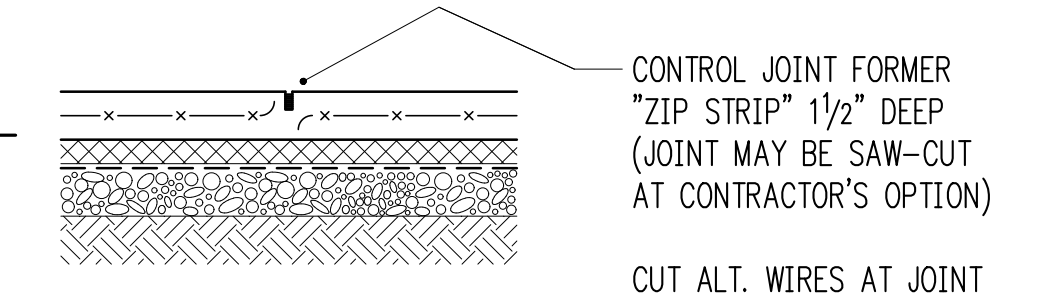
TYPICAL CORNER BARS AT CONCRETE WALLS

3/4" = 1'-0" 3

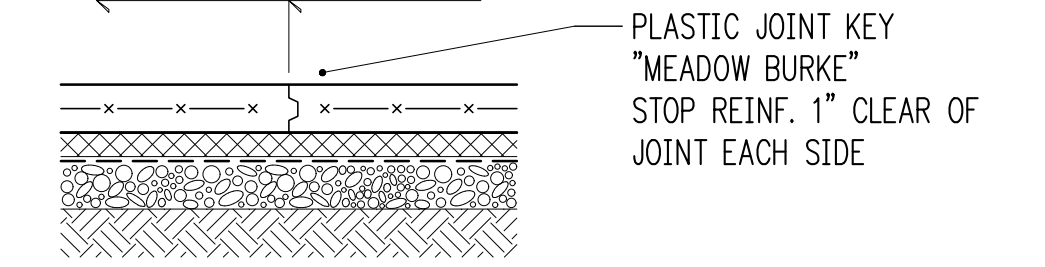
**TYPICAL SLAB**



**CONTROL JOINT**

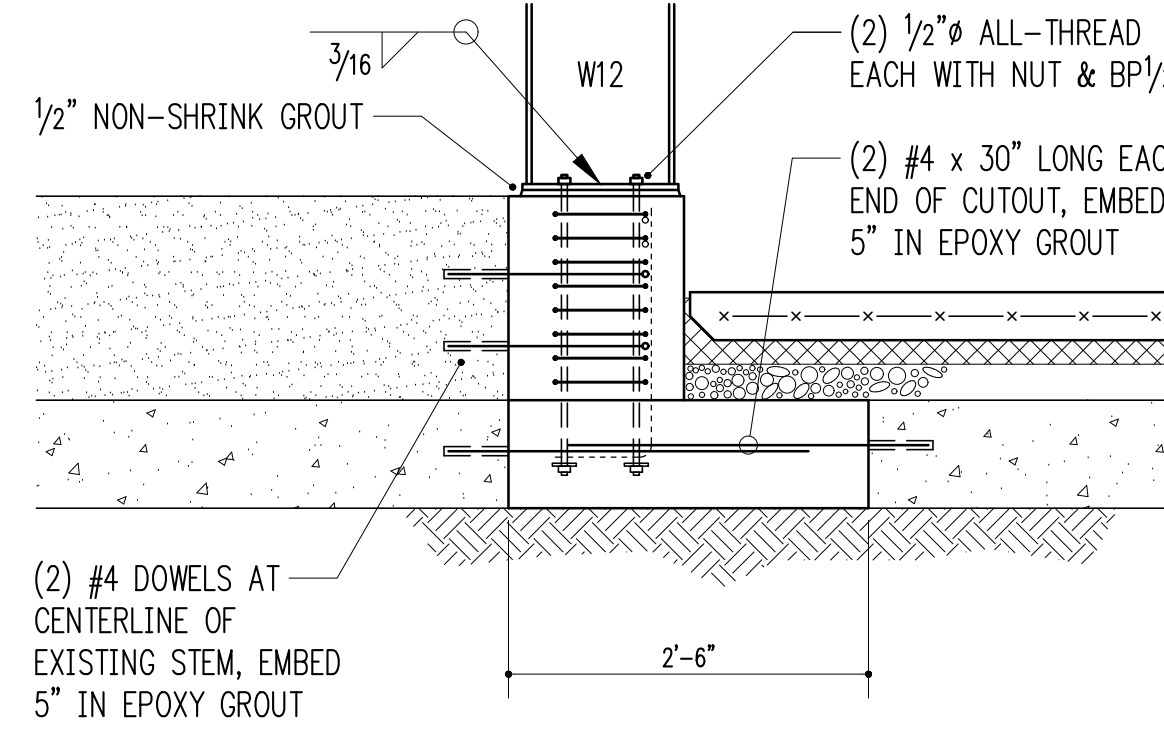
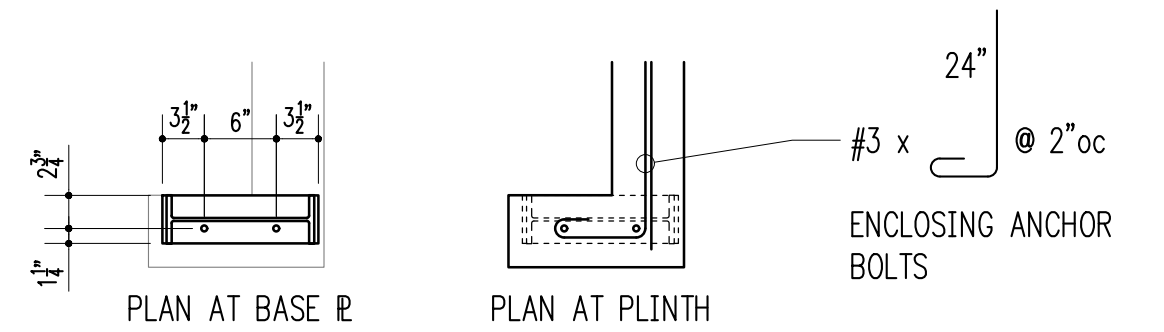


**CONSTR. JOINT**

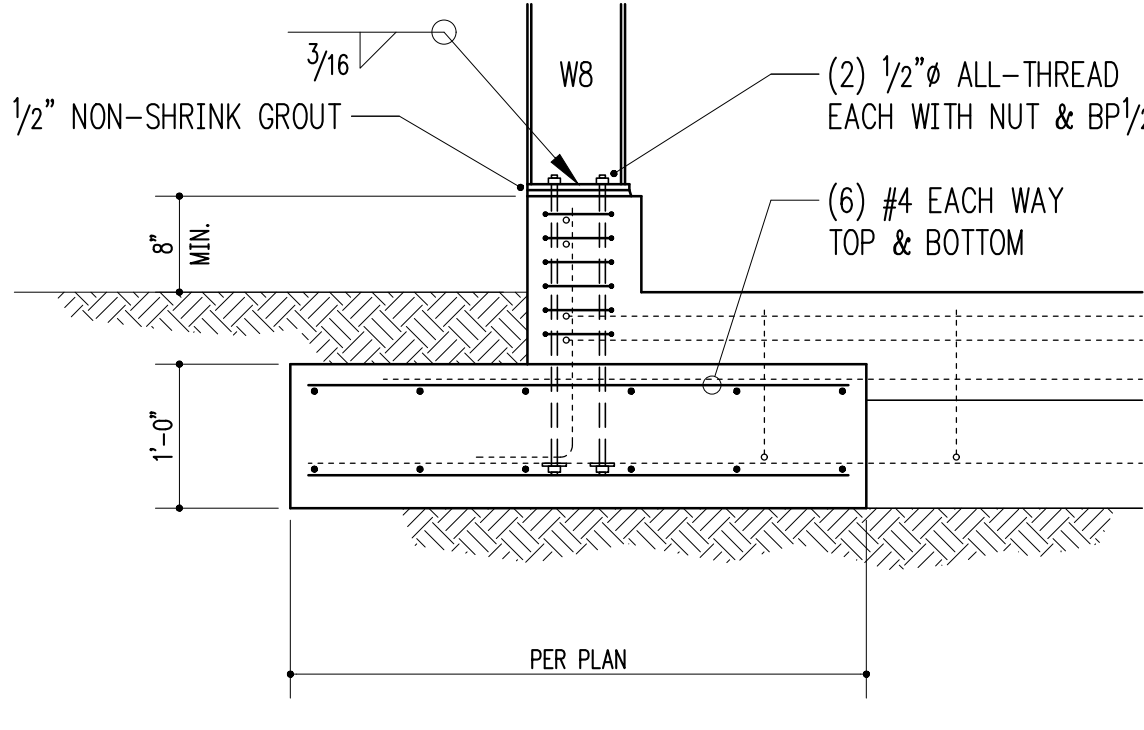
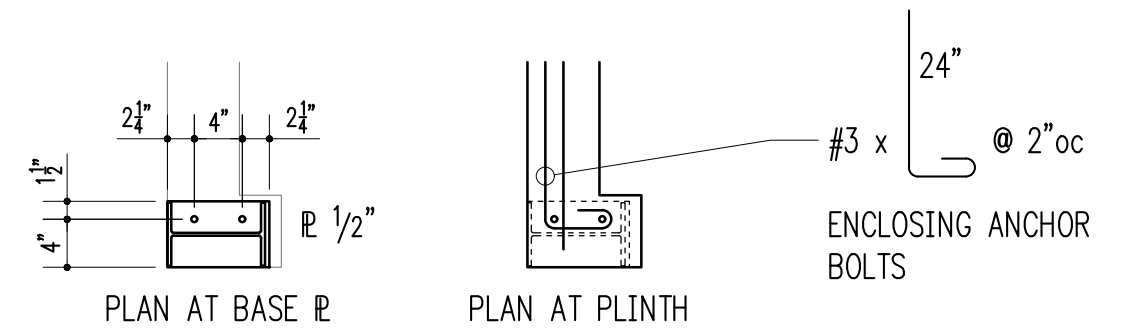


SLAB-ON-GRADE (INSULATED)

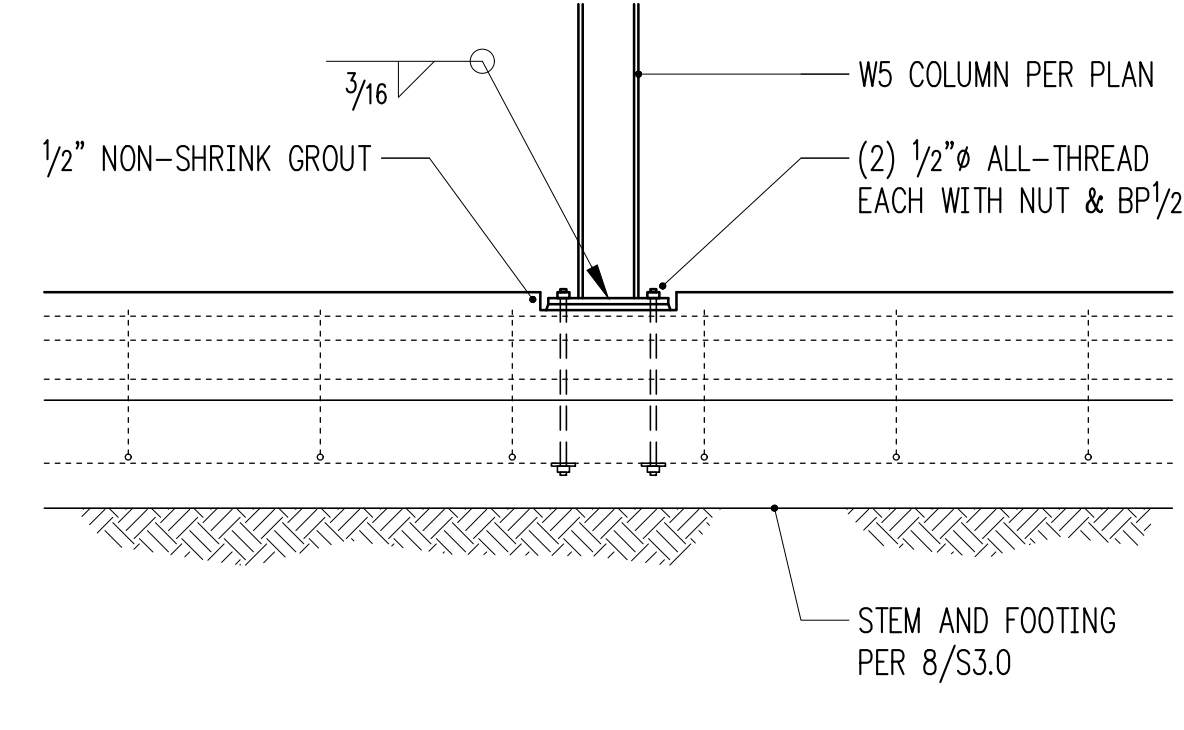
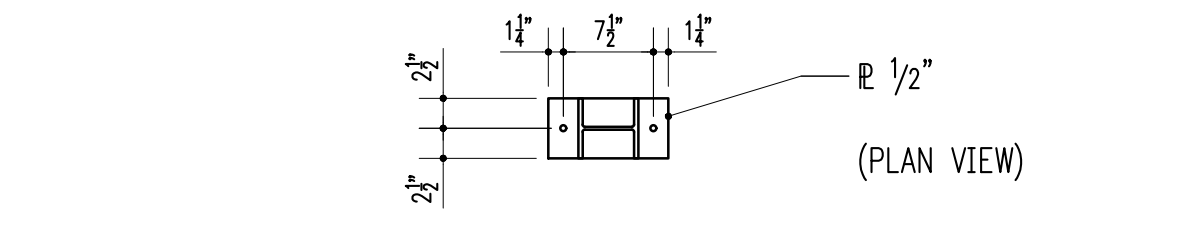
3/4" = 1'-0" 4



