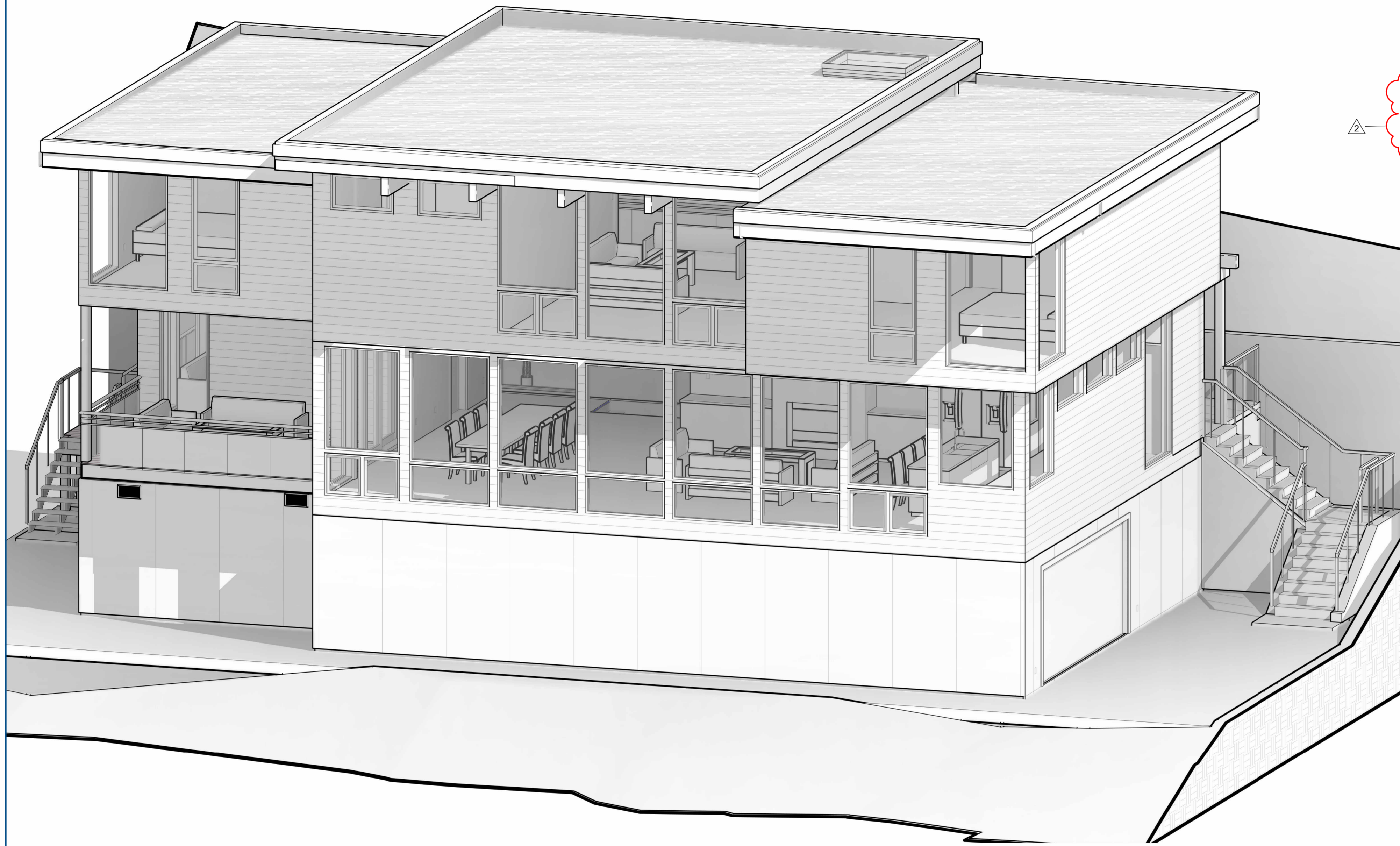


INTRACHAT HOANG RESIDENCE

7929 EAST MERCER WAY MERCER ISLAND WA 98040



CONSTRUCTION DOCUMENT

**PERMIT PLAN
NOT FOR CONSTRUCTION**

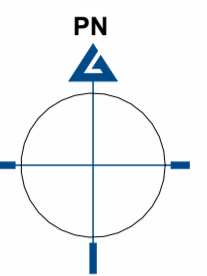
- BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS AND DETAILS.
- BUILDER MUST REVIEW AND UNDERSTAND DRAWINGS AND DETAILS PRIOR TO PACKAGE SHIPMENT, TO ALLOW FOR RESOLUTION OF ANY QUESTIONS.
- IF REQUIRED, ADDITIONAL DETAILS CAN BE PREPARED TO CLARIFY ANY AREAS RELATED TO THE CONSTRUCTION OF THE PACKAGE MATERIALS.
- IF A PROBLEM ARISES WITHIN THE DRAWINGS OR PACKAGE MATERIALS AFTER THE START OF CONSTRUCTION, CONTACT YOUR LINDAL DEALER IMMEDIATELY SO THAT WE MAY PARTICIPATE IN THE SOLUTION TO THE PROBLEM.
- LINDAL CEDAR HOMES WILL NOT ASSUME RESPONSIBILITY FOR FIELD CORRECTIONS IF YOU DO NOT FOLLOW THIS PROCEDURE.
- DEPTH OF FOUNDATION BELOW GRADE AND FOOTING DIMENSIONS TO CONFORM WITH LOCAL CODES AND REGULATIONS. SIZE, NUMBER AND LOCATION OF FOUNDATION VENTS AND ACCESS TO CRAWL SPACE IS TO BE DETERMINED BY CONTRACTOR OR OWNER. VENT CALCULATIONS REFER TO SHEET MT03

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101 C2	T.E.S.C. NOTES & DETAILS		
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A501	DETAILS - WALL	2	4/3/2024
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MT05	LOWER ROOF FRAMING	2	4/3/2024
MT06	UPPER ROOF FRAMING	2	4/3/2024



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LINDAL CEDAR HOMES**
THE LINDAL DESIGN IN THESE DRAWINGS IS THE EXCLUSIVE PROPERTY OF LINDAL CEDAR HOMES, INC. BY COPYRIGHT LAW THESE DRAWINGS ARE NOT TO BE REPRODUCED, NOR IS THE INFORMATION CONTAINED TO BE USED FOR ANY PURPOSE OTHER THAN THE PURCHASE AND CONSTRUCTION OF A LINDAL CEDAR HOME.



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

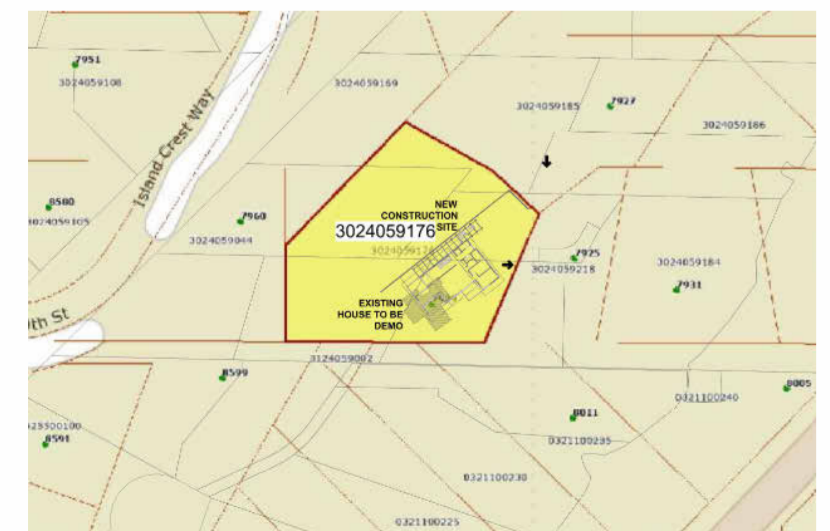
PROJECT ADDRESS
**7929 EAST MERCER WAY
MERCER ISLAND WA 98040**

NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/27/2023
2	CITY COMMENT 2	ES	4/3/2024

ISSUANCES

PROJECT ADDRESS & KEYMAP:

CTY / PROV: KING COUNTY
COUNTRY: USA
TAX PARCEL #: 3024059176



ADDRESS: 7929 EAST MERCER WAY
MERCER ISLAND WA 98040

CLIENT INFORMATION:

HOANG INTRACHAT
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

BY INITIALING THE BLOCKS BELOW, YOU ARE CONFIRMING THAT THE INFORMATION CONTAINED ON THIS SET HAS BEEN REVIEWED AND APPROVED

DEALER APPROVED: _____ DATE: _____
CLIENT APPROVED: _____ DATE: _____

PLEASE SIGN THE PLANS STAMP LOCATE ON THIS SHEET, SO THAT WE MAY PROCEED TO THE NEXT PHASE OF YOUR PROJECT.

SCOPE OF WORK: NEW CONSTRUCTION

CONSTRUCTION TYPE	V-B
OCCUPANCY CLASSIFICATION	R-3
ONE AND TWO FAMILY DWELLING	

SQUARE FOOTAGE

DESCRIPTION OF AREA	AREA IN ft2
Area	Not Placed
	0 SF
BASEMENT STAIRS	360 SF
FIRST FLOOR	1759 SF
DECK	189 SF
COVERED PATIO	30 SF
SECOND FLOOR	2020 SF
CONDITION	4358 SF
BASEMENT / GARAGE	992 SF
MECH ROOM	123 SF
EXTERIOR PATIO	681 SF
UNCONDITION	1796 SF
GROSS AREA: 9	6154 SF

DESIGN CRITERIA: 2 STORY

GROUND SNOW LOAD	40 PSF
ROOF DEAD LOAD	16 PSF
1ST FLOOR LIVE LOAD	40 PSF
1ST FLOOR DEAD LOAD	12 PSF
2ND FLOOR LIVE LOAD	40 PSF
2ND FLOOR DEAD LOAD	12 PSF
DECK LIVE LOAD	60 PSF
DECK DEAD LOAD	10 PSF
BASIC WIND SPEED (FASTEST MILE)	98 MPH
EXPOSURE CATEGORY	B
SEISMIC ZONE	D
CLIMATE ZONE	8A
SITE ELEVATION	>5000 FT.

GENERAL NOTES:

- ALL MATERIALS ORDERED FROM LINDAL CEDAR HOMES (LCH) ARE OUTLINED IN THE DESIGN SPECIFICATION SHEET (DSS). THESE PLANS MAY CONTAIN PART NUMBERS AND/OR REFERENCES TO MATERIALS THAT MAY NOT BE INCLUDED IN THIS HOME PACKAGE.
- THE DSS OVERRIDES THE PLANS IN DETERMINING WHAT MATERIALS ARE PROVIDED BY LCH.
- FRAMING NAILS ARE NOT INCLUDED IN THE LINDAL PACKAGE UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE BEFORE AUTHORIZATION TO SHIP HAS BEEN GIVEN.
- NAIL CALLOUTS AND PART NUMBERS ARE FOR REFERENCE ONLY.
- ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL (LINDAL) DRAWINGS AND THE STRUCTURAL DRAWINGS BY AN ENGINEERING CONTRACTOR, IN REGARDS TO THE STRUCTURAL ELEMENTS, THE STRUCTURAL DRAWINGS WILL SUPERCEDE.

CITY STAMP

JOB CAPTAIN

LINDAL CEDAR HOMES
MARLON NERIO
ADDRESS: 6840 FORT DENT WAY SUITE 220
SEATTLE, WA 98188
PHONE: 206-657-6834
EMAIL: marlonn@lindal.com

LINDAL INDEPENDENT DEALER

WARM MODERN LIVING
TANYA NACHIA & MICHAEL HARRIS
ADDRESS: 688 110TH AVE NE UNIT #S613
BELLEVUE WA 98004
PHONE: 206 214 51 90
EMAIL: TANYA@WARMMODERNLIVING.COM

STRUCTURAL ENGINEER

QUANTUM CONSULTING ENGINEERS, LLC
SANDRO KODAMA
ADDRESS: 1511 3RD AVE, SUITE 323
SEATTLE, WA 98101
PHONE: 206-957-3907
EMAIL: skodama@quatmce.com

CODE INFORMATION

ALL CONSTRUCTION SHALL COMPLY WITH:
2018 IRC
2018 CODE FOR ONE AND TWO FAMILY DWELLINGS
STATE BUILDING CODE
INTERNATIONAL ENERGY CODE
ALL SUBSEQUENT AMENDMENTS

PERMIT DEFERRED SUBMITTAL

MECHANICAL
PLUMBING
CIVIL
LANDSCAPING
ELECTRICAL

WARRANTY NUMBER

42255

SERIES
LINDAL IMAGINE SERIES



MODEL
CUSTOM ELEMENT HOME

COVER SHEET

G000

1 - GENERAL NOTES:

- A. DETAILS AND NOTES SHOWN ON THIS SHEET ARE TYPICAL AND SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS. DETAILS ON CONSTRUCTION PLANS NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS THOSE SHOWN FOR SIMILAR CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES AND OTHER RELATED ITEMS ON THIS JOB.
- B. ALL CONSTRUCTION SHALL CONFORM TO LOCAL CODES AND ORDINANCES.
- C. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH ALL PERTINENT SECTIONS, AS THEY APPLY TO THE PROJECT, OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE JURISDICTION IN WHICH CONSTRUCTION IS TAKING PLACE, INCLUDING ALL OSHA REQUIREMENTS. LINDAL CEDAR HOMES DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTORS FAILURE TO COMPLY WITH THESE REQUIREMENTS.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS, BRACING AND SHORING REQUIRED. THE CONTRACTOR SHALL PROVIDE ADEQUATE STAYS AND BRACING OF ALL FRAMING UNTIL ALL ELEMENTS OF THE DESIGN HAVE BEEN INCORPORATED INTO THE PROJECT.
- E. IN CRAWL SPACES, MAINTAIN A MINIMUM OF 18" (457MM) CLEARANCE UNDER FLOOR JOISTS AND 12" (305MM) UNDER BEAMS AND GIRDERS.
- F. INDIVIDUAL CONCRETE PIERS SHALL PROJECT AT LEAST 8" (203MM) ABOVE EXPOSED GROUND UNLESS THE POST IS TREATED OR OF WOOD WHICH IS NATURALLY RESISTANT TO DECAY.
- G. ALL WOOD, INCLUDING POSTS WITHIN 6" (152MM) OF THE GROUND SHALL BE PRESSURE TREATED OR FOUNDATIONS GRADE CEDAR OR REDWOOD.
- H. STAIRWAYS - RISE, 4" (102MM) MIN. AND 7 3/4" (197MM) MAX.; RUN 10" (254MM) MIN.; HEADROOM 8' 8" (2692MM) MIN. MEASURED VERTICALLY FROM THE PLANE ADJOINING THE TREAD NOSING; WIDTH 36" (914MM) MIN. CLEAR ABOVE PERMITTED HANDRAIL HEIGHT AND BELOW THE REQUIRED HEADROOM HEIGHT.
- I. ENCLOSED SPACE UNDER STAIRS SHALL BE ONE HOUR FIRE-RATED CONSTRUCTION.
- J. STAIRWAYS WITH FOUR OR MORE RISERS REQUIRE A HANDRAIL ON AT LEAST ONE SIDE, WHICH SHALL BE 34" TO 38" (864MM TO 965MM), MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING. HANDRAIL SUPPLIED BY OTHERS UNLESS NOTED OTHERWISE.
- K. COMMON WALLS AND CEILING BETWEEN GARAGE AND DWELLING AND ANY OTHER GARAGE WALL IF SUPPORTING A FLOOR OVER THE GARAGE SHALL HAVE 5/8" (16MM) TYPE "X" GYPSUM WALL BOARD ON THE GARAGE SIDE. A MIN. 1 3/8" (35MM) TYPE "X" GYPSUM WALL BOARD WITH SELF-CLOSER IS REQUIRED BETWEEN THE GARAGE AND THE DWELLING. FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENING (VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE.
- L. COLUMNS, POSTS AND BEAMS SUPPORTING A SECOND STORY OVER A GARAGE SHALL BE PROTECTED WITH ONE HOUR FIRE-RATED CONSTRUCTION.
- N. APPLIANCES INSTALLED IN GARAGE WHICH GENERATE A SPARK, GLOW OR FLAME SHALL BE LOCATED 18" (457MM) ABOVE THE FLOOR.
- O. BATH AND LAUNDRY ROOMS REQUIRE OPERABLE WINDOWS EQUAL TO 1/20TH OF THE FLOOR AREA WITH A MIN. 1.5 SF (0.14 SM) OR MECHANICAL VENTILATION.
- P. TEMPERED GLASS SHALL BE PROVIDED AT ALL HAZARDOUS LOCATIONS.
- Q. RECEPTACLE OUTLETS SHALL BE INSTALLED 6'-0" (1829MM) FROM CORNERS, 12'-0" (3658MM) O.C. MAX. AND ON ANY WALL 24" (610MM) OR WIDER. IN KITCHEN AND DINING AREAS, COUNTERS WIDER THAN 12" (305MM) REQUIRE A RECEPTACLE OUTLET.
- R. ALL RECEPTACLE OUTLETS INSTALLED OUTDOORS SHALL BE IN A WEATHERPROOF ENCLOSURE AND HAVE APPROVED GROUND FAULT INTERRUPTER CIRCUIT (GFI) PROTECTION. ONE SUCH EXTERIOR OUTLET IS REQUIRED.
- S. PROVIDE GFI PROTECTION FOR RECEPTACLES IN BATHROOMS AND GARAGES. GFI PROTECTION IS ALSO REQUIRED FOR NON DEDICATED COUNTER RECEPTACLES WITHIN 6'-0" (1829MM) OF THE KITCHEN SINK.

2 - LUMBER:

- A. 2X FRAMING LUMBER IS KD #2 OR BETTER SPF (SPRUCE, PINE, FIR).
- B. 4X FRAMING LUMBER IS #2 OR BETTER DF (DOUGLAS FIR).
- C. FLOOR SHEATHING OPTIONS (SEE PLANS FOR TYPE):
 - 1) 3/4" (19MM) T&G, O.S.B. APA RATED STURD-FLOOR UNDERLAYMENT GRADE SHEATHING.
 - 2) 23/32" (18MM) T&G, O.S.B. APA RATED STURD-FLOOR UNDERLAYMENT GRADE SHEATHING.
 - 3) SELECT GRADE SPF 2X6 DOUBLE T&G DECKIN WITH 1/2" (13MM) CCX PLYWOOD UNDERLAYMENT, APA INDEX 24/0.
- D. WALL SHEATHING OPTIONS (SEE PLANS FOR TYPE):
 - 1) 1/2" (13MM) CDX PLYWOOD, APA INDEX 32/16.
 - 2) 15/32" (12MM) O.S.B., APA INDEX 32/16.
- E. ROOF SHEATHING OPTIONS (SEE PLANS FOR TYPE):
 - 1) 1/2" (13MM) CDX PLYWOOD, APA INDEX 32/16.
 - 2) 15/32" (12MM) O.S.B., APA INDEX 32/16.
 - 3) 5/8" (16MM) CDX PLYWOOD, INDEX 40/20.
 - 4) 3/4" (19MM) CDX PLYWOOD, INDEX 48/24.
- F. SIDING OPTIONS (SEE PLANS FOR TYPE):
 - 1) KD 1X8 T&G, TK CEDAR, VERTICAL SIDING
 - 2) KD 1X8, TK CEDAR, ROUGH SAWN, HORIZONTAL BEVEL SIDING
 - 3) EMBOSSED COMPOSITE, HORIZONTAL LAP SIDING
 - 4) KD 1X8 T&G, TK CEDAR, HORIZONTAL SIDING
 - 5) KD 1X8 T&G, TK CEDAR, LOG LOOK HORIZONTAL SIDING
- G. ROOF AND LOFT FLOOR BEAMS ARE DF/WESTERN LARCH HORIZONTAL GLUE LAMINATED, COMBINATION SYMBOL 24F-V8 (FB=2400). BEAM SCHEDULE PER PLAN WITH STANDARD DEAD LOAD GAMBER.
- H. BUILT-UP BEAMS ARE KD #2 OR BETTER SPF. SCHEDULE PER PLAN. #419 = 2X10, #481 = 2X12.
- I. EXTERIOR DECK FRAMING IS #2 OR BETTER CEDAR FOR 2X8. LARGER SIZES ARE BROWN TONE (PRESSURE TREATED) #2 OR BETTER, HEMFIR.
- J. CONCEALED POSTS ARE ENGINEERED WOOD, SPF #2.
- K. EXPOSED POSTS ARE DF GLUE LAMINATED, COMBINATION SYMBOL #2.
- L. SPECIFICATIONS SHOWN MAY VARY DUE TO AVAILABILITY OR OPTIONS PURCHASED. PLANS TAKE PRECEDENCE. EQUIVALENT OR HIGHER SPECIFICATIONS MAY BE SUBSTITUTED AS NECESSARY.

3 - CONCRETE:

- A. CONCRETE SHALL ATTAIN A 28 DAY STRESS OF FC-2000 PSI (13793 KN/SM) MIN. MIX SHALL CONTAIN NOT LESS THAN 5 SACKS CEMENT PER CUBIC YARD AND NOT MORE THAN 7 1/2 GAL. (28.4 LT) OF WATER PER SACK OF CEMENT. MAX. SLUMP SHALL BE 4" (102MM). AGGREGATE SIZE SHALL BE COMPATIBLE WITH POURING, PLACING AND FINISHING CONDITIONS.
- B. ALL CONCRETE SHALL CONFORM WITH REQUIREMENTS OF THE LATEST EDITION OF THE ACI CODE.
- C. REMOVE ALL DEBRIS FROM FORMS BEFORE POURING CONCRETE. NO WOOD SPREADERS OR WOOD STAKES SHALL BE USED IN AREAS TO BE CONCRETED.
- D. CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND ALL LAITANCE REMOVED FROM SURFACE. CONCRETE MAY BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE. SAND BLASTING OR HOISING THE ENTIRE SURFACE 4 TO 6 HOURS AFTER THE POUR WITH A FINE WATER SPRAY.
- E. CONCRETE WALLS, PIERS OR COLUMNS SHALL SET AT LEAST 2 DAYS BEFORE PLACING BEAMS, SPANDELS OR SLABS SUPPORTED THEREON.
- F. ALL FRAMEWORK SHALL REMAIN IN PLACE FOR THE PERIODS OF TIME SPECIFIED IN THE ACI CODE AS A MIN.
- G. ALL CONCRETE SHALL BE CURED BY AN APPROVED METHOD.
- H. FOLLOW ALL ACI RECOMMENDATIONS FOR PLACING AND CURING CONCRETE DURING HOT OR COLD WEATHER CONDITIONS.

4 - BUILDER TIPS:

- A. PLYWOOD AND OSB SHOULD BE INSTALLED WITH 1/8" (3MM) SPACING AT ALL END AND EDGE JOINTS UNLESS OTHERWISE INDICATED BY PANEL MANUFACTURER.
- B. ALWAYS STAGGER END JOINTS WHEN INSTALLING PLYWOOD OR OSB PANELS.
- C. PROVIDE ADEQUATE VENTILATION AND USE GROUND CONTROL VAPOR RETARDER IN CRAWL SPACE. PANELS MUST BE DRY BEFORE INSTALLING FINISHED FLOOR.
- D. WHEN USING A GLEUED FLOOR SYSTEM, SPREAD ENOUGH GLUE TO LAY ONLY 1 OR 2 PANELS AT A TIME. TO INSURE THE PANELS WILL BE FIRMLY AND PERMANENTLY SECURED TO JOISTS, WIPE AWAY WATER, DUST AND DEBRIS BEFORE APPLYING GLUE.
- E. APPLY GLUE (ABOUT 1/4" (6MM) DIAMETER BEAD) TO FRAMING MEMBERS IN A CONTINUOUS LINE, OR IN A SERPENTINE PATTERN IN WIDE AREAS. BE CERTAIN TO GLUE ALL T&G JOINTS. SPREAD GLUE IN JOINTS. AVOID SQUEEZE-OUT BY APPLYING A THINNER LINE (ABOUT 1/8" (3MM)) ON JOISTS.
- F. COMPLETE ALL NAILING OF EACH PANEL BEFORE THE GLUE SETS OR SKINS OVER. CHECK GLUE MANUFACTURERS RECOMMENDATIONS FOR ALLOWABLE TIME. REMEMBER, WARM WEATHER ACCELERATES GLUE SETTING.
- G. CATHEDRAL CEILINGS CAN BE PRONE TO MOISTURE PROBLEMS IF NOT CONSTRUCTED PROPERLY. DURING CONSTRUCTION, A VAPOR RETARDER MUST BE APPLIED TO THE WARM-IN-WINTER SIDE OF THE INSULATION. PROPER INSTALLATION OF THE INSULATION LEAVES A 2" (51MM) AIRSPACE BETWEEN THE INSULATION AND THE ROOF DECK FOR VENTILATION. TO BE OF VALUE, THIS AIRSPACE MUST HAVE VENT OPENINGS AT BOTH THE RIDGE AND THE EAVES.
- H. CATHEDRAL CEILING INSULATION BATTS FIT SNUGLY BETWEEN THE CEILING RAFTERS. CARE MUST BE TAKEN WHEN INSTALLING SO THE BATTS REMAIN FLUSH WITH THE LOWER FACE OF THE RAFTERS TO MAINTAIN A PROPER 2" (51MM) AIRSPACE.
- I. CEDAR SIDING MUST BE ALLOWED TO ACCLIMATE TO ITS ENVIRONMENTAL SURROUNDINGS BEFORE INSTALLING. SEE PRODUCT END CAPS FOR INSTRUCTIONS.
- J. WITH CAREFUL PLANNING, JOINTS IN THE SIDING CAN BE MINIMIZED. WHERE JOINTS OCCUR, CUT A 30 DEGREE SCARF JOINT.
- K. ALL CEDAR SIDING SHOULD BE BACK COATED AND ALL END GRAIN SHOULD BE THOROUGHLY COATED WITH FINISH.
- L. ALL WOOD WINDOWS MUST RECEIVE A THOROUGH COAT OF FINISH BEFORE INSTALLATION.

5 - ACQ FASTENER REQUIREMENTS:

- A. ALL TREATED LUMBER INCLUDED IN YOUR HOME IS TREATED WITH ACQ (ALKALINE COPPER QUAT). ACQ IS A CORROSIVE MATERIAL AND THEREFORE THE TYPE AND QUALITY OF CONNECTORS, FASTENERS, WASHERS, FLASHING AND OTHER METALS THAT COME INTO CONTACT WITH THE TREATED LUMBER IS VERY IMPORTANT. TO PREVENT ELECTROLYSIS, ALWAYS MATCH METAL COMPONENTS WITH FASTENERS THAT ARE COMPATIBLE.
- B. ALL CONNECTORS THAT COME INTO CONTACT WITH TREATED MATERIALS ARE TO BE SIMPSON STRONG-TIE G185 Z-MAX, HDG (HOT DIP GALVANIZED) OR SST300 (STAINLESS STEEL) OR EQUIVALENT.
- C. HOT DIPPED GALVANIZED FASTENERS ARE TO BE USED WITH G185 Z-MAX AND HDG CONNECTORS AND STAINLESS STEEL FASTENERS ARE TO BE USED WITH SST300 STAINLESS STEEL CONNECTORS. DO NOT USE STAINLESS STEEL FASTENERS WITH G185 Z-MAX OR HDG CONNECTORS. LIKEWISE, DO NOT USE HOT DIPPED FASTENERS WITH SST300 STAINLESS STEEL CONNECTORS.
- D. ALL ANCHOR BOLTS, WASHERS AND NUTS ARE TO BE HOT DIPPED GALVANIZED.
- E. HOT DIPPED GALVANIZED OR STAINLESS STEEL NAILS OR STAPLES MUST BE USED WHEN FASTENING THE SHEATHING INTO THE TREATED MUD SILL. MECHANICALLY GALVANIZED OR ELECTROPLATED GUN NAILS ARE NOT APPROPRIATE IN THIS SITUATION.
- F. FLASHING THAT COMES INTO CONTACT WITH TREATED MATERIALS MUST BE COPPER OR STAINLESS STEEL. USE THE APPROPRIATE FASTENERS FOR THE FLASHING MATERIAL CHOSEN.
- G. USE HOT DIPPED GALVANIZED OR STAINLESS STEEL FASTENERS WHEN FASTENING DECKING TO TREATED MATERIAL.

6 - FLASHING:

APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED SHINGLE-FASHION IN SUCH A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. APPROVED CORROSION-RESISTANT FLASHINGS SHALL BE INSTALLED AT ALL OF THE FOLLOWING LOCATIONS:

1. EXTERIOR WINDOW AND DOOR OPENINGS. FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER-RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE.
2. AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS.
3. UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS.
4. CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.
5. WHERE EXTERIOR PORCHES, DECKS, OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION.
6. AT WALL AND ROOF INTERSECTIONS.
7. AT BUILT-IN GUTTERS.

7 - WINDOWS:

- A. DIMENSIONS ARE ACTUAL OUTSIDE UNIT DIMENSIONS
- B. ROUGH OPENING ALLOWS FOR 1/2" GAP AT EACH SIDE OF WINDOW.
- C. SHIM BOTH SIDES AND BOTTOM. DO NOT SHIM TOP OF WINDOW.
- D. NAIL FLANGE ON BOTH SIDES AND BOTTOM. DO NOT NAIL FLANGE ON TOP OF WINDOW.
- E. A PERIODIC APPLICATION OF A SILICON SPRAY IS REQUIRED FOR ALL MOVING PARTS AND VINYL FOR WEATHER PROTECTION.
- F. A WOODLIFE PRESERVATIVE OR STAIN IS TO BE APPLIED TO WOOD WINDOWS PRIOR TO INSTALLATION.
- G. ALL WINDOWS AS VIEWED FROM EXTERIOR.
- H. WINDOWS LABELED "EGRESS" MEET I.R.C. EGRESS REQUIREMENTS
- I. FOR WINDOW R.F.O. HEIGHT SEE SCHEDULE.
- J. NOTCH SIDING SO FLASHING ABOVE WINDOWS CAN EXTEND A MIN. OF 1/2" BEYOND FRAME EDGES.
- K. WINDOWS COME WITH FOAM SEALER (754-A), CAULKING (754-U) AND WINDOW FLASHING (SEE DETAILS).

8 - ABBREVIATIONS:

ABV	ABOVE	OS	OUTSIDE
AVB	AIR / VAPOUR BARRIER	OSB	ORIENTED STRAND BOARD
ALUM	ALUMINUM	PA	POST ABOVE
BO	BY OTHERS	PET	PRECISION END TRIM
BU	BUILD UP	PSL	PARALLEL STRAND LUMBER (PARALLAM)
CW	COMPLETE WITH	PT	PRESSURE TREATED
CONC	CONCRETE	QTY	QUANTITY
DF	DOUGLAS FIR	RC	RECUT
DTP	DOUBLE TOP PLATE	RD	ROOF DRAIN
EQ	EQUAL	RO	ROUGH OPENING
FO	FACE OF	REQD	REQUIRED
FD	FLOOR DRAIN	RM	ROOM
FIN	FINISH	SPF	SPRUCE, PINE, FIR
FLR	FLOOR	SIM	SIMILAR
FRR	FIRE RESISTANCE RATING	SPEC	SPECIFICATION
GLB	GLUE LAMINATED BEAM	STOR	STORAGE
GALV	GALVANIZED	T&G	TONGUE AND GROOVE
HGL	HORIZONTAL GLUE LAMINATED	TJI	TRUSS JOIST INTERNATIONAL
ID	IDENTIFICATION	T/O	TOP OF
KD	KILN DRIED	TYP	TYPICAL
LOH	LINDAL CEDAR HOMES	UNO	UNLESS NOTED OTHERWISE
LSL	LAMINATED STRAND LUMBER (TIMBER STRAND)	U/S	UNDERSIDE OF
LVL	LAMINATED VENEER LUMBER (MICROLLAM)	VB	VAPOUR BARRIER
NIC	NOT IN CONTRACT	W/	WITH
N.TS	NOT TO SCALE	W/O	WITHOUT
O.C.	ON CENTER	WD	WOOD

9 - LCH STANDARD MARKS & SYMBOLS:

EXTERIOR ELEVATION

INTERIOR ELEVATION

DETAIL CALLOUT

BUILDING SECTION

WALL SECTION

FLOOR / FRAMING / CEILING SYMBOLS

- SD SMOKE DETECTOR
- CM CARBON MONOXIDE
- HD HEAT DETECTOR
- LIGHT FIXTURE
- LIGHT EXHAUST FAN
- EXHAUST FAN
- FD FLOOR DRAIN
- DECK TENSION TIE
- CONCEALED CONNECTOR
- JOIST / BEAM HANGER
- FRAMING ANGLE
- CENTERLINE
- SPAN DIRECTION

LEVEL DATUM

GRID HEADS

STANDARDS TAGS

- DOOR TAG
- WINDOW TAG
- REVISION TAG
- EXTERIOR WALL TAG
- INTERIOR WALL TAG
- FLOOR TAG
- ROOF TAG
- CEILING TAG
- EXTERIOR MATERIAL FINISH
- KEYNOTES
- KEYNOTES

AREA & FRAMING TAGS

ROOM NAME
[ROOM #]
SQUARE FOOT

ROOM NAME
[ROOM #]
CEILING LINER

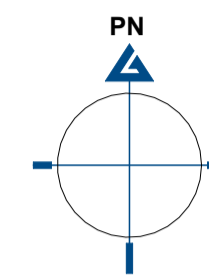
LCH POST PART #-HEIGHT COMMENT
POINT LOAD lb

EXAMPLE OF STRUCTURAL MEMBER TAG:
(2)-419-S, MEANING:
(# OF PLY)-LCH PART#-PRE CUT LENGTH

LCH STRUCTURAL CONNECTION PART
#CODE1 COMMENT



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PROJECT NORTH

LINDAL DEALER

WARM MODERN LIVING

CLIENT

HOANG INTRACHAT

PROJECT ADDRESS

7929 EAST MERCER WAY
MERCER ISLAND WA 98040

NO.	DESCRIPTION	ISSUED BY	DATE
1	REVISION DD	ES	7/18/2023
2	ISSUED FOR CD	ES	10/19/2023
2	CITY COMMENT 2	ES	4/3/2024
1	CITY COMMENTS	ES	11/27/2023

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL

CUSTOM ELEMENT HOME

GENERAL NOTES

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

G001

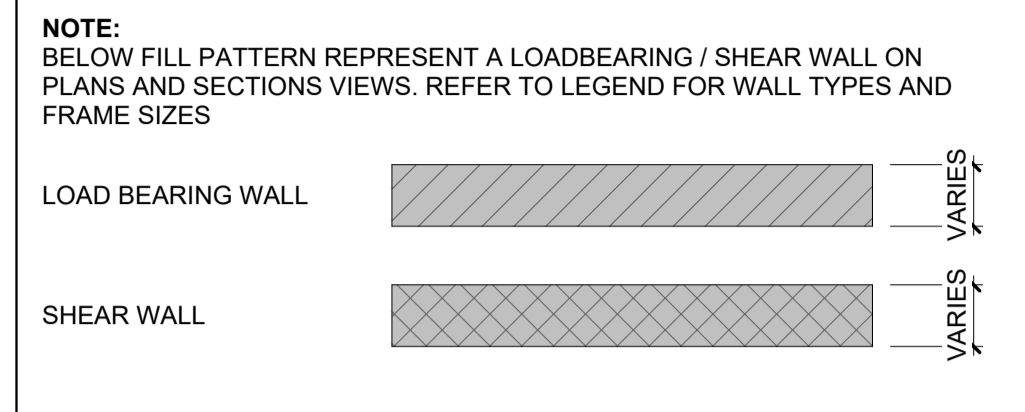
CONSTRUCTION ASSEMBLIES:

WALL SYSTEMS:

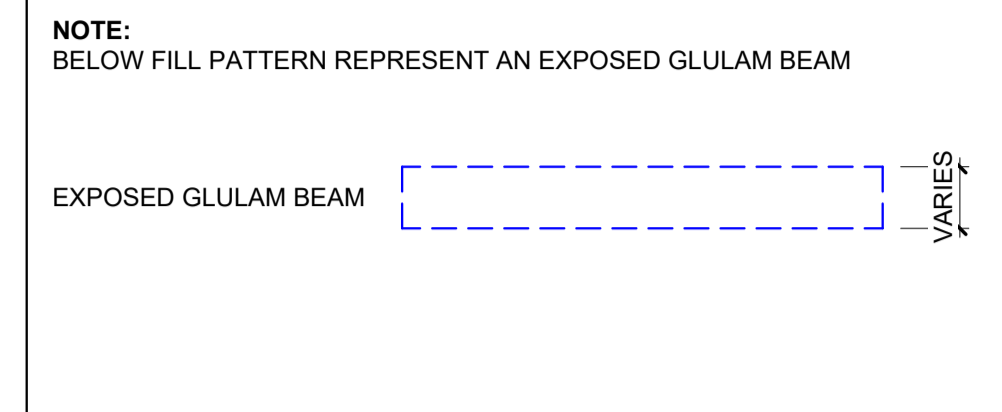
GENERAL NOTES FOR ELEMENTS DESIGN HOMES:

- THE DSS OVERRIDES THE PLANS IN DETERMINING WHAT MATERIALS ARE PROVIDED BY LCH.
- FOR FIRST FLOOR AND GARAGE SPACES, TYPICAL FINISHED FLOOR TO CEILING HEIGHT ARE 9' - 6".
- EAVE WALL HEIGHT AT WINGS ARE 9' - 6".
- EXTERIOR WALL CONSTRUCTION SHALL BE FRAMED WITH 2x6 STUDS @ 16" o.c. PROVIDED WITH DOUBLE TOP PLATE.
- INSULATION ARE PROVIDED BY OTHERS AND DESIGNED PER CLIMATE ZONE.
- SHEATHING WILL BE AS DESCRIBED AS PER WALL ASSEMBLY.
- RAINSCREEN WILL NOT BE PROVIDED UNLESS NOTED OTHERWISE.
- EXTERIOR FINISH AS PER DESIGN SHEET SPECIFICATIONS.
- INTERIOR PARTITIONS SHALL BE FRAMED WITH 2x4 / 2x6 @ 24" o.c. UNLESS NOTED OTHERWISE.

WALL LEGEND:



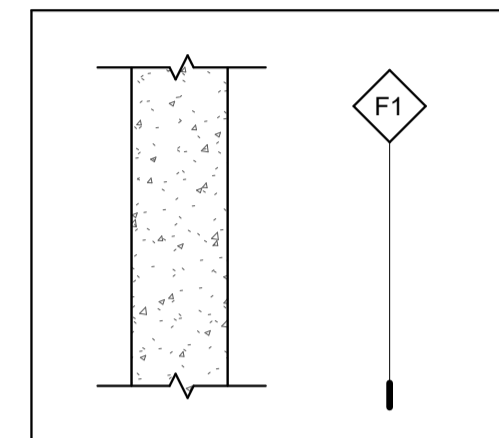
PLAN LEGEND:



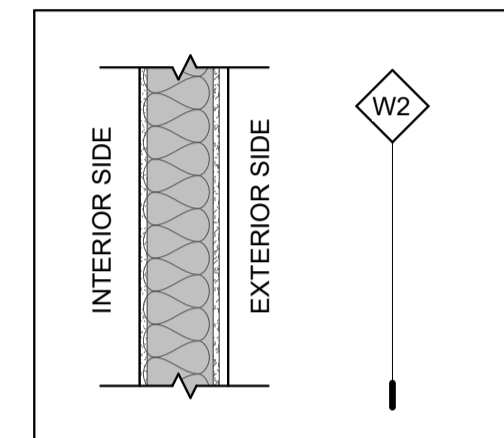
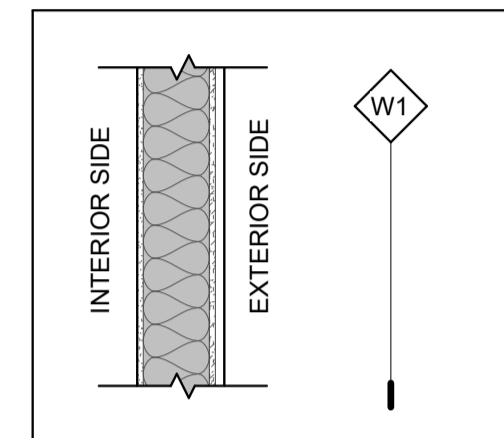
ASSEMBLY SCHEDULES:

TYPE	CONSTRUCTION SYSTEM
F1	• 8" CONCRETE FOUNDATION WALL THICKNESS AS PER STRUCTURAL DESIGN

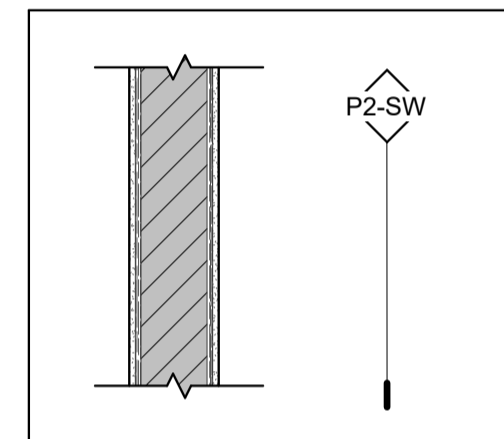
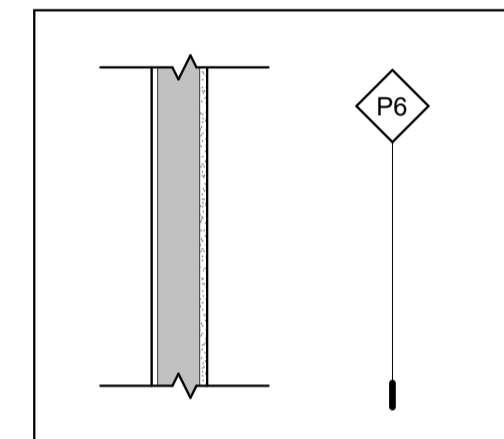
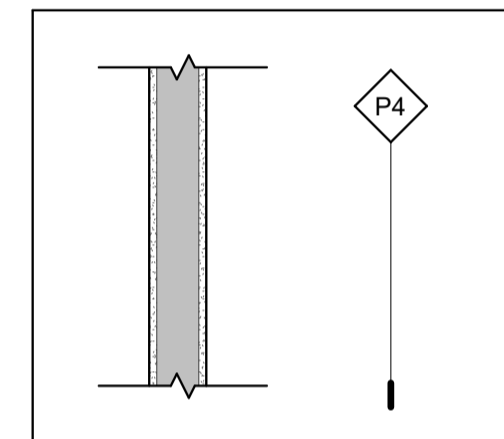
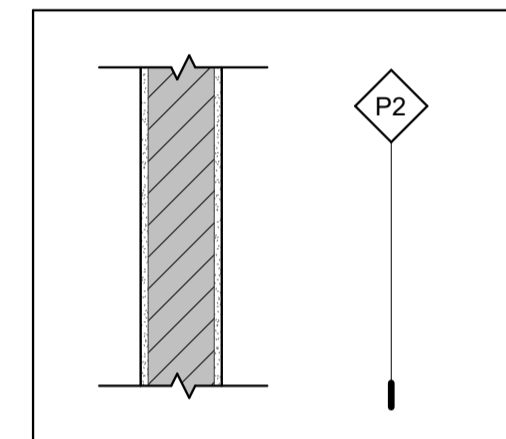
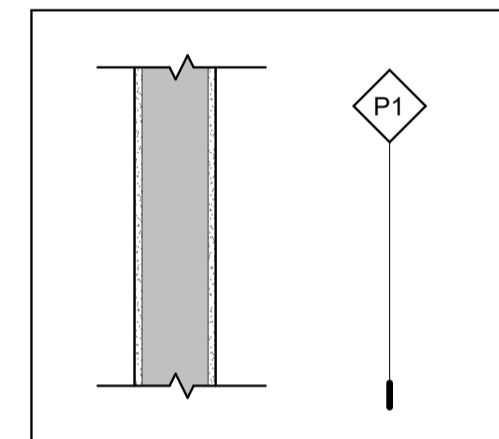
FOUNDATION:



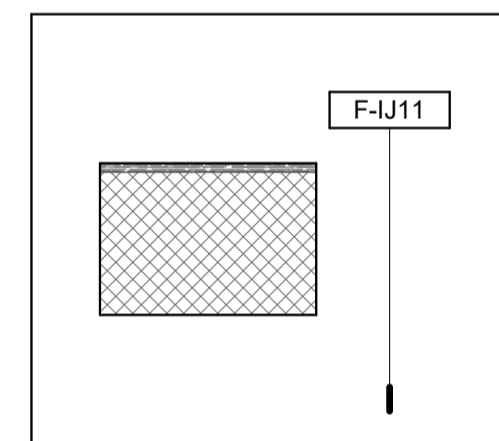
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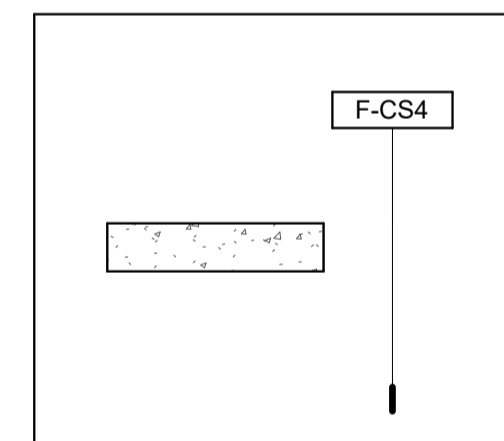
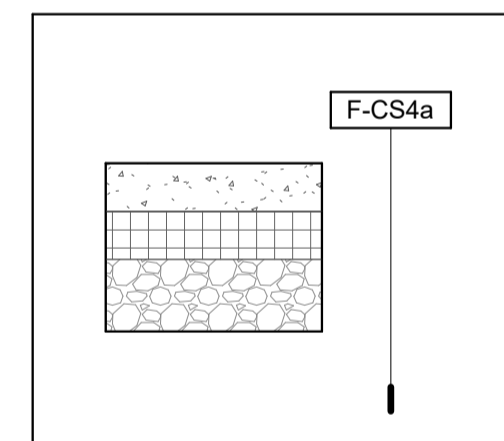
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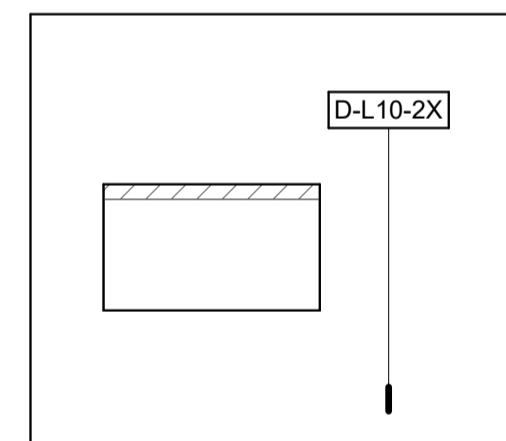
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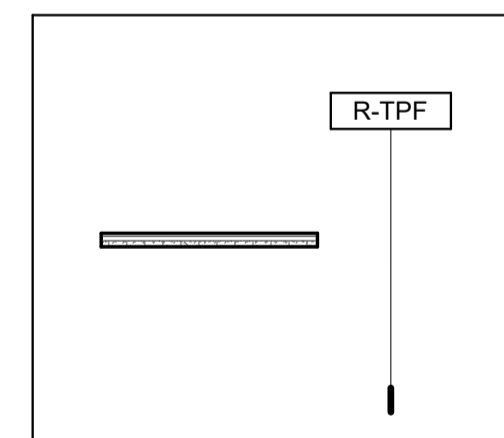
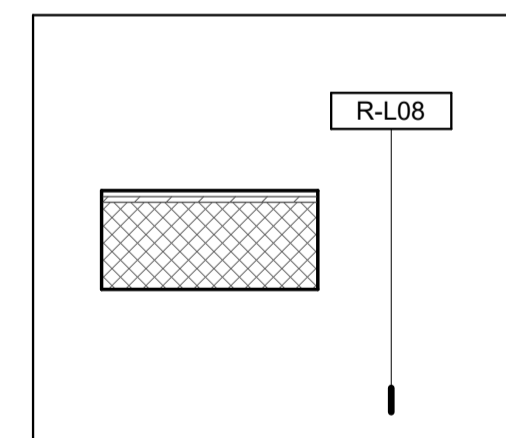
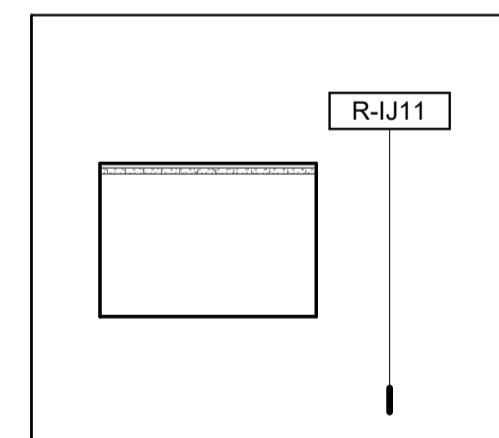
SLAB ON GRADE:



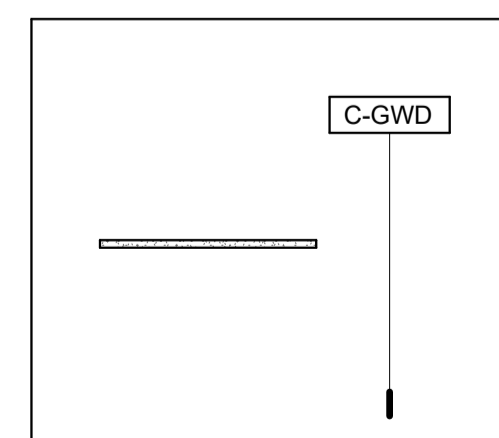
AT DECK AND PORCH:



ROOF SYSTEMS:



CEILING FINISHES:



TYPE	CONSTRUCTION SYSTEM
D-L10-2x	• AZEK MAHOGANY 5.5' COMPOSITE • SUBFLOOR, 23/32" T&G OSB, SHEATHING • 2x10 P.T SPF @ 16" o.c. • TAPERED TO DRAIN
D-L12-2x	• FINISH FLOOR BY OTHERS • SUBFLOOR, 23/32" T&G OSB, SHEATHING • 2x12 P.T SPF @ 16" o.c.
F J11 - 125	• FLOOR FINISH MATERIAL AS PER DSS • SUBFLOOR, 1 1/8" PLYWOOD • 11 7/8" WOOD "I" JOIST @ 16" o.c. • INSULATION MIN R-30, BY OTHERS
F-CS4	• CONCRETE FINISHED SURFACE • 4" CONCRETE SLAB, REINFORCEMENT PER ENGINEERING • R-10 INSULATION
F-CS4T	• CONCRETE FINISHED SURFACE • 4" CONCRETE SLAB, REINFORCEMENT PER ENGINEERING • THICKENED SLAB EDGE PER ENGINEER
F-JU11	• FLOOR FINISH MATERIAL AS PER DSS • SUBFLOOR, 3/4" PLYWOOD • 11 7/8" WOOD "I" JOIST @ 16" o.c. • INSULATION, MIN R-30 BY OTHERS

EXTERIOR WALL ASSEMBLIES

TYPE	CONSTRUCTION SYSTEM
W2	• SIDING 11/16 X 6- BEVEL T.K ROUGH CEDAR • 1/2" PLYWOOD SHEATHING • 2x6 STUD @ 16" o.c. W/ DOUBLE TOP PLATE • INSULATION BY OTHERS R-21 MIN • 5/8" GYPSUM WALL BOARD, BY OTHERS
W2-CP	• COMPOSITE SMOOTH PANEL W/ EZ TRIM 4X10 • 1/2" PLYWOOD SHEATHING • 2x6 STUD @ 16" o.c. W/ DOUBLE TOP PLATE • INSULATION BY OTHERS MIN R-21 • GYPSUM WALL BOARD, BY OTHERS
W2-SW	• SIDING 11/16 X 6- BEVEL T.K ROUGH CEDAR • 1/2" PLYWOOD SHEATHING • 2x6 STUD @ 16" o.c. W/ DOUBLE TOP PLATE • INSULATION BY OTHERS R-21 MIN • 15/32" OSB SHEAR WALL • 5/8" GYPSUM WALL BOARD, BY OTHERS

INTERIOR WALL ASSEMBLIES

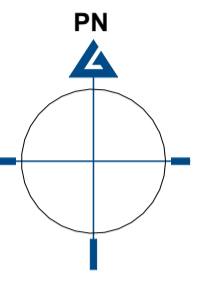
TYPE	CONSTRUCTION SYSTEM
P1	• 5/8" GYPSUM WALL BOARD, BY OTHERS • 2x6 SPF OR DF STUD @ 24" o.c. W/ SINGLE TOP PLATE • 5/8" GYPSUM WALL BOARD, BY OTHERS
P2	BEARING WALL • 5/8" GYPSUM WALL BOARD, BY OTHERS • 2x6 SPF OR DF STUD @ 16" o.c. W/ DOUBLE TOP PLATE • 5/8" GYPSUM WALL BOARD, BY OTHERS
P2-SW	BEARING WALL • 1/2" GYPSUM WALL BOARD, BY OTHERS • 15/32" OSB SHEATHING (SW) • 2x6 SPF OR DF STUD @ 16" o.c. W/ DOUBLE TOP PLATE • 15/32" OSB SHEATHING (SW) • 1/2" GYPSUM WALL BOARD, BY OTHERS
P4	• 5/8" GYPSUM WALL BOARD, BY OTHERS • 2x4 SPF OR DF STUD @ 24" o.c. W/ SINGLE TOP PLATE • 5/8" GYPSUM WALL BOARD, BY OTHERS
P6	• 5/8" GYPSUM TYPE X WALL BOARD, BY OTHERS • 2x4 SPF OR DF STUD @ 24" o.c. W/ SINGLE TOP PLATE • 1/2" AIR SPACE

ROOF ASSEMBLIES

TYPE	CONSTRUCTION SYSTEM
R-JU11	• ROOFING MEMBRANE, BY OTHERS • MOISTURE CONTROL LAYER, BY OTHERS • 15/32" PLYWOOD SHEATHING • 11 7/8" WOOD "I" JOIST/RAFTER @ 16" o.c. • INSULATION MIN R-49, BY OTHERS
R-L8	• ROOFING MEMBRANE, BY OTHERS • 15/32" PLYWOOD SHEATHING • 2x8 SPF @ 16" o.c. • INSULATION MIN R-49, BY OTHERS
R-L08	• ROOFING MEMBRANE, BY OTHERS • 15/32" PLYWOOD SHEATHING • 2x8 SPF @ 16" o.c. • INSULATION MIN R-49, BY OTHERS
R-TPF	• ROOFING MEMBRANE, BY OTHERS • TAPERED FOAM BY OTHERS - EDPM (N.I.C) • 1/4:12 SLOPE FOR DRAINAGE PLANE

CEILING FINISHES

TYPE	CONSTRUCTION SYSTEM
C-GWB	• 1HR- FIRE RATED CEILING 5/8" GYPSUM BOARD TYPE "X" BY OTHERS



PROJECT NORTH

LINDAL DEALER

WARM MODERN LIVING

CLIENT

HOANG INTRACHAT

PROJECT ADDRESS

7929 EAST MERCER WAY
MERCER ISLAND WA 98040

NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/27/2023
2	CITY COMMENT 2	ES	4/3/2024
1	REVISION	ES	7/18/2023
2	ISSUED FOR CD	ES	10/18/2023

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL

CUSTOM ELEMENT HOME

CONSTRUCTION ASSEMBLIES

Scale: 3/4" = 1'-0"

G002

1 - 2018 IRC - TABLE R602.3(1) FASTENING SCHEDULE:

EXTERIOR WALL OF WOOD-FRAMED CONSTRUCTION SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 6 OF THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) AND FIGURE R602.3(1) AND R602.3(2), OR IN ACCORDANCE WITH AWC NDS.