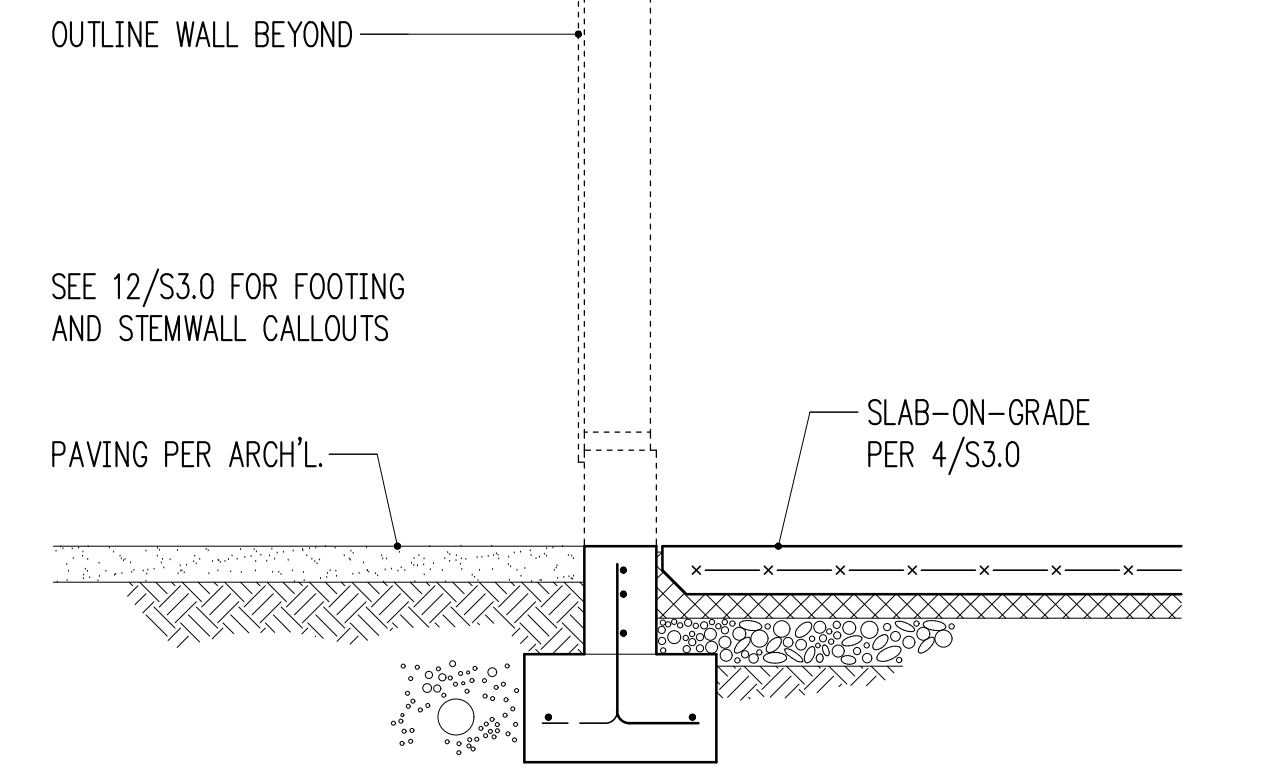
3/4" = 1'-0" 5



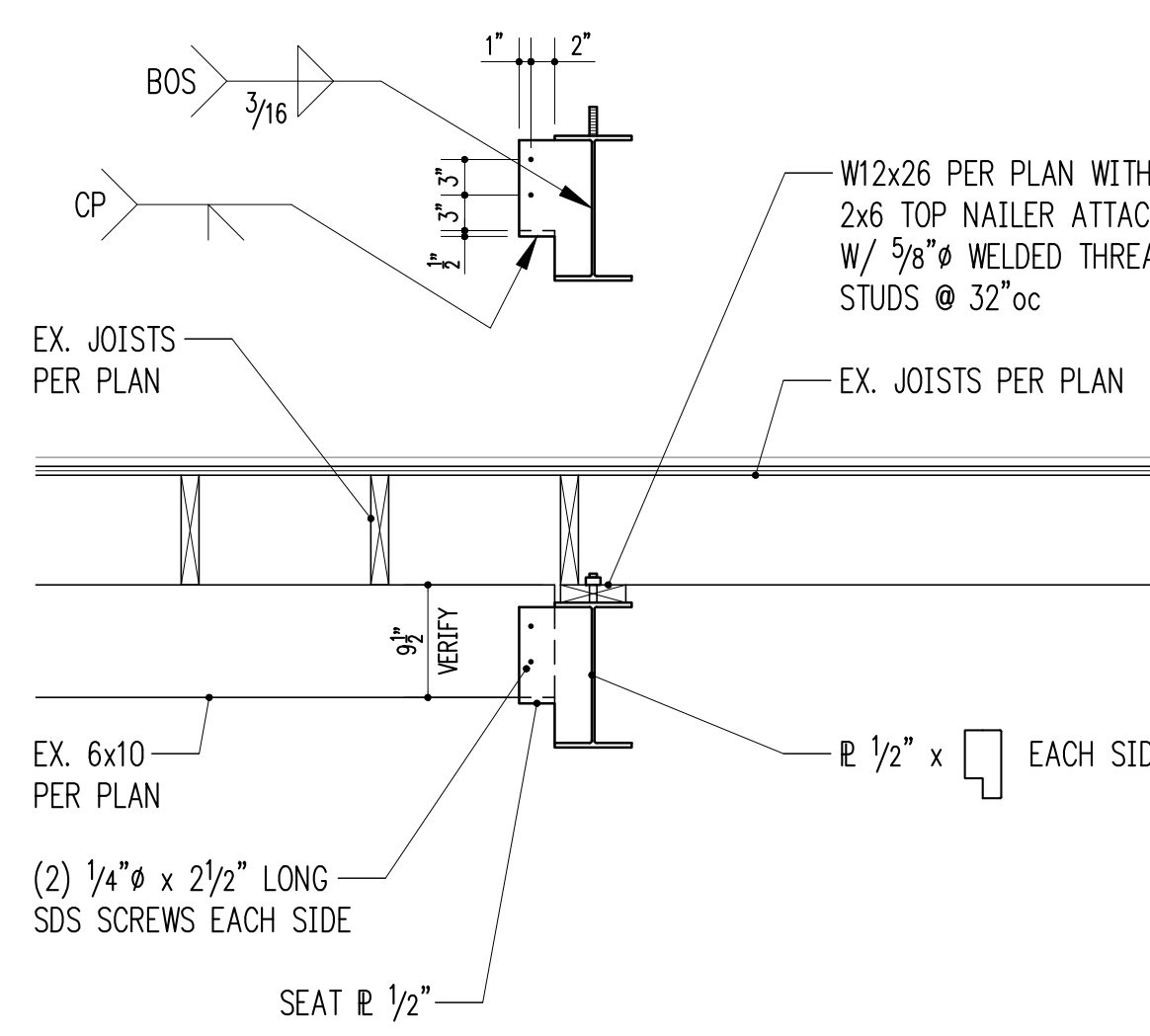
3/4" = 1'-0" 6



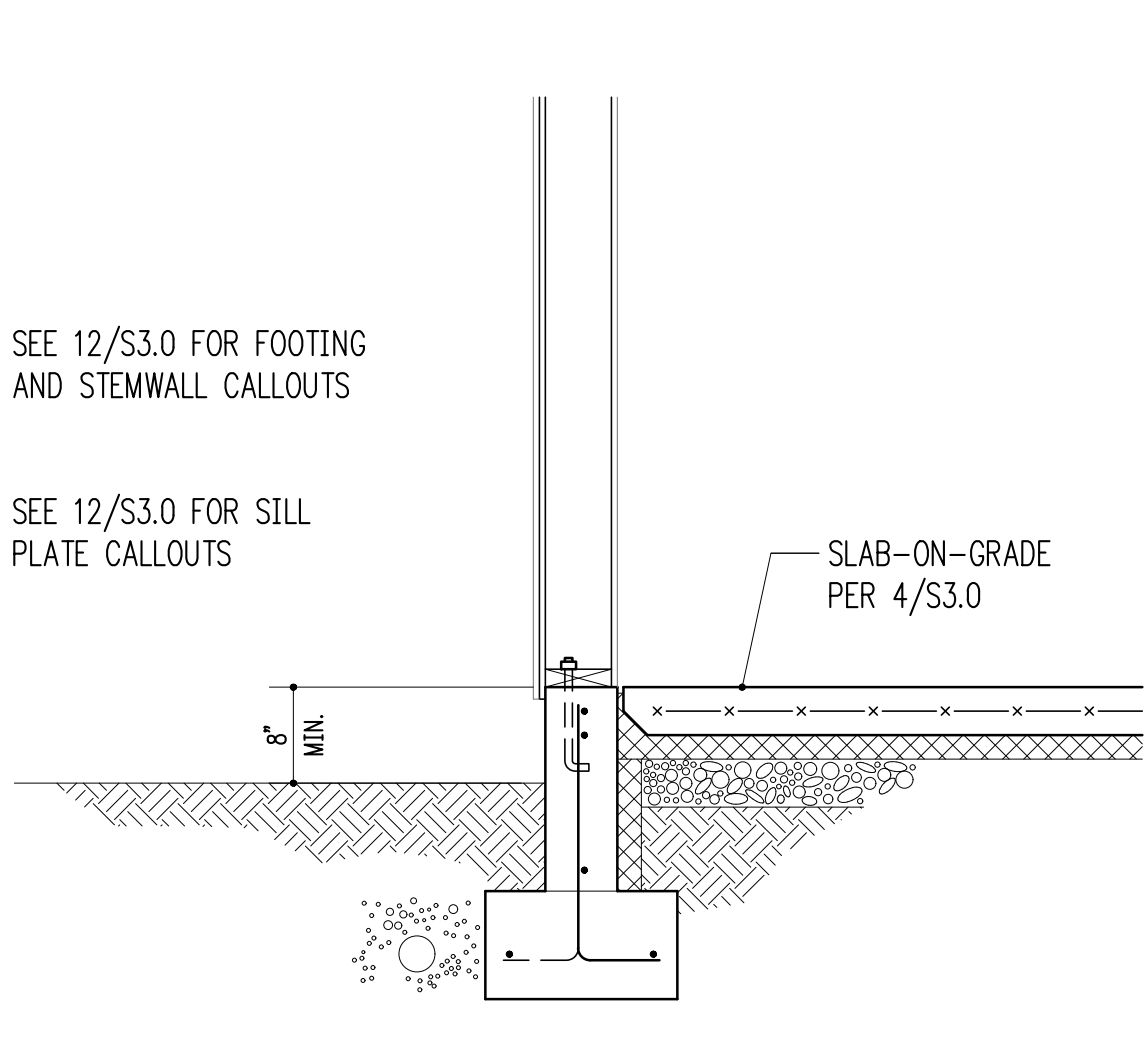
3/4" = 1'-0" 7



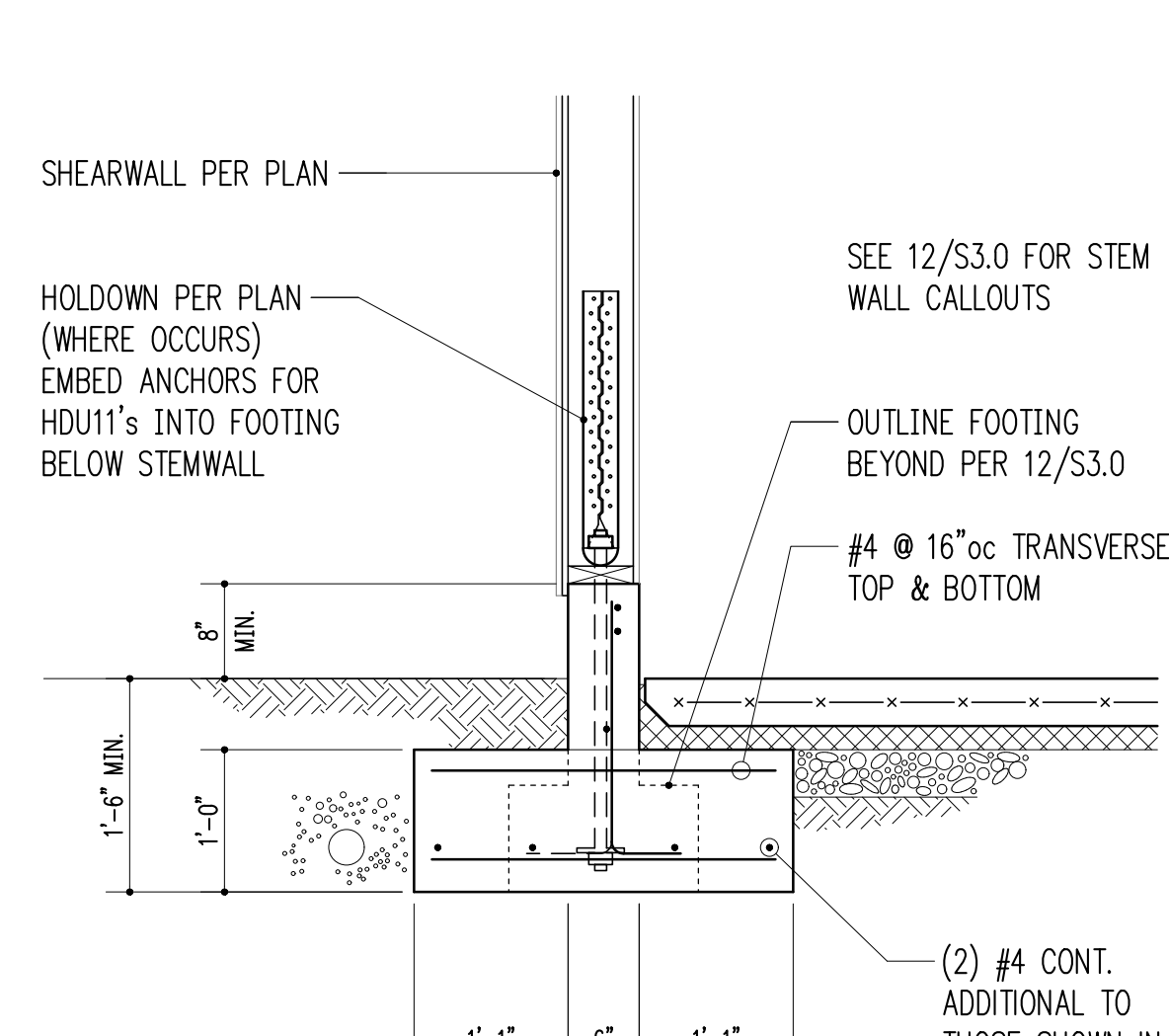
3/4" = 1'-0" 8



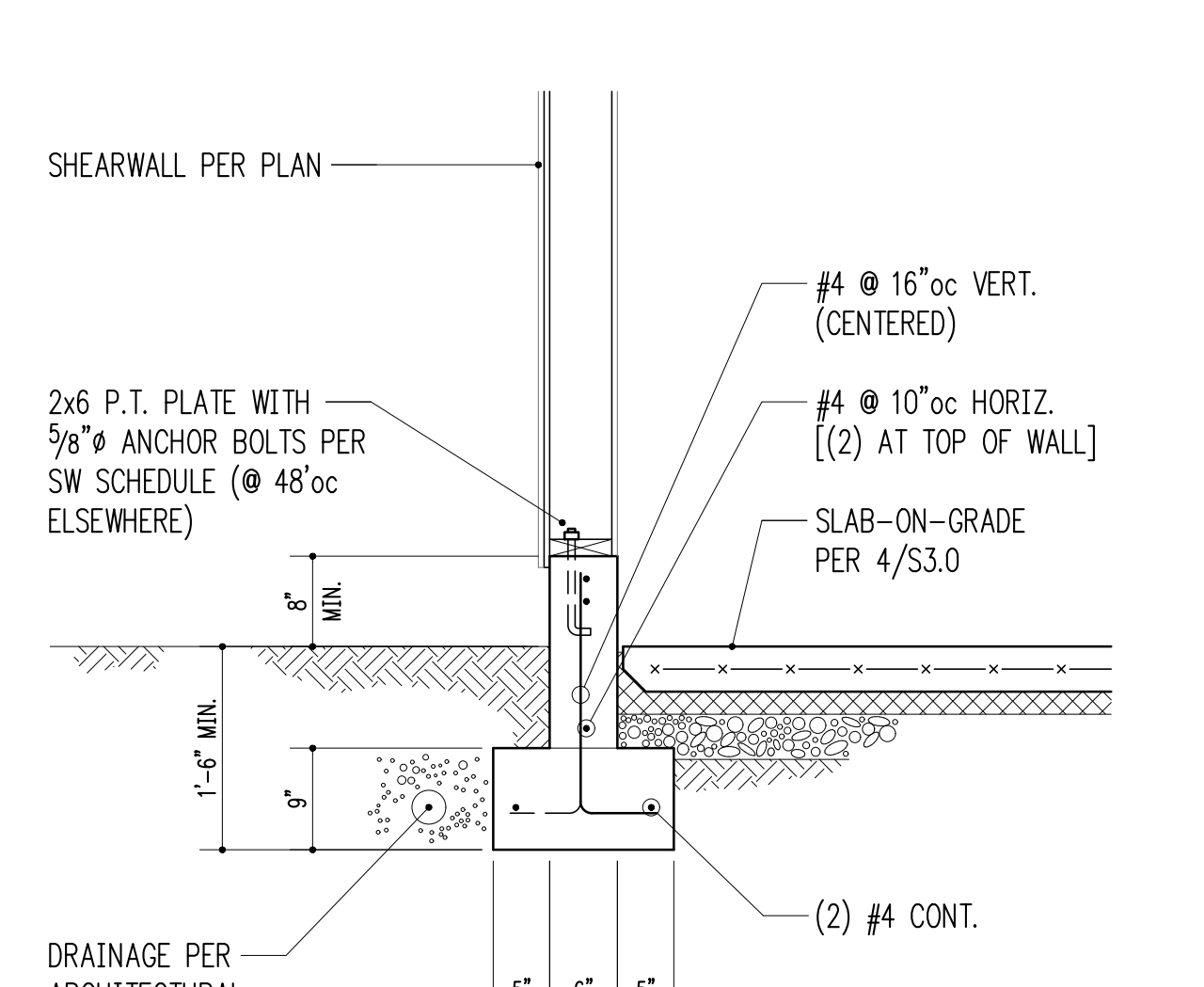
3/4" = 1'-0" 9



3/4" = 1'-0" 10



3/4" = 1'-0" 11



3/4" = 1'-0" 12

**HV**  
 Harriott Valentine Engineers Inc.  
 1932 First Avenue, Suite 720  
 Seattle, Washington 98101-2447  
 tel 206 624 4760 fax 206 447 6971  
 www.harriottvalentine.com



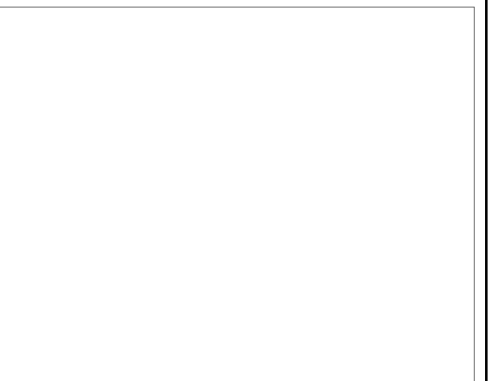
**Project Contact**  
 Jim Harriott  
 tel 206 624 4760 ex. 31  
 fax 206 447 6971  
 jharriott@harriottvalentine.com

**Project Architect**  
 Patricia Brennan Architects  
 224 Pontius Avenue North, Suite 117  
 Seattle, WA 98109

**Project**  
**Nader Residence**  
 5472 West Mercer Way  
 Mercer Island, WA 98040

Issue Date	Issue Description
6/18/20	Permit Submittal
7/27/20	Site Wall Revisions

Building Department Approval



Drawing Title  
**STRUCTURAL DETAILS**

Drawing Number

**S3.0**

NADER RESIDENCE



**Project Contact**  
 Jim Harriott  
 tel 206 624 4760 ex. 31  
 fax 206 447 6971  
 jharriott@harriottvalentine.com

**Project Architect**  
 Patricia Brennan Architects  
 224 Pontius Avenue North, Suite 117  
 Seattle, WA 98109

**Project**  
**Nader Residence**  
 5472 West Mercer Way  
 Mercer Island, WA 98040

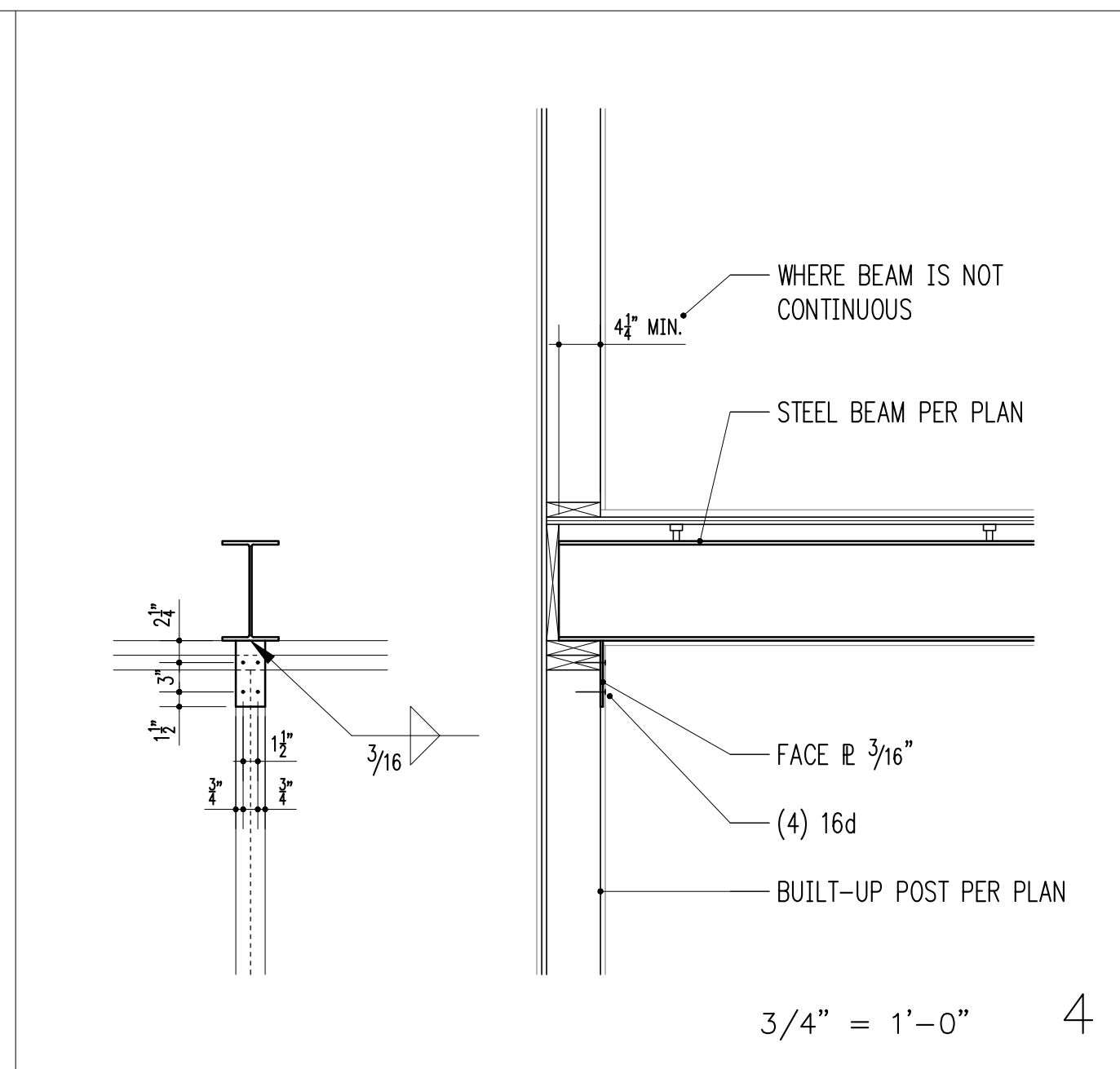
Issue Date	Issue Description
6/18/20	Permit Submittal
7/27/20	Site Wall Revisions