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a,b,c}	SPACING AND LOCATION
ROOF			
1	BLOCKING BETWEEN CEILING JOISTS OR RAFTERS TO TOP PLATE	4-8d (2 1/2" x 0.113"); or 3-8d COMMON (2 1/2" x 0.113"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS	TOE NAIL
2	CEILING JOIST TO PLATE	4-8d (2 1/2" x 0.113"); or 3-8d COMMON (2 1/2" x 0.113"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS	PER JOIST, TOE NAIL
3	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (SEE SECTION R802.5.2 AND TABLE R802.5.2)	4-10d BOX (3" x 0.128"); or 3-16d COMMON (3 1/2" x 0.162"); or 4-3" x 0.131" NAILS	FACE NAIL
4	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION R802.5.2 AND TABLE R802.5.2)	TABLE R802.5.2	FACE NAIL
5	COLLAR TIE TO RAFTER, FACE NAIL, OR 1 1/4" x 20ga. RIDGE STRAP TO RAFTER	4-10d BOX (3" x 0.128"); or 3-10d COMMON (3" x 0.128"); or 4-3" x 0.131" NAILS	FACE NAIL EACH RAFTER
6	RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX NAILS (3 1/2" x 0.135"); or 3-10d COMMON (3" x 0.148"); or 3-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS ¹
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	4-16d (3 1/2" x 0.135"); or 3-10d COMMON (3" x 0.148"); or 3-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS	TOE NAIL
		3-16d BOX (3 1/2" x 0.135"); or 2-16d COMMON (3 1/2" x 0.162"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS	END NAIL

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a,b,c}	SPACING AND LOCATION
WALL			
8	STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162"); OR 10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS	24" o.c. FACE NAIL
9	STUD TO STUD AND BUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	12" o.c. FACE NAIL
		16d COMMON (3 1/2" x 0.162")	16" o.c. FACE NAIL
10	BUILT-UP HEADER, (2" TO 2" HEADER WITH 1/2" SPACER)	16d COMMON (3 1/2" x 0.162")	16" o.c. EACH EDGE FACE NAIL
11	CONTINUOUS HEADER TO STUD	5-8d BOX (2 1/2" x 0.113"); or 4-8d COMMON (2 1/2" x 0.113"); or 4-10d BOX (3" x 0.128")	TOE NAIL
		16d COMMON (3 1/2" x 0.162")	16" o.c. FACE NAIL
12	TOP PLATE TO TOP PLATE	10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS	12" o.c. FACE NAIL
13	DOUBLE TOP PLATE SPLICE	8-16d COMMON (3 1/2" x 0.162"); or 12-16d BOX (3 1/2" x 0.135"); or 12-10d BOX (3" x 0.128"); or 12-3" x 0.131" NAILS	FACE NAILS ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162")	16" o.c. FACE NAIL
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANELS)	3-16d BOX (3 1/2" x 0.135"); or 2-16d COMMON (3 1/2" x 0.162"); or 4-3" x 0.131" NAILS	3 EACH 16" o.c. FACE NAIL
		2-16d COMMON (3 1/2" x 0.162"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS	2 EACH 16" o.c. FACE NAIL
16	TOP OR BOTTOM PLATE TO STUD	4-8d BOX (2 1/2" x 0.113"); or 3-16d BOX (3 1/2" x 0.135"); or 4-8d COMMON (2 1/2" x 0.113"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS	TOE NAIL
		3-16d BOX (3 1/2" x 0.135"); or 2-16d COMMON (3 1/2" x 0.162"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS	END NAIL
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" x 0.128"); or 2-16d COMMON (3 1/2" x 0.162"); or 3-3" x 0.131" NAILS	FACE NAIL
18	RAFTER OR ROOF TRUSS TO PLATE	3-8d BOX (2 1/2" x 0.113"); or 2-8d COMMON (2 1/2" x 0.113"); or 2-10d BOX (3" x 0.128"); or 2 STAPLES 1 3/4"	FACE NAIL
19	1" x 6" SHEATHING TO EACH BEARING	3-8d BOX (2 1/2" x 0.113"); or 2-8d COMMON (2 1/2" x 0.113"); or 2-10d BOX (3" x 0.128"); or 2 STAPLES, 1" CROWN, 16ga., 1 3/4" LONG	FACE NAIL
20	1" x 8" AND WIDER SHEATHING TO EACH BEARING	3-8d BOX (2 1/2" x 0.113"); or 2-8d COMMON (2 1/2" x 0.113"); or 3-10d BOX (3" x 0.128"); or 3 STAPLES, 1" CROWN, 16ga., 1 3/4" LONG	FACE NAIL
		WIDER THAN 1" x 8" 4-8d BOX (2 1/2" x 0.113"); or 3-8d COMMON (2 1/2" x 0.113"); or 3-10d BOX (3" x 0.128"); or 4 STAPLES, 1" CROWN, 16ga., 1 3/4" LONG	FACE NAIL

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a,b,c}	SPACING AND LOCATION
FLOOR			
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8d BOX (2 1/2" x 0.113"); or 3-8d COMMON (2 1/2" x 0.113"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS	TOE NAIL
22	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8d BOX (2 1/2" x 0.113");	4" o.c. TOE NAIL
		8d COMMON (2 1/2" x 0.131"); or 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS	6" o.c. TOE NAIL
23	1" x 6" SUBFLOOR OR LESS TO EACH JOIST	3-8d BOX (2 1/2" x 0.113"); or 2-8d COMMON (2 1/2" x 0.131"); or 3-10d BOX (3" x 0.128"); or 2 STAPLES, 1" CROWN, 16ga., 1 3/4" LONG	FACE NAIL
24	2" SUBFLOOR TO JOIST OR GIRDER	3-16d BOX (3 1/2" x 0.135"); or 2-16d COMMON (3 1/2" x 0.162")	BLIND AND FACE NAIL
25	2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	3-16d BOX (3 1/2" x 0.135"); or 2-16d COMMON (3 1/2" x 0.162")	AT EACH BEARING, FACE NAIL
26	BAND OR RIM JOIST TO JOIST	3-16d COMMON (3 1/2" x 0.162"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14ga. STAPLES, 7/16" CROWN	END NAIL
		20d COMMON (4" x 0.192"); or 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS	NAIL EACH LAYER AS FOLLOWS: 32" o.c. AT TOP AND BOTTOM AND STAGGERED.
27	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYER	AND: 2-20d COMMON (4" x 0.192"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS	24" o.c. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
		4-16d BOX (3 1/2" x 0.135"); or 3-16d COMMON (3 1/2" x 0.162"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS	FACE NAIL AT ENDS AND AT EACH SPLICE
28	LEDGER STRIP SUPPORTING JOIST OR RAFTERS	4-16d BOX (3 1/2" x 0.135"); or 3-16d COMMON (3 1/2" x 0.162"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS	AT EACH JOIST OR RAFTER, FACE NAIL
29	BRIDGING OR BLOCKING TO JOIST	2-10d BOX (3" x 0.128"); or 2-8d COMM. (2 1/2" x 0.131"); or 2-3" x 0.131" NAILS	EACH END, TOE NAIL

ITEM	DESCRIPTION OF BUILDING ELEMENTS	DESCRIPTION OF FASTENER ^{a,b,c}	SPACING OF FASTENERS	
			EDGES ^a	INTERMEDIATE SUPPORTS ^{a,e}
WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING, AND PARTICLE BOARD WALL SHEATHING TO FRAMING (SEE TABLE R602.3(3) FOR WOOD STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO WALL FRAMING)				
30	3/8" - 1/2"	8d COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) ¹ OR 8d COMMON (2 1/2" x 0.131") NAIL (ROOF); OR RSRS-01 (2 3/8" x 0.113") NAIL (ROOF)	6"	12"
31	1/2" - 1"	8d COMMON NAIL (2 1/2" x 0.131"); or RSRS-01 (2 3/8" x 0.113") NAIL (ROOF)	6"	12"
32	1 1/8" - 1 1/4"	10d COMMON (3" x 0.148") NAIL; or 8d (2 1/2" x 0.131") DEFORMED NAIL	6"	12"
OTHER WALL SHEATHING^a				
33	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 1/2" GALVANIZED ROOFING NAIL, 7/16" Ø HEAD, or 1 1/4" LONG 16ga. STAPLE WITH 7/16" or 1" CROWN	3"	6"
34	25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 3/4" GALVANIZED ROOFING NAIL, 7/16" Ø HEAD, or 1 1/2" LONG 16ga. STAPLE WITH 7/16" or 1" CROWN	3"	6"
35	1/2" GYPSUM SHEATHING ^d	1 1/2" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1 1/2" LONG 1 1/4" SCREWS, TYPE W or S	7"	7"
36	5/8" GYPSUM SHEATHING ^d	1 3/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1 5/8" LONG 1 5/8" SCREWS, TYPE W or S	7"	7"
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING				
37	3/4" AND LESS	6d DEFORMED (2" x 0.120") NAIL or 8d COMMON (2 1/2" x 0.131") NAIL	6"	12"
38	7/8" - 1"	8d COMMON (2 1/2" x 0.131") NAIL or 8d DEFORMED (2 1/2" x 0.120") NAIL	6"	12"
39	1 1/8" - 1 1/4"	10d COMMON (3" x 0.148") NAIL; or 8d DEFORMED (2 1/2" x 0.120") NAIL	6"	12"

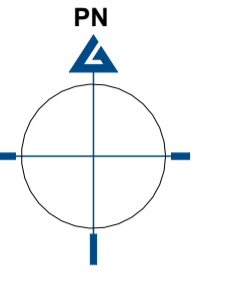
- a. ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 KSI FOR SHANK DIAMETER OF 0.192 INCH (20d COMMON NAIL), 90 KSI FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.1777 INCH, AND 100 KSI FOR SHANK DIAMETER OF 0.142 INCH OR LESS.
- b. STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16-INCH ON DIAMETER CROWN WIDTH.
- c. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.
- d. FOUR-FOOT BY 8-FOOT OR 4-FOOT BY 9-FOOT PANELS SHALL BE APPLIED VERTICALLY.
- e. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2).
- f. FOR WOOD STRUCTURAL PANEL, ROOF SHEATHING ATTACHED TO GABLE END ROOF FRAMING AND TO INTERMEDIATE SUPPORTS WITHIN 48 INCHES OF ROOF EDGES AND RIDGES, NAILS SHALL BE SPACED AT 6 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 130 mph AND SHALL BE SPACED 4 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS 130 mph OR GREATER BUT LESS THAN 140 mph.
- g. GYPSUM SHEATHING SHALL CONFORM TO ASTM C 1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C 208.
- h. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.
- i. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TOE NAILS FROM THE CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED.
- j. RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.

ENERGY CODE R402.1.1

Table R402.1.1—Insulation and fenestration requirements by component.

Climate Zone 5 and Marine 4	INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT ^a						Slab ^{f,1} R-Value & Depth 10, 2 ft.
	Fenestration U-Factor ^b	Skylight ^b U-Factor	Ceiling R-Value ^c	Wood Frame Walls ^h R-Value	Floor R-Value	Below-Grade ^{e,h} Wall R-Value	
0.30	0.50	49	21 Int	30	10/15/ 21 Int-5TB	10, 2 ft.	

- For SI: 1 foot = 304.8 mm, ci = continuous insulation, Int = intermediate framing.
- ^aR-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the R-value specified in the table.
- ^bThe fenestration U-factor column excludes skylights.
- ^c10/15/21-5TB means R-10 continuous insulation on the exterior of the wall, or R-15 on the continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall. 10/15/21-5TB shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the wall. TB means R-5 thermal break between floor slab and basement wall.
- ^dR-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1.
- ^eFor single rafter- or joist-vented ceilings, the insulation may be reduced to R36 if the full insulation depth extends over the top plate of the exterior wall.
- ^fR-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall meet the requirements for thermal barriers protecting foam plastics.
- ^gFor log structures developed in compliance with Standard ICC-400, log walls shall meet the requirements for climate zone 5 of ICC 400.
- ^hInt. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard framing 16 inches on center, 75 percent of the wall cavity insulated and headers insulated with a minimum of R-10 insulation.



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SHEAR WALL STRUCTURAL NAILING TABLE PER CODE IRC 602.

COMPLETE INFORMATION FOR SHEAR WALL NAILING AND DETAILS REFER TO STRUCTURAL DRAWING SHEET S4.0

SHEAR WALL TYPE	SHEAR WALL SHEATHING (1)	PANEL EDGE NAILING (2)	PANEL EDGE NAILING (3)	BOTTOM PLATE ATTACHMENT		TOP PLATE ATTACHMENT	
				2x BOTTOM PLATE CONNECTION TO RIM JOIST OR BLOCKING BELOW	ANCHOR BOLTING OF SILL PLATE TO CONCRETE BELOW (4,5)	RIM JOIST OR BLOCKING CONNECTION TO TOP PLATE	EXTERIOR WALL (6)
5W-6	5/8" APA ONE-SIDE SHIS	2x 0.8" x 2 1/2" # 6 O.C.	0.148" x 0.148" # 6" O.C.	3x PLATE	2x PLATE	2x 48" O.C.	AS5 (780-55) # 6" O.C.
5W-4	5/8" APA ONE-SIDE SHIS	3x OR (2) 2x 0.8" x 2 1/2" # 6 O.C.	0.148" x 0.148" # 4" O.C.	3x PLATE	2x PLATE	2x 48" O.C.	AS5 (780-55) # 6" O.C.
5W-2	5/8" APA ONE-SIDE SHIS	3x OR (2) 2x 0.8" x 2 1/2" # 6 O.C.	0.148" x 0.148" # 4" O.C.	(2) ROWS STAGGERED	2x PLATE	2x 48" O.C.	AS5 (780-55) # 6" O.C.
25W-2	5/8" APA TWO-SIDE SHIS	3x 0.148" x 0.148" # 2" O.C.	0.148" x 0.148" # 2" O.C.	(2) ROWS STAGGERED	2x PLATE	2x 48" O.C.	AS5 (780-55) # 6" O.C.

- NOTES:**
- INSTALL PANEL SHEATHING EITHER HORIZONTALLY OR VERTICALLY FOR THE ENTIRE LENGTH OF THE WALL PER PLAN. WALL STUD SPACING SHALL BE 16" O.C. MAXIMUM.
 - ALL INTERMEDIATE WALL STUDS SHALL BE PER PLAN. PROVIDE BACKING FRAMING AT ALL PANEL EDGES INCLUDING HORIZONTAL BLOCKING PER THE SCHEDULE.
 - PROVIDE NAILING TO ALL PANEL EDGES. TOP & BOTTOM PLATES AND HORIZONTAL BLOCKING. PROVIDE THE SAME NAILING PATTERN TO EACH MULTIPLE STUD OF THE BUILT-UP HOLD DOWN POST. NAIL PATTERN TO INTERMEDIATE FRAMING MEMBERS W/ 0.131" x 2 1/2" # 6 O.C.
 - EMBED CAST-IN-PLACE 5/8" ANCHOR BOLTS 1" MIN. (OR EMBED ADHESIVE ANCHOR BOLTS 5/16" IN (E) CONCRETE; SEE STRUCTURAL NOTES). PROVIDE PLATE NAGSER 3" x 3" x 1/4" AT EACH ANCHOR BOLT. SILL PLATES SHALL BE TREATED PER GENERAL NOTES AND SHALL BE 2x OR 3x PER THE SCHEDULE. SEE DETAIL U54.0 FOR OTHER REQUIREMENTS.
 - PROVIDE HOT DIPPED GALVANIZED NAILS, BOLTS, OR METAL PLATES FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED MEMBERS.
 - PROVIDE 0.818" x 1 1/2" LONG NAILS FOR CLIPS DIRECTLY ATTACHED TO FRAMING MEMBERS. PROVIDE 0.818" x 2 1/2" LONG NAILS FOR CLIPS INSTALLED OVER FLOOR OR WALL SHEATHING ON FRAMING MEMBERS. SEE 6/54.1 FOR TOP PLATE SPLICE.
 - ALTERNATIVE TO 3x STUDS AND 3x HORIZ. BLOCKING IS (2) 2x STUDS/BLOCKS. NAILED TOGETHER WITH 0.148" x 3" x 1/2" LONG NAILS WITH THE SAME SPACING AS THE PANEL EDGE NAILING PER THE SCHEDULE (STAGGER).
 - STAGGER NAILS PER 2/54.0.
 - RIM JOIST/BLOCKING MINIMUM WIDTH OF 1 1/2". STAGGER NAILS PER 2/54.0 WHERE SPACING IS LESS THAN 6" O.C.
 - STAGGER PANEL EDGE JOINTS AT DOUBLE-SIDED SHEAR WALLS SO THAT JOINTS ON OPPOSITE SIDES ARE NOT AT THE SAME STUD.
 - STAGGER ANCHOR BOLTS ON EITHER SIDE OF SILL PLATE AS NOTED ON U54.0.

REVISION	DATE	ISSUED BY
1	7/18/2023	ES
2	10/19/2023	ES
3	4/30/2024	ES
4	11/27/2025	ES

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL
CUSTOM ELEMENT HOME

BUILDING CODE NOTES

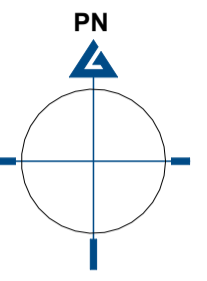
Scale:

G003

FIRE RESISTANCE RATING LEGEND:

---	20 MIN. FRR
----	45 MIN. FRR
-----	60 MIN. FRR
-----	90 MIN. FRR
-----	120 MIN. FRR

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PROJECT NORTH

LINDAL DEALER

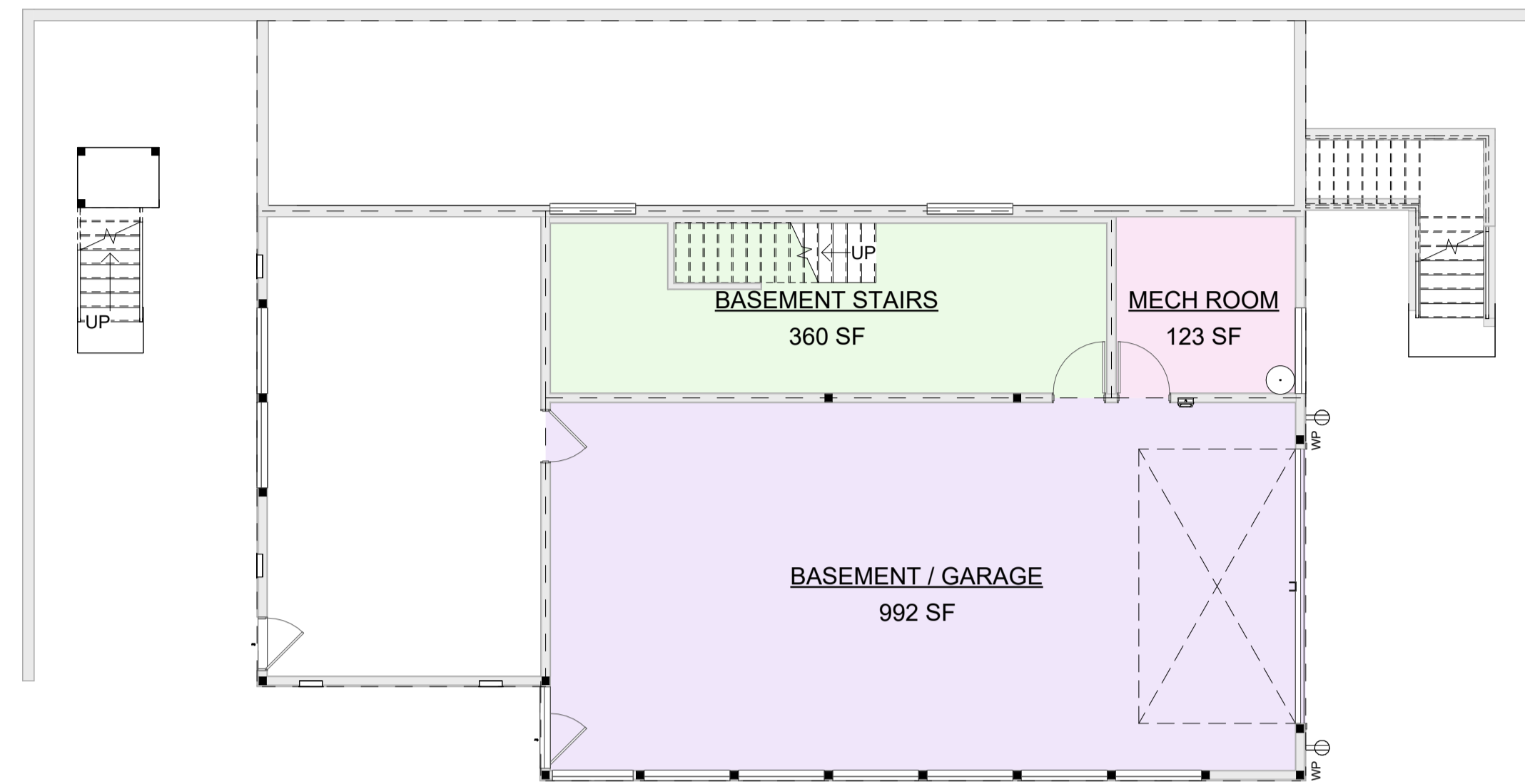
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CLIENT