Building Department Approval

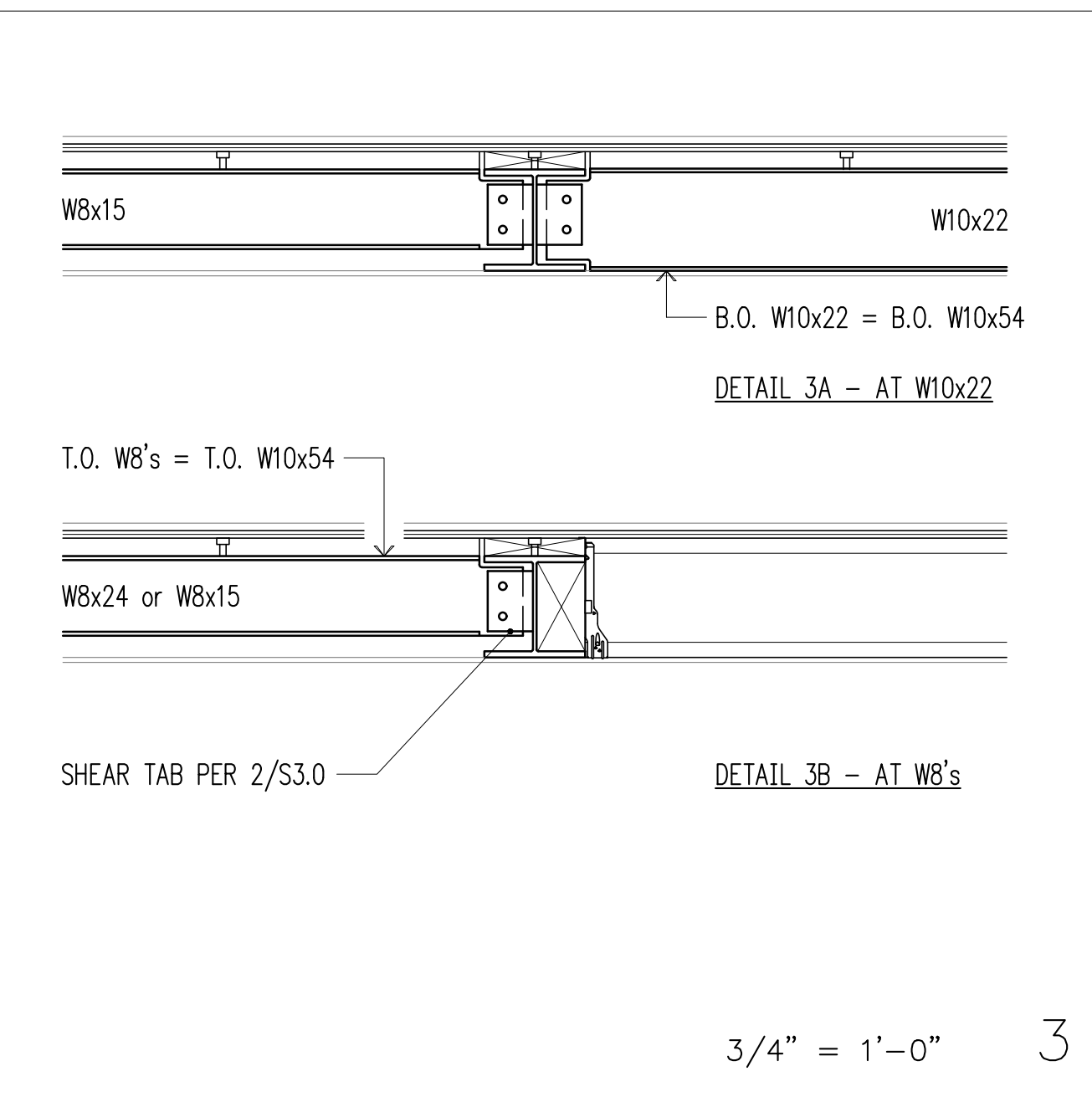
Drawing Title  
**STRUCTURAL DETAILS**

Drawing Number  
**S3.1**

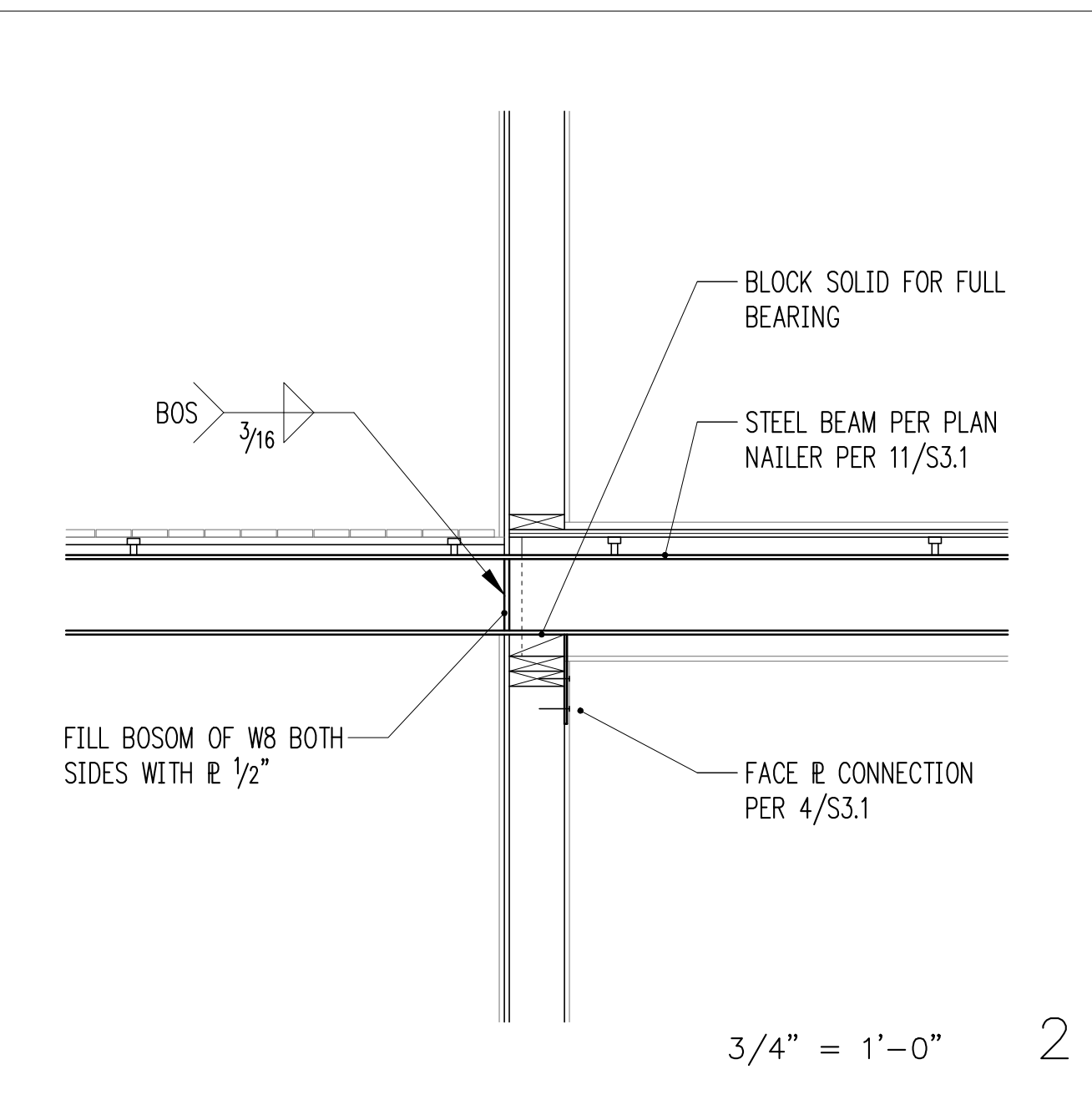
NADER RESIDENCE



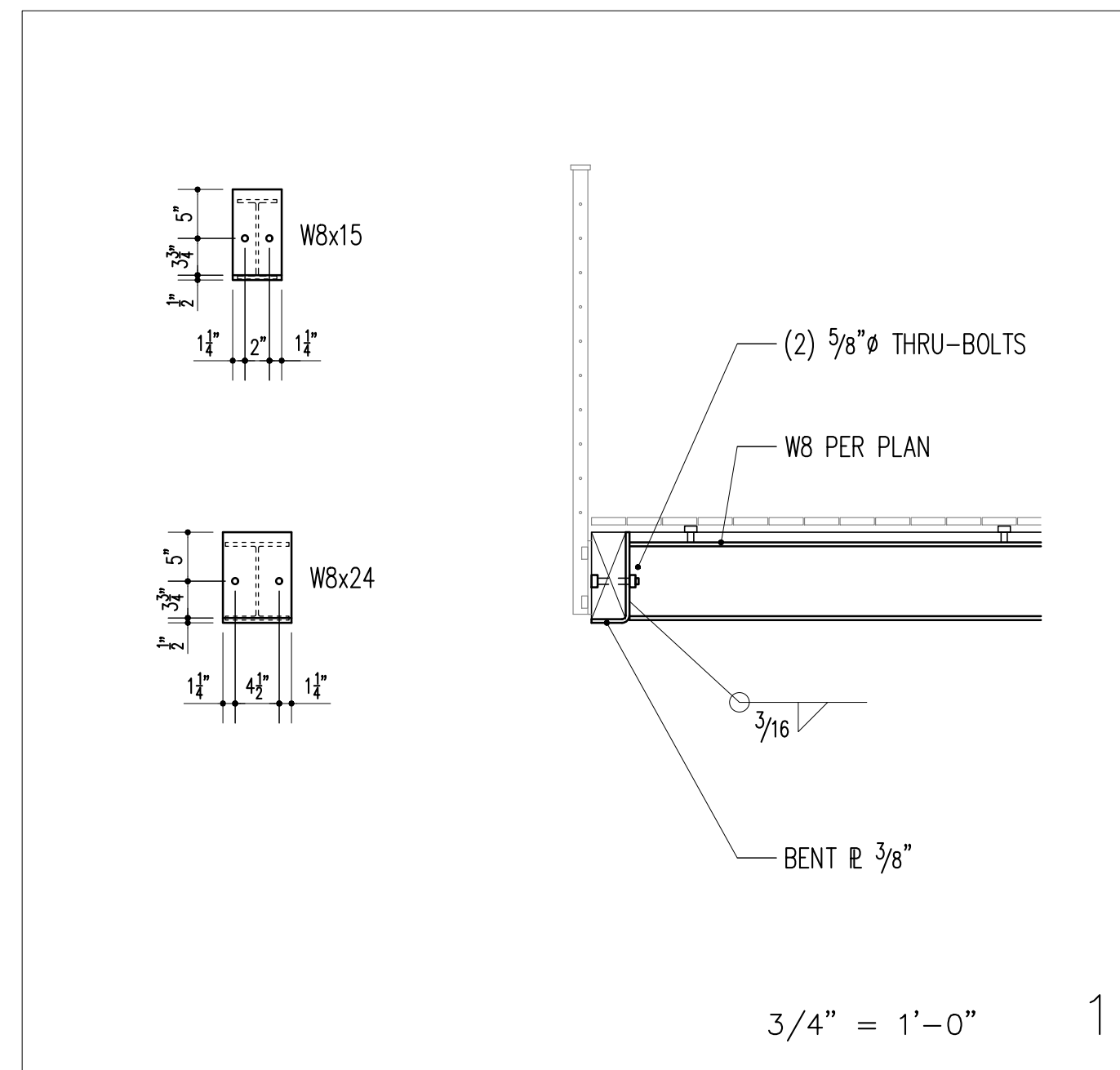
3/4" = 1'-0" 4



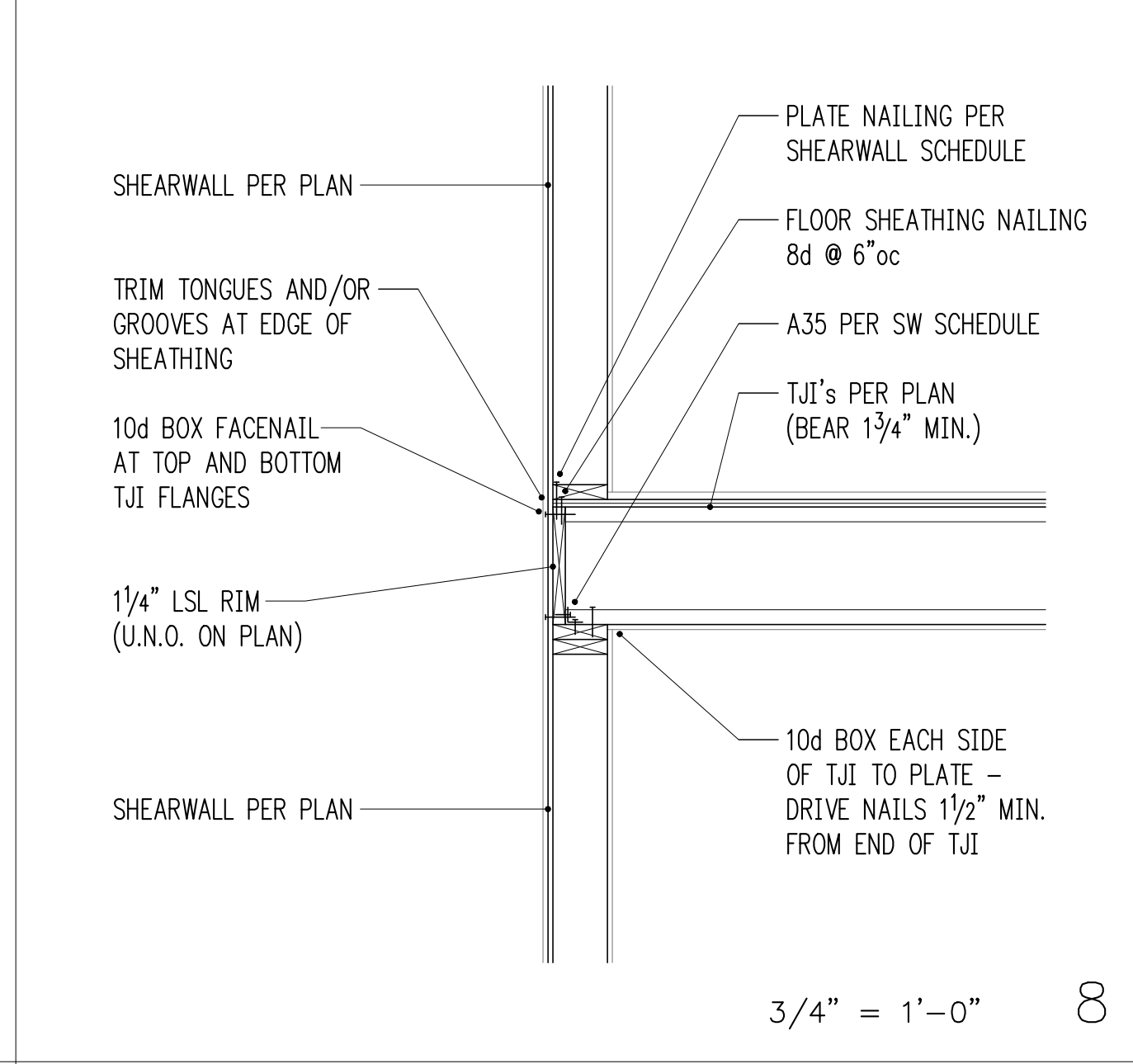
3/4" = 1'-0" 3



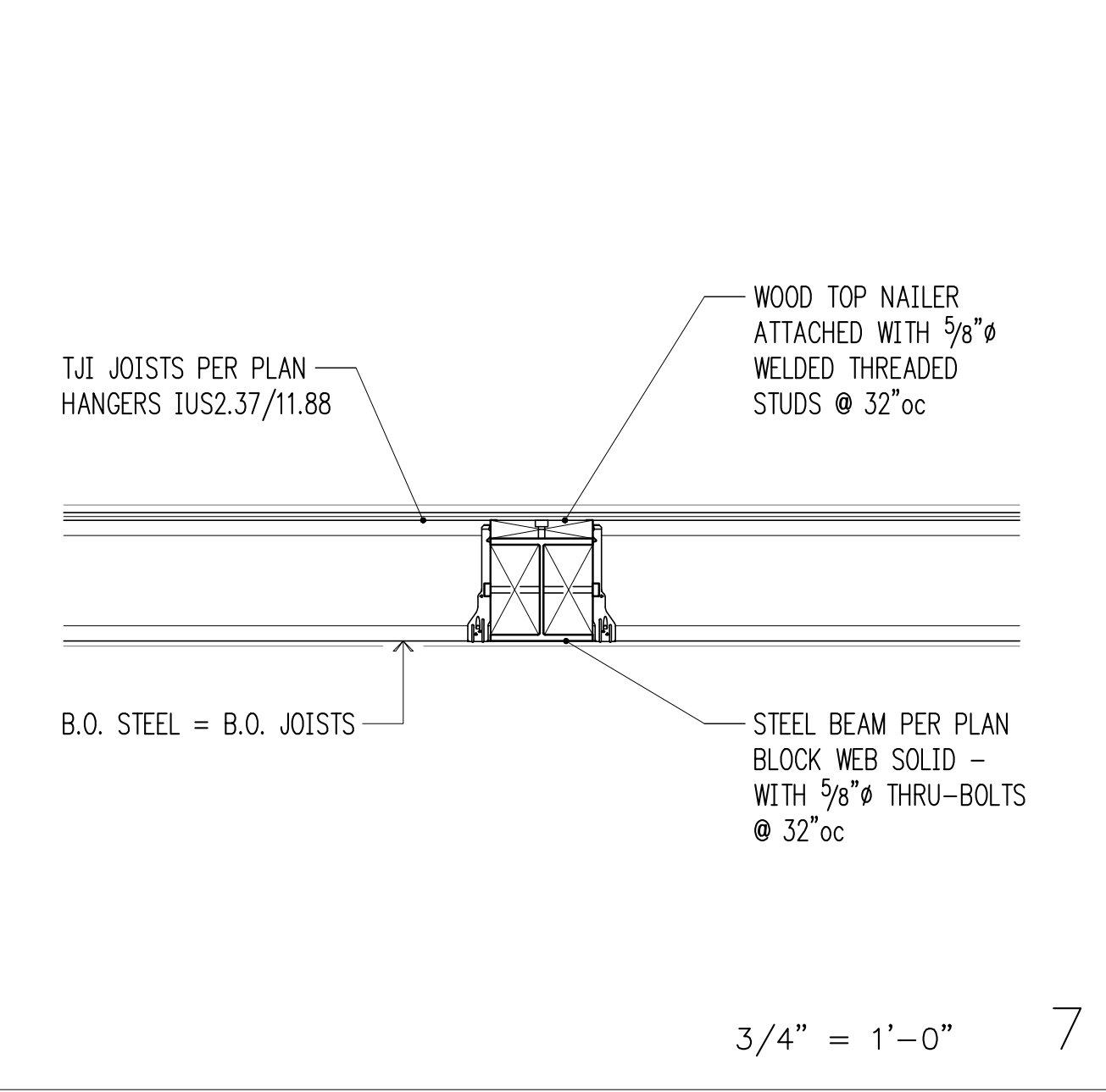
3/4" = 1'-0" 2



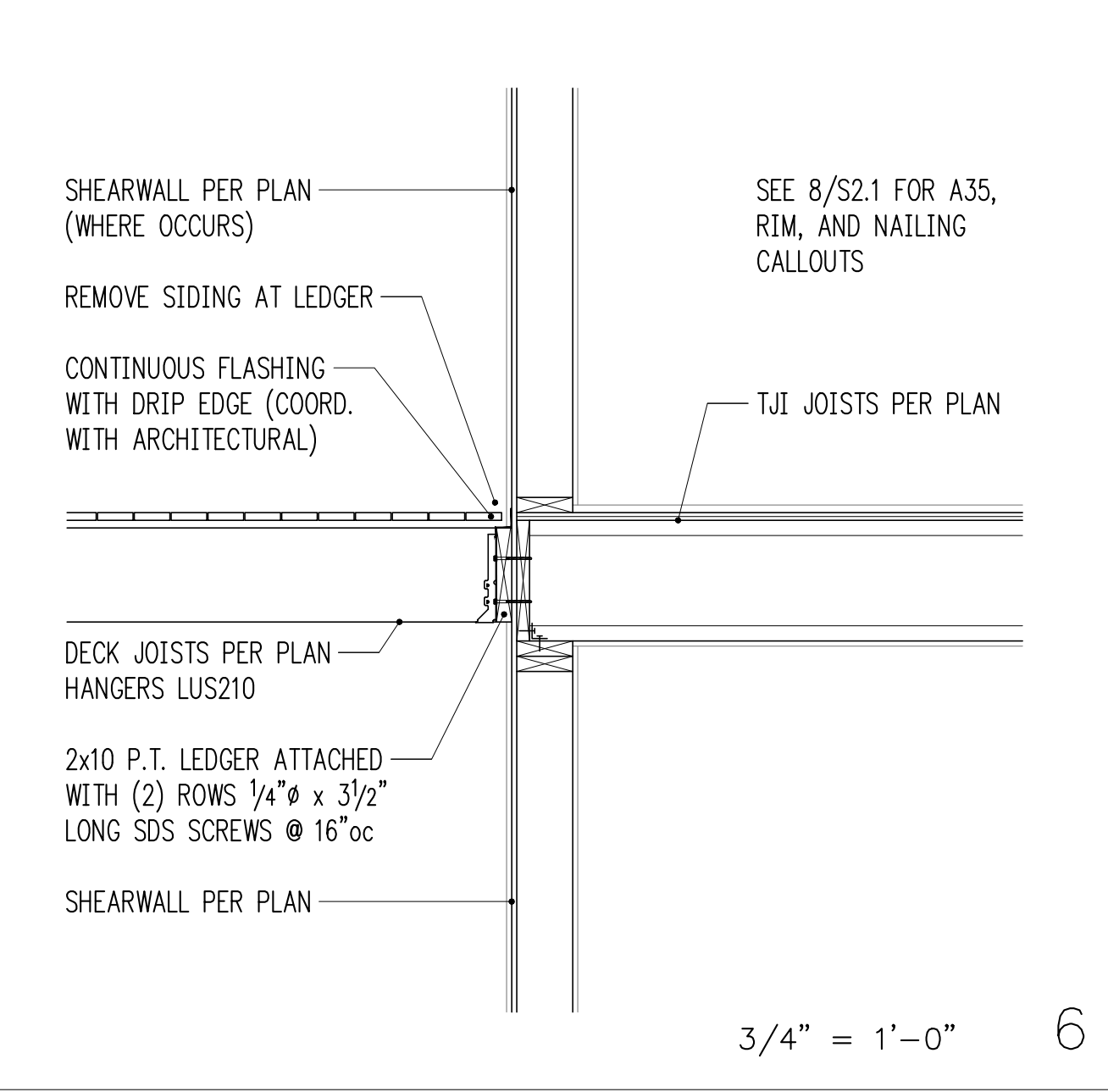
3/4" = 1'-0" 1



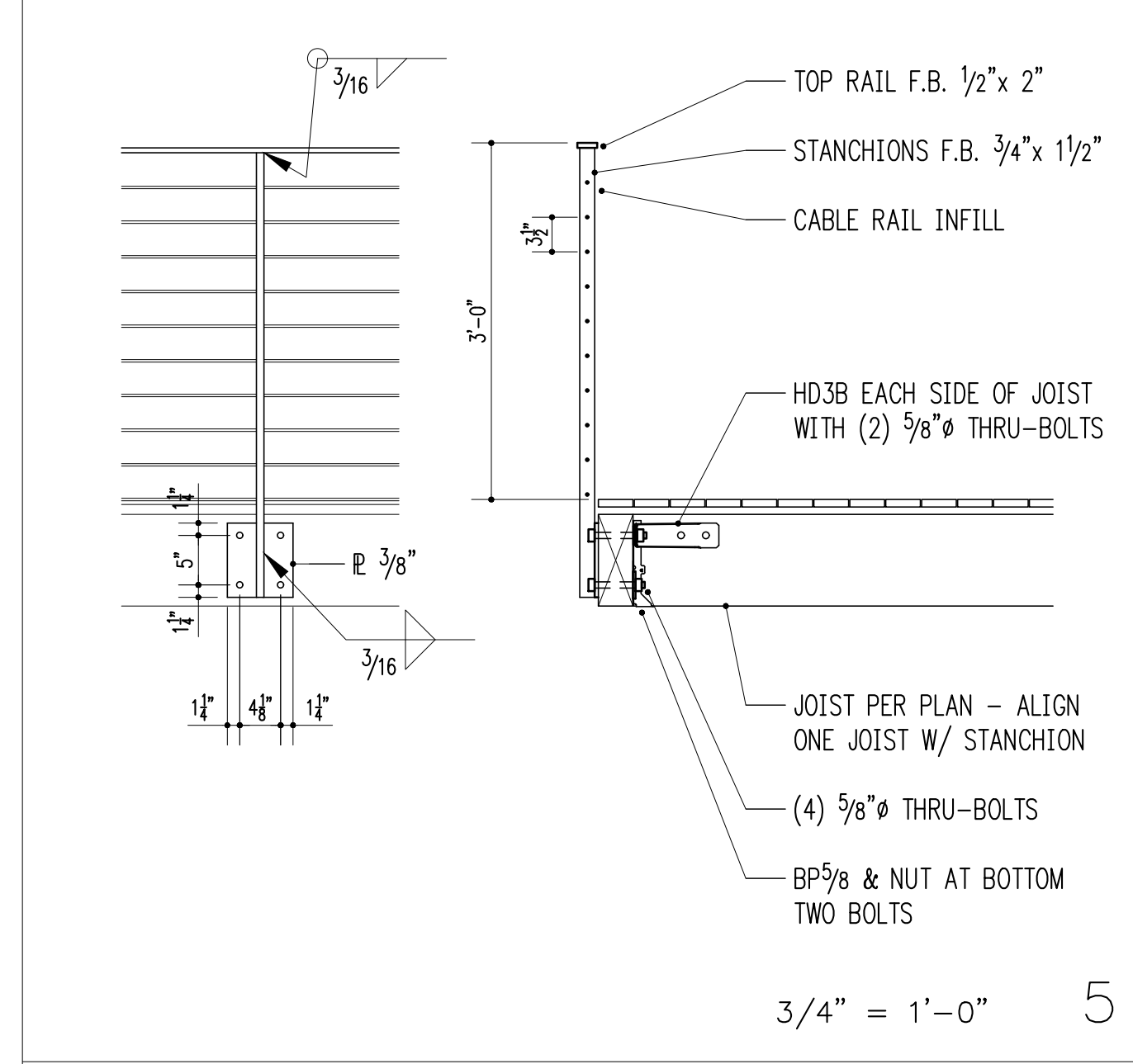
3/4" = 1'-0" 8



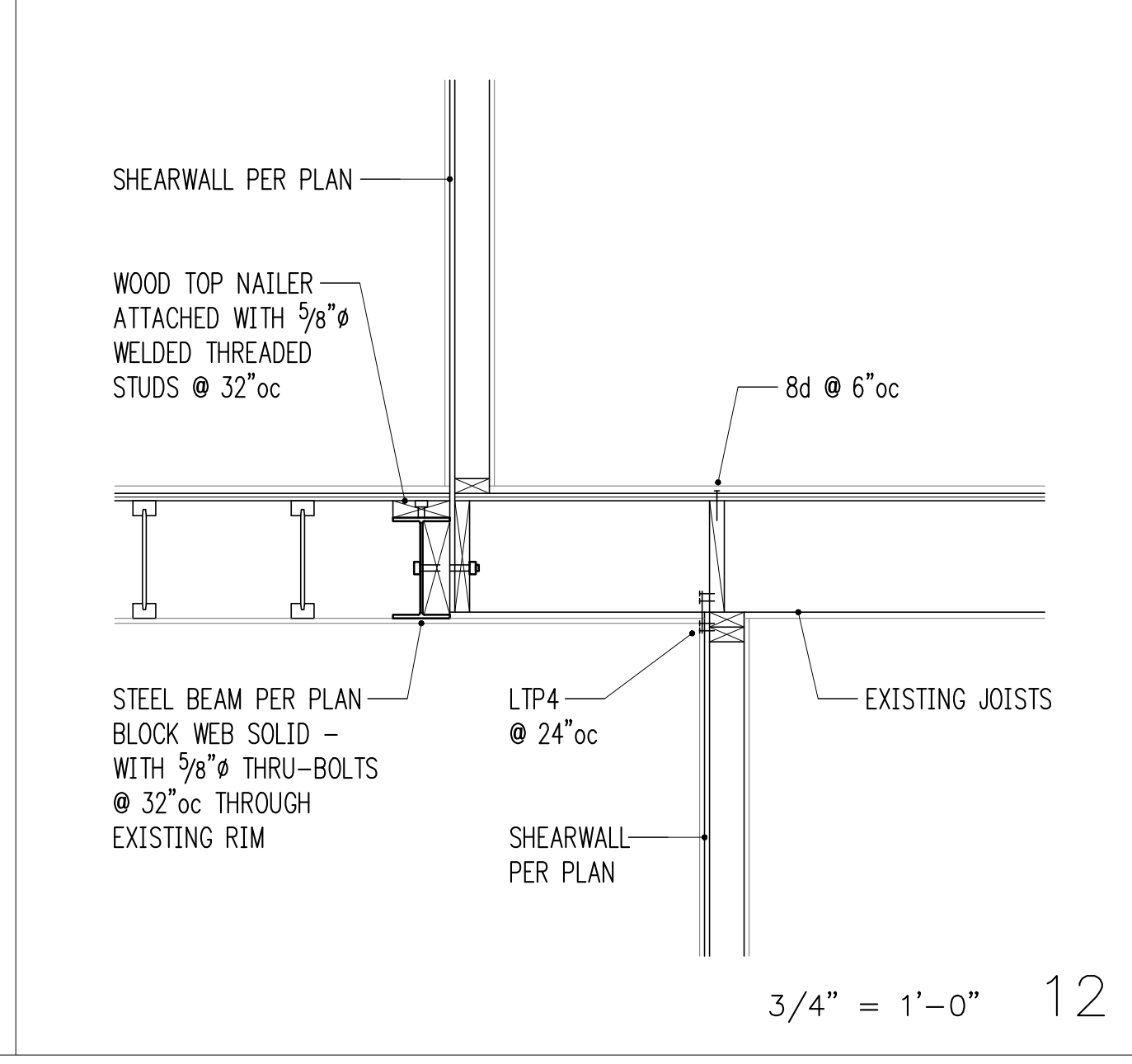
3/4" = 1'-0" 7



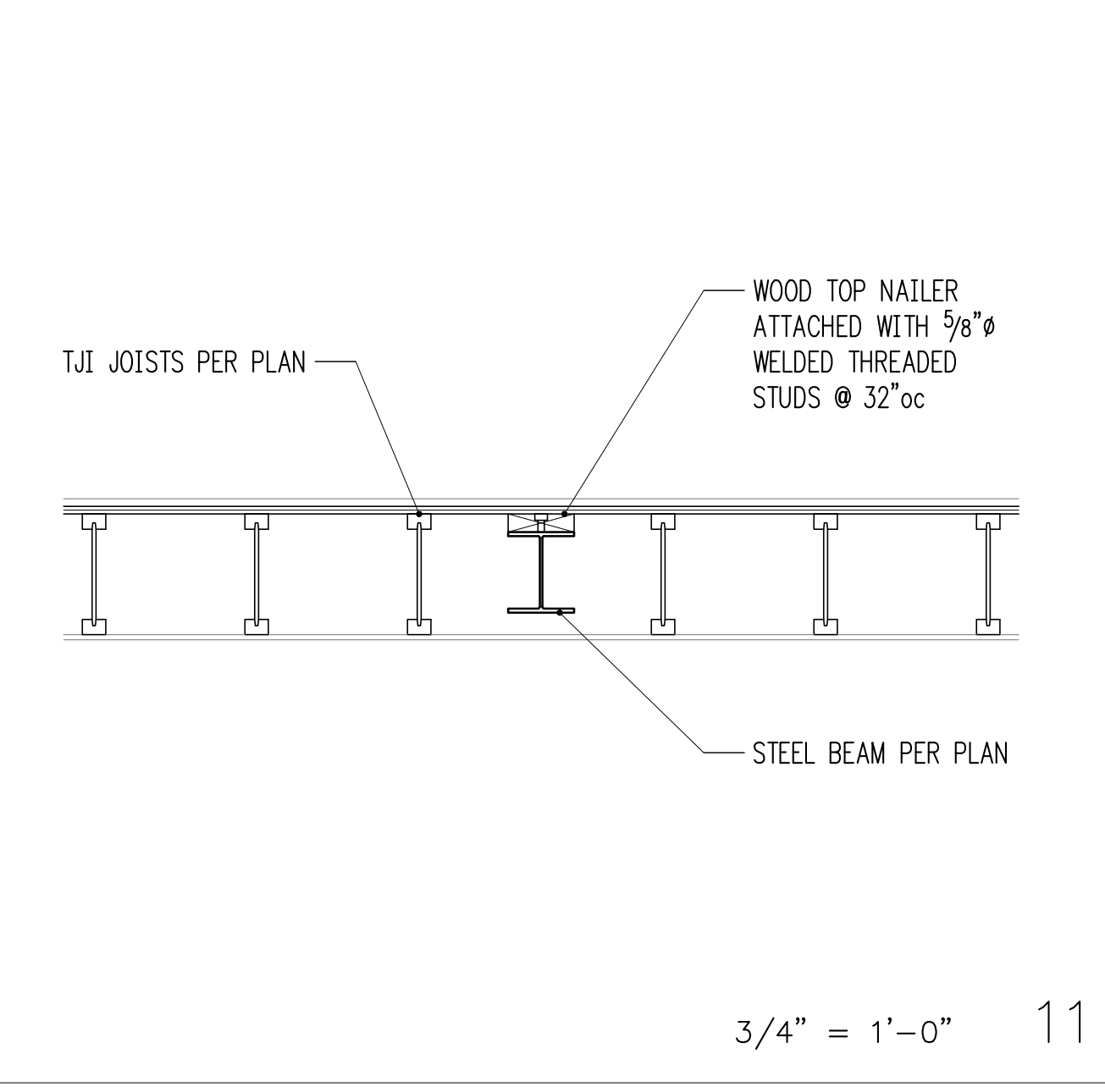
3/4" = 1'-0" 6



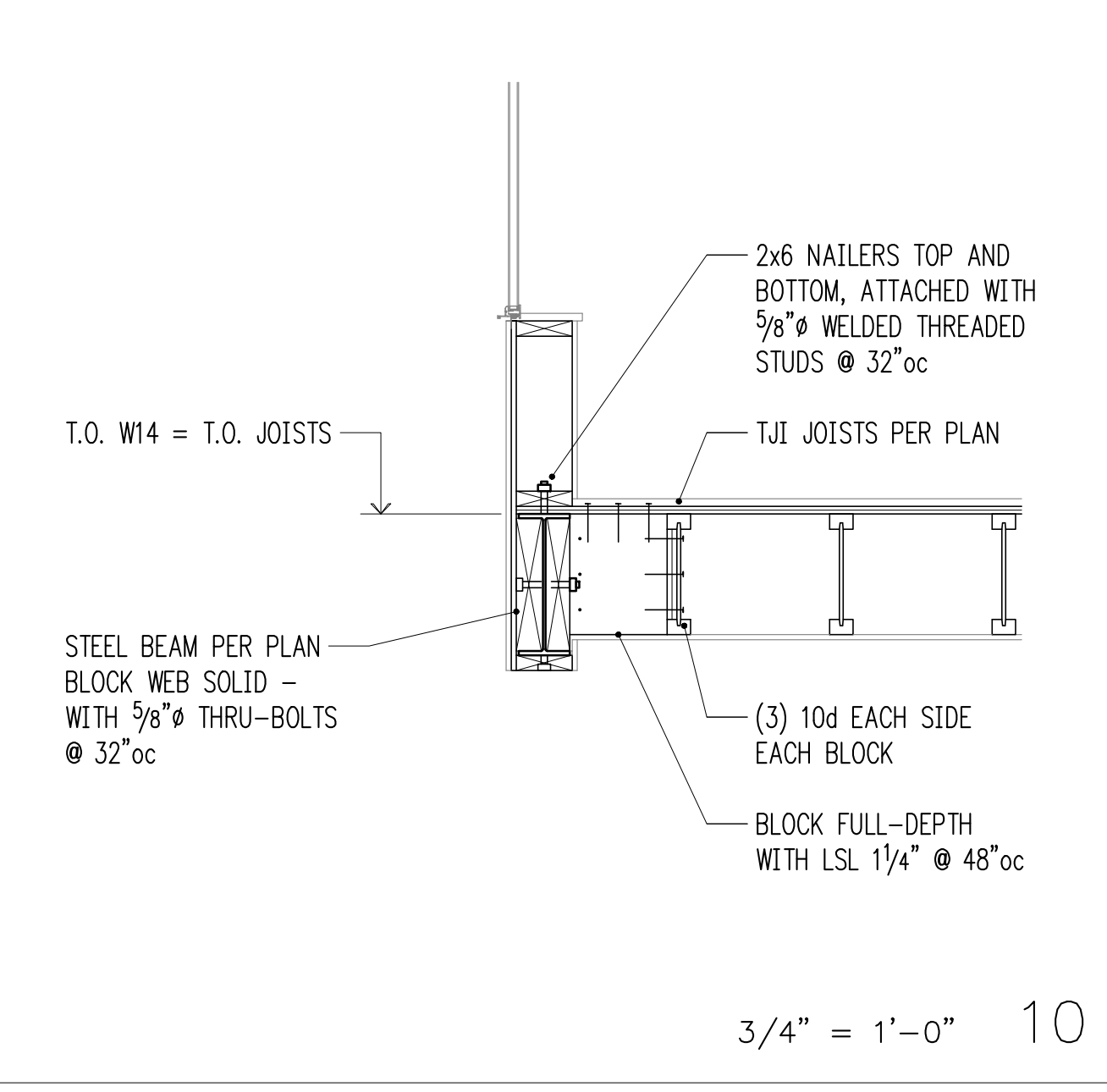
3/4" = 1'-0" 5



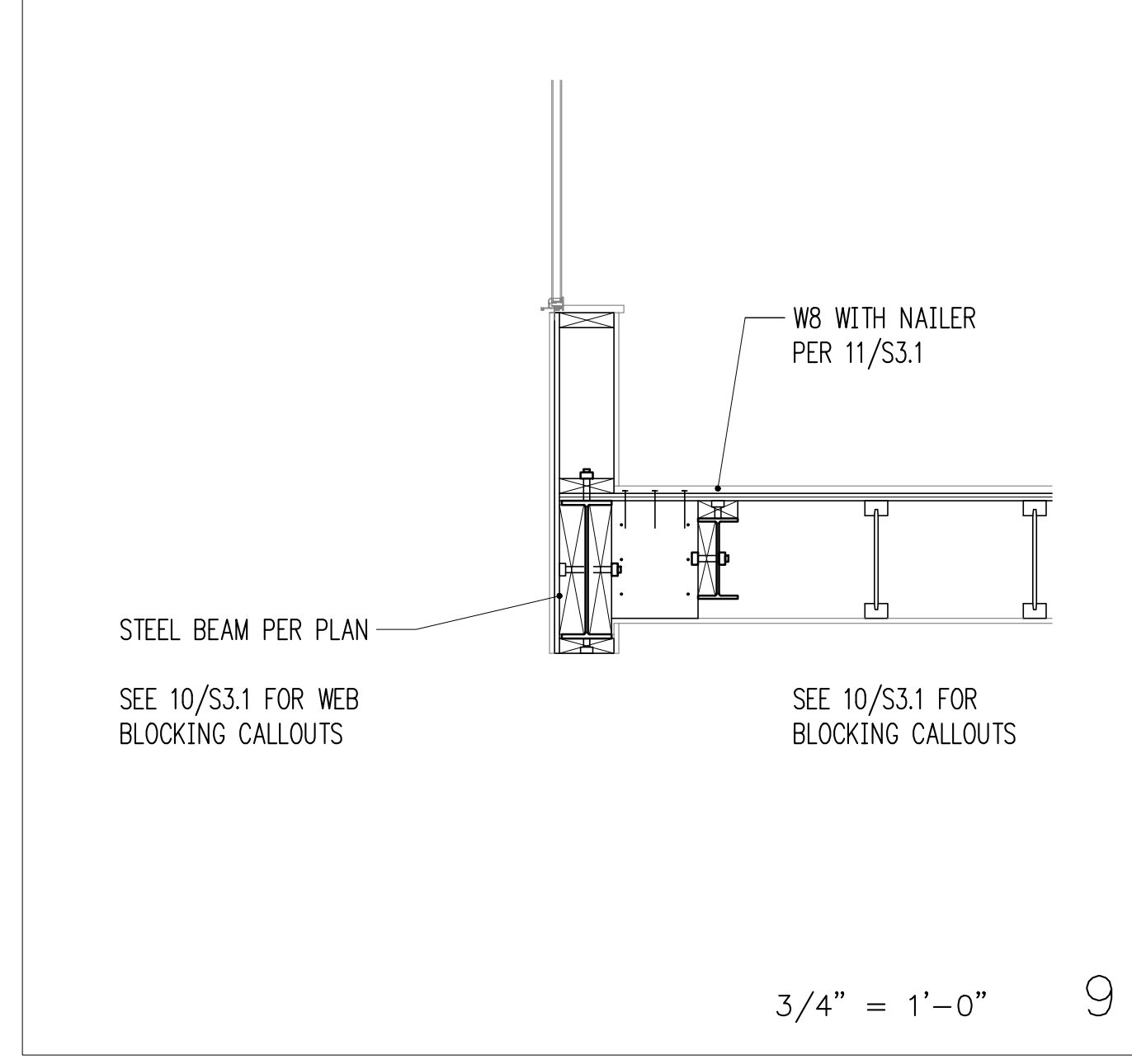
3/4" = 1'-0" 12



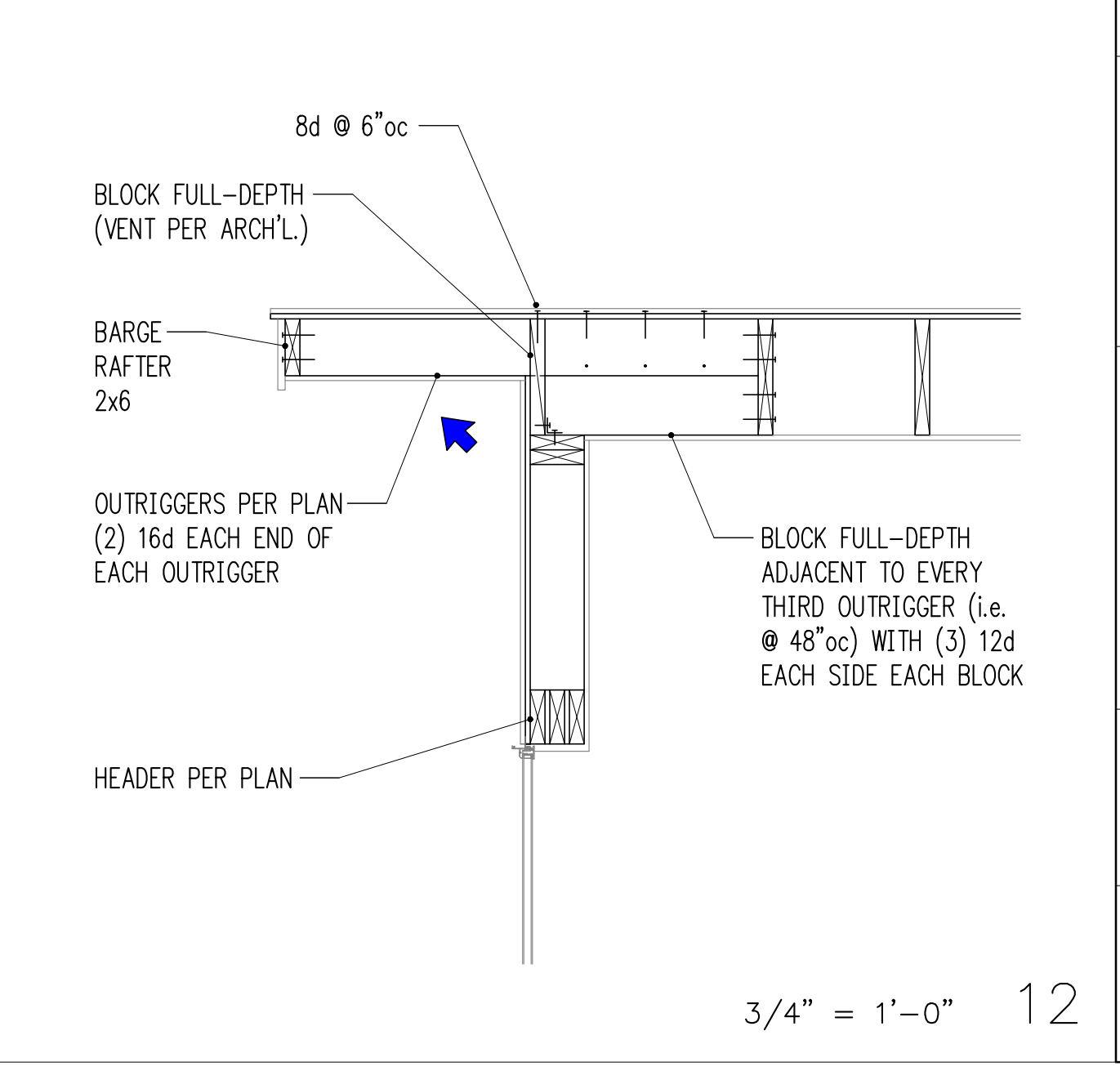
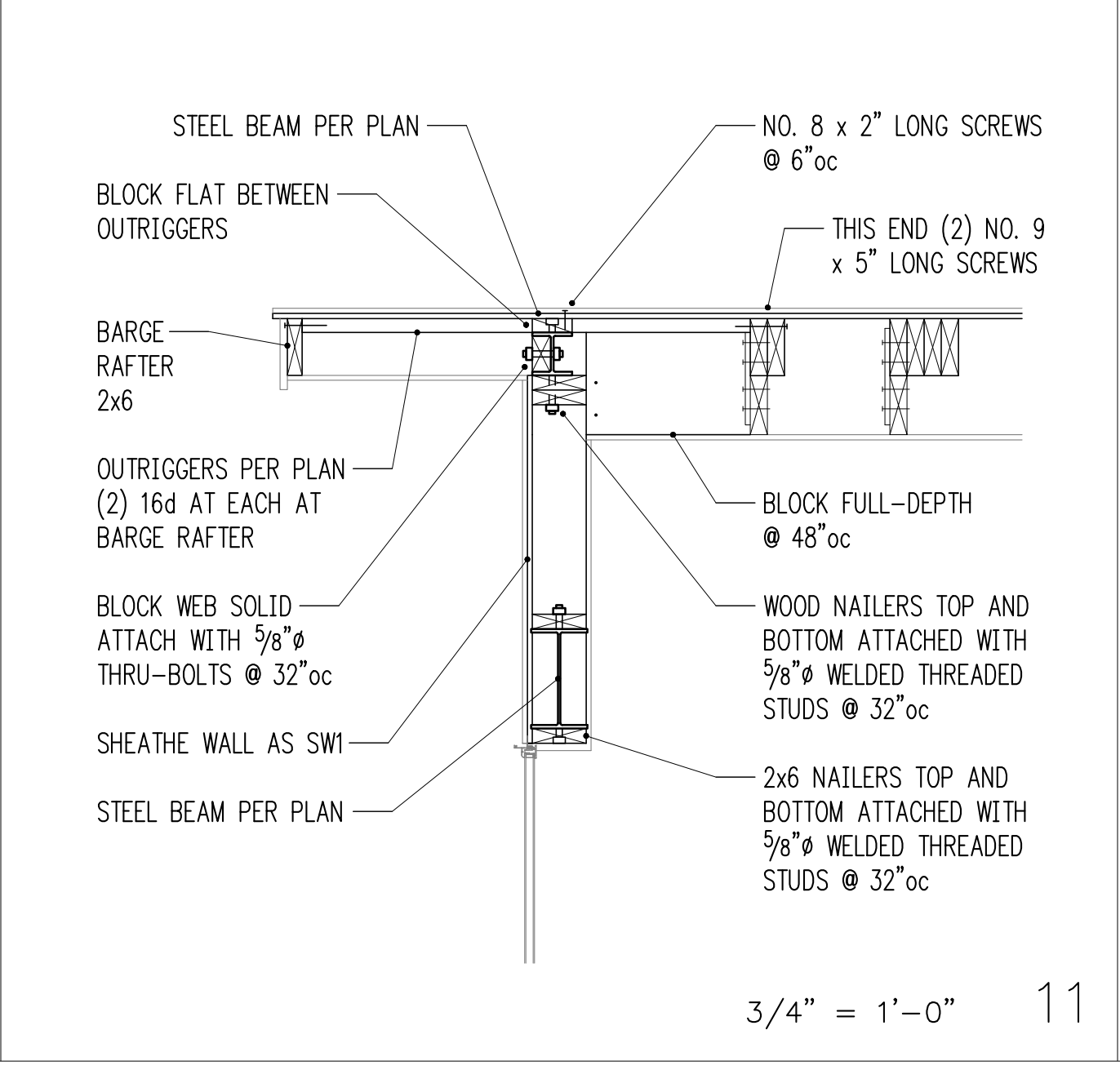
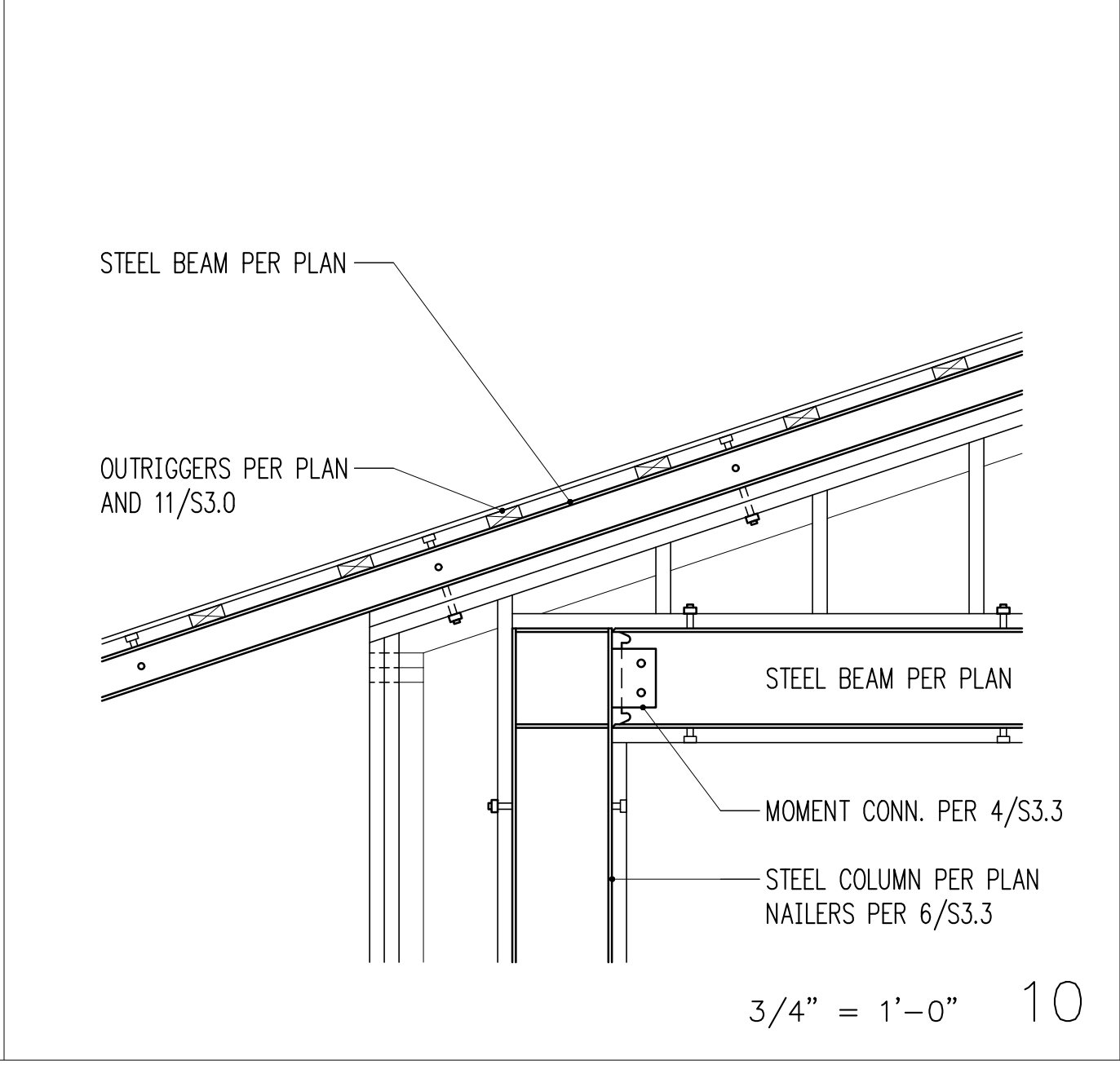
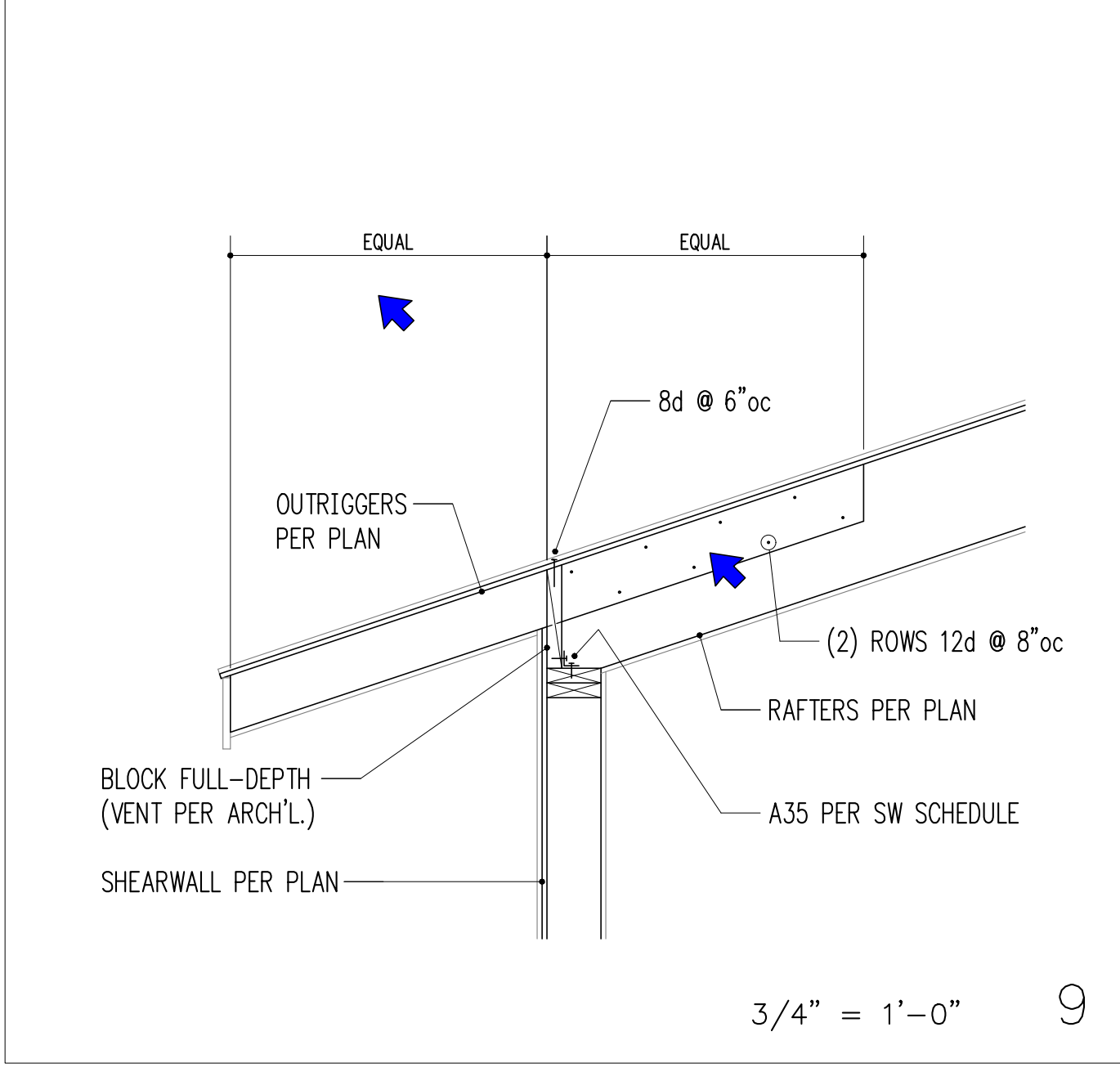
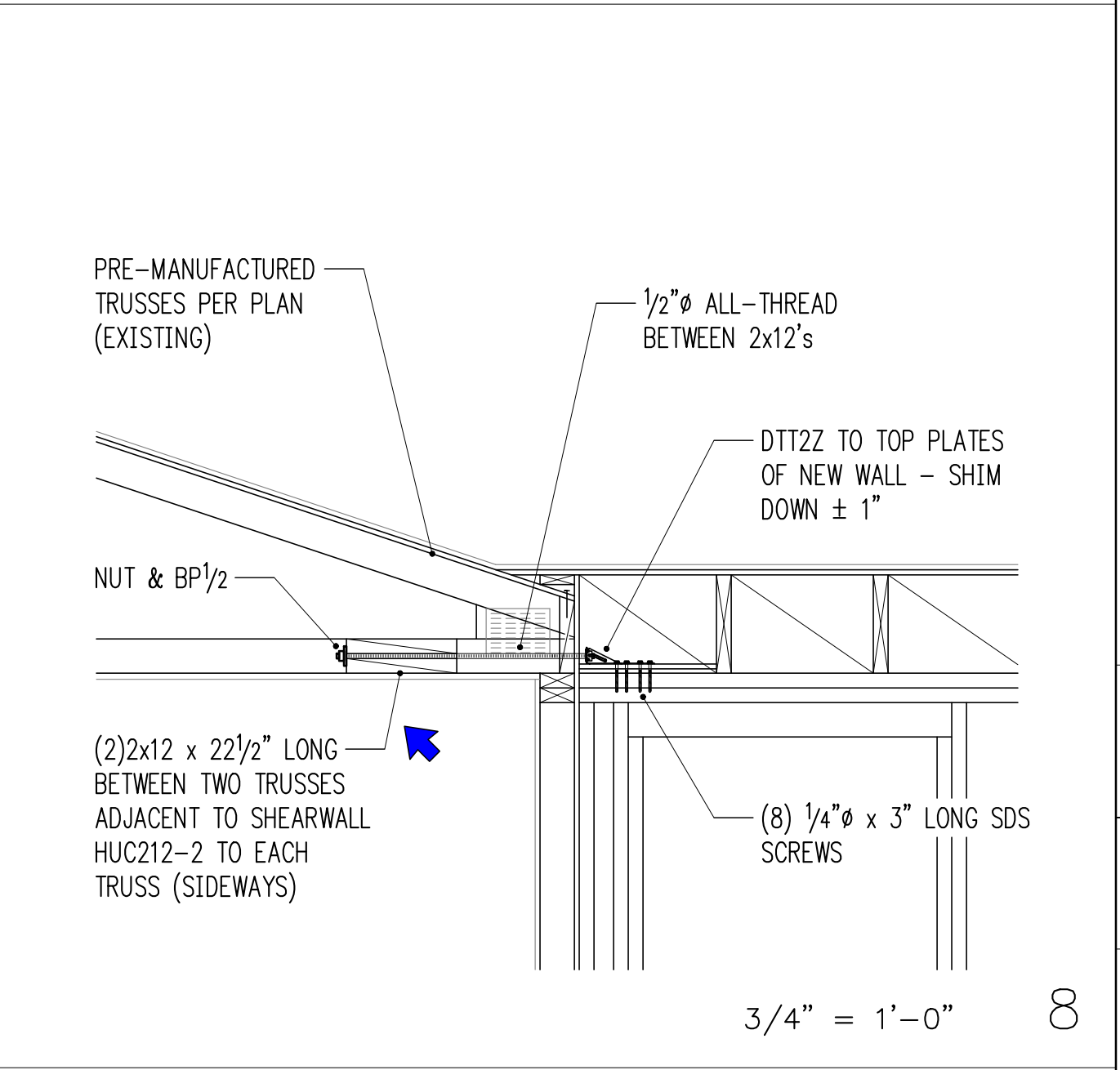
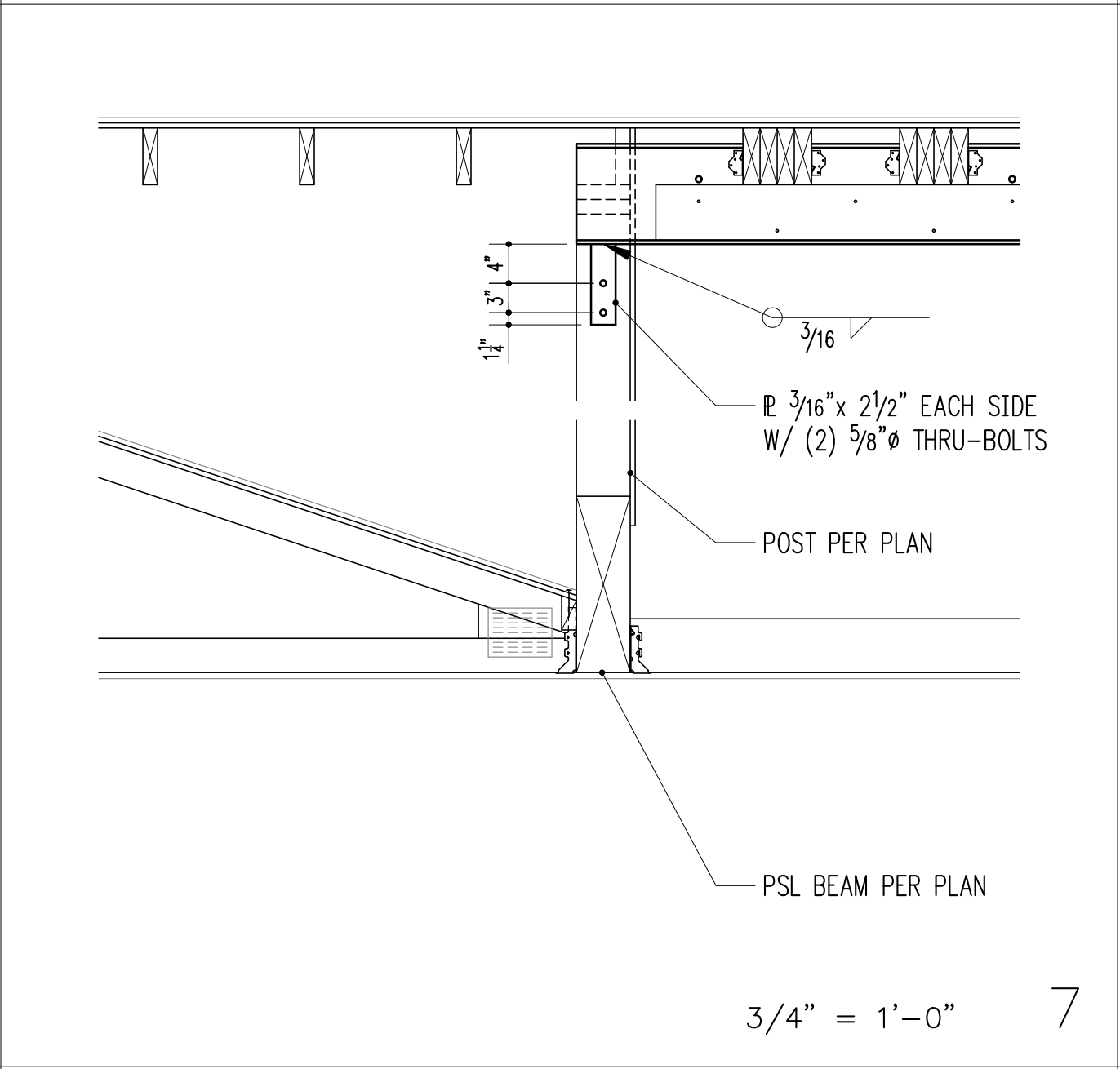
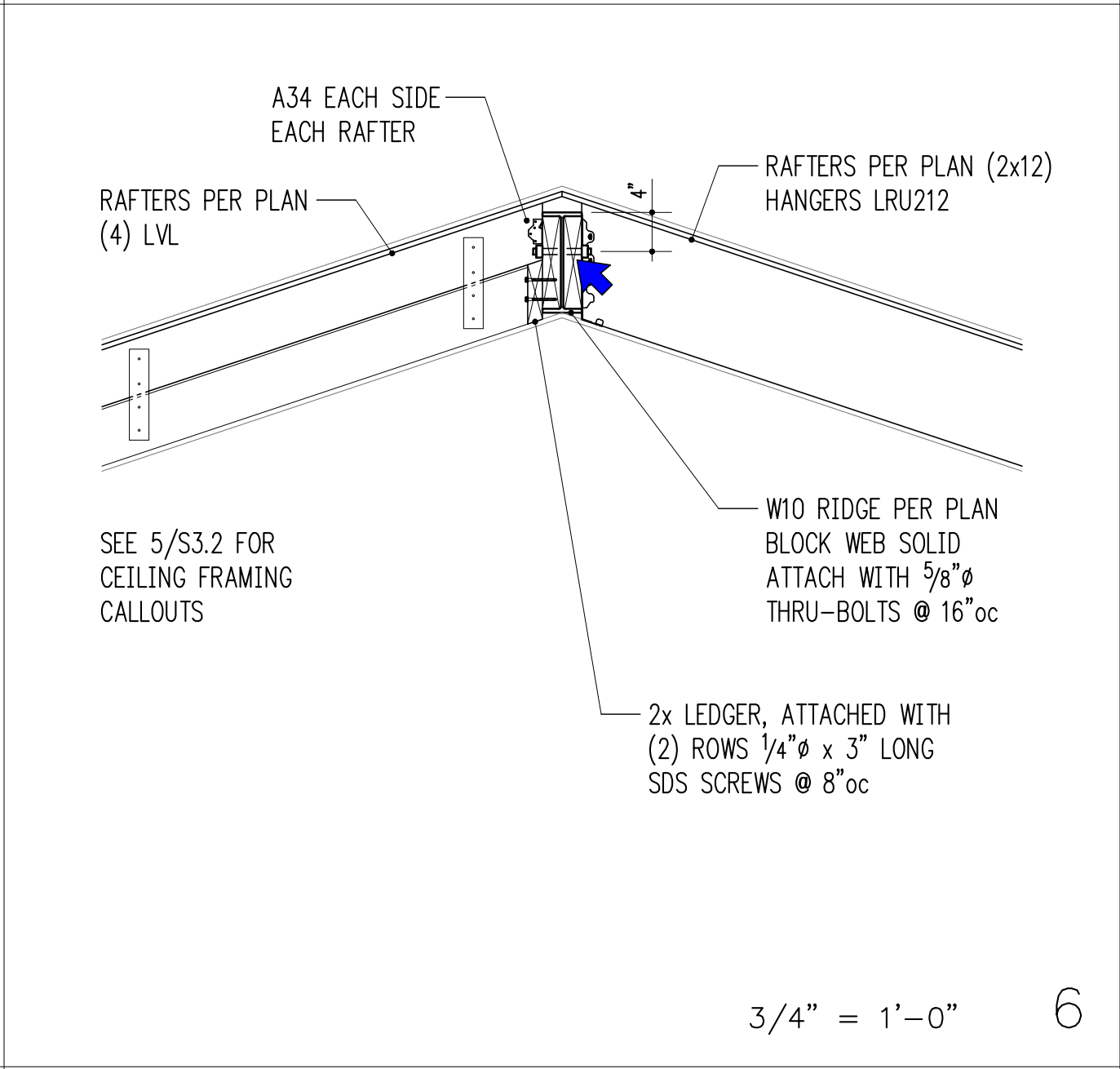
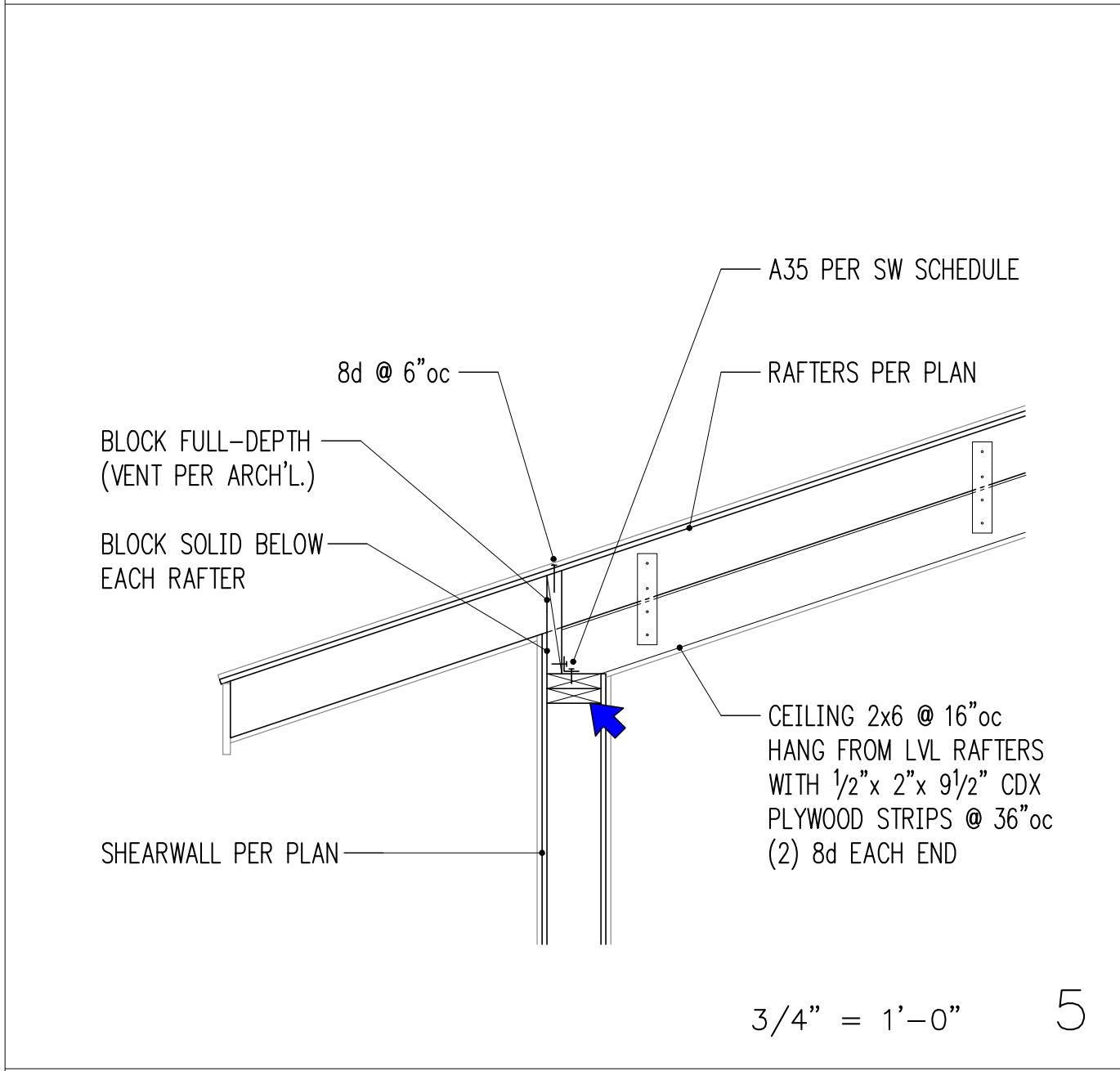
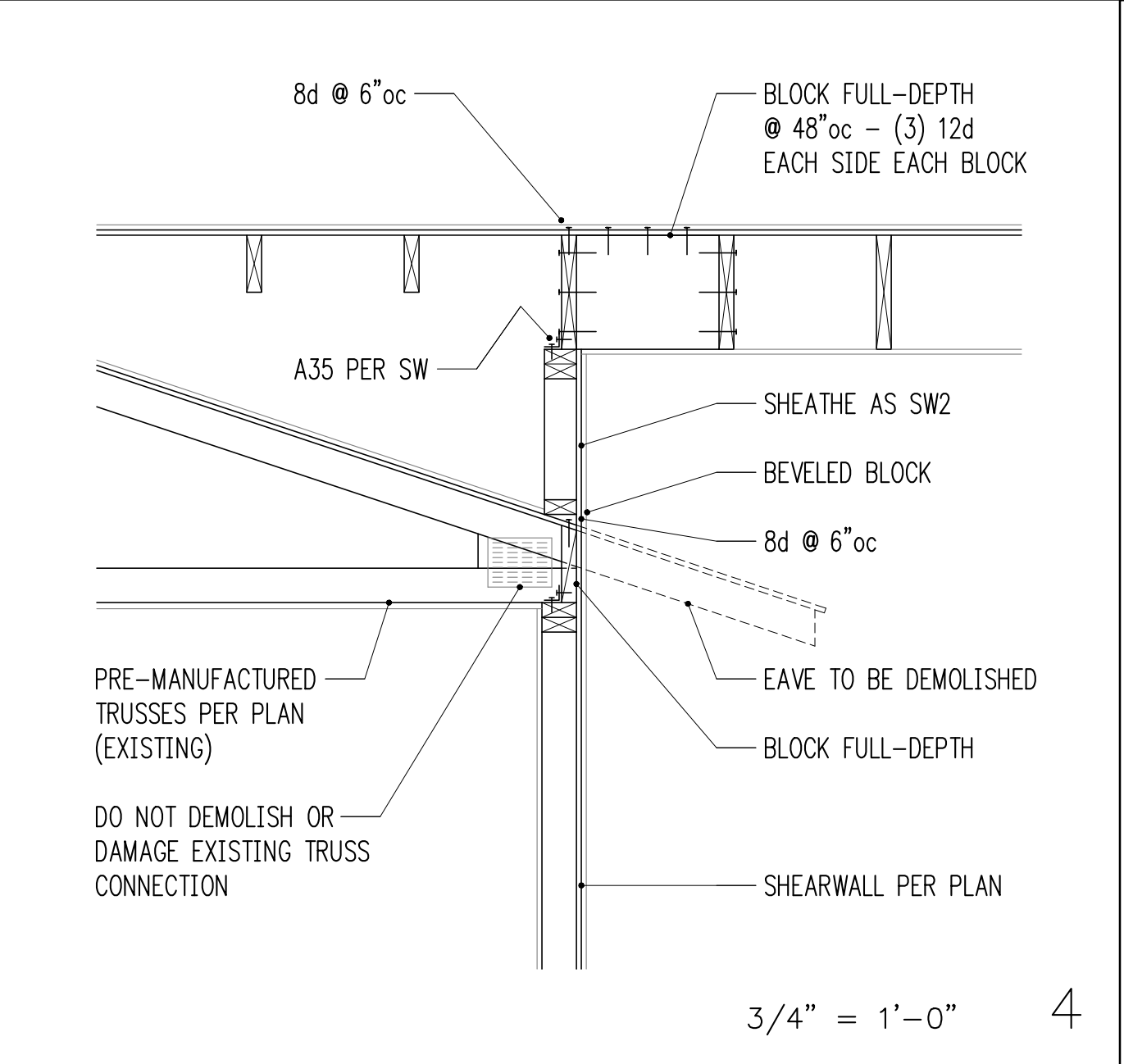
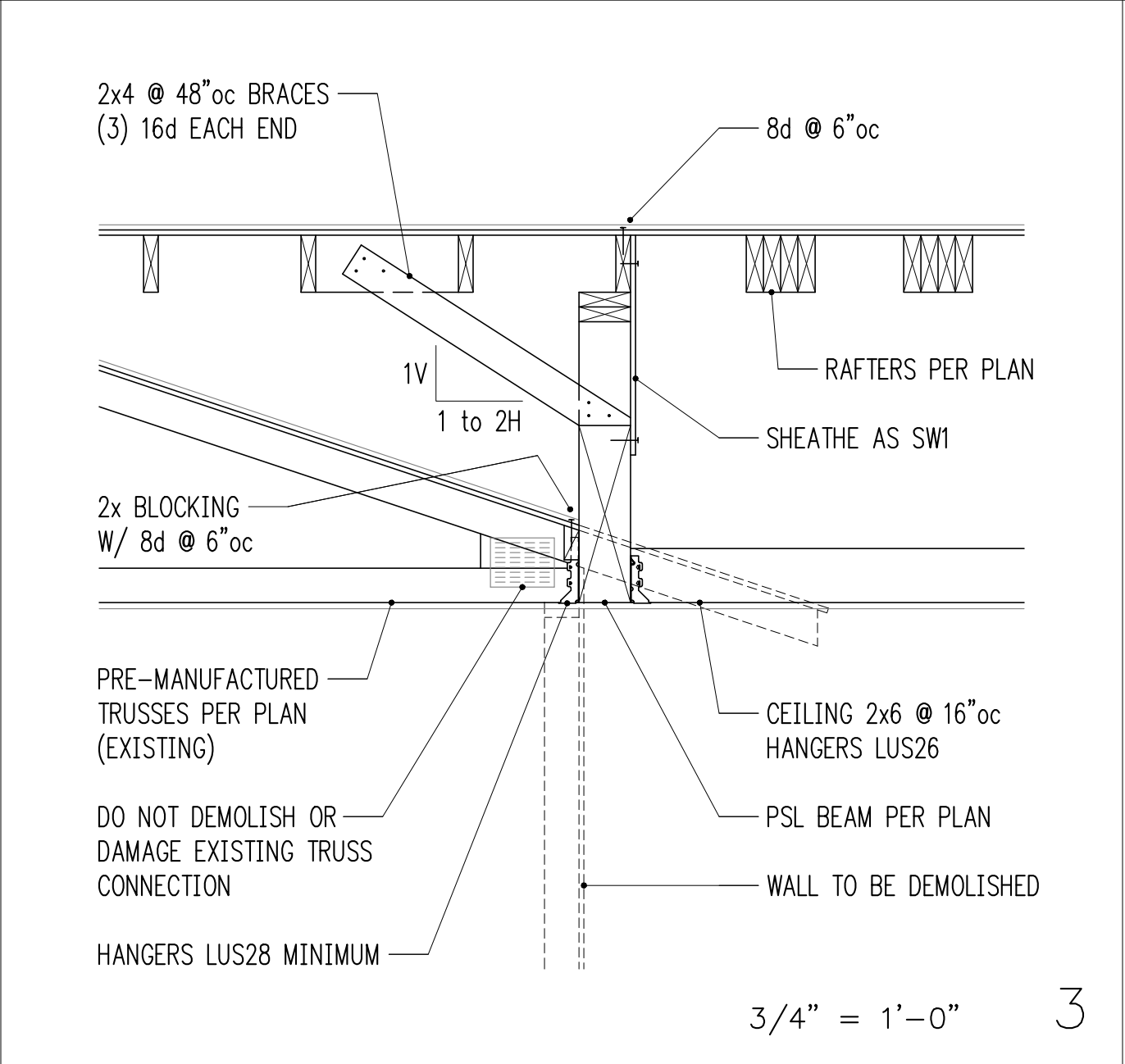
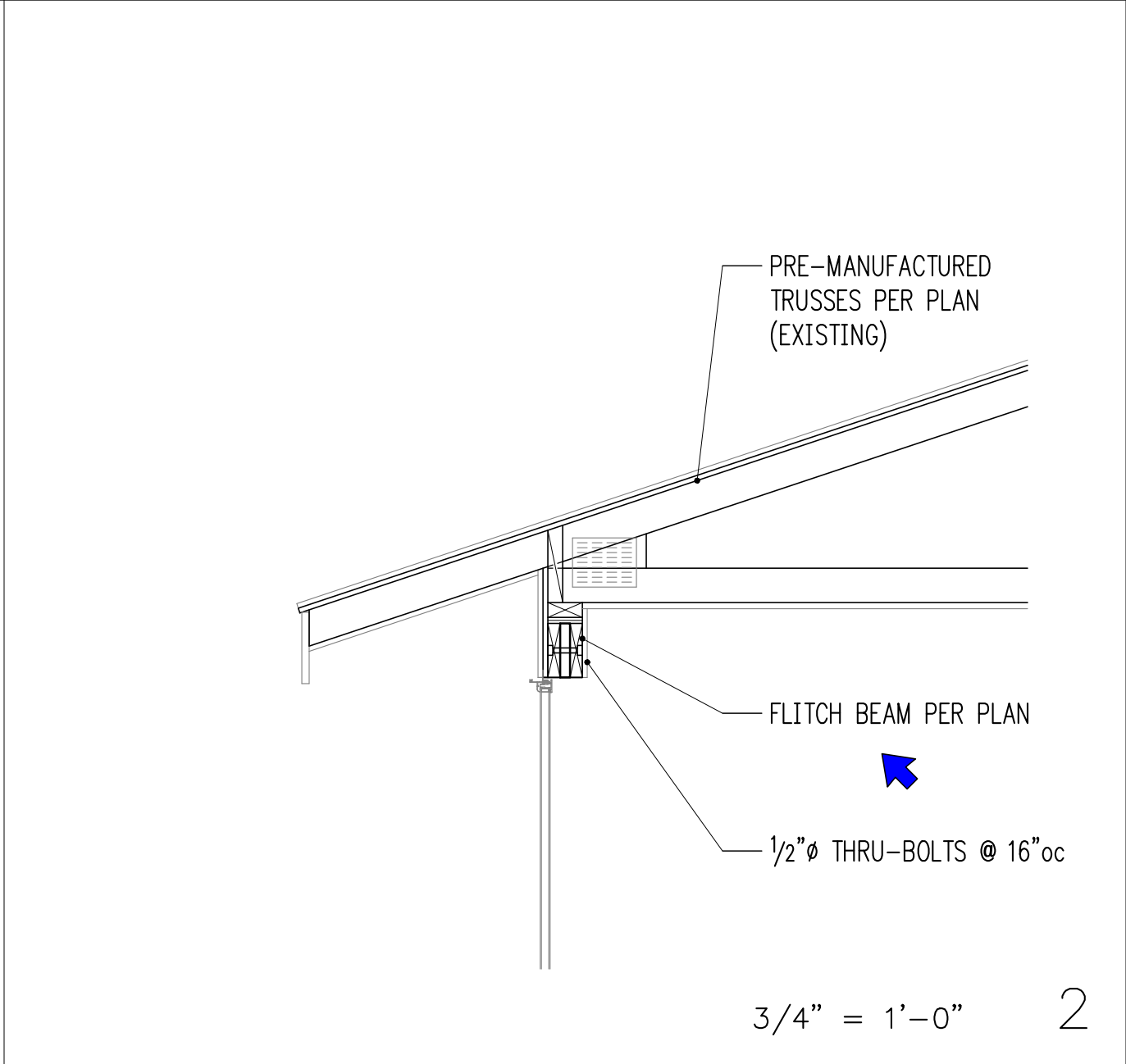
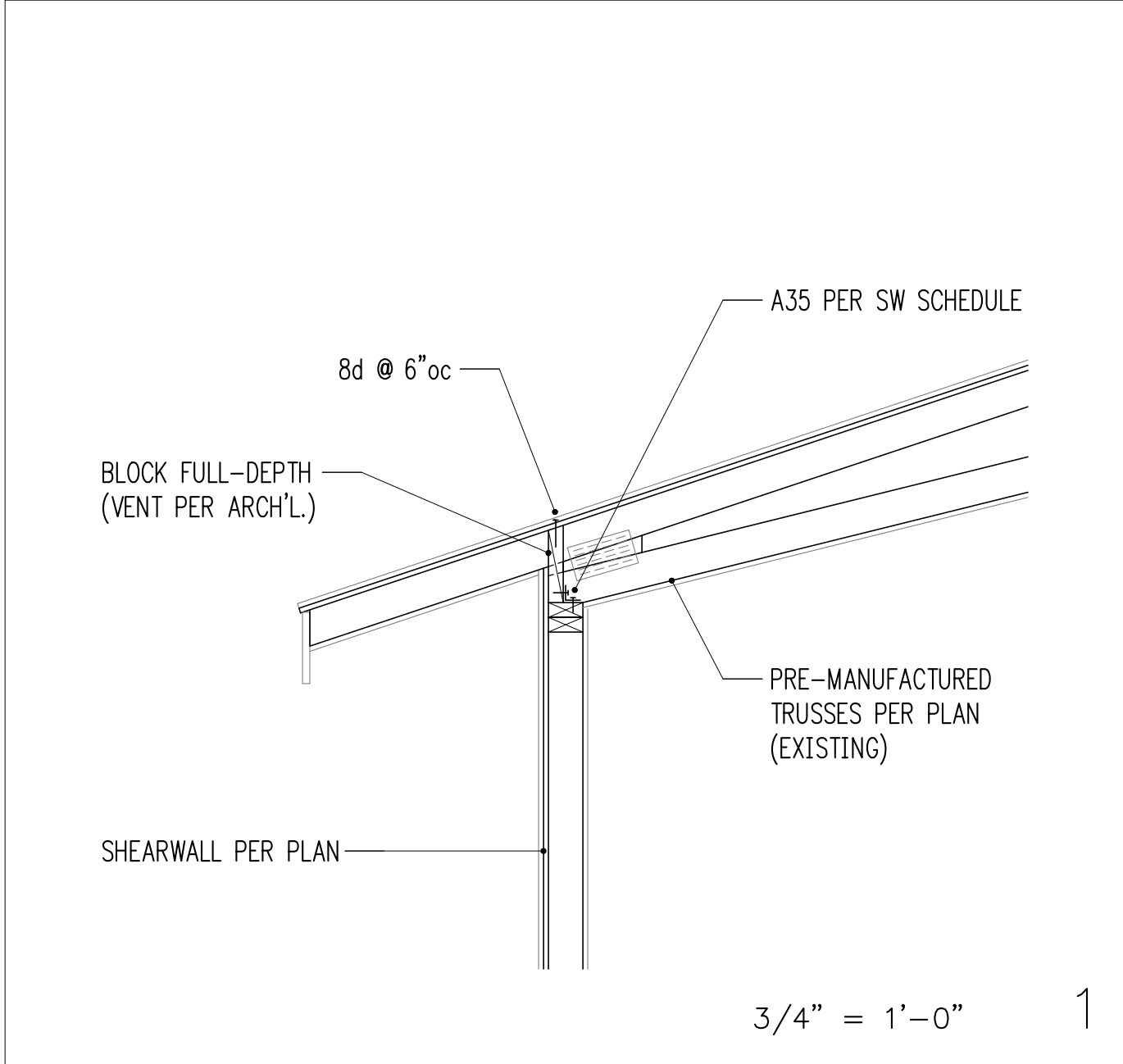
3/4" = 1'-0" 11