HOANG INTRACHAT

PROJECT ADDRESS

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MERCER ISLAND WA 98040



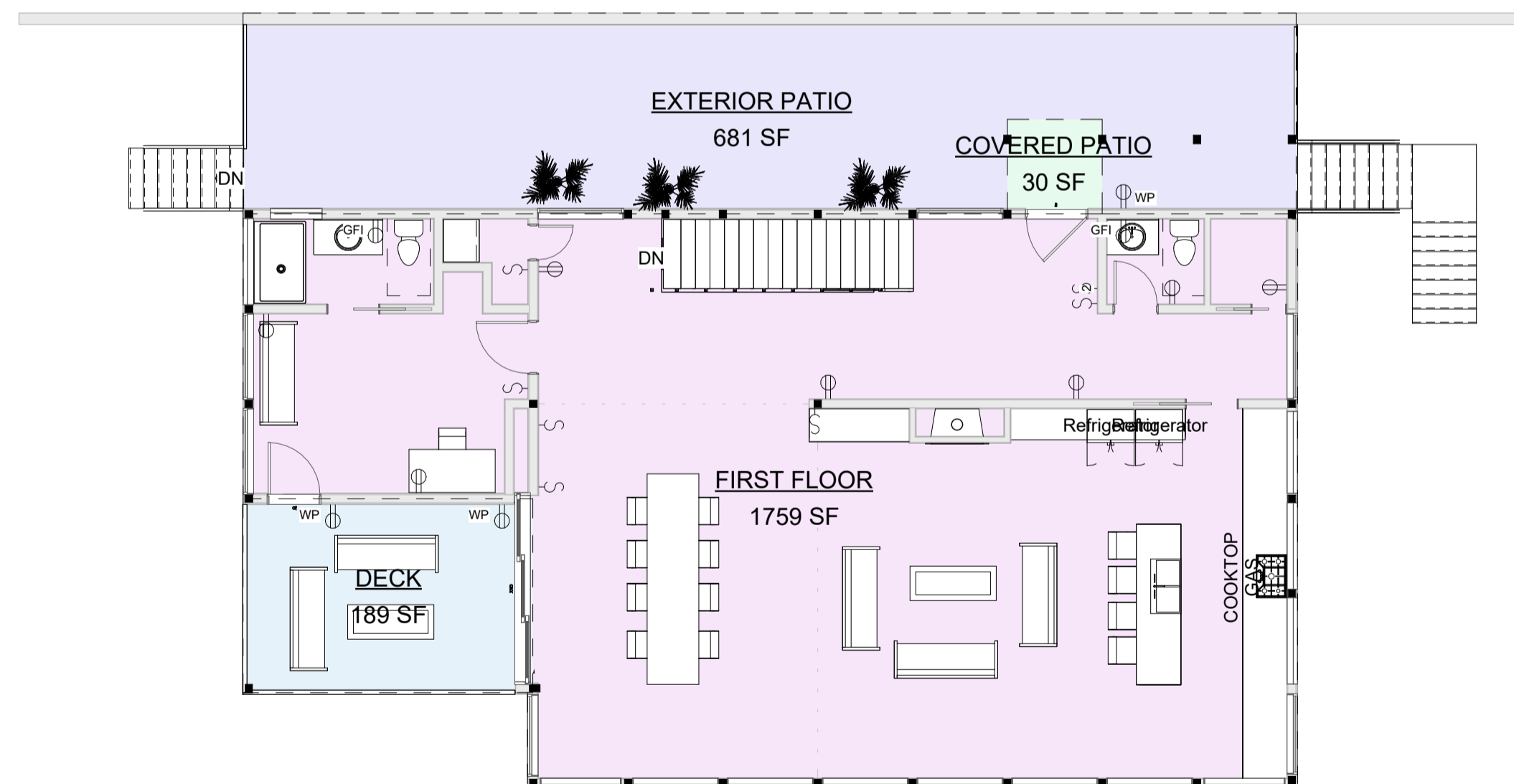
AREA COLOR LEGEND

- BASEMENT / GARAGE
- BASEMENT STAIRS
- MECH ROOM

2 00 - BASEMENT AREA PLAN
G004 1/8" = 1'-0"

AREA COLOR LEGEND

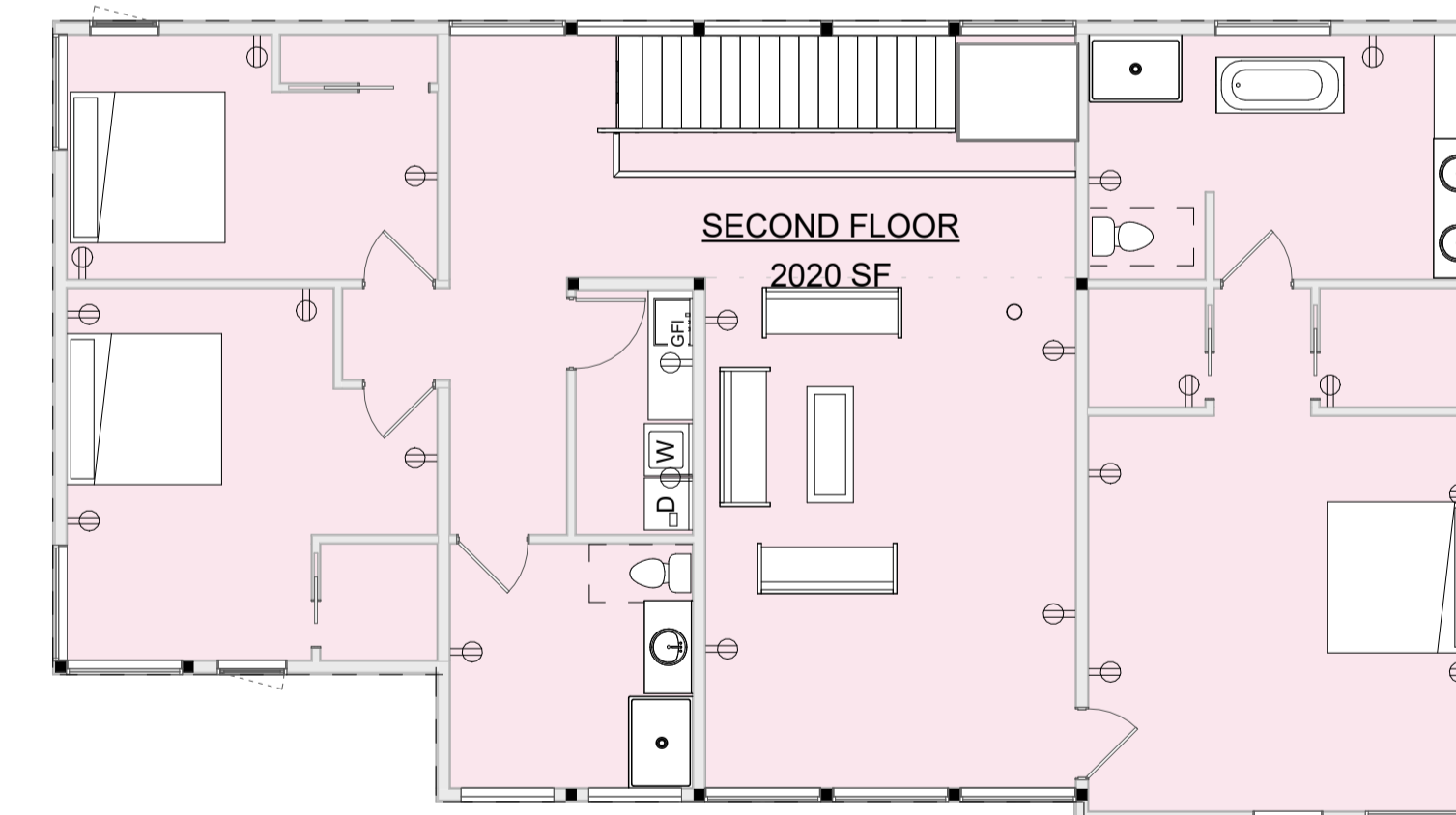
- COVERED PATIO
- DECK
- EXTERIOR PATIO
- FIRST FLOOR



1 FIRST FLOOR AREA PLAN
G004 1/8" = 1'-0"

AREA COLOR LEGEND

- SECOND FLOOR



3 02 - SECOND FLOOR AREA PLAN
G004 1/8" = 1'-0"

REVISION NO.	ES	7/18/2023
ISSUED FOR CD	ES	10/18/2023
2 CITY COMMENT 2	ES	4/3/2024
1 CITY COMMENTS	ES	11/27/2023
NO. DESCRIPTION	ISSUED BY	DATE

ISSUANCES

WARRANTY NUMBER

42255

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MODEL

CUSTOM ELEMENT HOME

AREA PLANS

Scale: 1/8" = 1'-0"

G004

AVERAGE BUILDING ELEVATION CALCULATION		
SEGMENT LENGTH	MID POINT ELEVATION	X*x
A = 61.95	a = 197	12204.15
B = 44.45	b = 189	8401.05
C = 17.95	c = 188.21	3378.369
D = 1.03	d = 188.2	193.846
E = 27.5	e = 188.05	5171.375
F = 5.46	f = 188	1026.48
G = 16.5	g = 188	3102
H = 37.95	h = 189	7172.55
212.79		40649.82

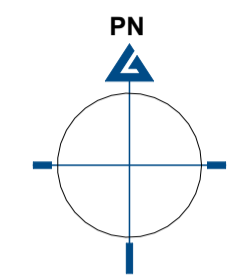
Formula 1:

$$\frac{40649.8205}{212.79} = 191.03$$
 Allowable Building Height = 221.03

SITE PLAN LEGEND:	
	PROPERTY LINE
	DWELLING SETBACK
	PROPOSED NEW ENTRANCE / EXIT DOOR
	GARAGE OVERHEAD DOOR



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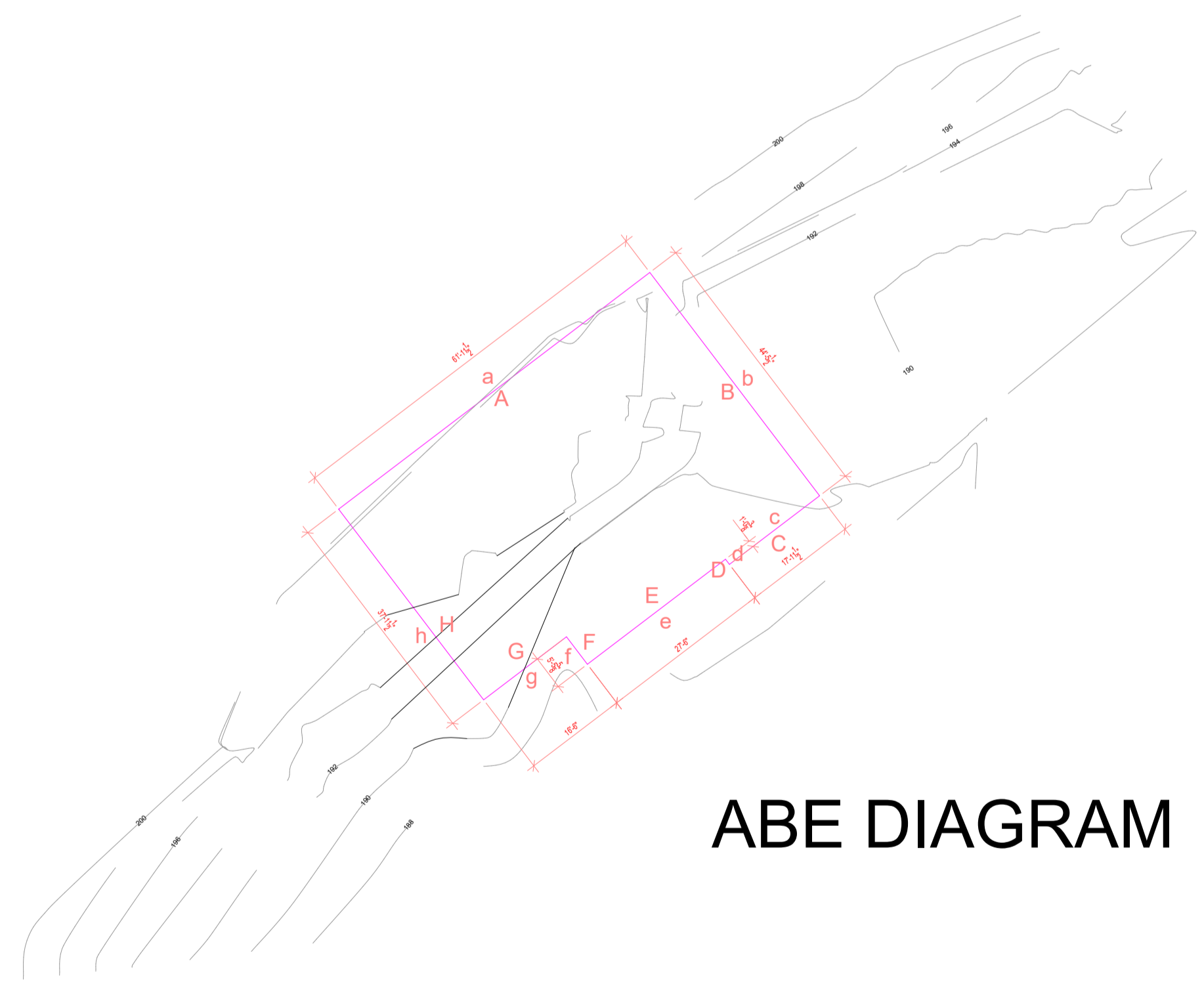
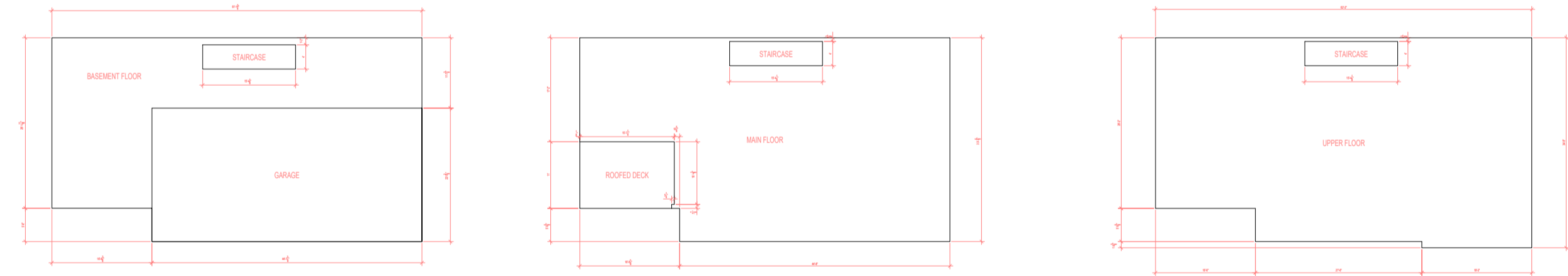
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GFA DIAGRAMS



ABE DIAGRAM

1 AVERAGE BUILDING HEIGHT
 G005 1" = 20'-0"

NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/27/2023
2	CITY COMMENT 2	ES	4/3/2024
3	ISSUED FOR CD	ES	10/18/2023
4	REVISION DD	ES	7/18/2023

ISSUANCES

WARRANTY NUMBER

42255

SERIES



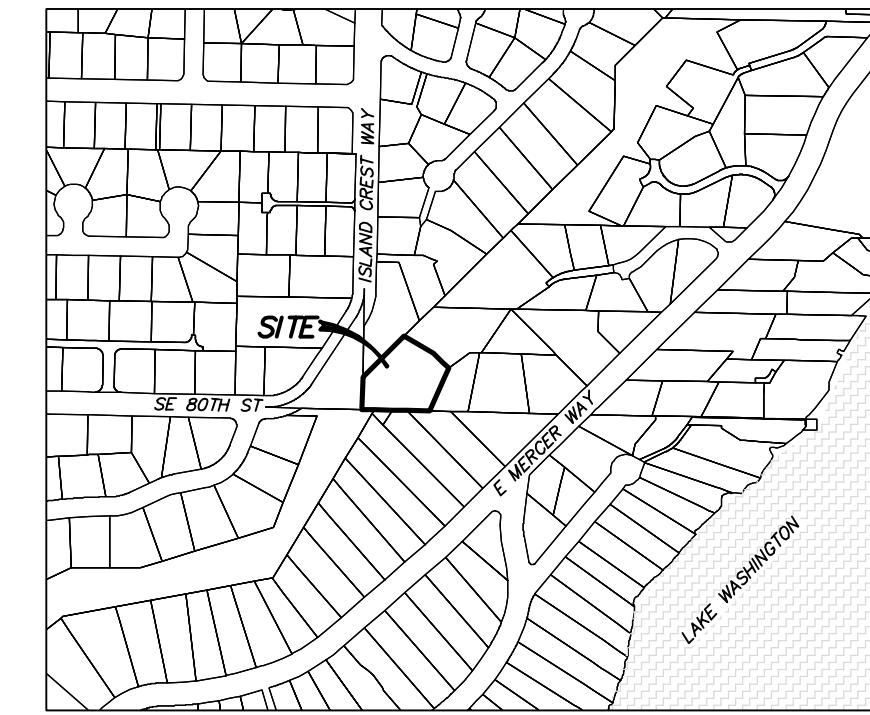
MODEL
 CUSTOM ELEMENT HOME

AVERAGE BUILDING HEIGHT

Scale: 1" = 20'-0"

G005

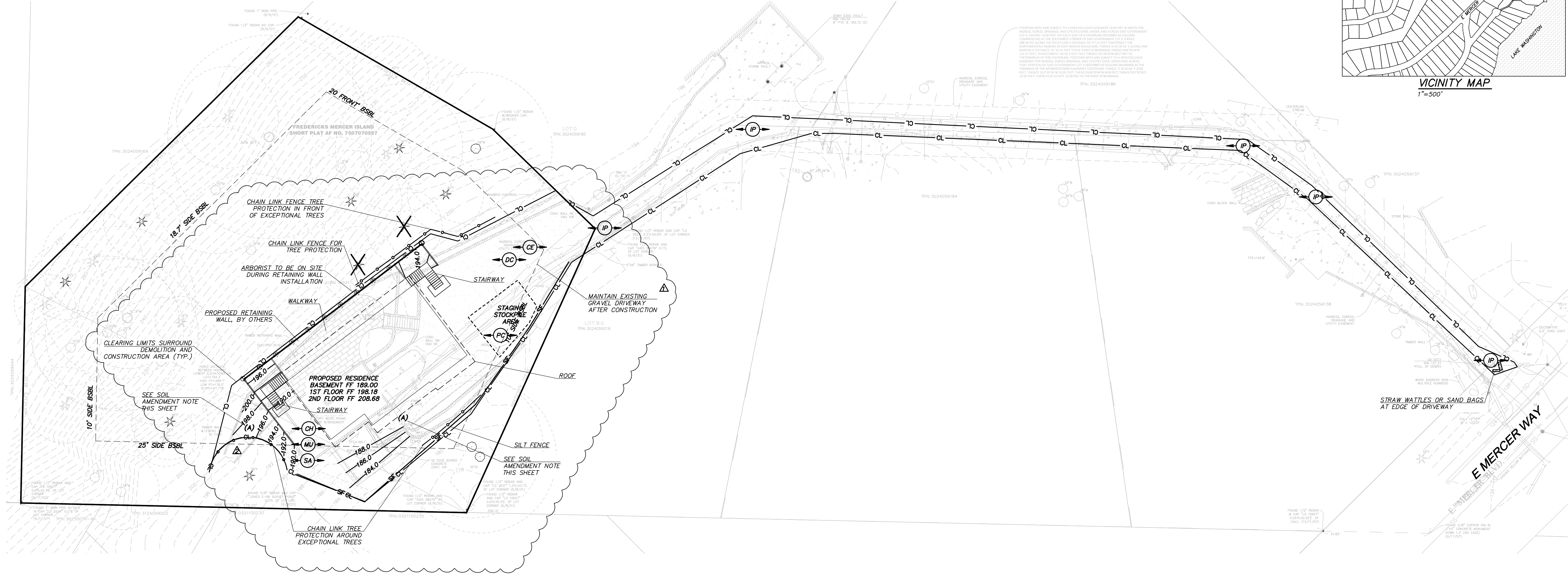
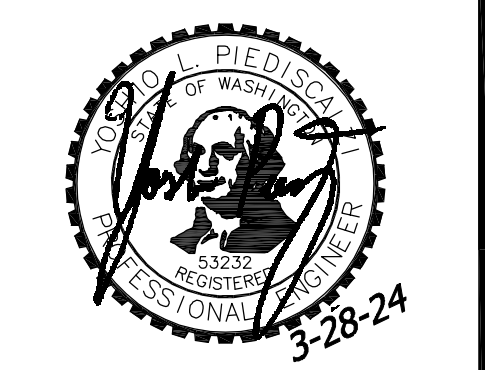
SW 1/4 SECTION 30, TOWNSHIP 24 N, RANGE 4 E, W.M.
7929 E. MERCER WAY



DRS
D.R. STRONG CONSULTING ENGINEERS
 ENGINEERS PLANNERS SURVEYORS
 620 - 7th AVENUE KIRKLAND, WA 98033
 O 425.827.3063 F 425.827.2423

**7929 EAST MERCER WAY
 MERCER ISLAND RESIDENCE**
 TESC PLAN
 PARCEL NO. 3024059176
 7929 EAST MERCER WAY
 MERCER ISLAND, WA 98040

HOA HOANG
 7929 E MERCER WAY
 MERCER ISLAND WA 98040



GENERAL EROSION CONTROL NOTES:

ALL DISTURBED AREAS SHALL BE STABILIZED USING TYPICAL TESC BMP'S. THE LIMITS OF DISTURBANCE WILL BE DELINEATED WITH HIGH VISIBILITY CONSTRUCTION FENCING. DURING CONSTRUCTION SILT FENCES WILL BE PLACED DOWN SLOPE OF DISTURBED AREAS ALONG WITH STRAW MATTING, NETS, OR PLASTIC COVERING OVER EXPOSED SOIL OR STOCKPILES. TREES TO BE RETAINED WILL BE PROTECTED WITH HIGH VISIBILITY CONSTRUCTION FENCING.
 AT THE COMPLETION OF THE PROJECT ALL DISTURBED AREAS WILL BE STABILIZED WITH COMPOST AMENDED SOILS AND HYDROSEEDING OR SOD.

SITE VOLUME CALCULATIONS

CUT VOLUME (CU. YDS.)	FILL VOLUME (CU. YDS.)	NET VOLUME (CU. YDS.)
493	56	437 CUT

ALL VOLUMES ARE APPROXIMATE AND ARE PROVIDED FOR PERMITTING PURPOSES AND REPRESENT FINISH GRADE TO EXISTING GRADE AS SHOWN. CONTRACTOR SHALL RELY ON HIS/HER OWN ESTIMATES FOR DETERMINING ACTUAL EARTHWORK QUANTITIES.
 THE VOLUMES DO NOT INCLUDE STRIPPING, STRUCTURAL OR VAULT EXCAVATION, EXPANSION/COMPACTION FACTOR OR ANY SOIL TYPE RESTRICTIONS.

GRADING NOTE:

TOTAL AREA TO BE DISTURBED ON-SITE.....9,763 S.F.
 TOTAL AREA TO BE DISTURBED OFF-SITE.....1,535 S.F.
 TOTAL AREA TO BE DISTURBED FOR PROJECT.. 11,298 S.F.
 FILL SHALL CONSIST OF SUITABLE MATERIAL ORIGINATING FROM THE SITE OR FROM AN APPROVED SUPPLIER.

SOIL AMENDMENT NOTE:

AREA (A): STOCKPILE SITE DUFF AND TOPSOIL FOR ALL DISTURBED PERVIOUS AREAS AND REAPPLY WITH SOIL AMENDMENT AFTER GRADING AND CONSTRUCTION. MINIMUM SCARIFICATION DEPTH 8-INCHES. PROVIDE A TOTAL OF 15 C.Y. OF AMENDMENT OVER AN AREA OF 600 S.F.

ON-SITE SOILS:

THE ENTIRE SITE CONTAINS KITSAP SILT LOAM (KpD) SOILS PER THE NRCS SOIL MAP.

P.E. CERTIFICATION FOR SECTION B:

I HEREBY STATE THAT THIS CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN FOR 7929 E. MERCER WAY HAS BEEN PREPARED BY ME OR UNDER MY SUPERVISION AND MEETS THE STANDARD OF CARE AND EXPERTISE WHICH IS USUAL AND CUSTOMARY IN THIS COMMUNITY FOR PROFESSIONAL ENGINEERS. I UNDERSTAND THAT THE CITY OF MERCER ISLAND DOES NOT AND WILL NOT ASSUME LIABILITY FOR THE SUFFICIENCY, SUITABILITY, OR PERFORMANCE OF CONSTRUCTION SWPPP BMP'S PREPARED BY ME.

LEGAL DESCRIPTION: (BY SURVEYOR)

NO EASEMENTS, RESTRICTIONS, OR RESERVATIONS OF RECORD WHICH WOULD BE DISCLOSED BY TITLE REPORT ARE SHOWN.

THAT PORTION OF GOVERNMENT LOT 6, SECTION 30, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
 BEGINNING AT THE SOUTHWEST CORNER OF SAID GOVERNMENT LOT 6;
 THENCE N 11°23'3" E ALONG THE WEST LINE OF SAID GOVERNMENT LOT 6 A DISTANCE OF 85.02 FEET;
 THENCE N 45°20'36" E ALONG THE NORTHWESTERLY LINE OF THAT CERTAIN TRACT OF LAND RECORDED UNDER AUDITOR'S FILE NO. 4076342, RECORDS OF SAID COUNTY, A DISTANCE OF 150.69 FEET;
 THENCE S 59°58'04" E 88.14 FEET;
 THENCE S 45°48'09" E 56.15 FEET;
 THENCE S 24°24'15" W 122.46 FEET TO INTERSECT THE SOUTH LINE OF SAID GOVERNMENT LOT 6;
 THENCE N 88°44'07" W ALONG SAID SOUTH LINE A DISTANCE OF 175.00 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH AND SUBJECT TO A NON EXCLUSIVE EASEMENT 20.00 FEET IN WIDTH FOR INGRESS, EGRESS, DRAINAGE, AND UTILITIES OVER, UNDER, AND ACROSS SAID GOVERNMENT LOT 6, HAVING 10.00 FEET ON EACH SIDE OF A CENTERLINE DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID GOVERNMENT LOT 6;
 THENCE S 88°44'07" E ALONG THE SOUTH LINE A DISTANCE OF 511.23 FEET TO INTERSECT THE NORTHWESTERLY MARGIN OF EAST MERCER BOULEVARD;
 THENCE N 45°20'36" E ALONG SAID MARGIN A DISTANCE OF 93.43 FEET TO THE POINT OF BEGINNING;
 THENCE N 44°39'24" W 123.57 FEET;
 THENCE N 88°21'44" W 210.01 FEET;
 THENCE S 53°39'56" W 68.57 FEET TO THE TERMINUS OF THIS CENTERLINE.

TOGETHER WITH AND SUBJECT TO A NON EXCLUSIVE EASEMENT FOR INGRESS, EGRESS DRAINAGE, AND UTILITIES OVER, UNDER AND ACROSS THAT PORTION OF SAID GOVERNMENT LOT 6 DESCRIBED AS FOLLOWS:

BEGINNING AT THE TERMINUS OF THE AFORESAID EASEMENT CENTERLINE;
 THENCE S 36°20'04" E 20.00 FEET;
 THENCE S 53°39'56" W 20.00 FEET;
 THENCE N 36°20'04" W 40.00 FEET;
 THENCE N 53°39'56" E 20.00 FEET;
 THENCE S 36°20'04" E 20.00 FEET TO THE POINT OF BEGINNING.

SURVEY NOTES:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONCLUDED ON MAY 11, 2022 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

THIS SURVEYOR HAS MADE NO INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

PARCEL BOUNDARY LEGAL DESCRIPTION AND EASEMENT SHOWN IS BASED ON SHORT PLAT RECORDED UNDER AUDITOR'S FILE NO. 7507070597.

UNDERGROUND UTILITIES WERE LOCATED BASED ON THE SURFACE EVIDENCE OF UTILITIES (PAINT MARKS, SAW CUTS IN PAVEMENT, COVERS, LIDS, ETC.). THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

2" CONTOUR INTERVAL DERIVED FROM DIRECT FIELD OBSERVATION.
 THIS SURVEY MEETS UNITED STATES NATIONAL MAP ACCURACY STANDARDS FOR VERTICAL ACCURACY OF ONE HALF THE CONTOUR INTERVAL.