3/4" = 1'-0" 10



3/4" = 1'-0" 9



**HV**  
 Harriott Valentine Engineers Inc.  
 1932 First Avenue, Suite 720  
 Seattle, Washington 98101-2447  
 tel 206 624 4760 fax 206 447 6971  
 www.harriottvalentine.com



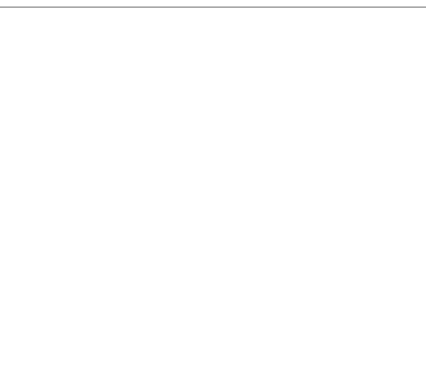
Project Contact  
 Jim Harriott  
 tel 206 624 4760 ex. 31  
 fax 206 447 6971  
 jharriott@harriottvalentine.com

Project Architect  
 Patricia Brennan Architects  
 224 Pontius Avenue North, Suite 117  
 Seattle, WA 98109

Project  
**Nader Residence**  
 5472 West Mercer Way  
 Mercer Island, WA 98040

Issue Date	Issue Description
6/18/20	Permit Submittal
7/27/20	Site Wall Revisions

Building Department Approval



Drawing Title  
**STRUCTURAL DETAILS**

Drawing Number  
**S3.2**

NADER RESIDENCE



**Project Contact**  
 Jim Harriott  
 tel 206 624 4760 ex. 31  
 fax 206 447 6971  
 jharriott@harriottvalentine.com

**Project Architect**  
 Patricia Brennan Architects  
 224 Pontius Avenue North, Suite 117  
 Seattle, WA 98109

**Project**  
**Nader Residence**  
 5472 West Mercer Way  
 Mercer Island, WA 98040

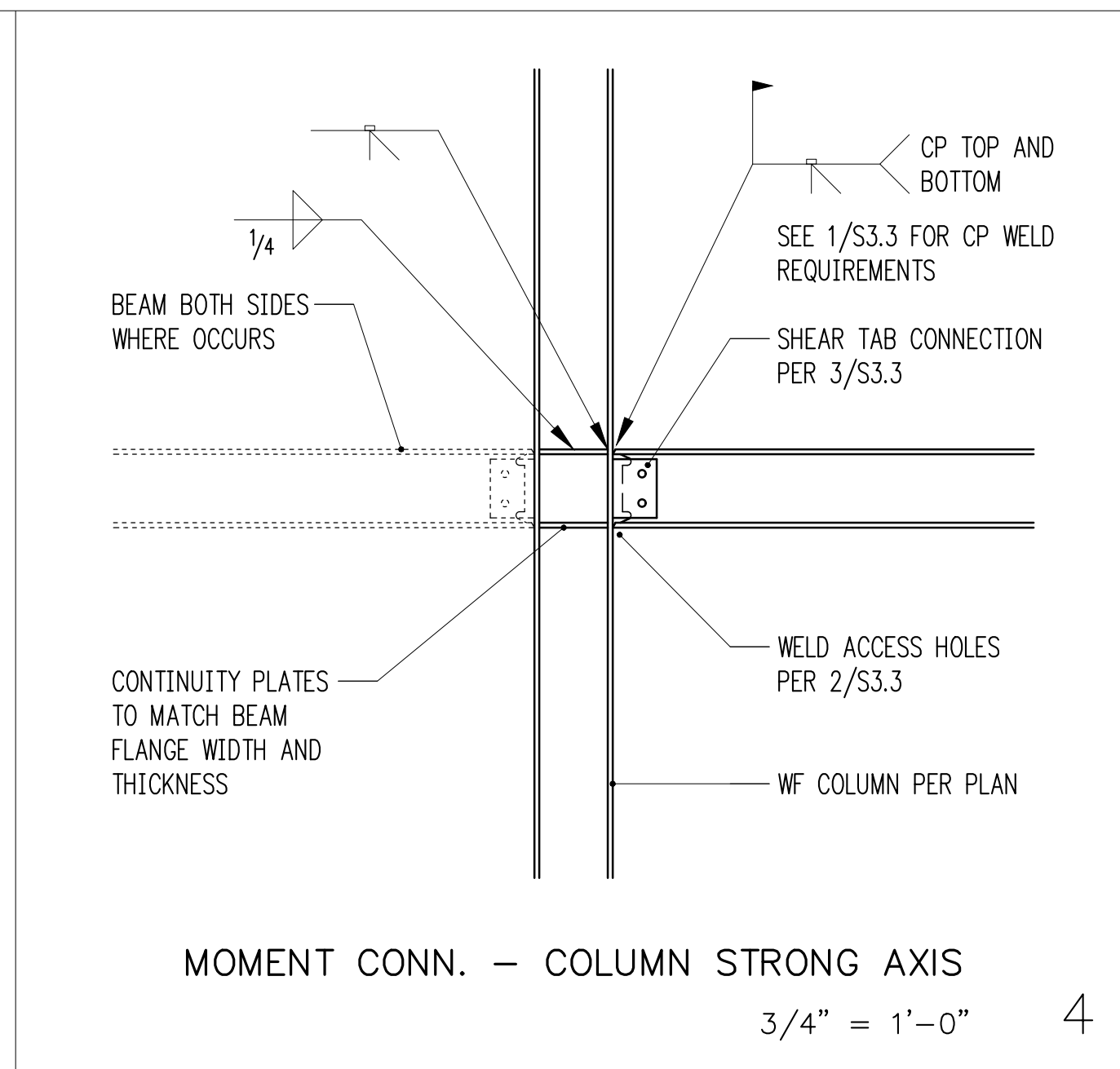
Issue Date	Issue Description
6/18/20	Permit Submittal
7/27/20	Site Wall Revisions

**Building Department Approval**

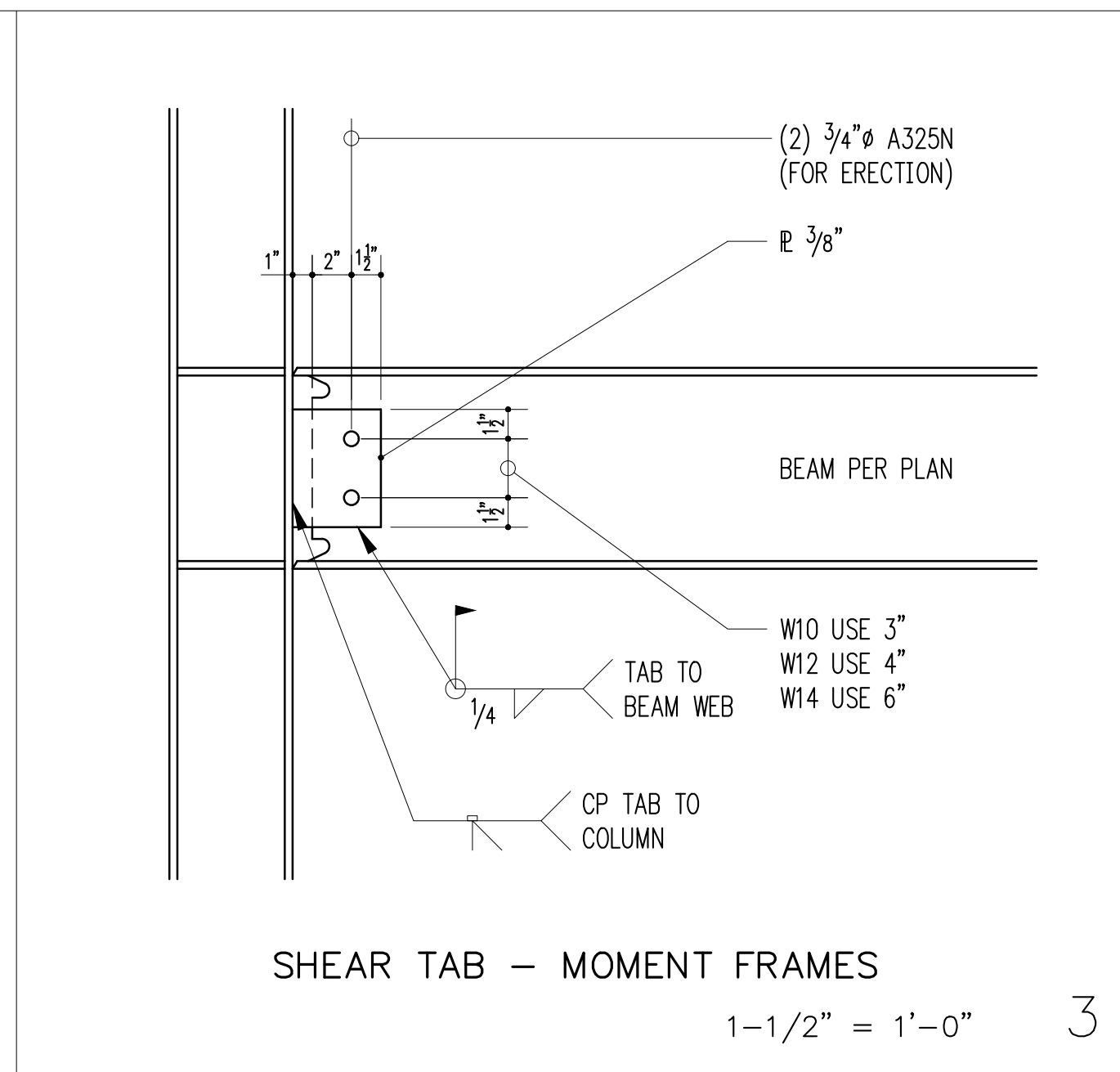
**Drawing Title**  
**STRUCTURAL DETAILS**

**Drawing Number**  
**S3.3**

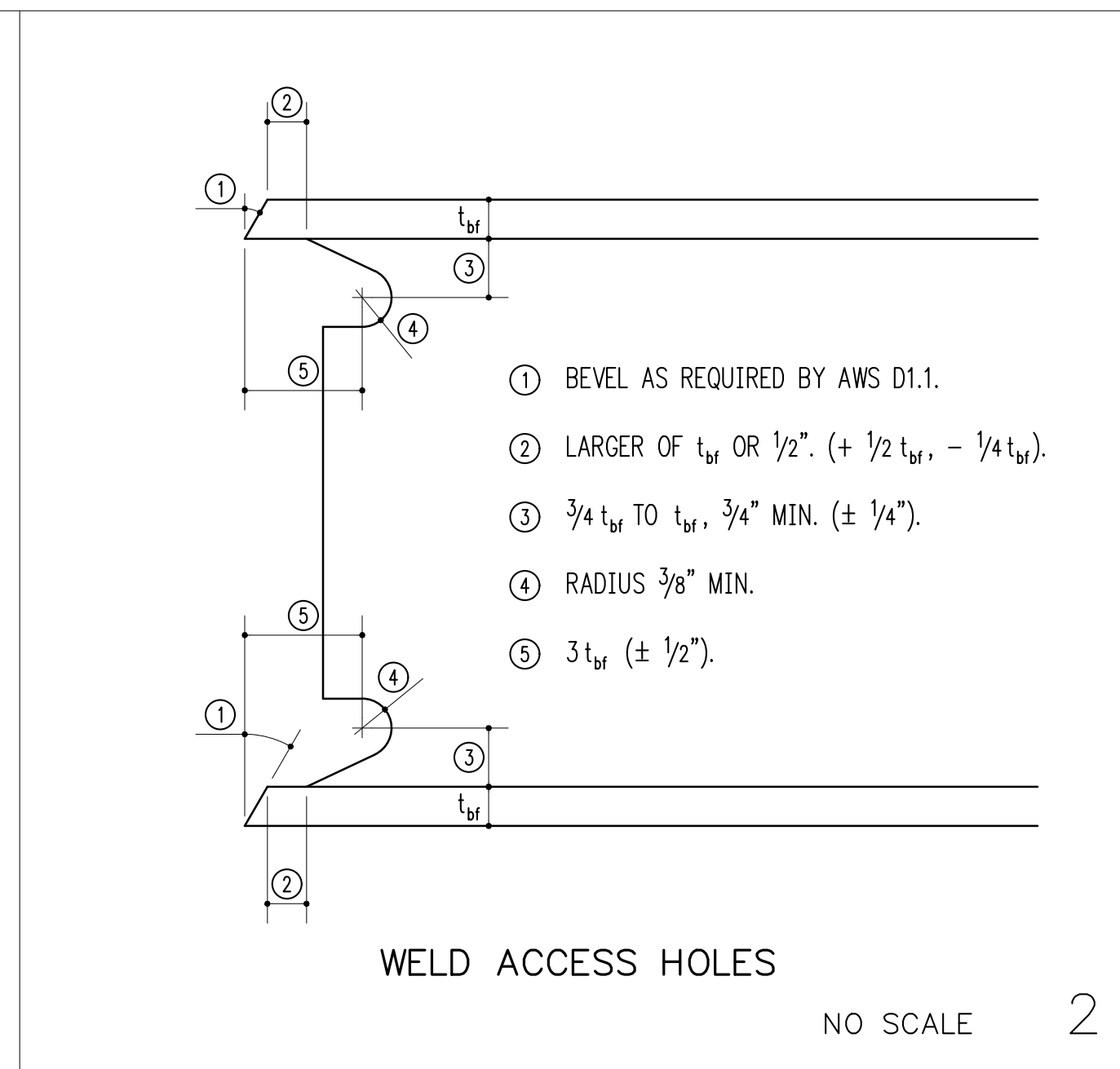
NADER RESIDENCE



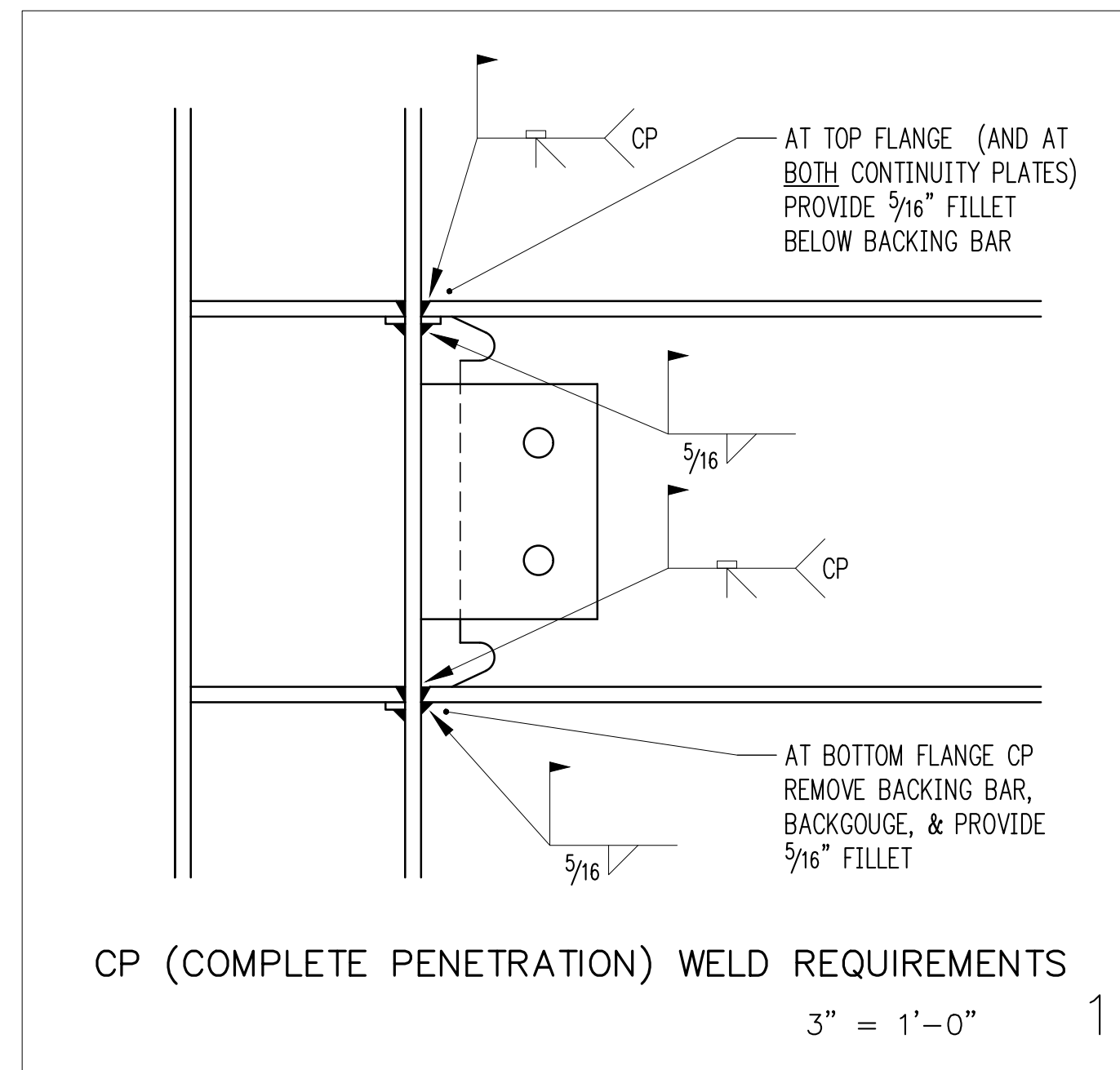
MOMENT CONN. - COLUMN STRONG AXIS  
 3/4" = 1'-0" 4



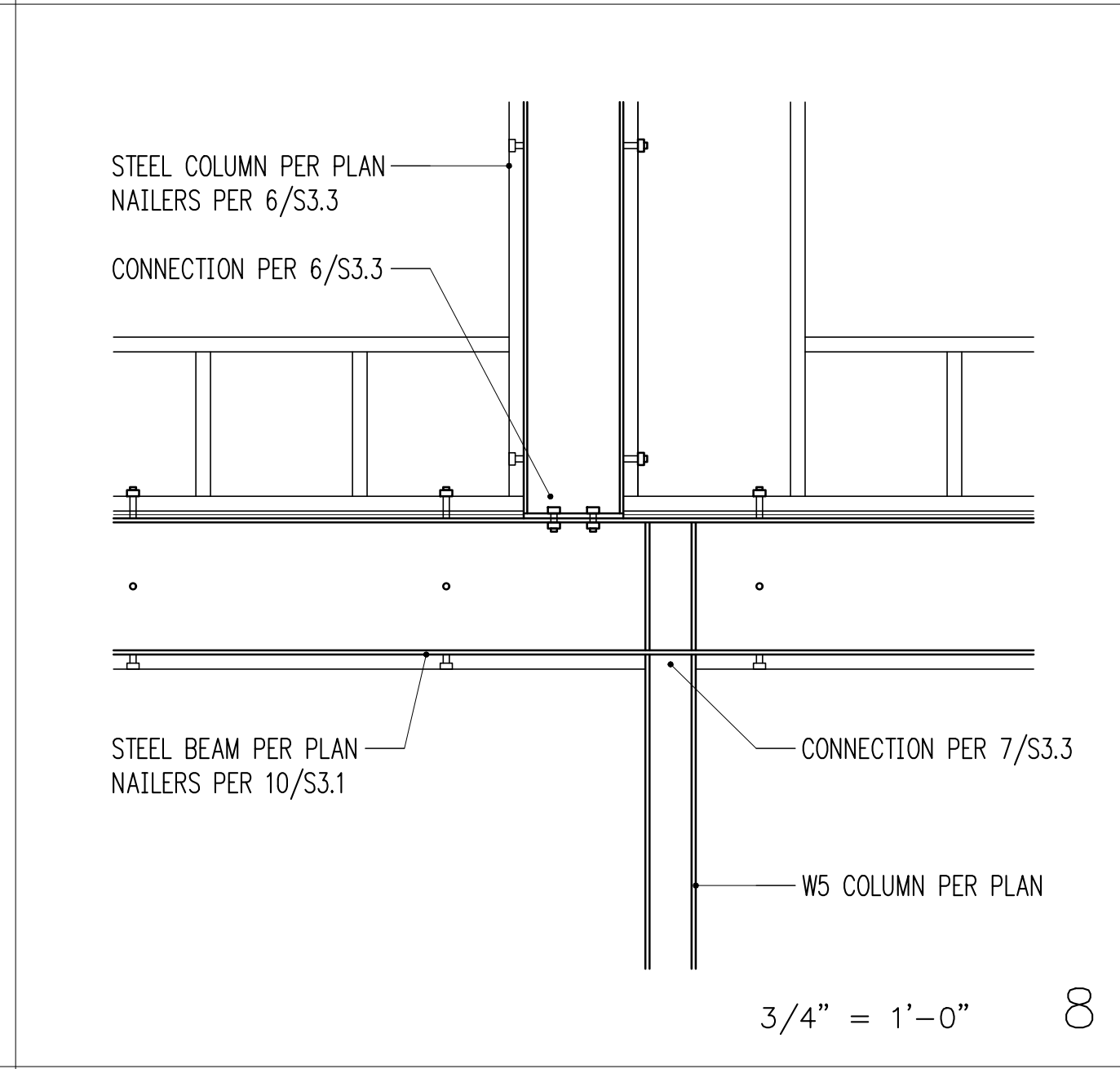
SHEAR TAB - MOMENT FRAMES  
 1-1/2" = 1'-0" 3



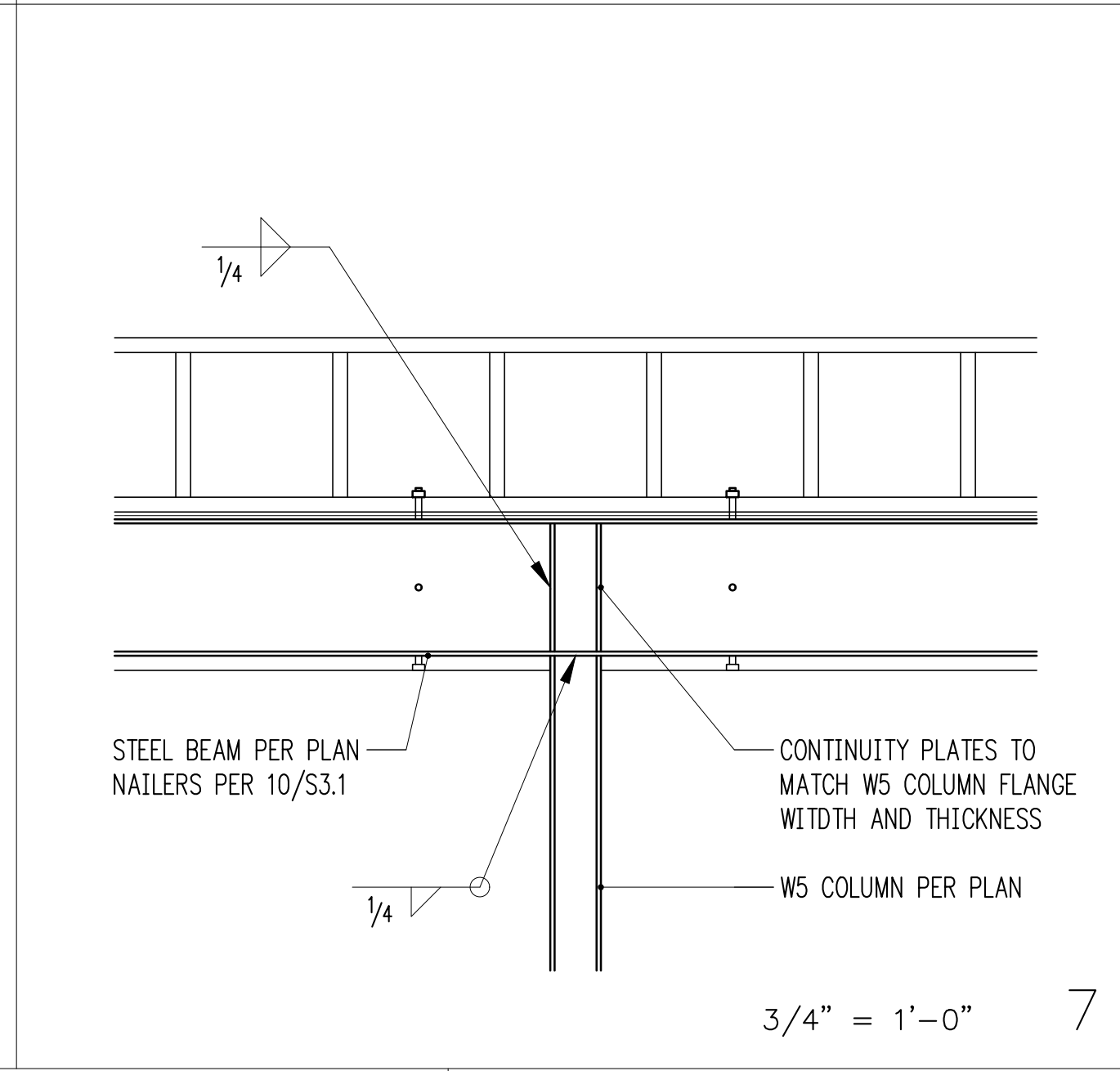
WELD ACCESS HOLES  
 NO SCALE 2



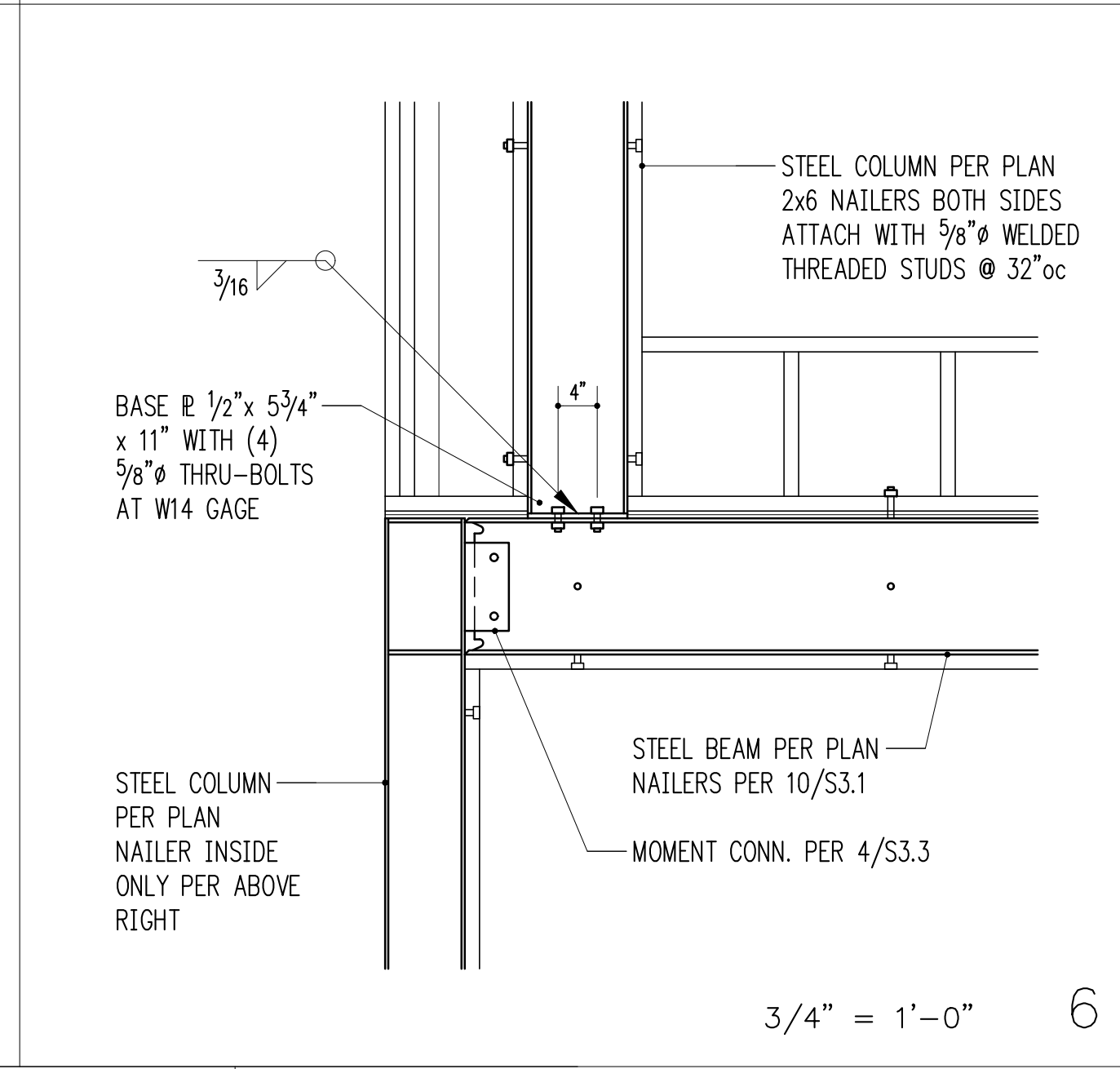
CP (COMPLETE PENETRATION) WELD REQUIREMENTS  
 3" = 1'-0" 1