CONSTRUCTION SEQUENCE

- ARRANGE AND ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY INSPECTOR.
- FLAG OR FENCE CLEARING LIMITS.
- CALL ONE-CALL UTILITY LOCATE SERVICE PRIOR TO ANY EXCAVATION WORK.
- GRADE ACCESS ROAD & CONSTRUCT/INSTALL ROCK CONSTRUCTION ENTRANCE IF NECESSARY.
- INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
- INSTALL SHORING WALL.
- CONSTRUCT RESIDENCE AND OTHER SITE IMPROVEMENTS.
- MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OR COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- MAINTAIN ACCESS TO OFF-SITE ROADS AND DRIVEWAYS AT ALL TIMES DURING THE DURATION OF THE PROJECT.
- RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS.
- COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING OR EQUIVALENT.
- STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
- SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BMP'S REMOVED IF APPROPRIATE AFTER ACCEPTANCE BY INSPECTOR.

BENCHMARK: (BY SURVEYOR)

ORIGINATING BENCHMARK: CITY OF MERCER ISLAND CONTROL POINT 4315, FOUND 3/8" PIN IN CONCRETE MONUMENT DOWN 0.8" IN CASE.
 ELEVATION: 100.39
 TEMPORARY BENCHMARKS:
 TBM 'A'
 SET ON HEISEL SQUARE ±19.6' NORTHEASTERLY OF EASTERMOST LOT CORNER.
 ELEVATION: 191.14

BASIS OF BEARINGS: (BY SURVEYOR)

HELD A BEARING OF NORTH 38°04'48" EAST BETWEEN CITY OF MERCER ISLAND CONTROL POINTS 1693 & 4315.

REFERENCES: (BY SURVEYOR)

- PLAT OF AVALON PARK RECORDED IN VOLUME 49 OF PLATS PAGES 64-65.
- RECORD OF SURVEY RECORDED IN VOLUME 19 OF SURVEYS PAGE 38.
- SHORT PLAT NO. 85-03-04 RECORDED UNDER RECORDING NUMBER 20031013900001.
- RECORD OF SURVEY RECORDED IN VOLUME 60 OF SURVEYS PAGE 18.
- SHORT PLAT NO. 87-04-01 RECORDED UNDER RECORDING NUMBER 8705219006.
- BOUNDARY LINE ADJUSTMENT RECORDED IN VOLUME 30 OF SURVEYS PAGE 140-140A.

TESC LEGEND:

- FOR ADDITIONAL TESC DETAILS REFER TO DOE 2012 SWMMWW
- CL CONSTRUCTION LIMITS, TO BE FLAGGED OR FENCED WHEN NO SILT FENCE IS PROPOSED (BMP C103)
 - SF SILT FENCE IS PROPOSED (BMP C233)
 - SW STRAW WATTLES (BMP C235)
 - CE STABILIZED CONSTRUCTION ENTRANCE (BMP C105)
 - IP INLET PROTECTION (BMP C220)
 - DC DUST CONTROL (BMP C140)
 - MU MULCHING, MATTING, & COMPOST BLANKETS (BMP C121, BMP C125)
 - PS PERMANENT SEEDING AND PLANTING (BMP C120)
 - SA POST-CONSTRUCTION SOIL AMENDMENT QUALITY & DEPTH (BMP C120)
 - CH CONCRETE HANDLING (BMP C151)
 - PC PLASTIC COVERING (BMP C123)
 - Tree symbols: TREE TO BE REMOVED, TREE TO BE SAVED, PROVIDE TREE PROTECTION FENCING PER ARBORIST RECOMMENDATIONS, EXCEPTIONAL TREES

SHEET INDEX:

- C1 OF 7 COVER SHEET & T.E.S.C. PLAN
- C2 OF 7 T.E.S.C. NOTES & DETAILS
- C3 OF 7 STORM DRAINAGE PLAN
- C4 OF 7 STORM DRAINAGE PROFILE
- C5 OF 7 NOTES & DETAILS
- C6 OF 7 NOTES & DETAILS
- C7 OF 7 TREE RETENTION PLAN

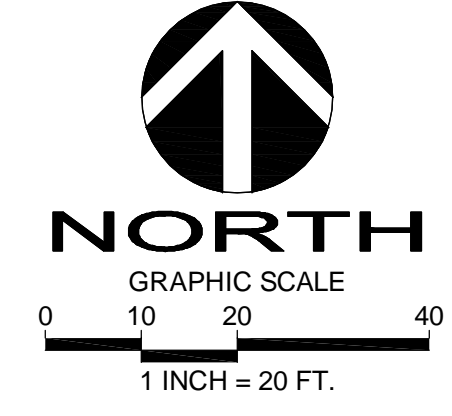
PROJECT CONTACTS:

OWNER: HOA HOANG
 7929 E MERCER WAY
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 HOAHOANG1@GMAIL.COM

ARCHITECT: WARMMODERN LIVING
 FOR LINDAL CEDAR HOMES
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 SEATTLE, WASHINGTON 98188
 206.725.0900
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 TANYA@WARMMODERNLIVING.COM

CIVIL ENGINEER: D.R. STRONG CONSULTING ENGINEERS, INC.
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SURVEYOR: HANSEN SURVEYING & CONSULTING
 4227 S. MERIDIAN, SUITE C-445
 PUYALLUP, WASHINGTON 98373
 425.235.8440
 CONTACT: CHRIS FOX



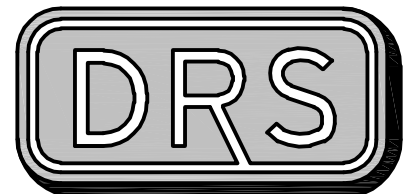
Call 2 Working Days Before You Dig
811
 Utilities Underground Location Center
 (ID.MT.ND.OR.WA)

DATE	REVISION	CITY COMMENTS	CITY COMMENTS
11.20.23			
3.28.24			

DRAFTED BY: RMF
 DESIGNED BY: RMF
 PROJECT ENGINEER: YLP
 DATE: 12.29.22
 PROJECT NO.: 21125

DRAWING: C1
 SHEET: 1 OF 7

SW 1/4 SECTION 30, TOWNSHIP 24 N, RANGE 4 E, W.M.
7929 E. MERCER WAY



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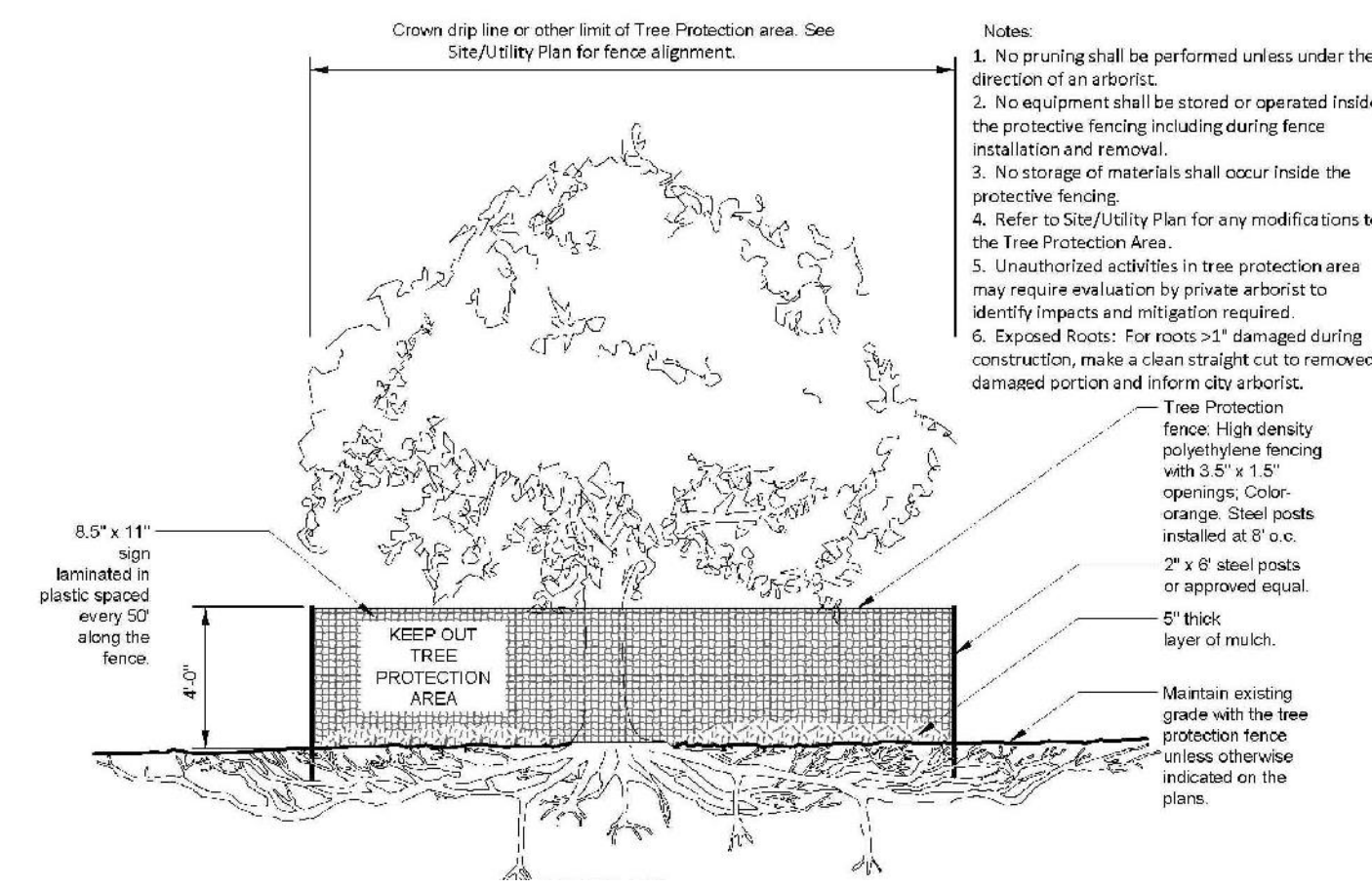
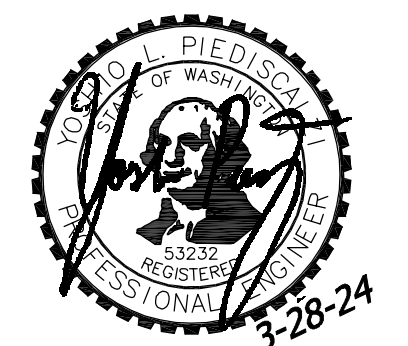
7929 EAST MERCER WAY
MERCER ISLAND RESIDENCE

TESC DETAILS

PARCEL NO. 3024059176
 7929 EAST MERCER WAY
 MERCER ISLAND, WA 98040

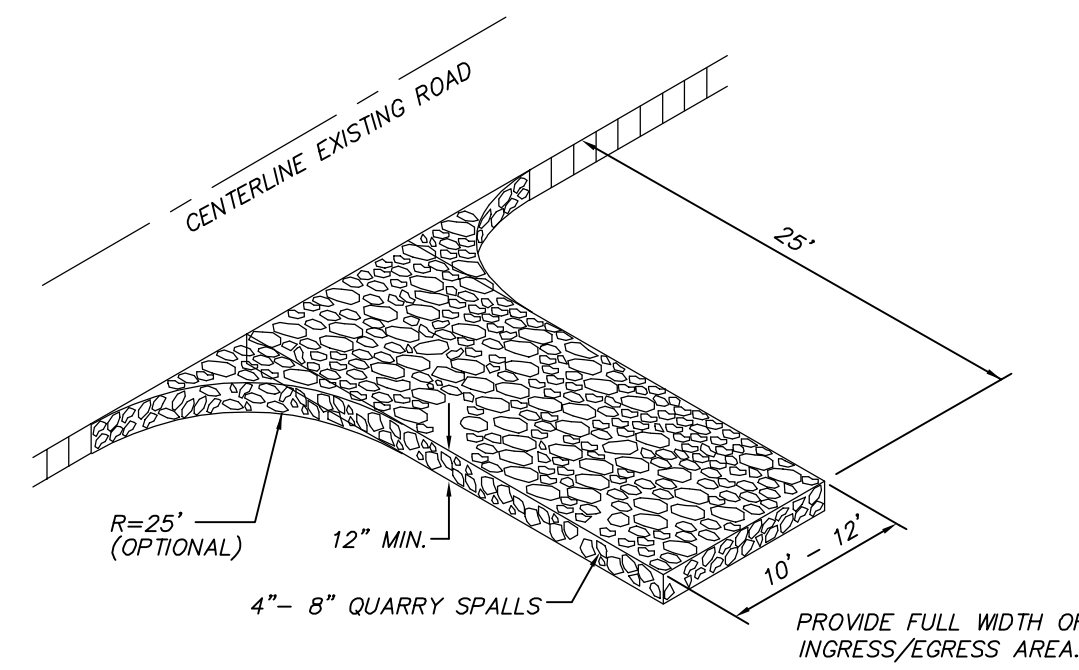
HOA HOANG

7929 E MERCER WAY
 MERCER ISLAND WA 98040



TREE PROTECTION FENCING

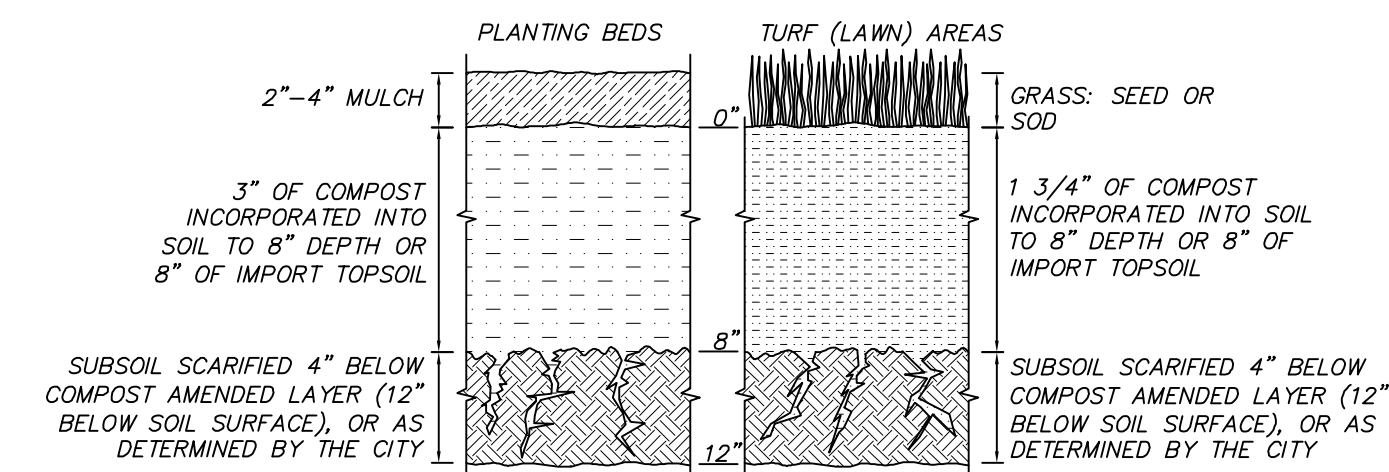
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DRIVEWAYS SHALL BE PAVED TO THE EDGE OF R-0-W PRIOR TO INSTALLATION OF THE CONSTRUCTION ENTRANCE TO AVOID DAMAGING OF THE ROADWAY
 IT IS RECOMMENDED THAT THE ENTRANCE BE CROWNED SO THAT RUNOFF DRAINS OFF THE PAD

GRAVEL CONSTRUCTION ENTRANCE

NTS



SOIL AMENDMENT
 PER BMP TS.13

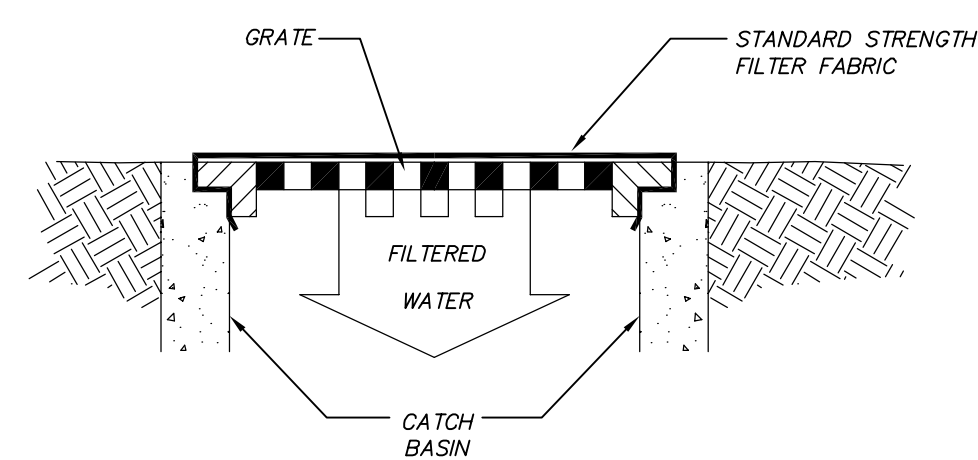
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EROSION AND SEDIMENT CONTROL NOTES:

- APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD. THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE TESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G. SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ALL DISTURBED AREAS SHALL BE STABILIZED USING TYPICAL TESC BMP'S. THE LIMITS OF DISTURBANCE WILL BE DELINEATED WITH HIGH VISIBILITY CONSTRUCTION FENCING. DURING CONSTRUCTION SILT FENCES WILL BE PLACED DOWN SLOPE OF DISTURBED AREAS ALONG WITH STRAW MATTING, NETS, OR PLASTIC COVERING OVER EXPOSED SOIL OR STOCKPILES. TREES TO BE RETAINED WILL BE PROTECTED WITH HIGH VISIBILITY CONSTRUCTION FENCING.
- ALL SOIL STOCKPILES TO BE COVERED WITH PLASTIC SHEETING UNTIL SUCH TIME THAT THE SOIL IS EITHER USED OR REMOVED. PILES SHOULD BE SITUATED AND LOCATED SUCH THAT SEDIMENT DOES NOT RUN INTO THE STREET OR ONTO ADJOINING PROPERTIES.
- ALL EXPOSED SOIL AREAS SHALL BE COVERED OR PROTECTED USING AN APPROPRIATE BMP. STABILIZE DENUDED AREAS OF THE SITE BY MULCHING, SEEDING, PLANTING, OR SODDING.
- ALL ADJACENT PROPERTIES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION BY APPROPRIATE USE OF VEGETATION BUFFER STRIPS, SEDIMENT BARRIERS, OR FILTERS, DIKES, MULCHING, OR BY A COMBINATION OF THESE MEASURES AND OTHER APPROPRIATE BMP'S.
- PROVIDE FOR PERIODIC STREET CLEANING TO REMOVE ANY SEDIMENT THAT MAY HAVE BEEN TRACKED OFF-SITE. SEDIMENT SHOULD BE REMOVED BY SHOVELING OR SWEEPING AND CAREFULLY REMOVED TO A SUITABLE DISPOSAL AREA WHERE IT WILL NOT BE RE-ERODED.
- ALL INSTALLED EROSION AND SEDIMENT CONTROL BMP'S SHALL BE INSPECTED REGULARLY BY THE GENERAL CONTRACTOR ESPECIALLY AFTER ANY LARGE STORM. MAINTENANCE, INCLUDING REMOVAL AND PROPER DISPOSAL OF SEDIMENT SHOULD BE A NECESSARY TO INSURE THAT SEDIMENT AND EROSION IS CONTROLLED ON SITE.

SOIL AMENDMENT NOTES

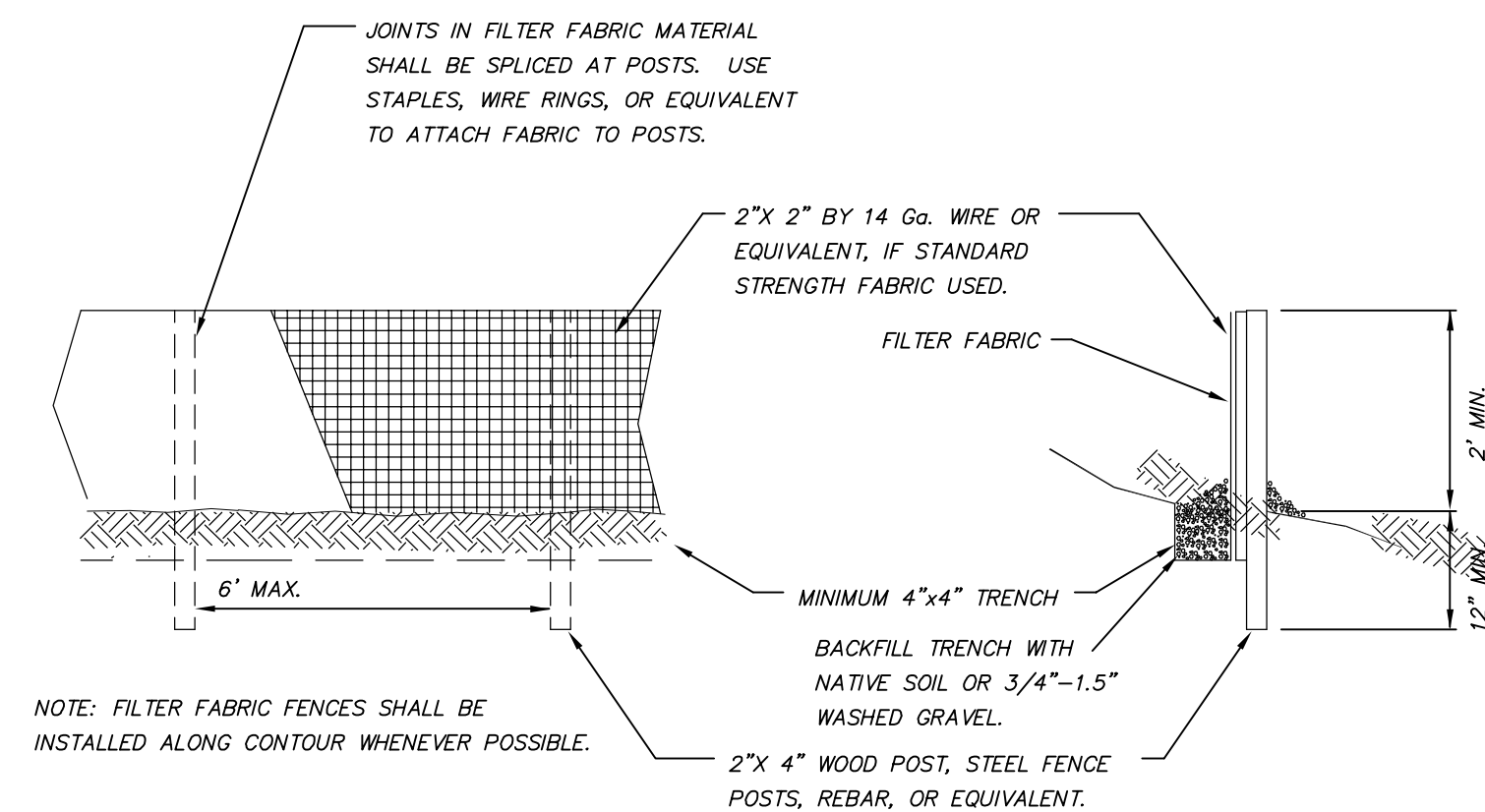
- SOIL RETENTION:** RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.
- SOIL QUALITY:** ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:
- A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
 - MULCH PLANTING BEDS WITH 2-4 INCHES OF ORGANIC MATERIAL.
 - USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
 - THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIORETENTION (BMP 17.30), WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
 - CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (A.) ABOVE, OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220-B, TESTING PARAMETERS, IN WAC 173-350-220. THE RESULTING SOIL SHOULD BE CONDUCTIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.
- IMPLEMENTATION OPTIONS: THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:
- LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
 - AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE-APPROVED" RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT.
 - STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
 - IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS.
- MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.
- MAINTENANCE:**
- ESTABLISH SOIL QUALITY AND DEPTH TOWARD THE END OF CONSTRUCTION AND ONCE ESTABLISHED, PROTECT FROM COMPACTION, SUCH AS FROM LARGE MACHINERY USE, AND FROM EROSION.
 - PLANT VEGETATION AND MULCH THE AMENDED SOIL AREA AFTER INSTALLATION.
 - LEAVE PLANT DEBRIS OR ITS EQUIVALENT ON THE SOIL SURFACE TO REPLENISH ORGANIC MATTER.
 - REDUCE AND ADJUST, WHERE POSSIBLE, THE USE OF IRRIGATION, FERTILIZERS, HERBICIDES AND PESTICIDES, RATHER THAN CONTINUING TO IMPLEMENT FORMERLY ESTABLISHED PRACTICES.



NOTE: ONLY TO BE USED WHERE PONDING OF WATER ABOVE THE CATCH BASIN WILL NOT CAUSE TRAFFIC PROBLEMS AND WHERE OVERFLOW WILL NOT RESULT IN EROSION OF SLOPES.

CATCH BASIN INLET FILTER

NTS



NOTE: FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.

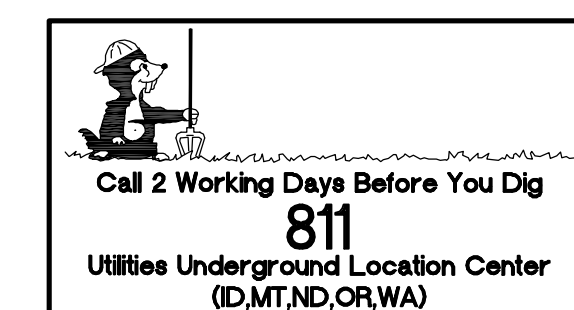
SILT FENCE DETAIL

NTS

CATCH BASIN INSERT MAINTENANCE STANDARDS

- ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC PROTECTION SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED WITH WATER, AND ALL SEDIMENT MUST BE DISPOSED OF AS FILL ON SITE OR HAULED OFF SITE.
- ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY.
- REGULAR MAINTENANCE IS CRITICAL FOR BOTH FORMS OF CATCH BASIN PROTECTION. UNLIKE MANY FORMS OF PROTECTION THAT FAIL GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.

- ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
- IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
- IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
- SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6 INCHES HIGH.
- IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

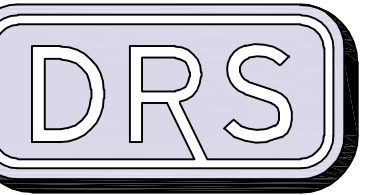


DRAFTED BY: RMF
 DESIGNED BY: RMF
 PROJECT ENGINEER: YLP
 DATE: 12.29.22
 PROJECT NO.: 21125

DRAWING: C2
 SHEET: 2 OF 7

DATE	REVISION	CITY COMMENTS	YLP	YLP
11.20.23				
3.28.24				

7929 E. MERCER WAY



D.R. STRONG
CONSULTING ENGINEERS
ENGINEERS PLANNERS SURVEYORS

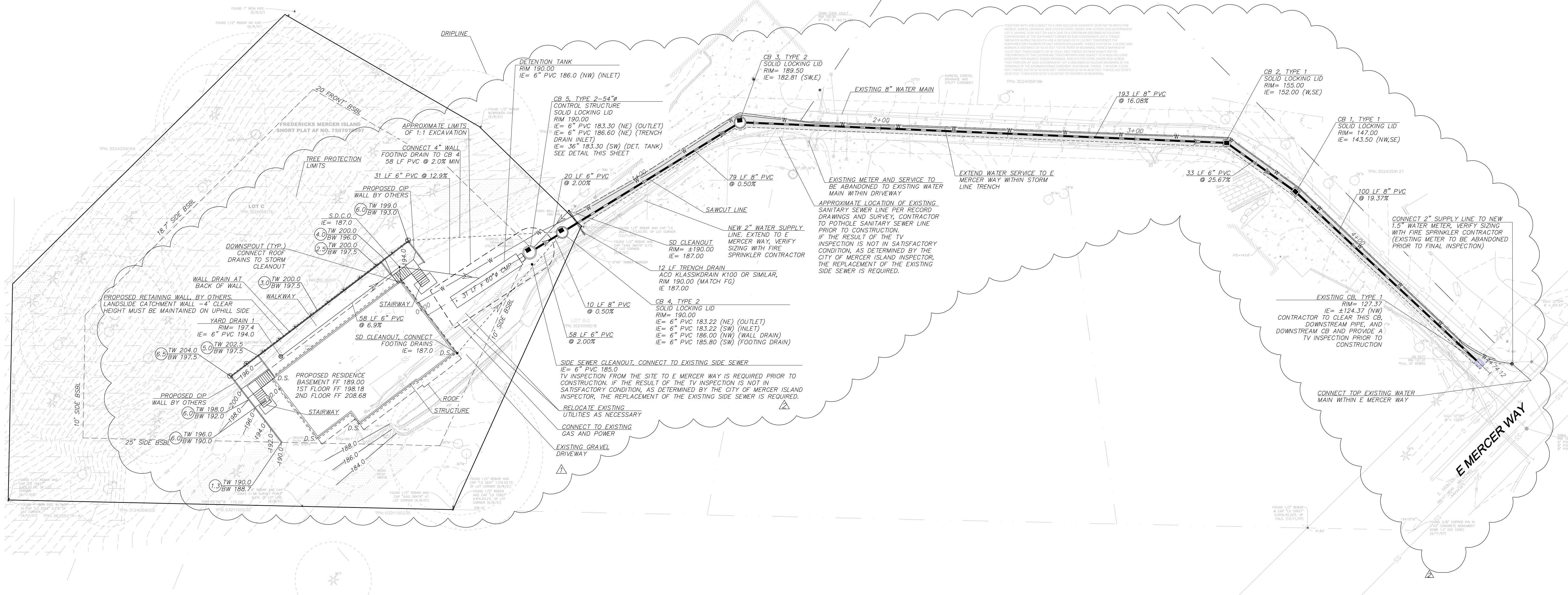
620 - 7th AVENUE KIRKLAND, WA 98033
O 425.827.3065 F 425.827.2423

7929 EAST MERCER WAY
MERCER ISLAND RESIDENCE

STORM DRAINAGE PLAN
PARCEL NO. 3024059176
7929 EAST MERCER WAY
MERCER ISLAND, WA 98040

HOA HOANG

7929 E MERCER WAY
MERCER ISLAND WA 98040



RESTRICTOR CATCH BASIN NOTES:

- USE A MINIMUM OF A 72 IN. DIAM. TYPE 2 CATCH BASIN WHEN CONNECTING PIPE MATERIAL IS CONCRETE OR LCP. A 54 IN. DIAM. TYPE 2 CATCH BASIN MAY BE USED FOR OTHER CIRCULAR SINGLE WALL PIPE (SUCH AS CORRUGATED ALUMINUM PIPE).
- OUTLET PIPE: MIN. 6 INCH.
- METAL PARTS: CORROSION RESISTANT NON-GALVANIZED PARTS PREFERRED. GALVANIZED PIPE PARTS TO HAVE ASPHALT TREATMENT 1.
- FRAME AND LADDER OR STEPS OFFSET 50.
 - CLEANOUT GATE IS VISIBLE FROM TOP.
 - CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE.
 - FRAME IS CLEAR OF CURB.
- IF METAL OUTLET PIPE CONNECTS TO CEMENT CONCRETE PIPE, OUTLET PIPE TO HAVE SMOOTH O.D. EQUAL TO CONCRETE PIPE I.D. LESS 1/4 IN.
- PROVIDE AT LEAST ONE 3 X 0.090 GAUGE SUPPORT BRACKET ANCHORED TO CONCRETE WALL WITH 5/8 IN. STAINLESS STEEL EXPANSION BOLTS OR EMBEDDED SUPPORTS 2 IN. INTO CATCH BASIN WALL (MAXIMUM 3"-0" VERTICAL SPACING).
- THE SHEAR GATE SHALL BE MADE OF ALUMINUM ALLOY IN ACCORDANCE WITH ASTM B 208 AND ASTM B 275, DESIGNATION 2032A, OR CAST IRON IN ACCORDANCE WITH ASTM A 48, CLASS 30B. THE LIFT HANDLE SHALL BE MADE OF SIMILAR METAL TO THE GATE (TO PREVENT GALVANIC CORROSION). IT MAY BE SOLID ROD OR HOLLOW TUBING, WITH ADJUSTABLE HOOK AS REQUIRED. A NEOPRENE RUBBER GASKET IS REQUIRED BETWEEN THE RISER MOUNTING FLANGE AND THE GATE FLANGE. INSTALL THE GATE SO THAT THE LEVEL-LINE MARK IS LEVEL WHEN THE GATE IS CLOSED. THE MATING SURFACES OF THE LID AND THE BODY SHALL BE MACHINED FOR PROPER FIT. ALL SHEAR GATE BOLTS SHALL BE STAINLESS STEEL.
- THE UPPER CATCH BASIN IS REQUIRED IF THE LENGTH OF THE DETENTION PIPE IS GREATER THAN 50 FEET.

STANDARD DETENTION SYSTEM NOTES:

- CALL DEVELOPMENT SERVICES (206-275-7605) 24 HOURS IN ADVANCE FOR A DETENTION SYSTEM INSPECTION BEFORE BACKFILLING AND FOR FINAL INSPECTIONS.
- RESPONSIBILITY FOR OPERATION AND MAINTENANCE OF DRAINAGE SYSTEMS ON PRIVATE PROPERTY IS RESPONSIBILITY OF THE PROPERTY OWNER. MATERIAL ACCUMULATED IN THE STORAGE PIPE MUST BE REMOVED FROM CATCH BASIN TO ALLOW PROPER OPERATION. THE OUTLET CONTROL ORIFICE MUST BE KEPT OPEN AT ALL TIMES.
- PIPE MATERIAL, JOINT, AND PROTECTIVE TREATMENT SHALL BE IN ACCORDANCE WITH SECTION 7.04 AND 9.05 OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, LATEST VERSION. SUCH MATERIALS INCLUDE THE FOLLOWING, LINED CORRUGATED POLYETHYLENE PIPE (LOPE), ALUMINIZED TYPE 2 CORRUGATED STEEL PIPE AND PIPE ARCH (MEETS AASHTO DESIGNATIONS M274 AND M36). CORRUGATED OR SPIRAL RIB ALUMINUM PIPE, OR REINFORCED CONCRETE PIPE, CORRUGATED STEEL PIPE IS NOT ALLOWED.
- FOOTING DRAINS SHALL NOT BE CONNECTED TO THE DETENTION SYSTEM.

STORMWATER CALCULATION AREAS NOTE:

LOT AREA: 30,583 S.F. (±0.771 ACRES)
PROJECT AREA: 10,673 S.F. (0.245 ACRES)

EX IMPERVIOUS AREAS ON LOT:
DRIVEWAY 3,226 S.F.
ROOF AREA 1,071 S.F.
COVERED PATIOS 472 S.F.
TOTAL EX. 4,769 S.F.

EX DRIVEWAY TO REMAIN: 828 S.F.

NEW & REPLACED IMPERVIOUS AREAS ON LOT:
DRIVEWAY 1,604 S.F.
WALKS 639 S.F.
ROOF AREA 2,609 S.F.
TOTAL PROP. 4,852 S.F.

NEW/REPLACED P.G.I.S. 1,604 S.F.

GENERAL NOTES:

- SITE PLAN AS PROVIDED BY ARCHITECT ON SEPTEMBER 13, 2022.
- GRADING PLAN AS PROVIDED BY ARCHITECT AND SHOWN HERE FOR REFERENCE.
- CONTRACTOR SHALL POT-HOLE LOCATION OF EXISTING UTILITIES TO BE RECONNECTED PRIOR TO BEGINNING OF CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS.
- EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES SHOWN, OR NOT SHOWN IN THEIR PROPER LOCATION.
- ALWAYS CALL 811 BEFORE YOU DIG.

LAWN AND LANDSCAPE AREA NOTE:

THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST-CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE WITH BMP 75.13. THE PROJECT CIVIL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE APPROVED PLAN SET PRIOR TO FINAL INSPECTION OF THE PROJECT.

WALL LEGEND:

- TW TOP OF WALL
BW BOTTOM OF WALL
EP EDGE OF PavEMENT
(E) EXISTING
(P) PROPOSED

BUILDING HEIGHT CALCS:

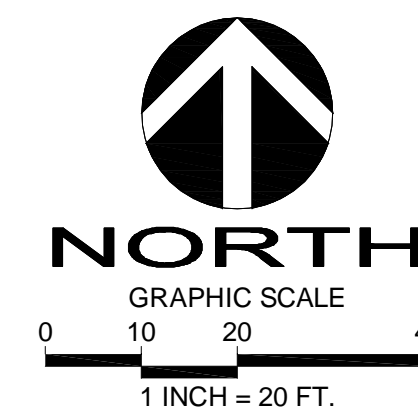
- AVERAGE BUILDING ELEVATION (ABE) #6000
- ALLOWABLE BUILDING HEIGHT (ABE+30) 221.03 FT
- PROPOSED BUILDING HEIGHT 220.13 FT
- BENCHMARK ELEVATION 191.14 FT
- DESCRIBE BENCHMARK LOCATION TBM 'A'
- SLOPING LOT-MAX HEIGHT OF TOP EXTERIOR WALL FACADE ABOVE LOWEST EXISTING GRADE (30'-FT MAX): 29'-8.75"

Table 1
ON-SITE DETENTION DESIGN FOR PROJECTS BETWEEN 500 SF AND 9,500 SF NEW PLUS REPLACED IMPERVIOUS SURFACE AREA

New and Replaced Impervious Surface Area (sf)	Detention Pipe Diameter (in)	Detention Pipe Length (ft)		Lowest Orifice Diameter (in) ⁽¹⁾		Distance from Outlet Invert to Second Orifice (ft)		Second Orifice Diameter (in)	
		B soils	C soils	B soils	C soils	B soils	C soils	B soils	C soils
500 to 1,000 sf	36"	30	22	0.5	0.5	2.2	2.0	0.5	0.8
	48"	18	11	0.5	0.5	3.3	3.2	0.9	0.8
	60"	11	7	0.5	0.5	4.2	3.4	0.5	0.6
1,001 to 2,000 sf	36"	66	43	0.5	0.5	2.2	2.3	0.9	1.4
	48"	34	23	0.5	0.5	3.2	3.3	0.9	1.2
	60"	22	14	0.5	0.5	4.3	3.6	0.9	0.9
2,001 to 3,000 sf	36"	90	66	0.5	0.5	2.2	2.4	0.9	1.9
	48"	48	36	0.5	0.5	3.1	2.8	0.9	1.5
	60"	30	20	0.5	0.5	4.2	3.7	0.9	1.1
3,001 to 4,000 sf	36"	120	78	0.5	0.5	2.4	2.2	1.4	1.6
	48"	62	42	0.5	0.5	2.8	2.9	0.8	1.3
	60"	42	26	0.5	0.5	3.8	3.9	0.9	1.3
4,001 to 5,000 sf	36"	134	91	0.5	0.5	2.8	2.2	1.7	1.5
	48"	73	49	0.5	0.5	3.6	2.9	1.6	1.5
	60"	46	31	0.5	0.5	4.6	3.5	1.6	1.3

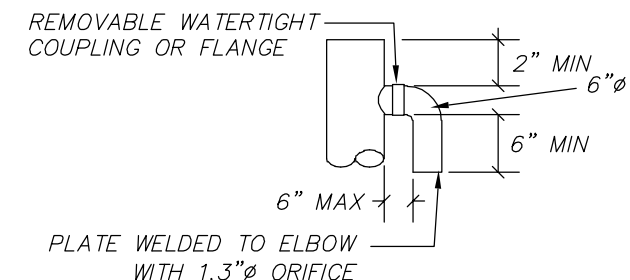
STORM DRAINAGE NOTES:

- ROOF DRAINS SHALL BE 6" PVC SDR 35 TIGHTLINE WITH A MINIMUM SLOPE OF 2.00%.
- FOOTING/WALL DRAINS SHALL BE 4" PERFORATED PVC WRAPPED IN FILTER FABRIC PER CITY STANDARDS.
- FOOTING/WALL DRAINAGE SYSTEMS AND ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED UNLESS SUCH CONNECTION IS MADE AT LEAST ONE FOOT BELOW THE FOOTING/WALL DRAINAGE SYSTEM AND DOWN SLOPE OF THE BUILDING FOUNDATION.
- USE SAND COLLARS AT CB CONNECTIONS TO PVC PIPE.
- PROVIDE TRAFFIC RATED GRATES IN ALL PARKING AREAS.
- PROVIDE SLEEVES THROUGH ALL WALLS/ROCKERIES.
- SEE ARCHITECTURAL PLAN SET FOR VEGETATED ROOF SPECIFICATIONS.
- ALL DRAIN LIDS SHALL HAVE DECORATIVE GRATE COVERS. IRON AGE OR EQUAL PER ARCHITECTURAL SPECIFICATION.

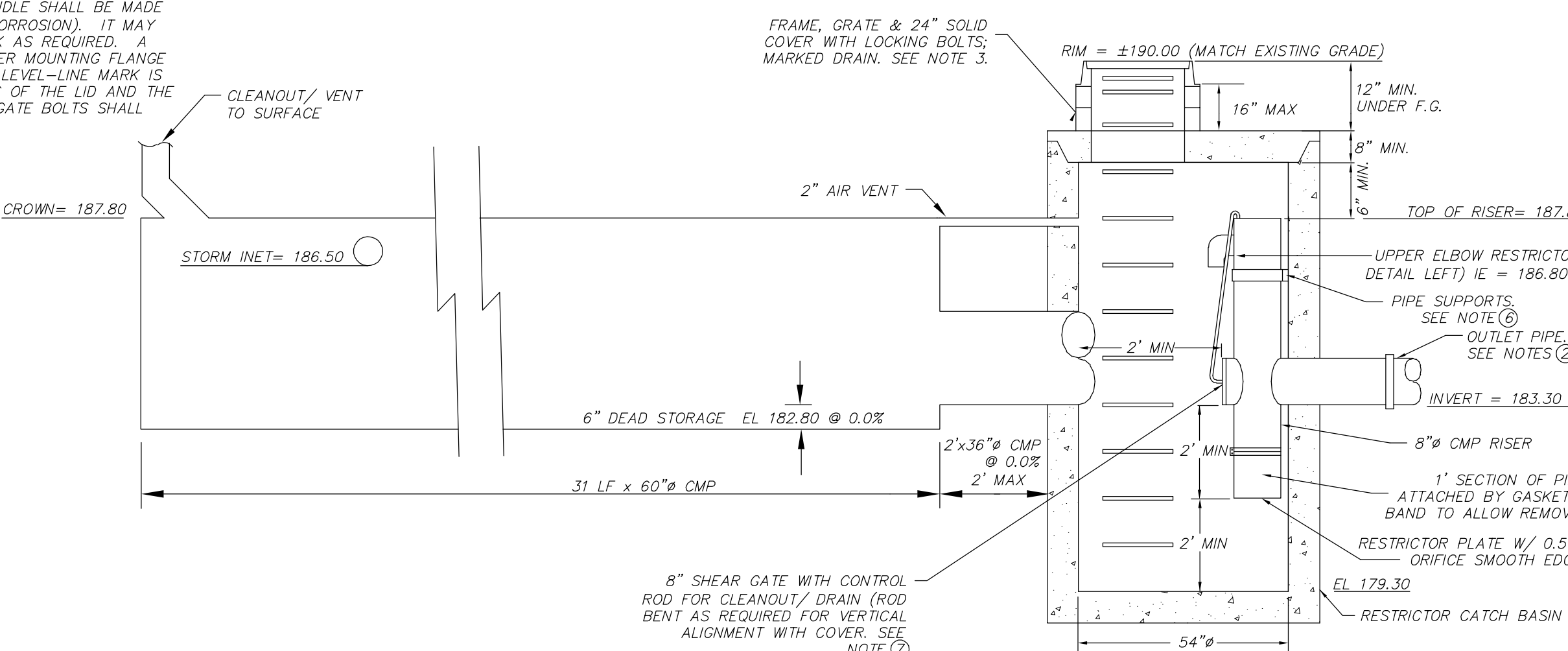


SHORING WALL NOTE:

- FOR THE LANDSCAPE CATCHMENT WALL - 4" CLEAR HEIGHT MUST BE MAINTAINED ON UPHILL SIDE



ELBOW RESTRICTOR DETAIL

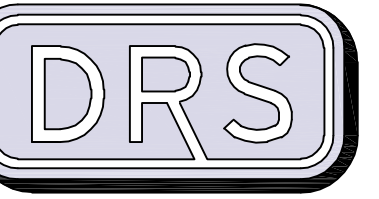


DETENTION TANK & RESTRICTOR CB

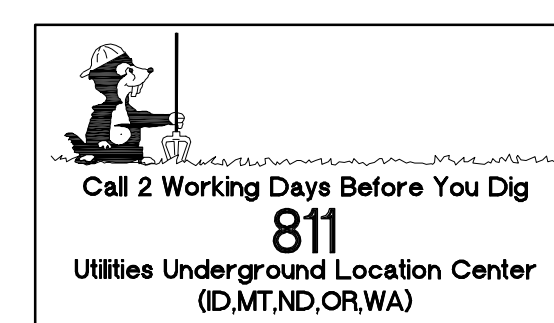
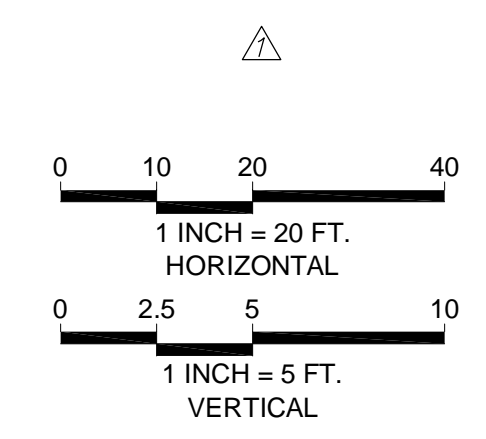
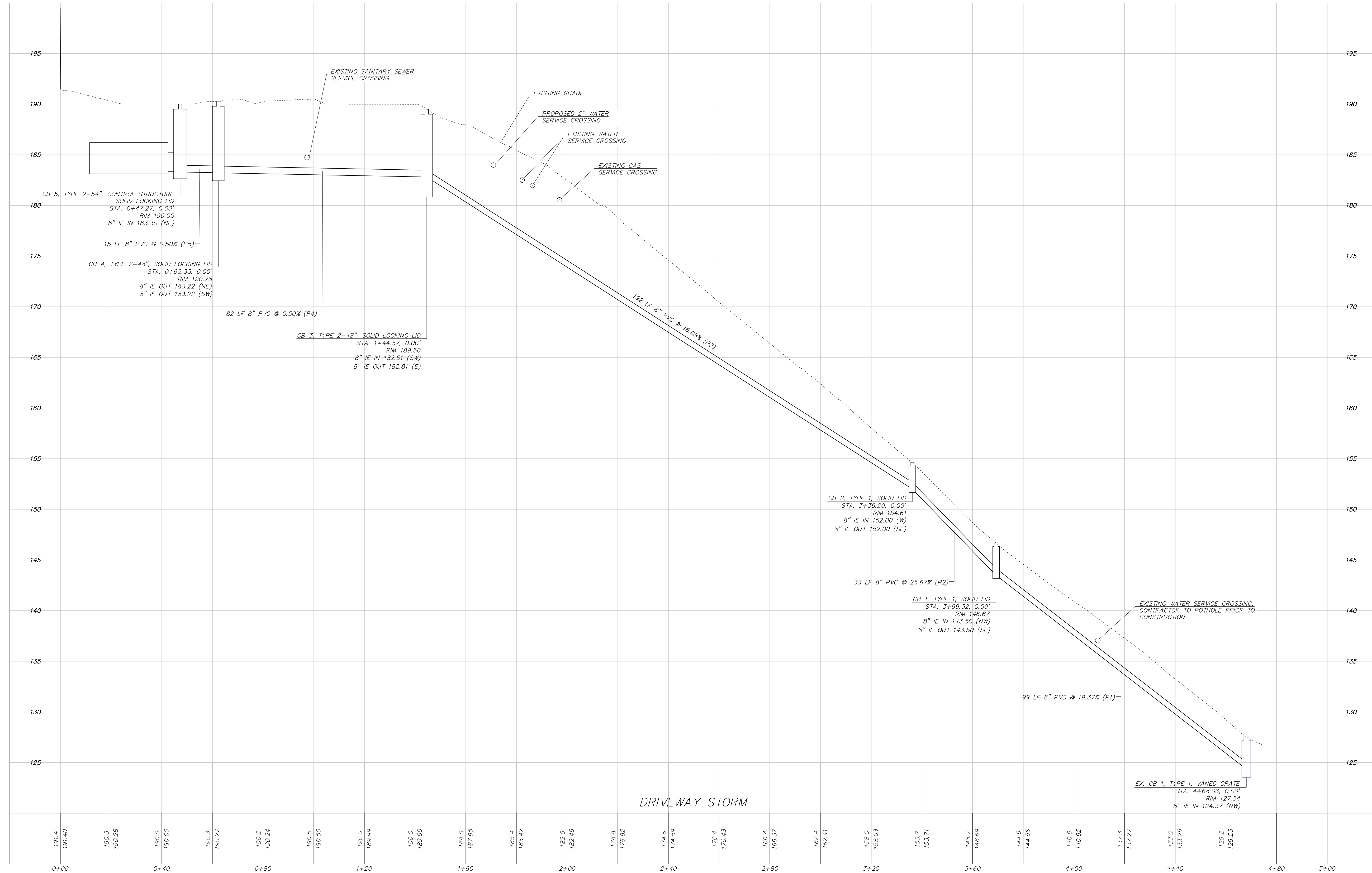
DRAFTED BY: RMF
DESIGNED BY: RMF
PROJECT ENGINEER: YLP
DATE: 12.29.22
PROJECT NO.: 21125

DRAWING: C3
SHEET: 3 OF 7

SW 1/4 SECTION 30, TOWNSHIP 24 N, RANGE 4 E, W.M.
7929 E. MERCER WAY



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7929 EAST MERCER WAY
MERCER ISLAND RESIDENCE