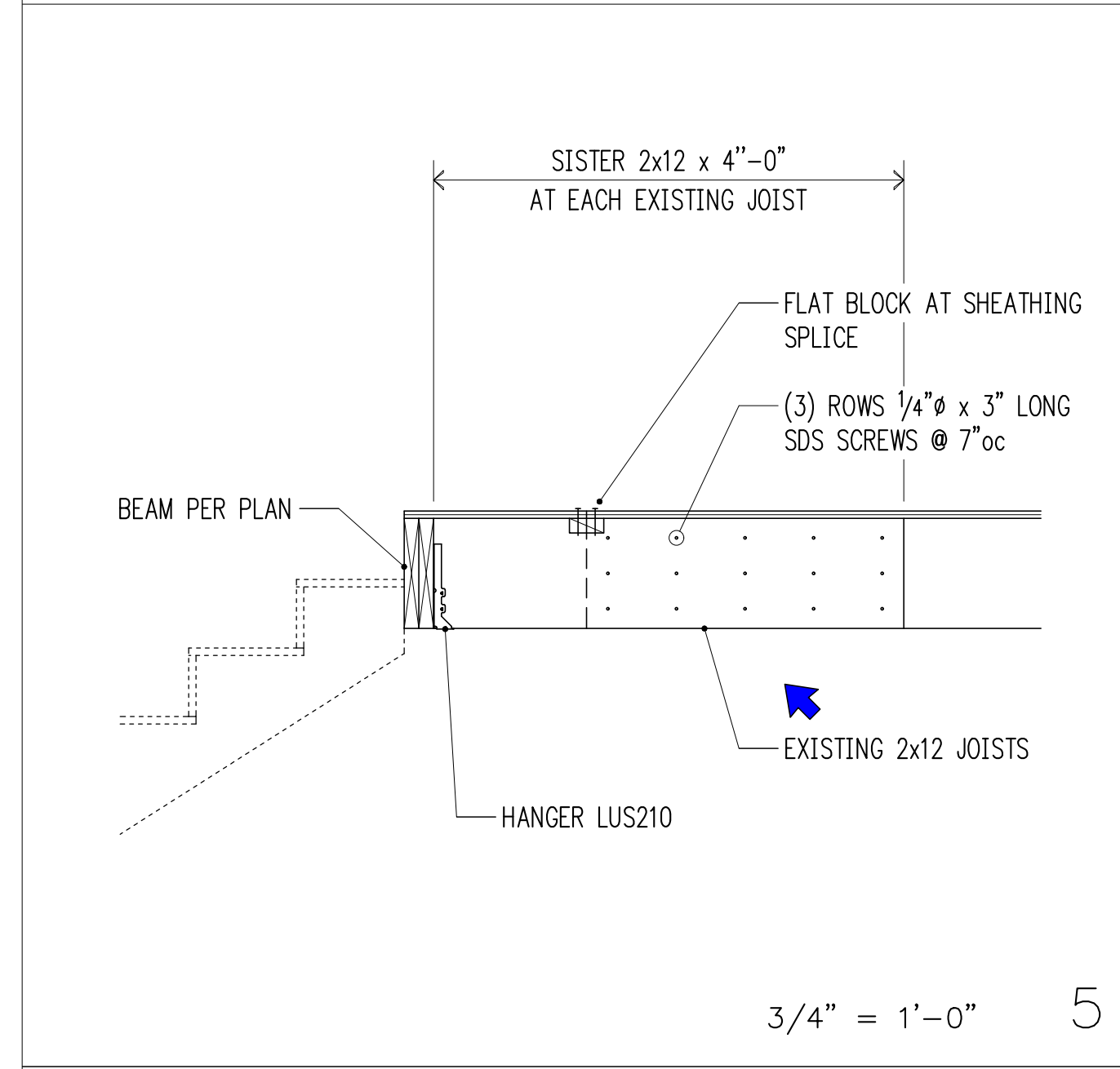
3/4" = 1'-0" 8



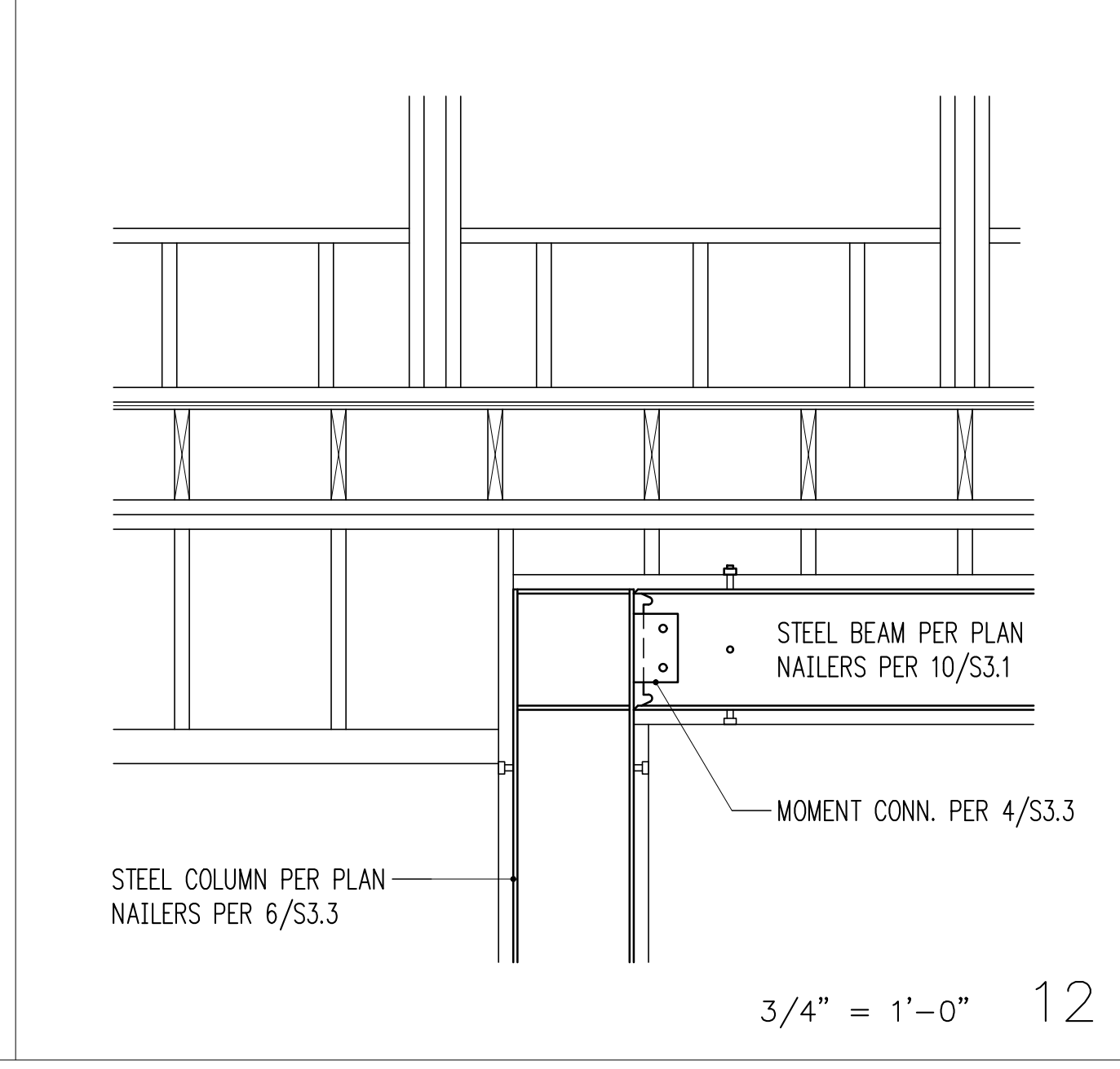
3/4" = 1'-0" 7



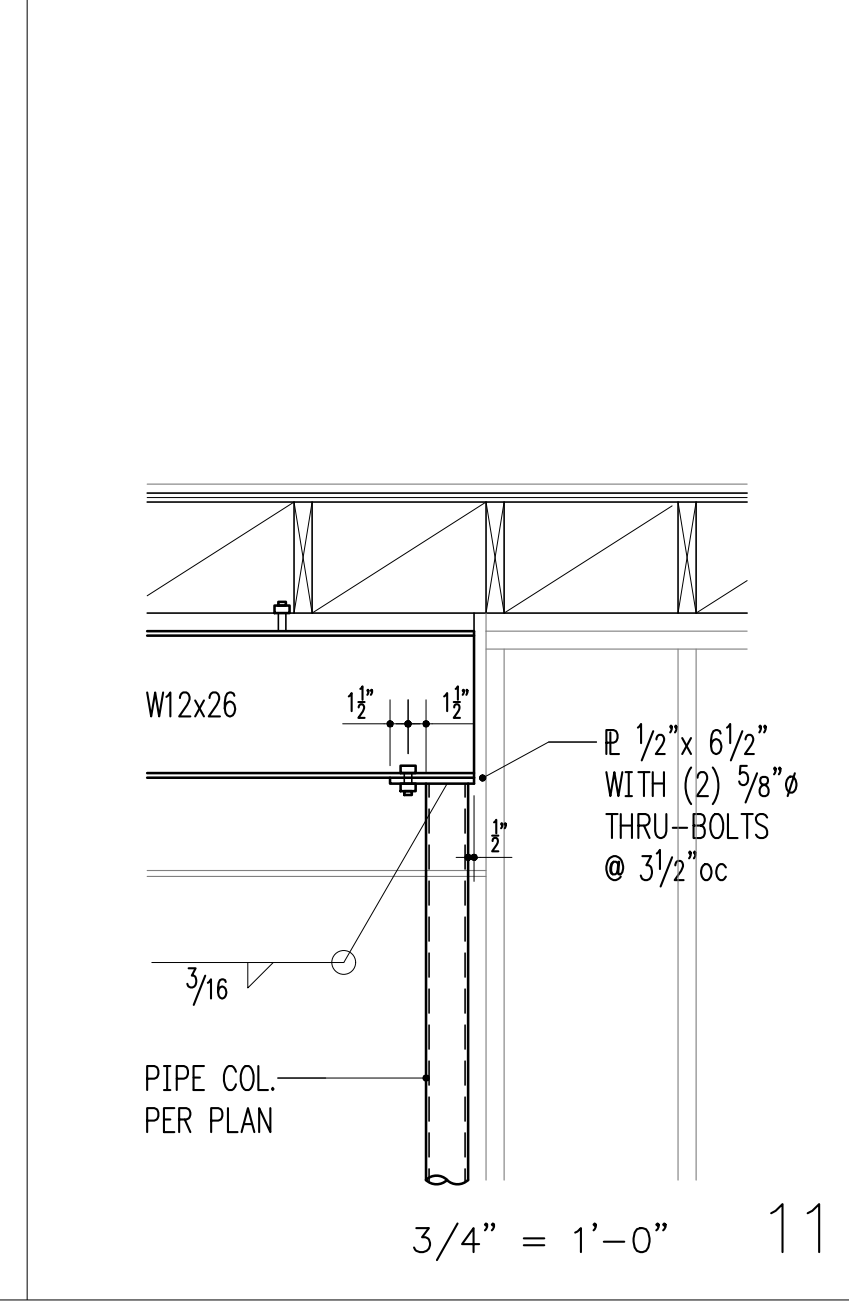
3/4" = 1'-0" 6



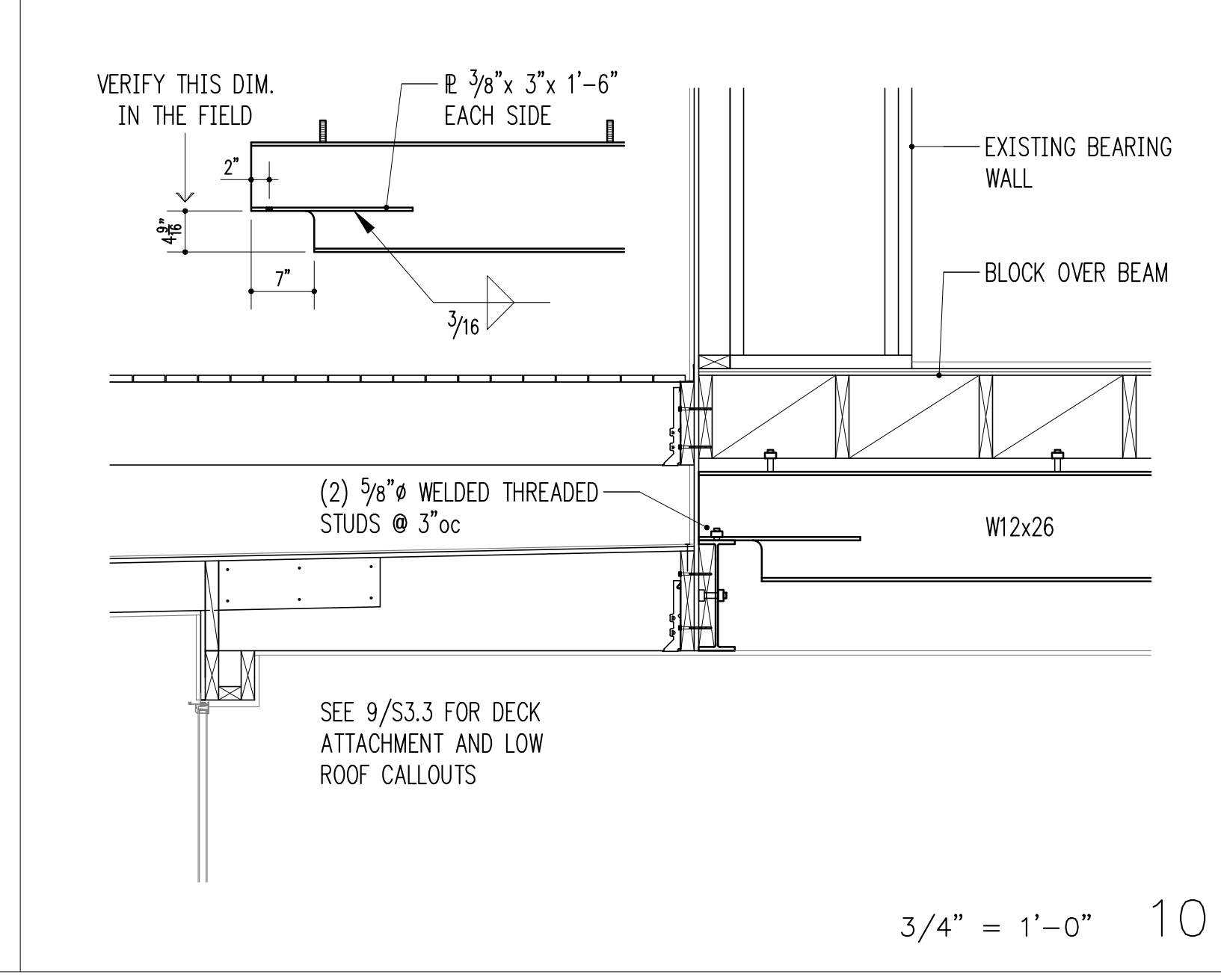
3/4" = 1'-0" 5



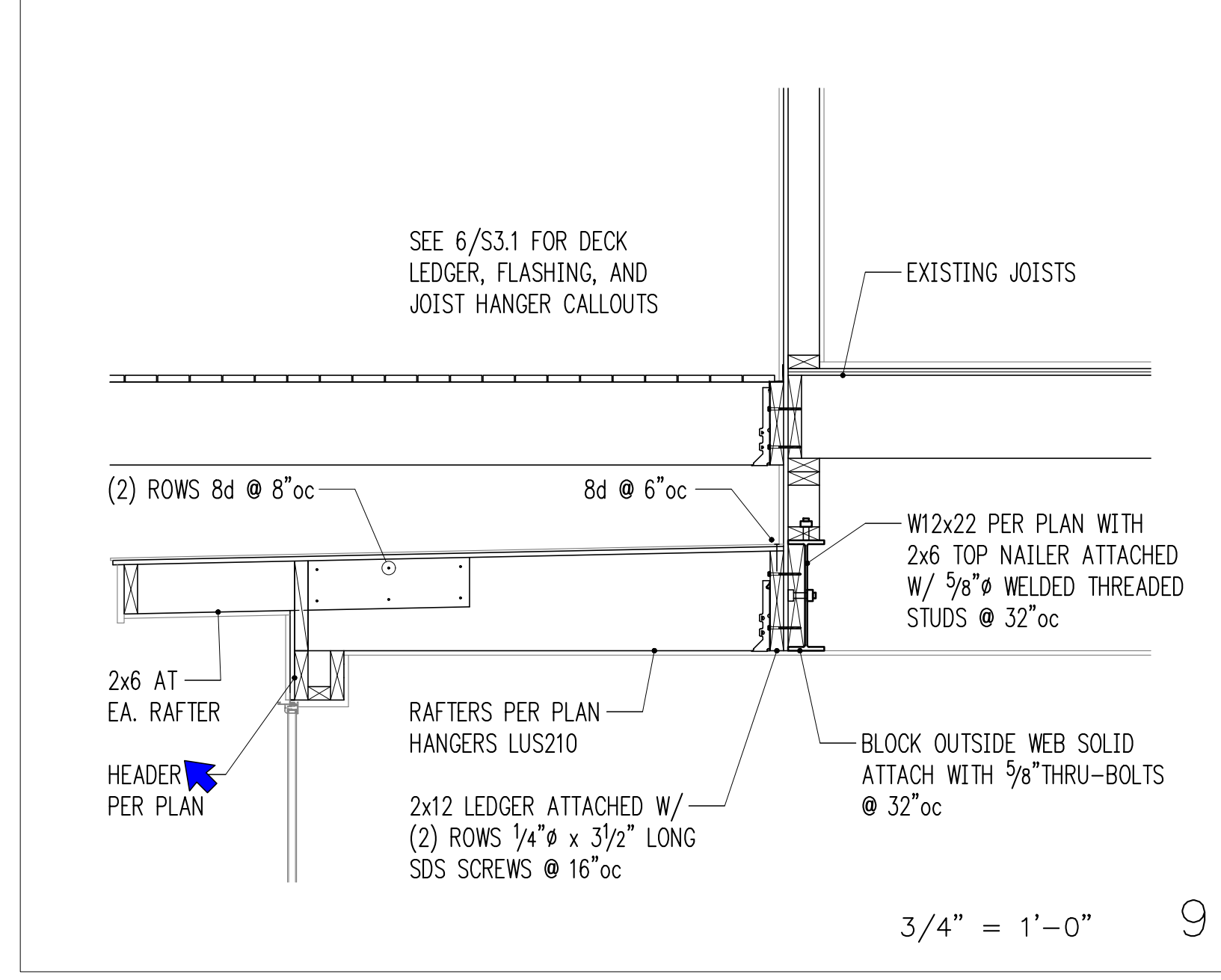
3/4" = 1'-0" 12



3/4" = 1'-0" 11

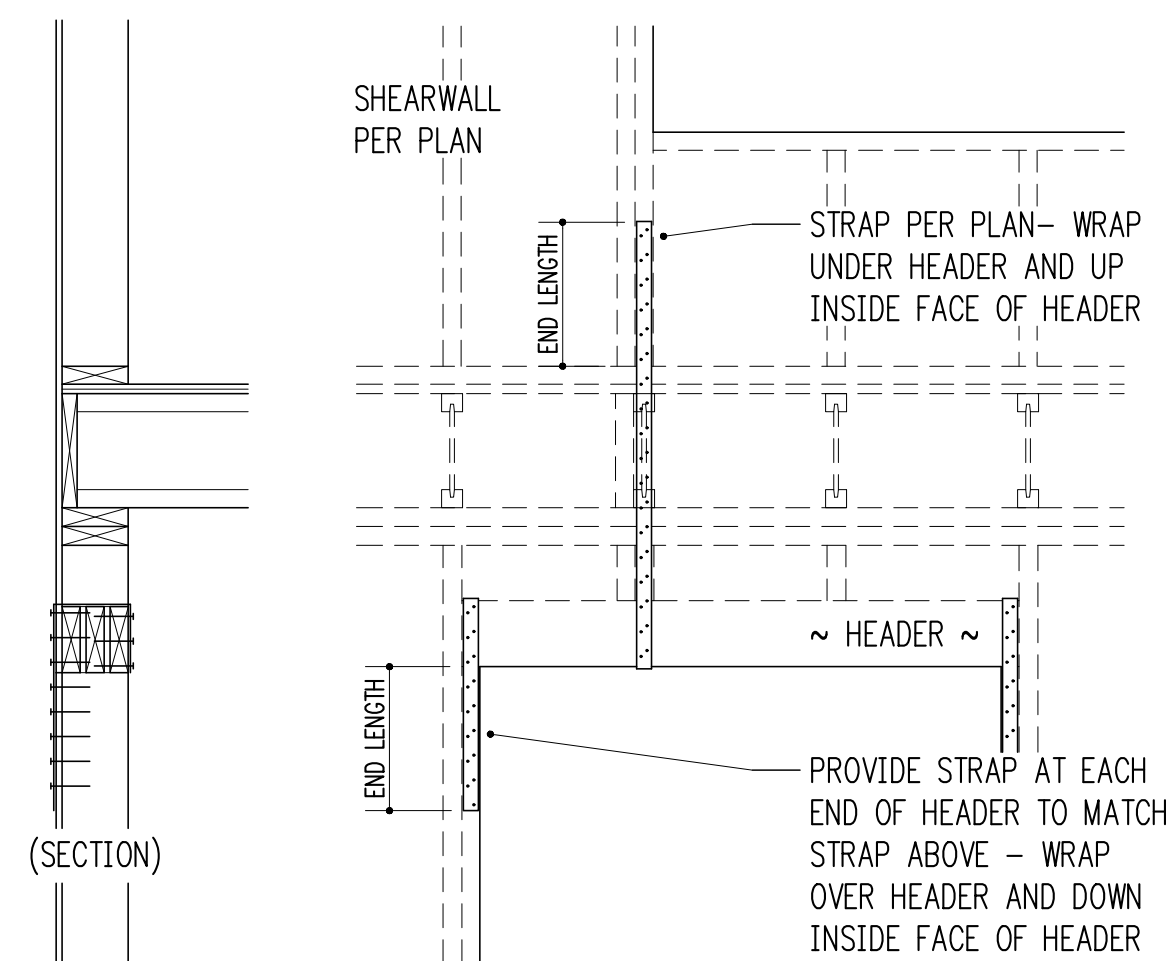


3/4" = 1'-0" 10



3/4" = 1'-0" 9

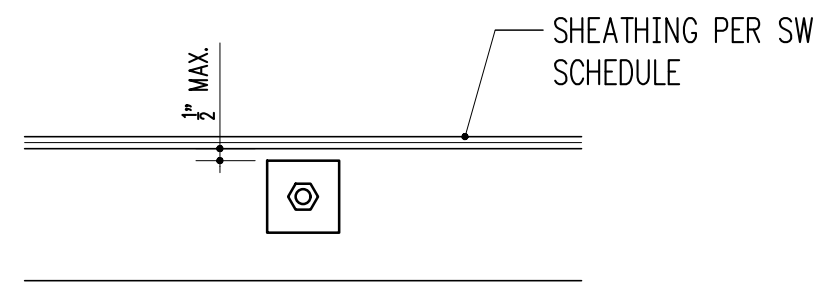




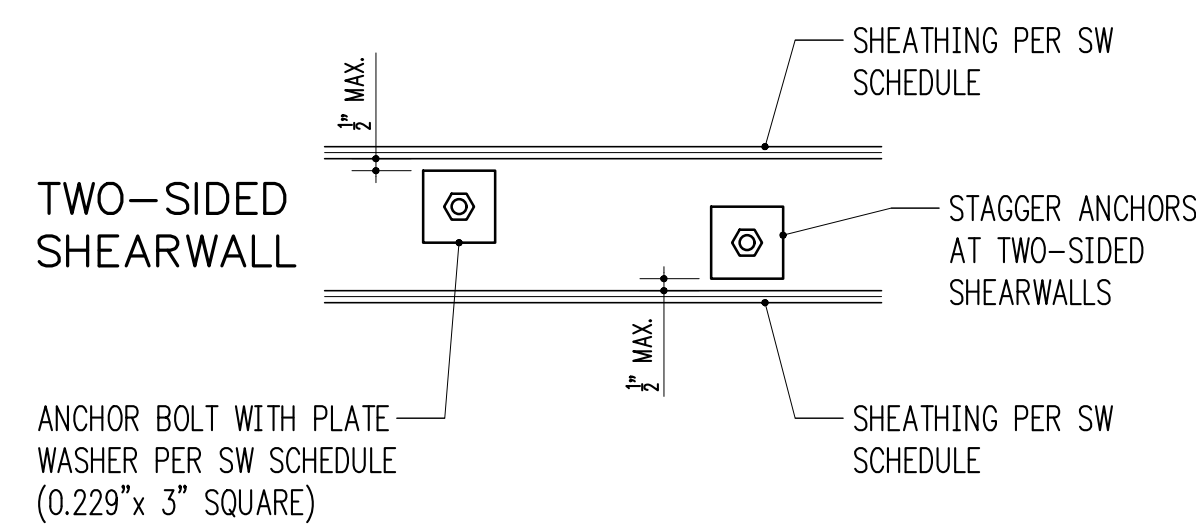
TYPICAL STRAPPED HEADER

3/4" = 1'-0"

ONE-SIDED SHEARWALL



TWO-SIDED SHEARWALL



TYPICAL SHEARWALL ANCHOR BOLT PLACEMENT

1-1/2" = 1'-0"

SHEARWALL SCHEDULE

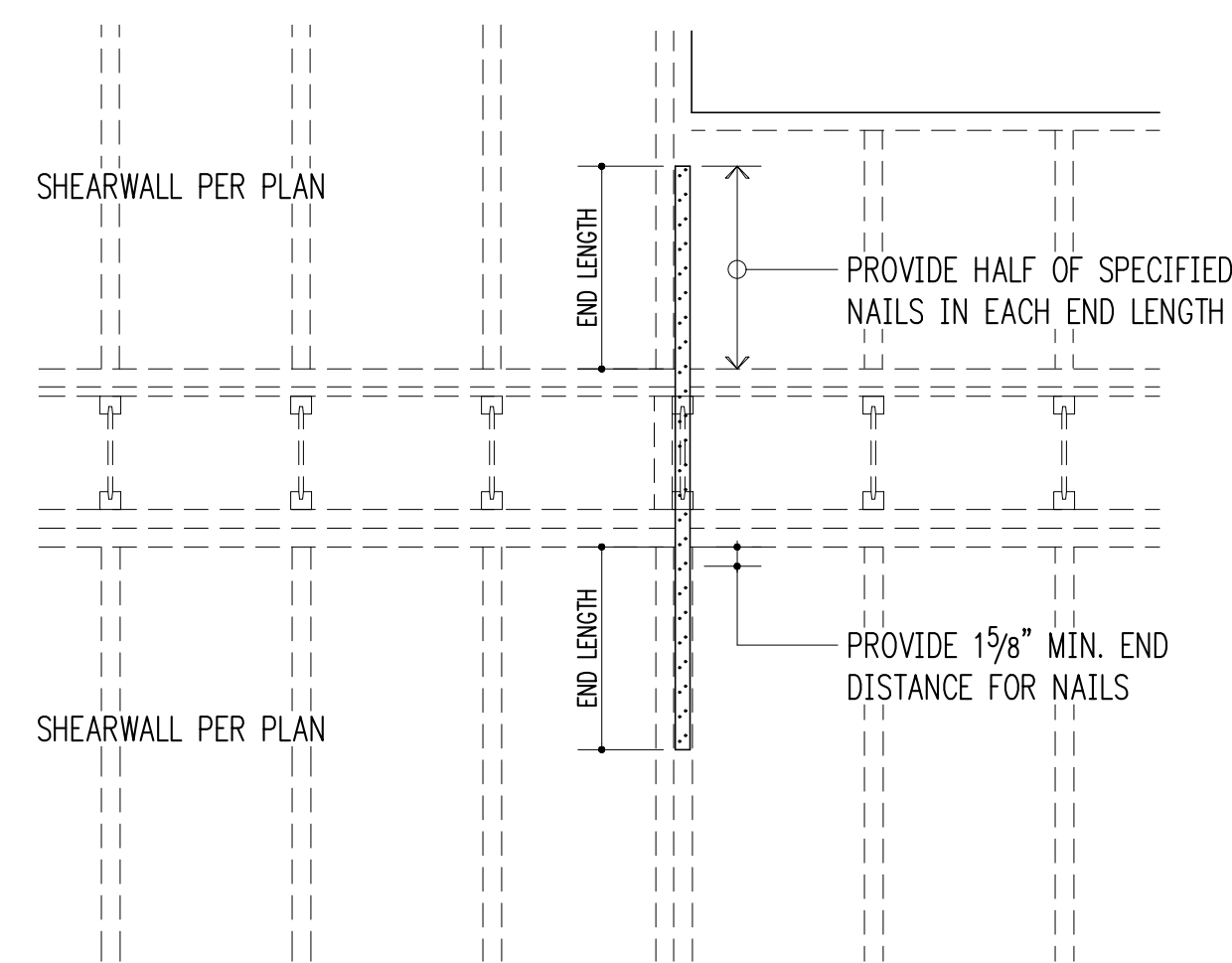
MARK	SHEATHING <sup>1</sup>	STUDS AT ABUTTING PANEL EDGES <sup>2</sup>	PANEL EDGE NAILING <sup>3,4</sup>	RIM JOIST OR BLOCKING TO TOP PLATE		BOTTOM PLATE ATTACHMENT		
				SOLID RIM	TJI RIM	BOTTOM PLATE TO RIM JOIST BELOW <sup>4</sup>	ANCHOR BOLT TO CONCRETE <sup>5</sup>	SILL PLATE AT FOUND.
SW1	15/32" CDX PLYWOOD	2x	8d @ 6"oc	A35 @ 24"oc	16d @ 6"oc	16d @ 6"oc	5/8" @ 48"oc	2x
SW2	15/32" CDX PLYWOOD	2x	8d @ 4"oc	A35 @ 15"oc	16d @ 4"oc	16d @ 4"oc	5/8" @ 32"oc	2x
SW3	15/32" CDX PLYWOOD	3x	8d @ 3"oc	A35 @ 12"oc	N/A - USE SOLID RIM	16d @ 3"oc	5/8" @ 16"oc	2x
SW4	15/32" CDX PLYWOOD	3x	8d @ 2"oc	A35 @ 9"oc	N/A - USE SOLID RIM	16d @ 2"oc	5/8" @ 12"oc	2x
SW5	15/32" CDX PLYWOOD BOTH SIDES	3x	8d @ 3"oc	A35 @ 6"oc	N/A - USE SOLID RIM	(2) ROWS 16d @ 3"oc	5/8" @ 16"oc	3x
SW6	15/32" CDX PLYWOOD BOTH SIDES	3x	8d @ 2"oc	A35 @ 4 1/2"oc	N/A - USE SOLID RIM	(2) ROWS 16d @ 2"oc	5/8" @ 12"oc	3x

- WALL SHEATHING SHALL CONSIST OF APA RATED PLYWOOD WITH SPAN RATING 24/0. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF PANELS. 7/16" APA RATED SHEATHING (OSB) MAY BE USED IN PLACE OF 15/32" CDX.
- STUDS AT ABUTTING PANEL EDGES MAY CONSIST OF (2)2x STUDS IN PLACE OF 3x STUDS - NAIL (2)2x STUDS TOGETHER WITH BOTTOM PLATE ATTACHMENT NAILING.
- BLOCK ALL PANEL EDGES W/ 2x4 FLAT, ATTACH W/ PANEL EDGE NAILING. TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SHEARWALLS. END STUDS SHALL RECEIVE PANEL EDGE NAILING. INTERMEDIATE STUDS SHALL BE 2x STUDS. NAIL SHEATHING TO INTERMEDIATE FRAMING MEMBERS WITH 8d @ 12"oc.
- 8d NAILS SHALL BE 0.131" DIAMETER x 2 1/2" (COMMON). 16d NAILS SHALL BE 0.135" DIAMETER x 3 1/2" (BOX).
- ANCHORS TO CONCRETE SHALL CONSIST OF CAST-IN-PLACE ANCHOR BOLTS, EXPANSION BOLTS, EPOXY GROUTED ALL-THREADS, OR TITEN HD HEAVY DUTY SCREW ANCHORS. CAST-IN-PLACE ANCHOR BOLTS HAVE A 7" EMBED AND SHALL BE J-BOLTS OR SHALL HAVE A HEX NUT AT THE BOTTOM END. EXPANSION BOLTS SHALL HAVE 5" EMBED AND SHALL NOT BE USED AT STEM WALL LOCATIONS WITH EDGE DISTANCE LESS THAN 5" (INSTEAD, USE EPOXY GROUTED ALL-THREADS OR TITEN HD ANCHORS). EPOXY GROUTED ANCHORS SHALL HAVE 5" EMBED AND 2 1/2" MIN. EDGE DISTANCE. TITEN HD ANCHORS SHALL HAVE 3 1/2" EMBED AND 1 3/4" MIN. EDGE DISTANCE. AT ALL ANCHOR BOLTS, PROVIDE STEEL PLATE WASHERS THAT ARE A MINIMUM OF 0.229" (3 GAUGE) x 3" x 3" (SIMPSON BP5/8-3 OR SIMILAR). PLACE BOLTS PER ANCHOR BOLT PLACEMENT DETAIL.

STRAP SCHEDULE

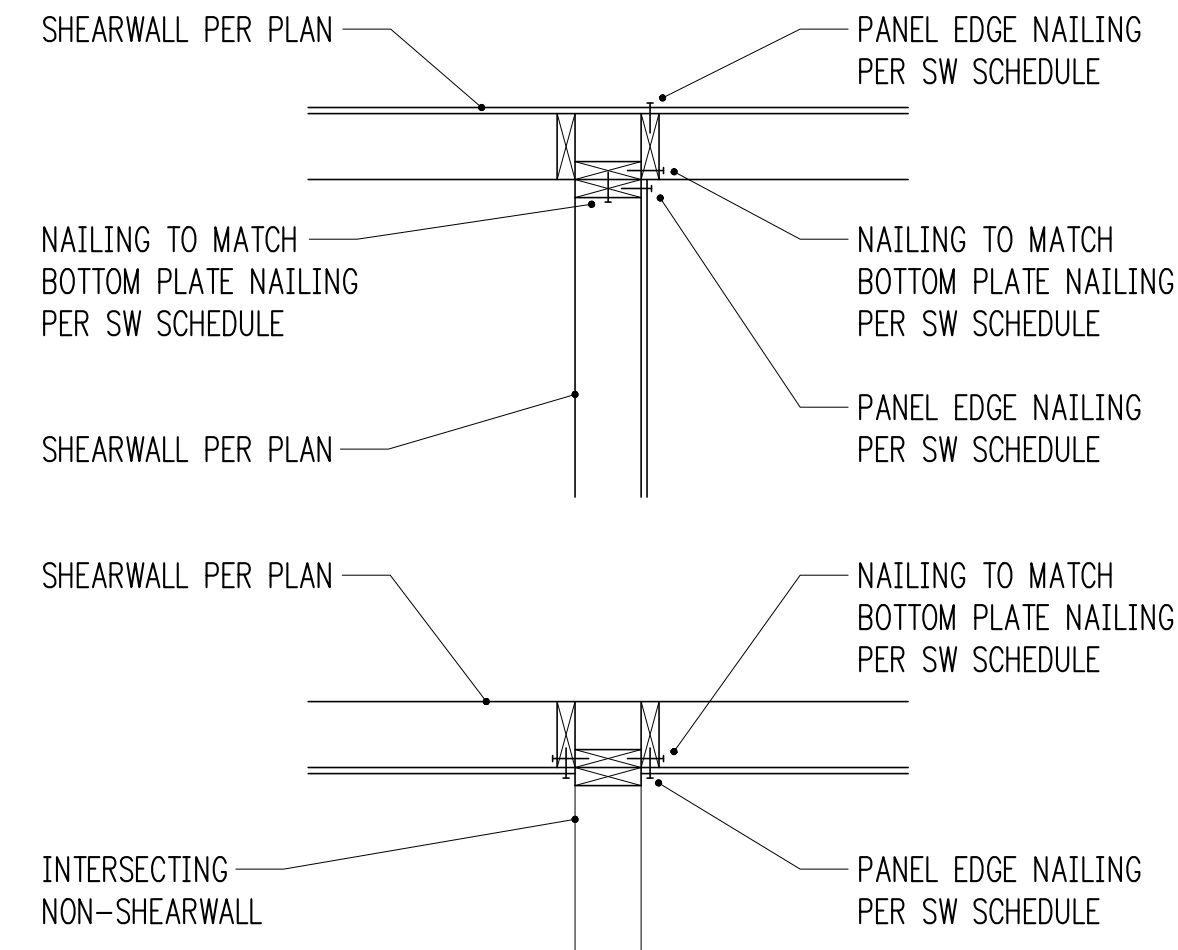
MARK	END LENGTH	NAILS	NAIL SPACING
CMST12	44"	(98) 10d x 3"	1 3/4"
CMST14	34"	(76) 10d x 3"	1 3/4"
CMSTC16	25"	(58) 12d x 3 1/4"	1 1/2"
CS14	19"	(36) 8d x 2 1/2"	2 1/16"
CS16	14"	(26) 8d x 2 1/2"	2 1/16"
CS18	12"	(22) 8d x 2 1/2"	2 1/16"
CS20	9"	(16) 8d x 2 1/2"	2 1/16"
CS22	8"	(14) 8d x 2 1/2"	2 1/16"

- 10d AND 12d DIAMETER = 0.148"; 8d DIAMETER = 0.131".
- USE HALF OF THE REQUIRED NAILS IN EACH MEMBER BEING CONNECTED (i.e. IN EACH END LENGTH).

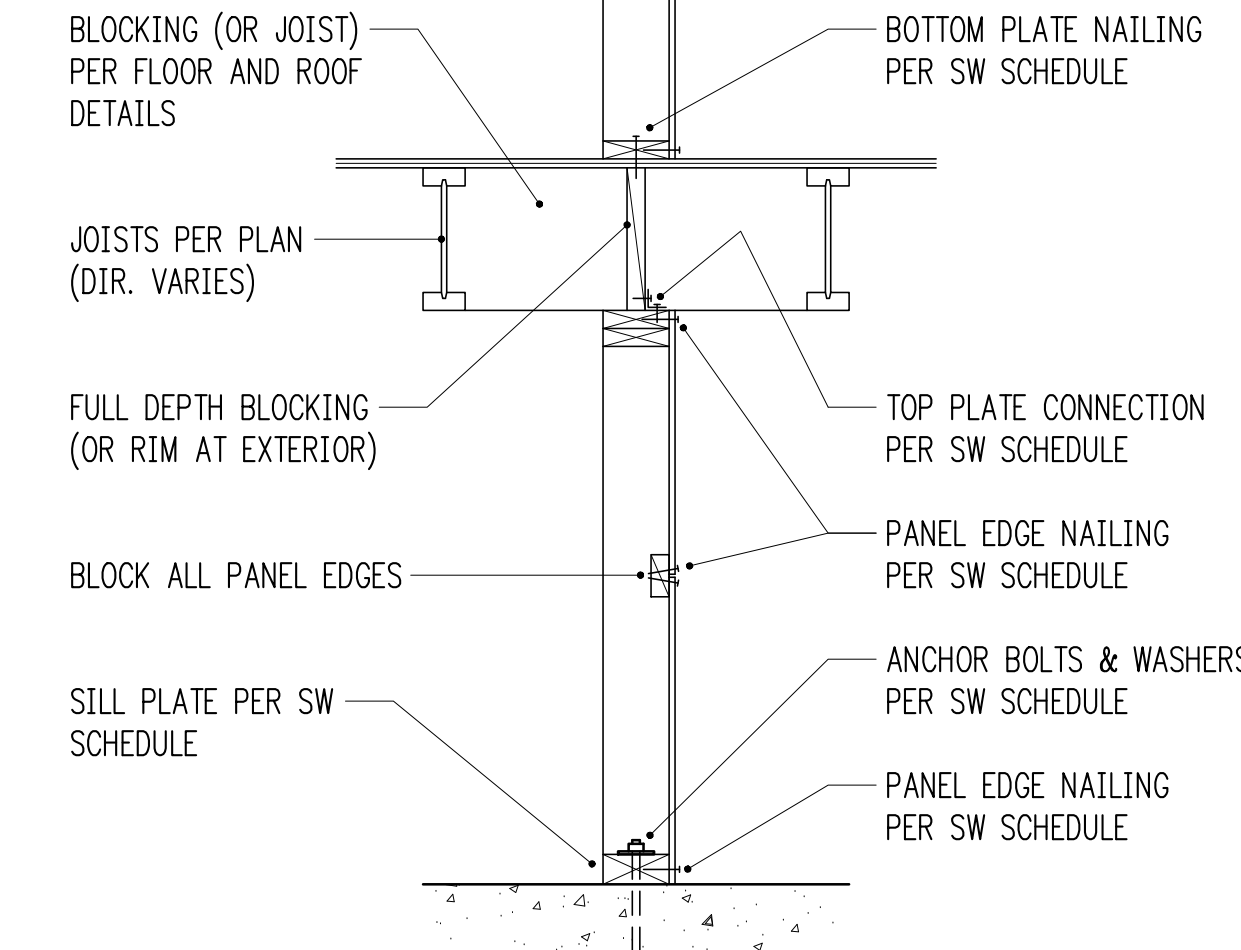


TYPICAL STRAP HOLDDOWN AT FLOOR

3/4" = 1'-0"



TYPICAL SHEARWALL INTERSECTIONS



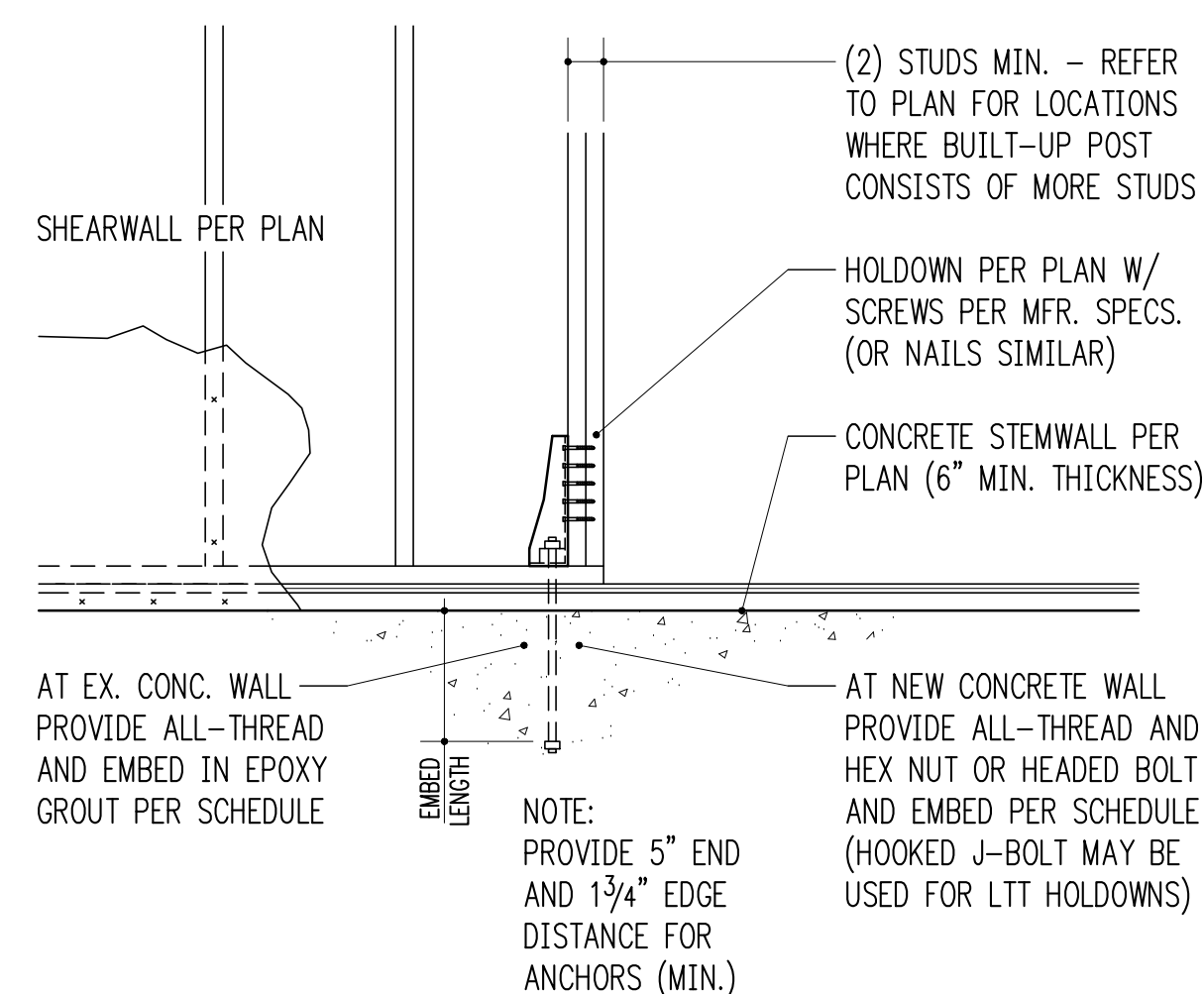
TYPICAL SHEARWALL SECTION

3/4" = 1'-0"

HOLDOWN SCHEDULE

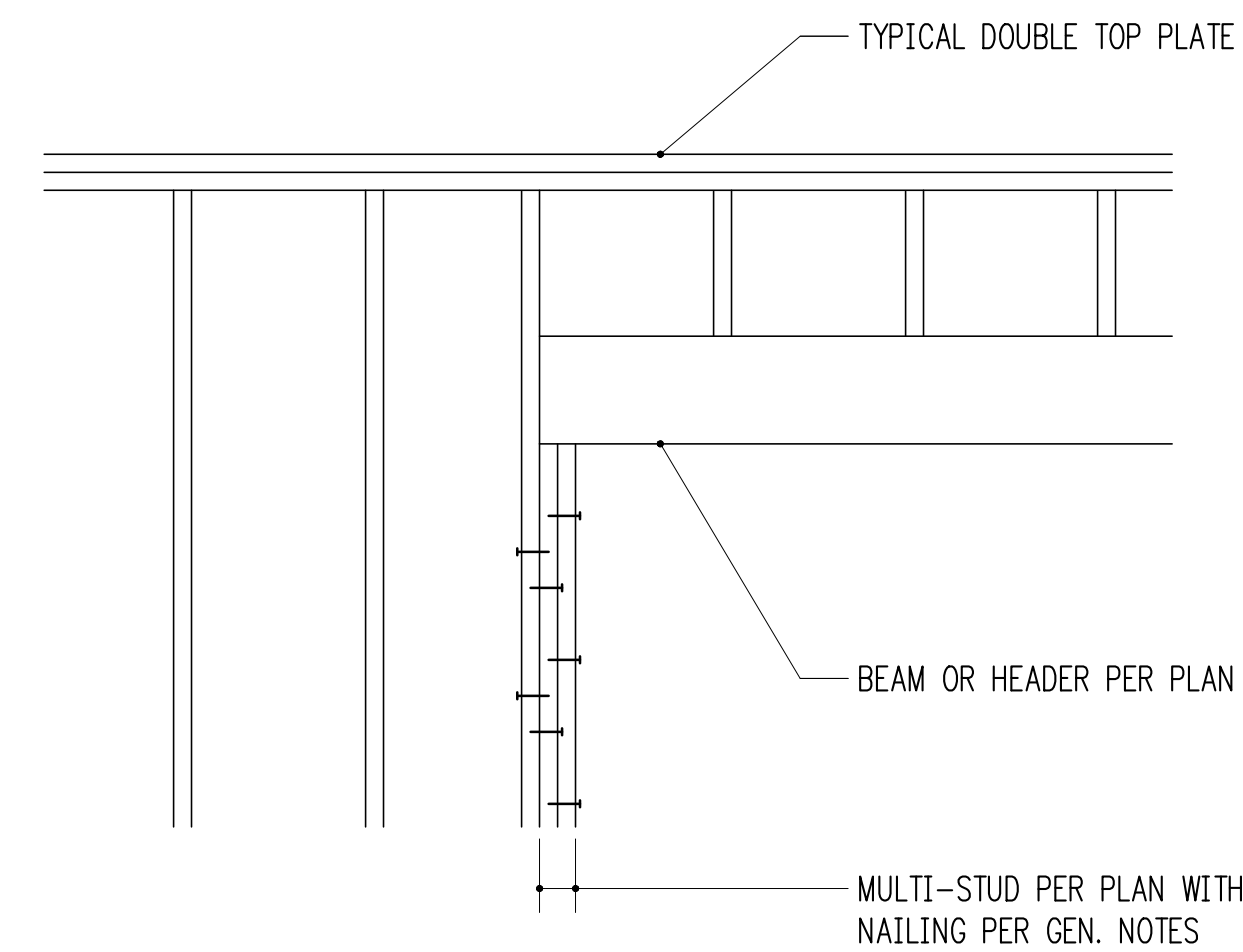
MARK	FASTENERS TO STUDS <sup>1</sup>	ANCHOR DIA. <sup>2</sup>	EMBEDMENT LENGTH	
			EPOXY <sup>3</sup>	CAST-IN <sup>4</sup>
DTT2Z	(8) 1/4" @ x 1 1/2" SCREWS	1/2"	12"	12"
HDU11	(30) 1/4" @ x 2 1/2" SCREWS	1"	N/A	9" <sup>5</sup>

- SCREWS SHALL BE SIMPSON "SDS" TYPE SCREWS, INSTALL PER SIMPSON RECOMMENDATIONS.
- PROVIDE A36 OR A307 ALL-THREAD AT EPOXY & CAST-IN ANCHORS.
- PROVIDE SIMPSON "SET-XP" EPOXY PER GENERAL STRUCTURAL NOTES. SPECIAL INSPECTION IS REQUIRED.
- AT CAST-IN ANCHORS PROVIDE HEAVY HEX NUT AT BOTTOM OF ALL-THREAD.
- NOTED EMBEDMENT FOR HDU11 ANCHORS IS INTO FOOTING BELOW STEMWALL. THESE ANCHORS MUST BE CAST-IN-PLACE.



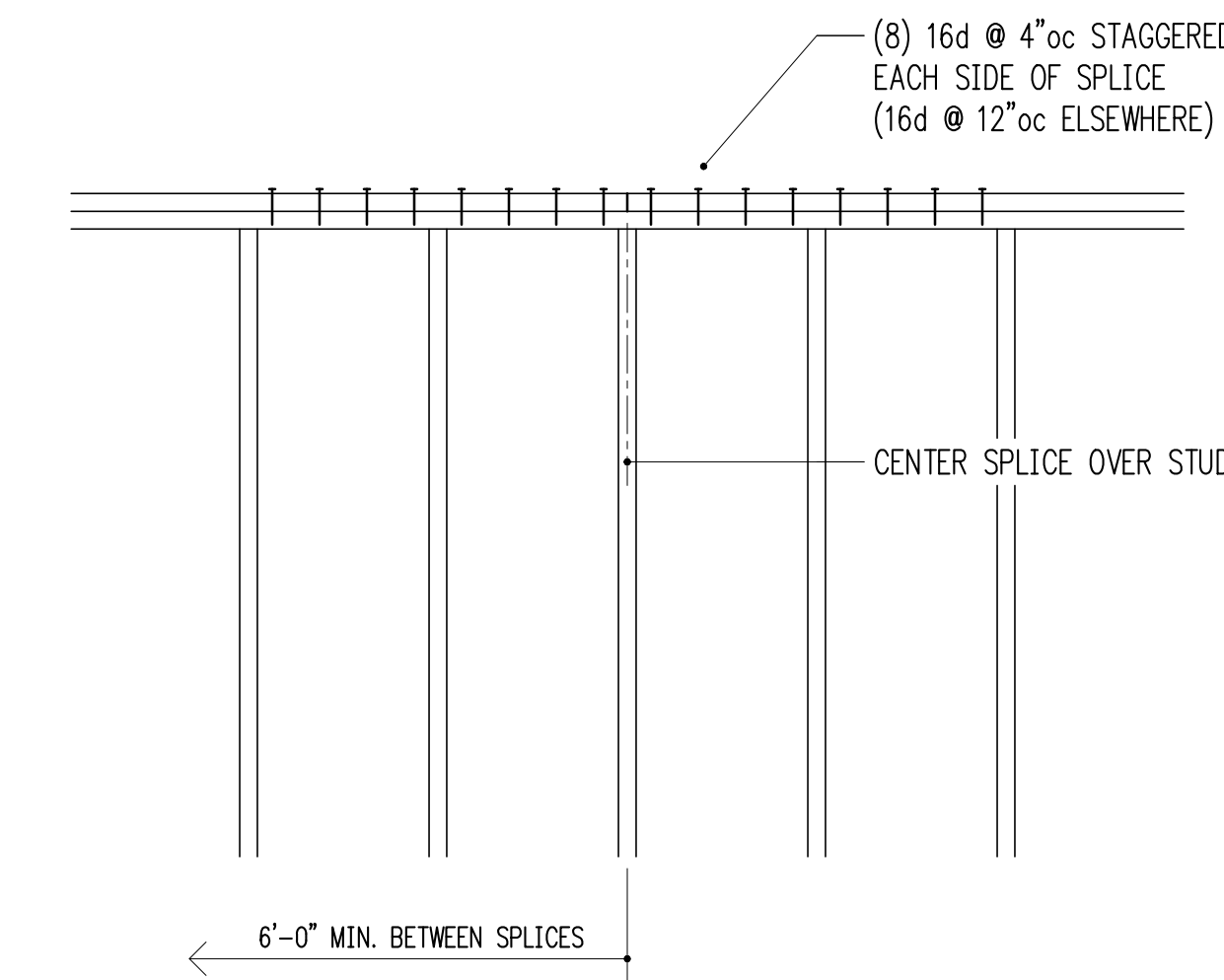
TYPICAL HOLDDOWN AT CONCRETE

3/4" = 1'-0"



TYPICAL MULTIPLE-STUD POST CONSTRUCTION

3/4" = 1'-0"



TYPICAL TOP PLATE SPLICE CONSTRUCTION

3/4" = 1'-0"

HV

Harriott Valentine Engineers Inc.  
1932 First Avenue, Suite 720  
Seattle, Washington 98101-2447  
tel 206 624 4760 fax 206 447 6971  
jharriott@harriottvalentine.com



Project Contact  
Jim Harriott  
tel 206 624 4760 ex. 31  
fax 206 447 6971  
jharriott@harriottvalentine.com

Project Architect  
Patricia Brennan Architects  
224 Pontius Avenue North, Suite 117  
Seattle, WA 98109

Project  
**Nader Residence**  
5472 West Mercer Way  
Mercer Island, WA 98040

Issue Date	Issue Description
6/18/20	Permit Submittal
7/27/20	Site Wall Revisions

Building Department Approval

Drawing Title  
**STRUCTURAL DETAILS**

Drawing Number

**S4.0**

NADER RESIDENCE



**Project Contact**  
 Jim Harriott  
 tel 206 624 4760 ex. 31  
 fax 206 447 6971  
 jharriott@harriottvalentine.com

**Project Architect**  
 Patricia Brennan Architects  
 224 Pontius Avenue North, Suite 117  
 Seattle, WA 98109

**Project**  
**Nader Residence**  
 5472 West Mercer Way  
 Mercer Island, WA 98040

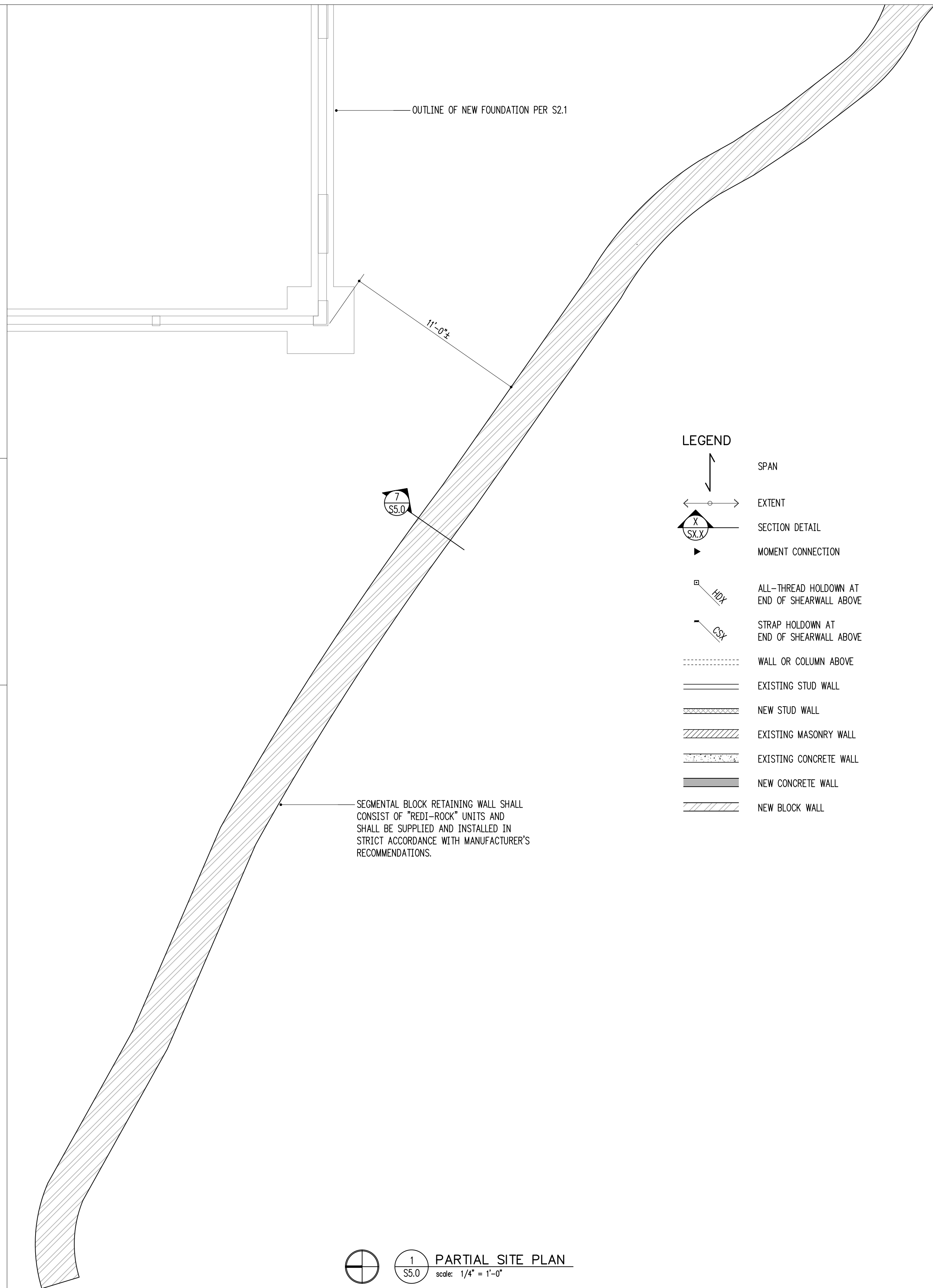
Issue Date	Issue Description
6/18/20	Permit Submittal
7/27/20	Site Wall Revisions

Building Department Approval

Drawing Title  
**SITE PLAN**

Drawing Number  
**S5.0**

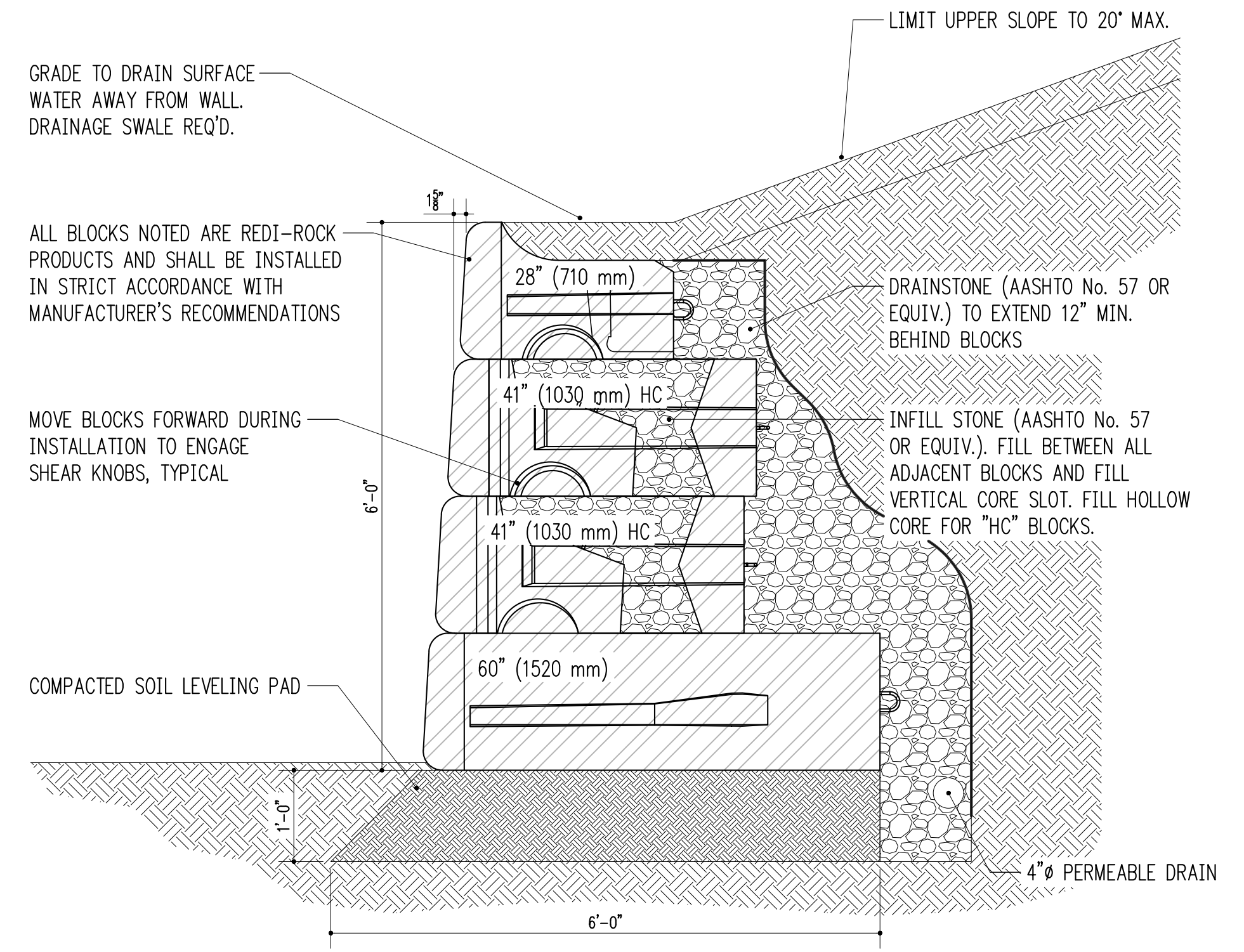
NADER RESIDENCE



**LEGEND**

- SPAN
- EXTENT
- SECTION DETAIL
- MOMENT CONNECTION
- ALL-THREAD HOLDOWN AT END OF SHEARWALL ABOVE
- STRAP HOLDOWN AT END OF SHEARWALL ABOVE
- WALL OR COLUMN ABOVE
- EXISTING STUD WALL
- NEW STUD WALL
- EXISTING MASONRY WALL
- EXISTING CONCRETE WALL
- NEW CONCRETE WALL
- NEW BLOCK WALL

**1 PARTIAL SITE PLAN**  
 scale: 1/4" = 1'-0"



3/4" = 1'-0" 2

3/4" = 1'-0" 5

3/4" = 1'-0" 3

3/4" = 1'-0" 6

3/4" = 1'-0" 4

3/4" = 1'-0" 7