STORM DRAINAGE PROFILE

PARCEL NO. 3024059176
 7929 EAST MERCER WAY
 MERCER ISLAND, WA 98040

HOA HOANG

7929 E MERCER WAY
 MERCER ISLAND WA 98040



APR	YLP	YLP
REVISION	CITY COMMENTS	CITY COMMENTS
DATE	11.20.23	3.28.24

DRAFTED BY: RMF
 DESIGNED BY: RMF
 PROJECT ENGINEER: YLP
 DATE: 12.29.22
 PROJECT NO.: 21125

DRAWING: C4
 SHEET: 4 OF 7

SW 1/4 SECTION 30, TOWNSHIP 24 N, RANGE 4 E, W.M.
7929 E. MERCER WAY



**7929 EAST MERCER WAY
 MERCER ISLAND RESIDENCE**

NOTES & DETAILS

PARCEL NO. 3024059176
 7929 EAST MERCER WAY
 MERCER ISLAND, WA 98040

HOA HOANG

7929 E MERCER WAY
 MERCER ISLAND WA 98040

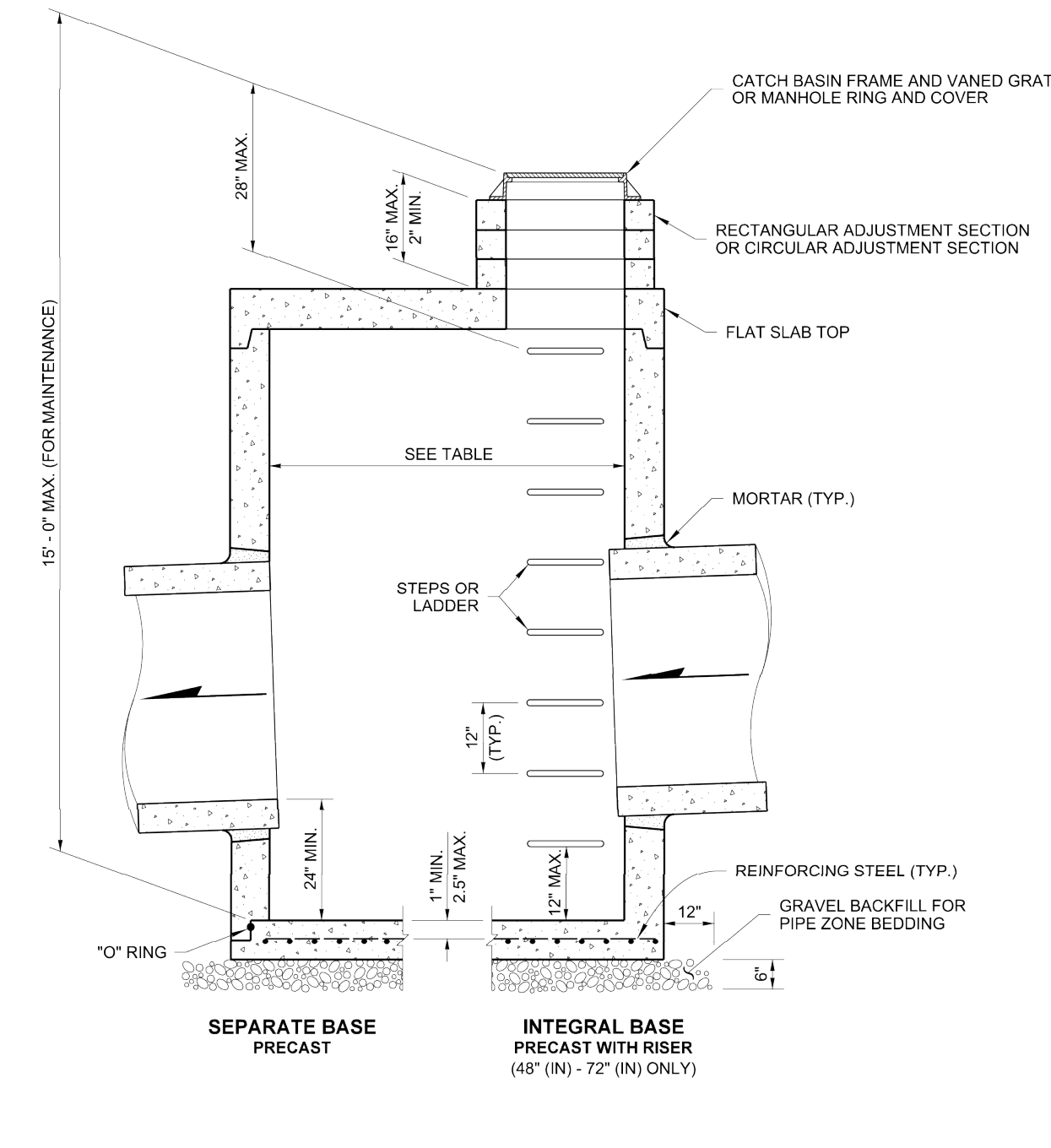


APR	YLP	YLP
REVISION	CITY COMMENTS	CITY COMMENTS
DATE	11.20.23	3.28.24

DRAFTED BY: RMF
 DESIGNED BY: RMF
 PROJECT ENGINEER: YLP
 DATE: 12.29.22
 PROJECT NO.: 21125

DRAWING: C5
 SHEET: 5 OF 7

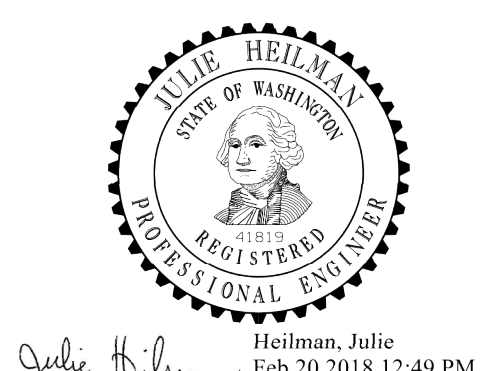
DRAWN BY: FERL LODELL



CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

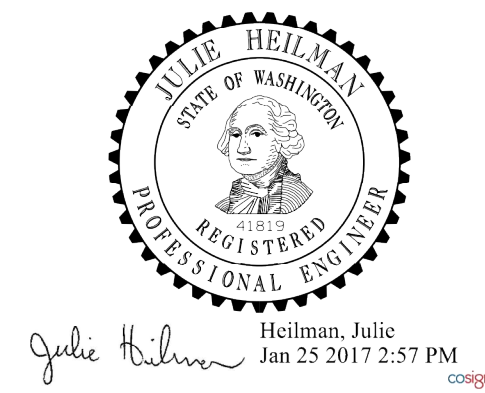
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSP PP (1)	SOLID WALL PVC (2)	PROFILE WALL PVC (3)
48"	24"	30"	24"	30"	30"
54"	30"	36"	30"	36"	36"
60"	36"	42"	36"	42"	42"
72"	42"	54"	42"	48"	48"
84"	54"	60"	54"	48"	48"
96"	60"	72"	60"	48"	48"
120"	66"	84"	60"	48"	48"
144"	78"	96"	60"	48"	48"

- Corrugated Polyethylene Storm Sewer Pipes (See Standard Specification Section 9-05.20)
- (See Standard Specification Section 9-05.12(1))
- (See Standard Specification Section 9-05.12(2))
- Polypropylene Pipe (See Standard Specification Section 9-05.24)



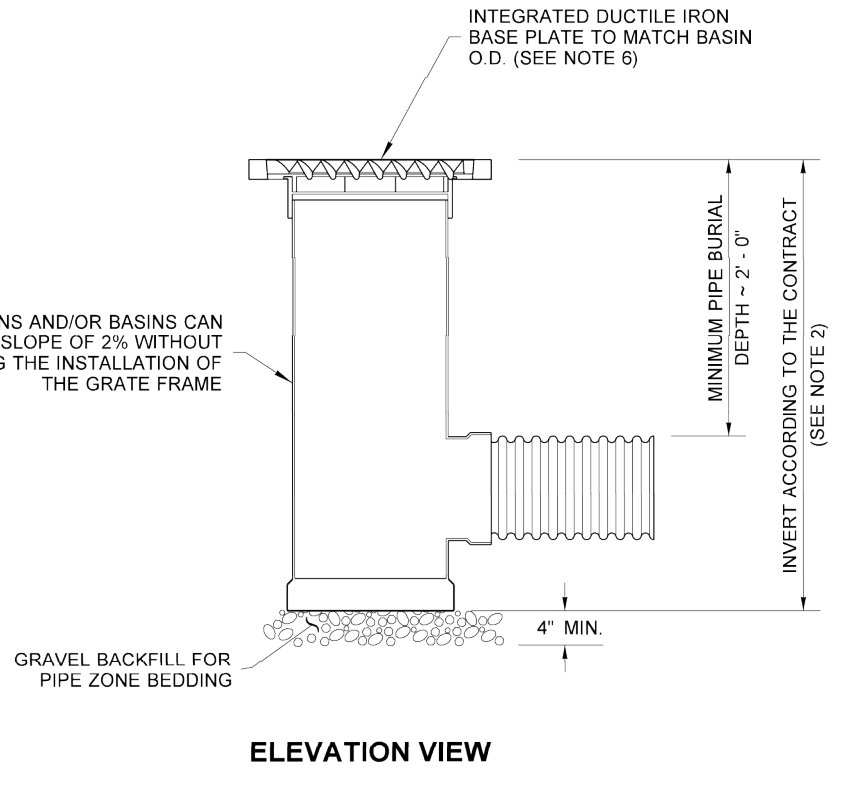
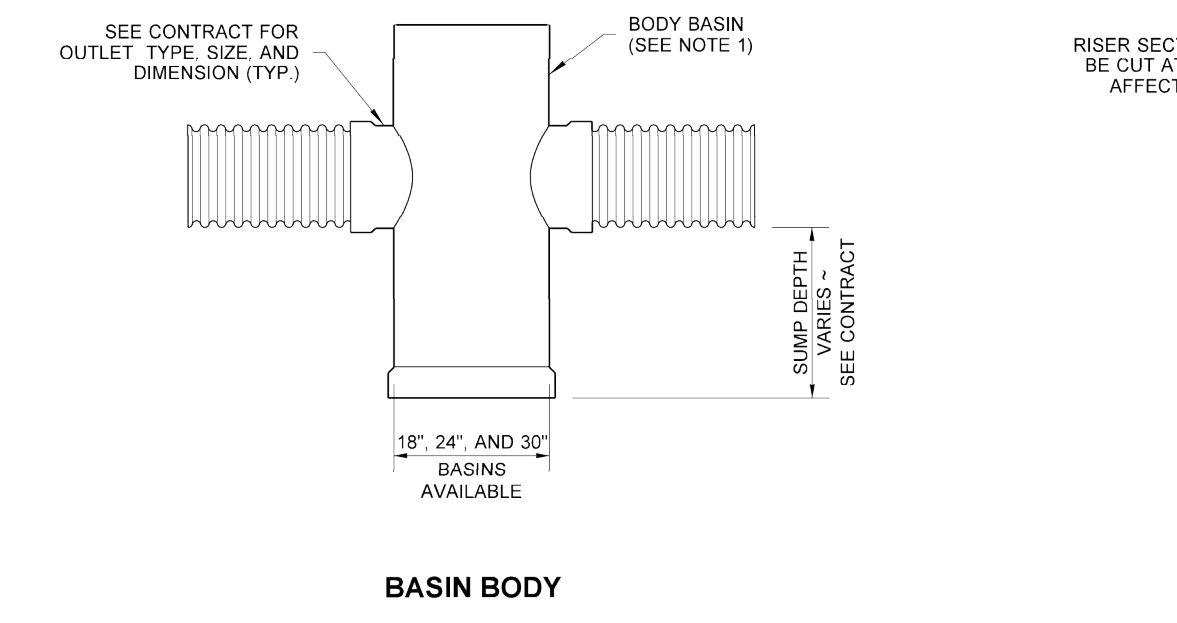
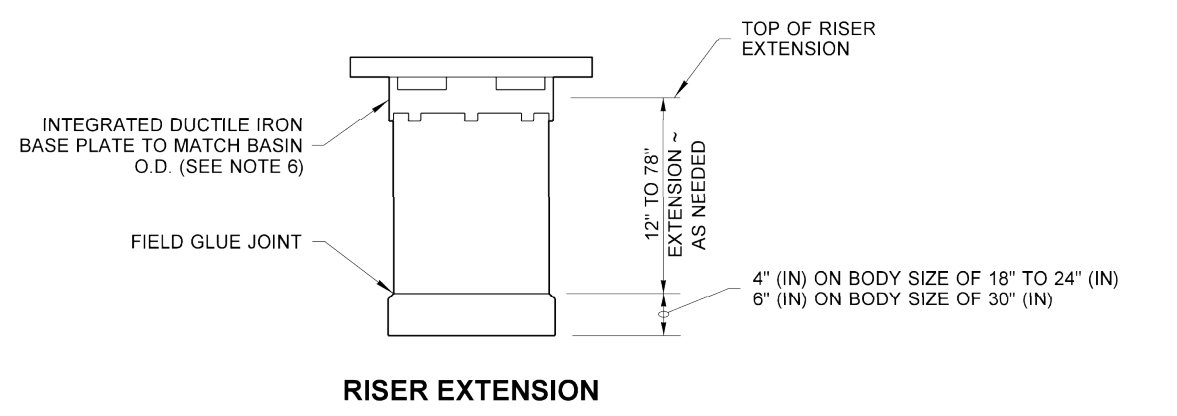
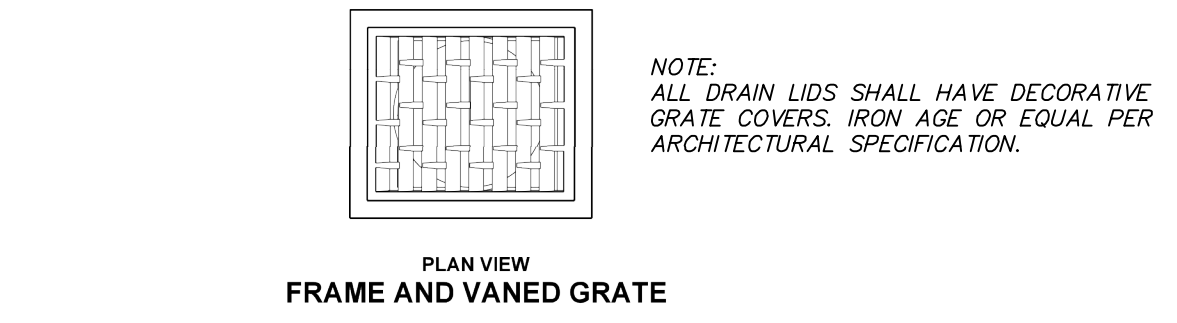
CATCH BASIN TYPE 2
 STANDARD PLAN B-10.20.02
 SHEET 1 OF 1 SHEET

- NOTES**
- Drain basin to be custom manufactured according to plan details. Risers are needed for basins over 84" (n) due to shipping restrictions. The maximum depth from finished grade to the lowest invert shall be 8' (ft).
 - Drainage connections shall utilize flexible elastomeric seals conforming to ASTM F477 and shall meet the requirements of ASTM D3212.
 - Risers can be trimmed down to 3" (n) extension without interfering with the installation of the frame.
 - These structures can be used for Type 1, Type 1L, and Type 2 structures. Usage for the Type 2 structures shall be limited to pipe size use only.
 - Basins shall be manufactured from PVC pipe stock meeting the requirements of ASTM D1784, cell classification 12454.
 - Ductile iron castings for PVC catch basins shall conform to the requirements of ASTM A536, grade 70-50-05, and shall meet the proof load testing requirements of AASHTO M 306.
 - Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (n) - 11 NC x 2" (n) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.

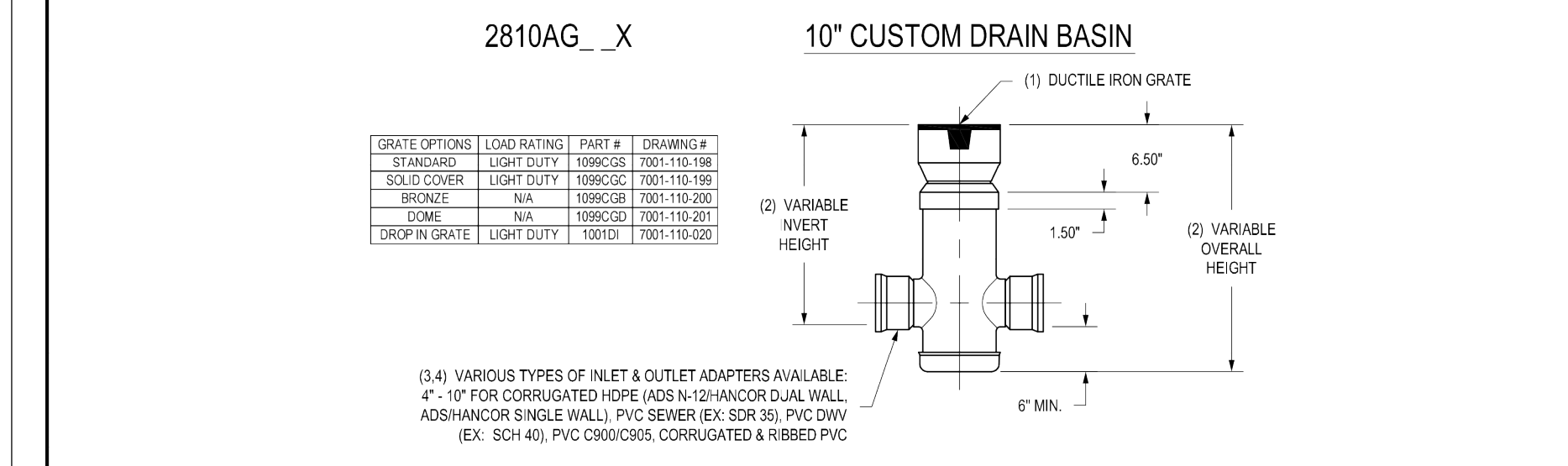
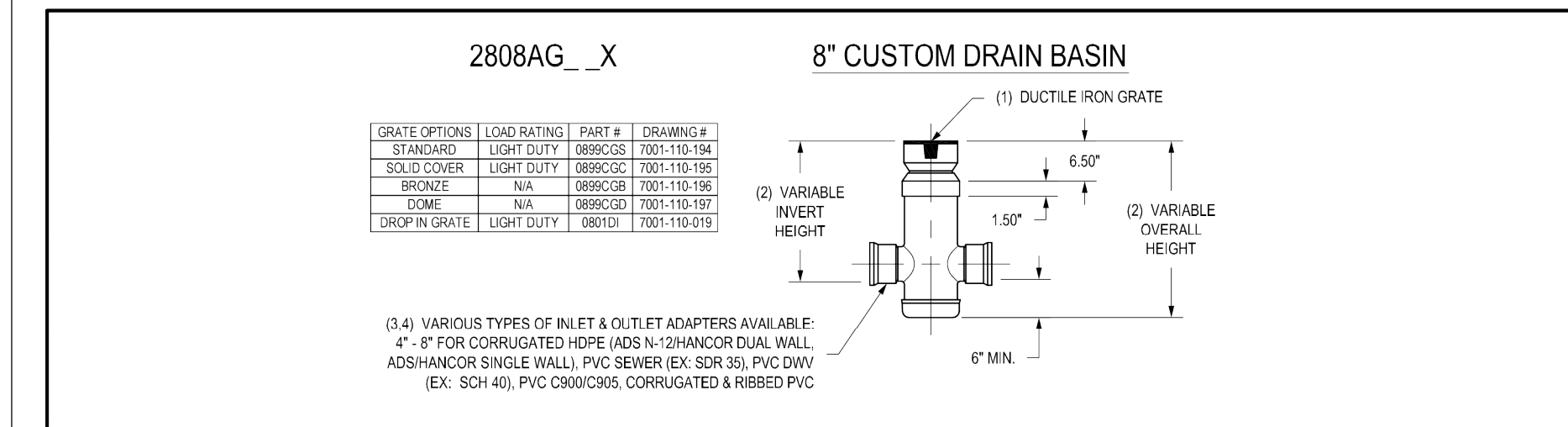


CATCH BASIN - PVC
 STANDARD PLAN B-10.70.00
 SHEET 1 OF 1 SHEET

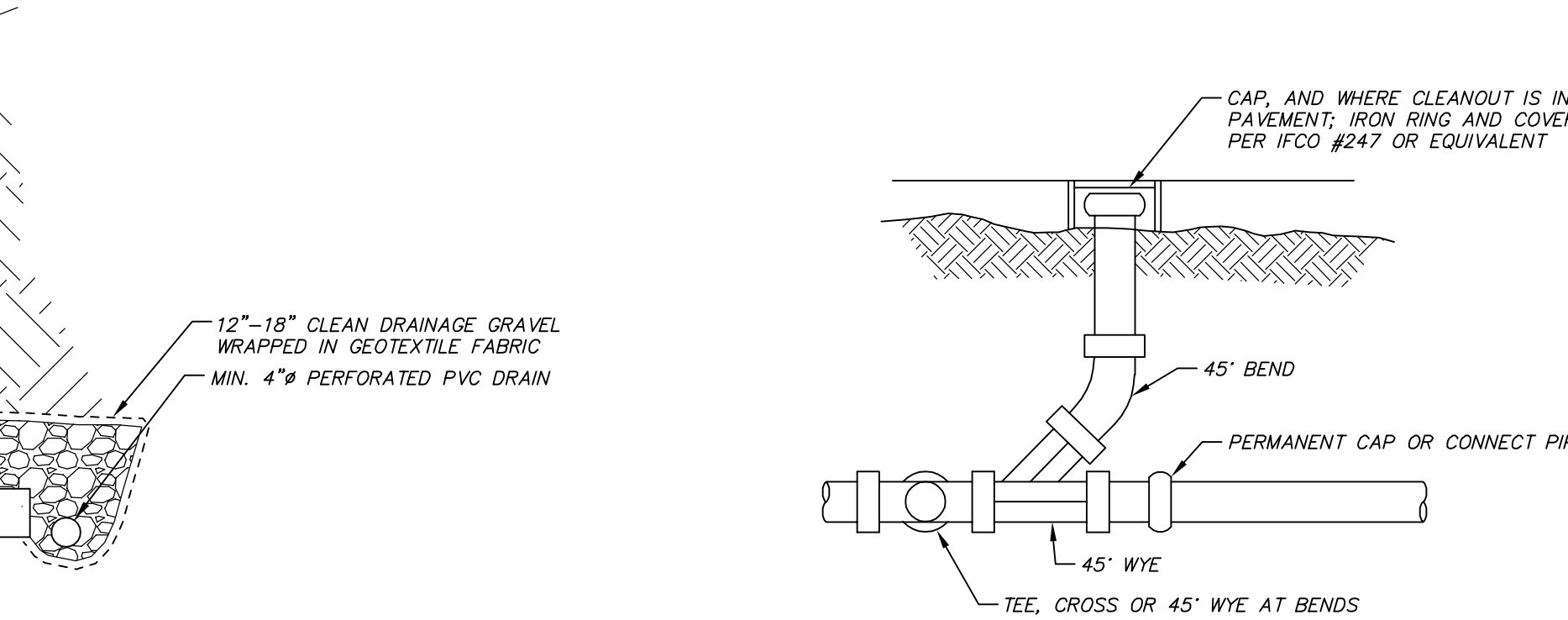
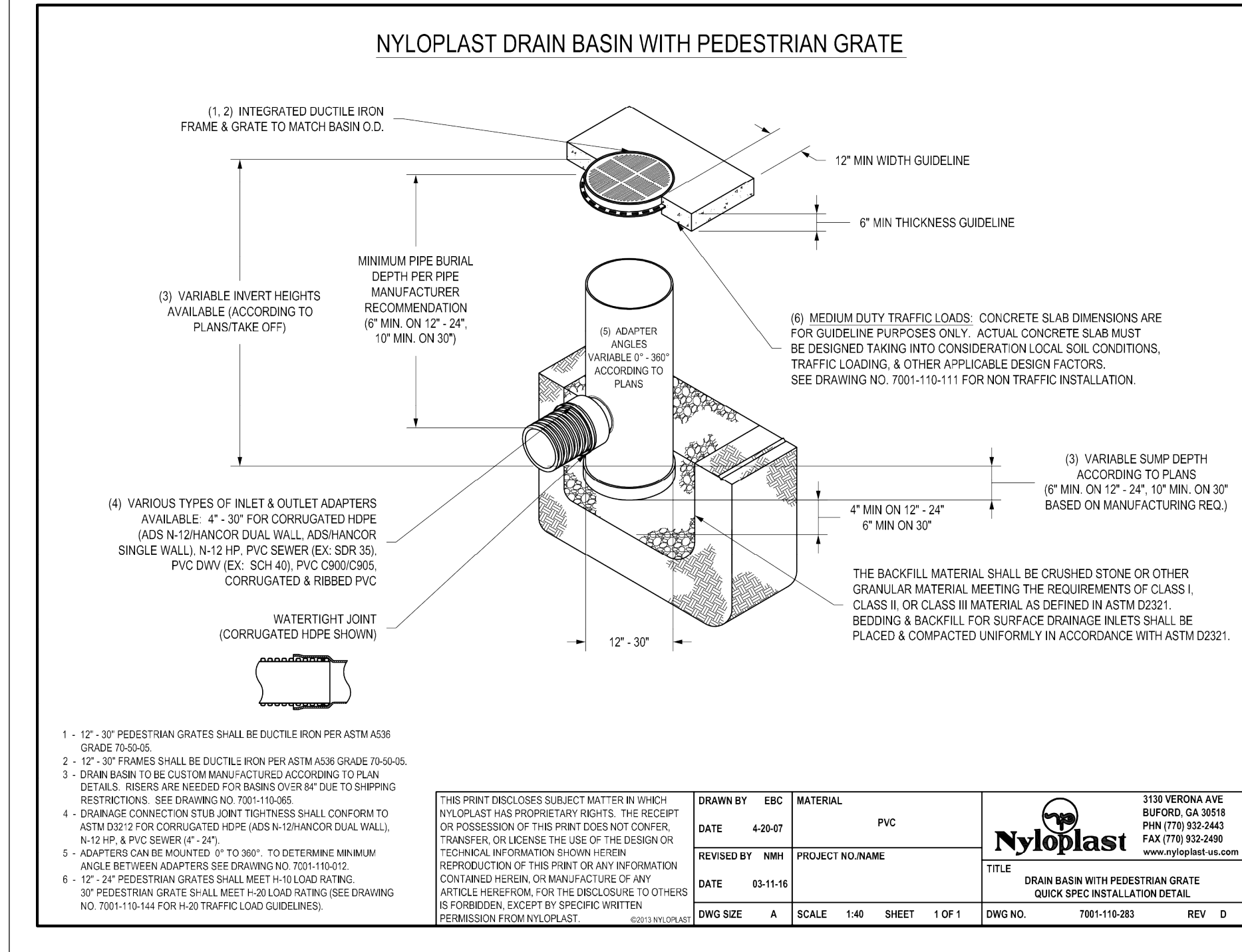
DRAWN BY: FERL LODELL



APPROVED FOR PUBLICATION
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

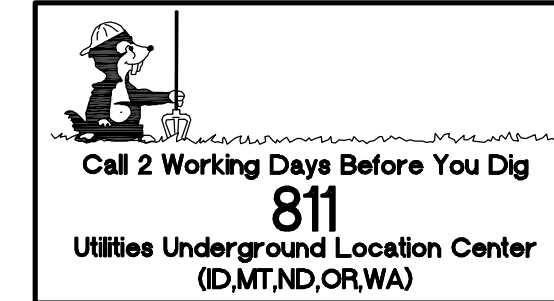


1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
 2 - CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" (N) DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-005.
 3 - DRAINAGE CONNECTION SUB-JOINT THICKNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HOPE ADS & HANCOR DUAL WALL & SDR 35 PVC.
 4 - STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0" & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE LOCATED IN ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
 5 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.



WALL DRAIN NOTES:

- GRADE DRAIN PIPE TO DIRECT WATER TO PROPOSED COLLECTION SYSTEM AS SHOWN ON PLAN SHEETS.
- FOOTING/WALL DRAINAGE SYSTEMS AND ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED UNLESS SUCH CONNECTION IS MADE AT LEAST ONE FOOT BELOW THE FOOTING/WALL DRAINAGE SYSTEM AND DOWN SLOPE OF THE FOOTING/WALL.



SW 1/4 SECTION 30, TOWNSHIP 24 N, RANGE 4 E, W.M.
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7929 EAST MERCER WAY
MERCER ISLAND RESIDENCE
 NOTES & DETAILS
 PARCEL NO. 3024059176
 7929 EAST MERCER WAY
 MERCER ISLAND, WA 98040

HOA HOANG
 7929 E MERCER WAY
 MERCER ISLAND WA 98040

NOTES

- ELBOWS SHALL NOT BE GREATER THAN 45 DEGREES.
- CLEAN OUT IS REQUIRED FOR EACH PIPE LENGTH GREATER THAN 100' AND FOR EACH 90° ACCUMULATED ELBOW/100'.
- RIGHT-OF-WAY RESTRICTIONS SHALL MATCH OR EXCEED THE ORIGINAL CONDITION AND BE IN ACCORDANCE WITH CITY STANDARDS.
- ALL TRENCH BACKFILL IN PUBLIC RIGHT-OF-WAY OR ROADWAY AREAS SHALL BE CRUSHED SURFACING PER WSDOT 9-09.2(C) OR BANK RUN GRAVEL PER WSDOT 9-03.19, COMPACTED IN 6" LIFTS OR MAY BE CDF WHEN DIRECTED BY THE CITY ENGINEER (SEE DETAIL S-3).
- LAY PIPE IN STRAIGHT LINE BETWEEN BENDS. MAKE ALL CHANGES IN GRADE OR LINE WITH 1/8" BEND OR WYE. 90° CHANGE WITH 1/8" BEND AND WYE.
- 6" SEWER PIPE MINIMUM SIZE IN RIGHT-OF-WAY, AND ELSEWHERE AS DIRECTED BY ENGINEER. 2% MIN. GRADE (UNLESS DIRECTED BY ENGINEER). SOX MAXIMUM.
- ALL A.C. WINGS TO BE TAPPED IN ACCORDANCE WITH WAC 296-82-00775 STATE/FEDERAL GUIDELINES AND CERTIFICATION.
- CONSTRUCTION IN RIGHT-OF-WAY MUST BE DONE BY A REGISTERED AND LICENSED CONTRACTOR.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT CITY SEWER ORDINANCES.
- WHERE CITY ENGINEER ALLOWS SIDE SEWER CONNECTIONS TO MANHOLE, INVERT OF SIDE SEWER SHALL BE EQUAL TO OR ABOVE MAIN SEWER CROWN, BUT NOT TO EXCEED 18" ABOVE INVERT OF MAIN SEWER.
- UNLESS OTHERWISE INDICATED ON PLAN, SIDE SEWER SHALL BE MIN. OF 6" DEEP AT PROPERTY LINE, OR 6" LOWER THAN THE LOWEST ELEVATION, WHICH EVER IS LOWER.
- ALL PIPE MATERIALS NOT TO STANDARDS WILL BE ABANDONED AND REPLACED WITH DUCTILE IRON OR PVC PIPE OF THE SAME SIZE.
- IF A BUILDING SEWER IS TO SERVE MORE THAN ONE PROPERTY, BY JOINT AGREEMENT OF THE OWNERS, AN APPROVED EASEMENT INSURING THAT ALL PROPERTIES INVOLVED SHALL HAVE PERPETUAL USE OF THE SIDE SEWER, HAVING PROVISIONS FOR OPERATION, MAINTENANCE, RECONSTRUCTION AND FOR ACCESS FOR REPAIR PURPOSES, SHALL BE SIGNED BY THE OWNERS. THIS EASEMENT SHALL BE RECORDED WITH THE COUNTY AUDITOR. A SIX INCH (MINIMUM) DIAMETER PIPE SHALL BE USED FOR THE COMMON LINE AND A SIX INCH (MINIMUM) DIAMETER PIPE SHALL BE USED FOR THE SHARED SIDE SEWER.
- ALL A.C. WINGS TO BE TAPPED IN ACCORDANCE WITH WAC 296-82-00775 STATE/FEDERAL GUIDELINES AND CERTIFICATION.
- THE CITY ENGINEER MAY REQUIRE BACKWATER VALVES ON SIDE SEWERS WHEN DEEMED NECESSARY. THE EFFECTIVE OPERATION AND MAINTENANCE OF ANY BACKWATER VALVE SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE SIDE SEWER.
- UTILITY PIPE TRACER TAPE SHALL BE DETECTABLE BELOW GROUND SURFACE. COLOR CODED, WITH UTILITY NAME PRINTED ON TAPE. CONDUCTIVE WARNING TAPE REQUIRED OVER ALL WATER PIPE. TAPE SHALL BE MANUFACTURER'S STANDARD PERMANENT, BRIGHT-COLORED, CONTINUOUS PRINTED PLASTIC TAPE, ALUMINUM BACKED, INTENDED FOR DIRECT-BURIAL SERVICE. TAPE SHALL BE NOT LESS THAN 6" WIDE X 4 MILS THICK.

REV DATE	NO SCALE	APPROVED
6-5-2009		S-17

NOTES

- ELBOWS SHALL NOT BE GREATER THAN 45 DEGREES.
- CLEAN OUT IS REQUIRED FOR EACH PIPE LENGTH GREATER THAN 100' AND FOR EACH 90° ACCUMULATED ELBOW/100'.
- ALL HOUSE PLUMBING OUTLETS MUST BE CONNECTED TO THE SEWER. NO DOWN SPOUTS OR STORM DRAINAGE MAY BE CONNECTED TO THE SEWER SYSTEM.
- 18" MINIMUM COVERAGE OVER PIPE.
- LAY PIPE IN STRAIGHT LINE BETWEEN BENDS. MAKE ALL CHANGES IN GRADE OR LINE WITH 1/8" BEND OR WYE. 90° CHANGE WITH 1/8" BEND AND WYE.
- 4" SEWER PIPE MINIMUM SIZE ON PROPERTY. 2% MINIMUM GRADE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT SEWER ORDINANCES.
- ALL CONSTRUCTION REQUIRES A PLAN SHOWING PROPERTY AND DIMENSIONS AND COMPLETION OF SIDE SEWER APPLICATION AND MAINTENANCE AGREEMENT, AS NEEDED.
- BACK WATER VALVE (CHECK VALVE) IS REQUIRED:
 - IF CONNECTED TO A SHARED SIDE SEWER.
 - IF CONNECTION AT HOUSE IS LOWER THAN BOTH UPSTREAM AND DOWNSTREAM MANHOLE.
 - SEE S-23 & S-24 FOR LAKE LINE REQUIREMENTS.
- AS-BUILT DRAWING SHOWING LOCATION OF SIDE SEWER & ALL BENDS, C.O. ETC. IN RELATION TO THE HOUSE IS REQUIRED AFTER INSPECTION & INSTALLATION. SEE STANDARD DETAIL S-38 FOR A TYPICAL "AS BUILT".
- THE MINIMUM PIPE SIZE FOR SIDE SEWERS SHALL BE:
 - 6" - WITHIN THE PUBLIC RIGHT-OF-WAY.
 - 4" - SINGLE FAMILY RESIDENCES.
 - 2" - 2 TO 6 SINGLE FAMILY RESIDENCES.
 - 6" - BUILDINGS OTHER THAN SINGLE FAMILY RESIDENCES.
- UTILITY PIPE TRACER TAPE SHALL BE DETECTABLE BELOW GROUND SURFACE, COLOR CODED, WITH UTILITY NAME PRINTED ON TAPE. CONDUCTIVE WARNING TAPE REQUIRED OVER ALL WATER PIPE. TAPE SHALL BE MANUFACTURER'S STANDARD PERMANENT, BRIGHT-COLORED, CONTINUOUS PRINTED PLASTIC TAPE, ALUMINUM BACKED, INTENDED FOR DIRECT-BURIAL SERVICE. TAPE SHALL BE NOT LESS THAN 6" WIDE X 4 MILS THICK.

REV DATE	NO SCALE	APPROVED
6-5-2009		S-18

NOTES

- SEE S-27 FOR INSTALLATION DETAILS.

REV DATE	NO SCALE	APPROVED
6-5-2009		S-19

NOTES

- PIPE ANCHORS TO BE USED ONLY AS APPROVED BY THE ENGINEER.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I.
- THE ROD ASSEMBLY SHALL BE COATED WITH ROYSTON ROSKOTE #6125M OR APPROVED EQUAL.

REV DATE	NO SCALE	APPROVED
6-5-2009		S-21

DISCONNECTION

WHEN ABANDONING A SIDE SEWER IT SHALL BE DISCONNECTED AT THE MAIN PRIOR TO REMOVAL OF BUILDING FOUNDATIONS. THE CONTRACTOR SHALL PLUG THE CONNECTION AT THE MAIN WITH A MECHANICAL PLUG AND NON-SHRINK GROUT. DISCONNECTIONS SHALL BE PERFORMED IN THE PRESENCE OF THE CITY'S UTILITY INSPECTOR. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT DRAWING DEPICTING THE DISCONNECTED SIDE SEWER UPON COMPLETION OF THE WORK.

RECONNECTION

WHEN RECONNECTING TO AN EXISTING SIDE SEWER, THE POINT OF RECONNECTION WILL BE DETERMINED BASED ON THE MAGNITUDE OF THE CONSTRUCTION ON THE PROPERTY.

- PARTIAL INTERIOR REMODEL AND/OR BUILDING ADDITION WITH NO ADDITIONAL PLUMBING FIXTURES - NO SIDE SEWER REPLACEMENT REQUIRED UNLESS A KNOWN PROBLEM EXISTS IN THE SIDE SEWER.
- PARTIAL INTERIOR REMODEL AND/OR BUILDING ADDITION WITH ADDITIONAL PLUMBING FIXTURES- ASSESS CONDITION OF EXISTING SIDE SEWER THROUGH VIDEO INSPECTION FROM BUILDING TO PROPERTY LINE AND REPLACE AS NEEDED.
- COMPLETE INTERIOR REMODEL - ASSESS CONDITION OF EXISTING SIDE SEWER THROUGH VIDEO INSPECTION FROM BUILDING TO SEWER MAIN AND REPLACE AS NEEDED. IF EXISTING SIDE SEWER IS ASBESTOS CEMENT OR CONCRETE, SIDE SEWER SHALL BE REPLACED FROM BUILDING TO PROPERTY LINE.
- COMPLETE INTERIOR REMODEL AND BUILDING ADDITION - NEW SIDE SEWER FROM BUILDING AT LEAST TO PROPERTY LINE.
- CONSTRUCTION OF A NEW BUILDING - NEW SIDE SEWER FROM BUILDING AT LEAST TO MAIN.*

BACK WATER VALVE INSTALLATION PER CITY ENGINEER, IF SCENARIO 2, 3, 4, OR 5 IS DIRECTLY ATTACHED TO THE LAKE LINE OR THE ELEVATION OF THE LOWEST DRAIN IN THE RESIDENCE IS LOWER THAN THE RIM ELEVATION OF THE UPSTREAM SEWER MANHOLE ON THE MAIN.

VIDEO INSPECTION OF THE EXISTING SIDE SEWER, BETWEEN THE PROPERTY LINE AND THE SEWER MAIN SHALL BE PERFORMED FOR SCENARIO NUMBER 4.

PROVIDE A COPY OF THE VIDEO DOCUMENTATION (VIDEO AND HARD COPY REPORT) TO THE CITY ENGINEER.

REPLACEMENT OR REPAIR OF THAT PORTION OF THE SIDE SEWER BETWEEN THE PROPERTY LINE AND THE SEWER MAIN, WILL BE DETERMINED BY THE CITY ENGINEER, BASED ON THE VIDEO INSPECTION.

*IF THE EXISTING SIDE SEWER IS PVC AND IS LESS THAN TEN YEARS OLD, THE SIDE SEWER DOES NOT HAVE TO BE REPLACED IF A VIDEO INSPECTION AND HYDROSTATIC PRESSURE TEST CONFIRMS THAT THE SIDE SEWER IS IN PROPER WORKING CONDITION. THESE TESTS SHALL BE PERFORMED AFTER ALL HEAVY EQUIPMENT THAT COULD DAMAGE THE SIDE SEWER IS OFF OF THE SITE.

REV DATE	NO SCALE	APPROVED
6-5-2009		S-22A

NOTES

- IF POSSIBLE, CLEANOUT TO BE LOCATED JUST ABOVE HYDRAULIC GRADIENT OF LAKE LINE. CLEANOUT SHOULD ALSO BE LOCATED TO PROVIDE EASY ACCESS FOR INSPECTION AND MAINTENANCE BY THE HOME OWNER.
- SEE S-23 & S-24 FOR BACK WATER VALVE LOCATION.

REV DATE	NO SCALE	APPROVED
6-5-2009		S-25

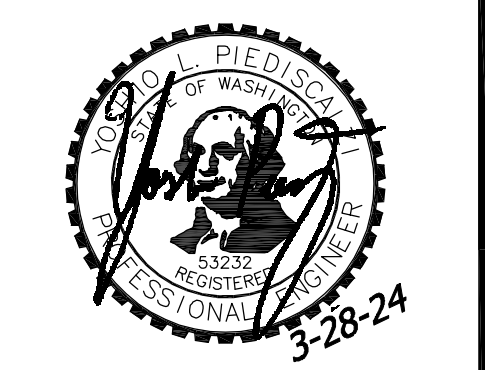
NOTES

- SEE S-23 & S-24 FOR BACK WATER VALVE LOCATION.

REV DATE	NO SCALE	APPROVED
6-5-2009		S-26

SIDE SEWER NOTES:

- FOUR-INCH (4") PIPE MUST BE LAID AT A MINIMUM 2% GRADE. SIX-INCH (6") PIPE MUST BE LAID AT A MINIMUM 1.2% GRADE.
- SIDE SEWERS MUST NOT BE CLOSER THAN 30" TO ANY FOUNDATION WALL OR OUTER LINE OF ANY FOOTINGS, PILING, OR BUILDING SUPPORTS. A CLEAN-OUT MUST BE INSTALLED AT THE CONNECTION, AND MUST BE 36" FROM THE FOUNDATION.
- MINIMUM COVER MUST BE 42" IN THE PUBLIC RIGHT-OF-WAY, 30" IN PRIVATE ROADWAYS AND UNDER DITCHES, AND 18" ON PRIVATE PROPERTY.
- SEWER MAINS MAY BE CORED OR A "T" INSTALLED IN THE MAIN LINE WHERE NO SEWER STUB EXISTS.
- SIDE SEWERS WHEN USING OPEN CUT CONSTRUCTION METHODS MUST BE BEDDED WITH IMPORTED MATERIAL TO 4" BELOW AND 6" ABOVE THE INSTALLED PIPE. THE BROAD, "BELL" ENDS OF PIPE MUST BE LAID UPHILL.
- IMPORTED BACKFILL MATERIAL WILL BE REQUIRED IN ALL PAVED AREAS AND MUST BE COMPACTED TO 95% OF MAXIMUM DENSITY IN 1 FT. LIFTS. IN PUBLIC RIGHT OF WAY, ONLY SELECT MATERIAL (5/8" MINUS C.R.) WILL BE ALLOWED FOR BEDDING AND BACKFILL.
- PARALLEL SEWER AND WATER SERVICE LINES MUST BE AT LEAST 4 FEET APART WHEN LAID HORIZONTALLY, AND AT LEAST 2 FEET APART WHEN LAID VERTICALLY, WITH THE SEWER THE DEEPER OF THE TWO LINES. IF THE LINES MUST CROSS, THEY MUST CROSS AT 90 DEGREES TO ONE ANOTHER AND HAVE AT LEAST 2 FEET OF VERTICAL CLEARANCE.
- ALL CHANGES IN DIRECTION MUST BE MADE WITH 1/8" BENDS (45 DEGREES), 1/16" BENDS (22 1/2 DEGREES), OR 7/8" BRANCHES WITH THE STRAIGHT-THROUGH OPENING PLUGGED FOR CLEAN-OUT. NO MORE THAN TWO BENDS ARE PERMITTED BETWEEN CLEAN-OUTS, WHICH MUST BE PLACED AT LEAST EVERY 100 FEET. CLEAN-OUTS MUST EXTEND TO WITHIN 12" OF THE FINISHED GRADE AND CAPPED WITH A WATER-TIGHT PLUG. CLEAN-OUTS IN PAVED AREAS, PATIOS, OR SIDEWALKS MUST HAVE CAST IRON FRAMES AND COVERS WITH LOCKING LIDS SET TO FINISHED PAVED GRADE.
- PIPE MATERIALS: ASTM 3034 SDR 35 PVC PIPE, FUSED SOLID WALL HOPE, SCHEDULE 40 ABS, DIP OR CIP (UP TO 8 FT. DEPTH), OVER 8 FT. DEPTH AND SLOPES MORE THAN 20% DIP, CIP, OR FUSED SOLID WALL HOPE ARE REQUIRED.
- BEDDING MATERIAL FOR OPEN CUT CONSTRUCTION MUST BE PEA GRAVEL, SAND, CONTROL DENSITY FILL (CDF), OR 5/8" MINUS C.R.
- SELECT BACKFILL MATERIAL SHALL BE 5/8" MINUS C.R. OR CONTROL DENSITY FILL (CDF).
- IMPORTED BACKFILL MATERIAL SHALL BE BANK RUN GRAVEL OR PIT RUN GRAVEL FROM AN APPROVED SUPPLIER MEETING APWA/WSDOT GRADATION SPECIFICATIONS. NOT ALLOWED IN RIGHT-OF-WAY.
- RUBBER GASKETS MUST BE USED WHEN APPROPRIATE.
- RIGID COUPLINGS MUST BE USED FOR CONNECTIONS TO EXISTING STUBS IN RIGHT-OF-WAY.
- A STAINLESS STEEL STRAP AND SADDLE (ROMAC) MUST BE USED FOR CORING.
- TESTING: THE RATE OF LEAKAGE MUST NOT EXCEED THE FOLLOWING AMOUNTS PER 100 FT. OF PIPE:
 - 4" PIPE 1.6 GAL/HR
 - 6" PIPE 2.4 GAL/HR
- INSPECTION IS REQUIRED PRIOR TO BACKFILLING. THE CITY REQUIRES AT LEAST 24 HOURS NOTICE PRIOR TO INSPECTIONS.



DATE	REVISION	CITY COMMENTS
11.20.23		
3.28.24		

DRAFTED BY: RMF
 DESIGNED BY: RMF
 PROJECT ENGINEER: YLP
 DATE: 12.29.22
 PROJECT NO.: 21125

DRAWING: C6
 SHEET: 6 OF 7

SW 1/4 SECTION 30, TOWNSHIP 24 N, RANGE 4 E, W.M.
7929 E. MERCER WAY



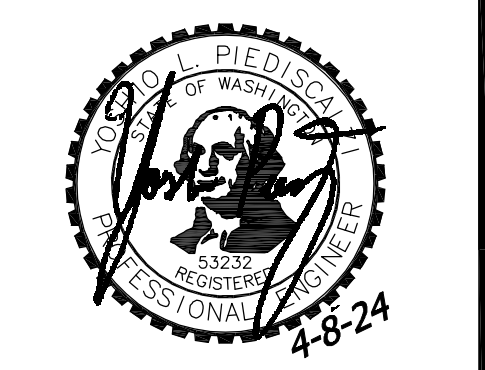
**7929 EAST MERCER WAY
 MERCER ISLAND RESIDENCE**

TREE RETENTION AND PLANTING PLAN

PARCEL NO. 3024059176
 7929 EAST MERCER WAY
 MERCER ISLAND, WA 98040

HOA HOANG

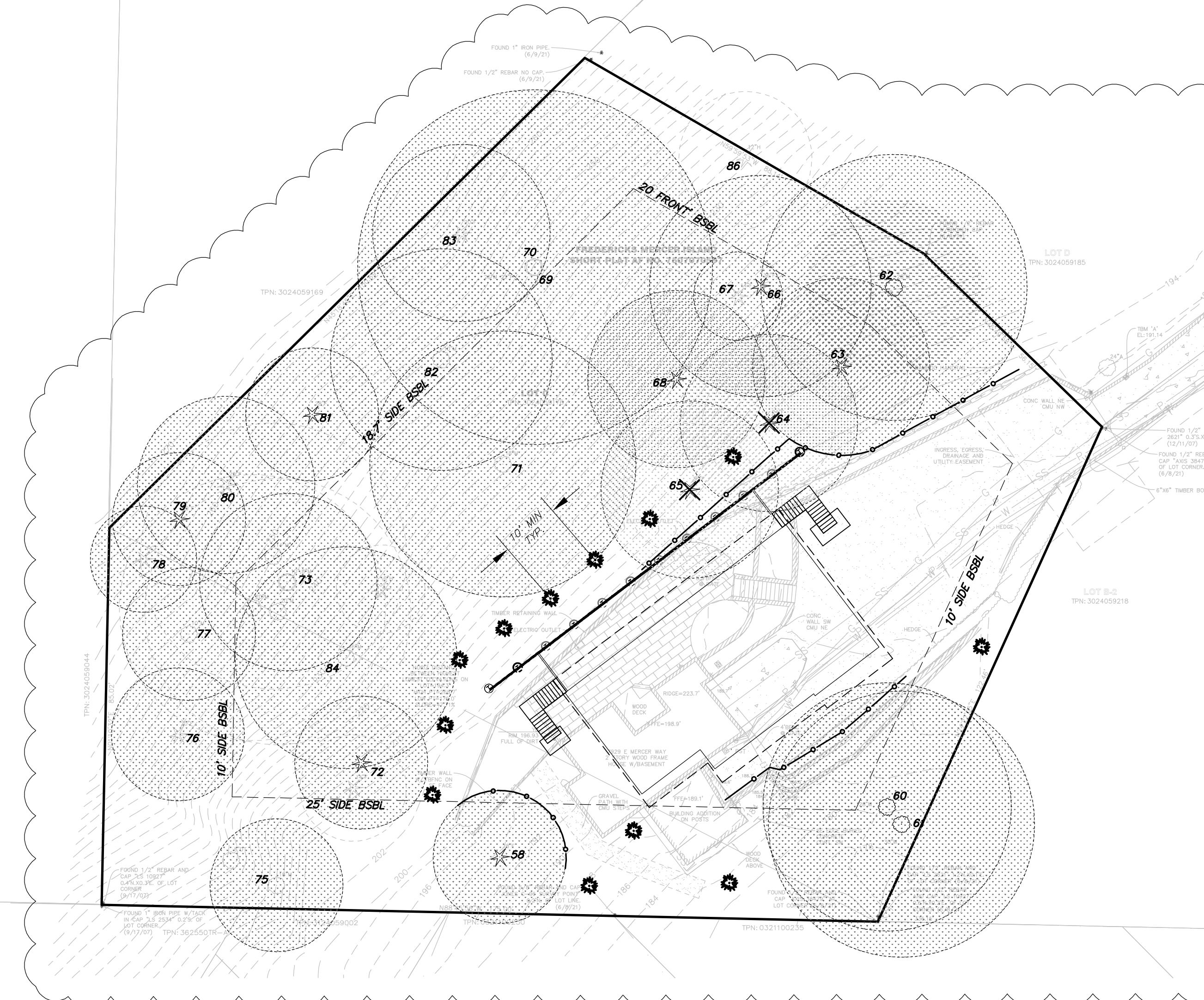
7929 E. MERCER WAY
 MERCER ISLAND WA 98040



APR	YLP	YLP
REVISION	CITY COMMENTS	CITY COMMENTS
DATE	11.20.23	4.8.24

DRAFTED BY: RMF
 DESIGNED BY: RMF
 PROJECT ENGINEER: YLP
 DATE: 12.29.22
 PROJECT NO.: 21125

DRAWING: C7
 SHEET: 7 OF 1



LEGEND

- 123 124 VIALBE TREE
- 123 124 NON VIALBE TREE
- 123 124 125 126 TREE TO BE REMOVED
- 123 124 DRIPLINE OF VIALBE TREE TO BE RETAINED
- 123 124 DRIPLINE OF VIALBE TREE TO BE REMOVED
- TREE PROTECTION FENCING (SEE SHEET C2 FOR DETAIL)
- REPLACEMENT TREE PER ARBORIST REPORT AND RECOMMENDATIONS. TREES PLACED MINIMUM OF 10' ON CENTER FROM EACH OTHER.

TREE RETENTION CALCULATION

TOTAL NUMBER OF EXCEPTIONAL TREES:	4
TOTAL LARGE TREES:	22
TOTAL VIALBE ONSITE TREES:	26
REQUIRED: 30% VIALBE TREES:	8
PROPOSED VIALBE TREES RETAINED:	24

REPLACEMENT TREE NOTE
 AT LEAST HALF THE TREES NEED TO BE PACIFIC NORTHWEST NATIVES. RECOMMENDED NATIVE CONIFERS INCLUDE DOUGLAS FIR, WESTERN REDCEDAR, AND SITKA SPRUCE, OR THE GENERALLY SMALLER AND SLOW GROWING SHORE PINE AND MOUNTAIN HEMLOCK. NATIVE SMALL DECIDUOUS TREES COULD INCLUDE OREGON CRABAPPLE, VINE MAPLE, CASCARA, PACIFIC DOGWOOD.

Tree ID	Parcel	Species	Type	DBH (Inches)	Average Dripline (diameter)	CRZ / Limits of Disturbance (radius)	Tree Credits	Overall Condition	Overall Risk Rating	Retained or Removed	Tree ID	Parcel	Species	Type	DBH (Inches)	Average Dripline (diameter)	CRZ / Limits of Disturbance (radius)	Tree Credits	Overall Condition	Overall Risk Rating	Retained or Removed		
69	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	23	25'	13'	Large	Good	Low	Retain	75	3024059176	Bigleaf Maple Acer macrophyllum	Deciduous	18	40'	20'	Large	Good	Low	Retain		
Recommendation		Will not be impacted by construction activities.										Recommendation		Will not be impacted by construction activities.									
70	3024059176	Bigleaf Maple Acer macrophyllum	Deciduous	31	60'	30'	Large	Good	Low	Retain	76	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	20	30'	15'	Large	Good	Low	Retain		
Recommendation		Will not be impacted by construction activities.										Recommendation		Will not be impacted by construction activities.									
71	3024059176	Bigleaf Maple Acer macrophyllum	Deciduous	22	60'	30'	Large	Good	Low	Retain	77	3024059176	Bigleaf Maple Acer macrophyllum	Deciduous	10	40'	20'	Large	Good	Low	Retain		
Recommendation		Will not be impacted by construction activities.										Recommendation		Will not be impacted by construction activities.									
72	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	47	40'	20'	Exceptional	Good	Low	Retain	78	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	14	20'	10'	Large	Good	Low	Retain		
Recommendation		Will not be impacted by construction activities.										Recommendation		Will not be impacted by construction activities.									
73	3024059176	Bigleaf Maple Acer macrophyllum	Deciduous	55	60'	30'	Exceptional	Good	Low	Retain	79	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	30	30'	15'	Large	Good	Low	Retain		
Recommendation		Will not be impacted by construction activities.										Recommendation		Will not be impacted by construction activities.									

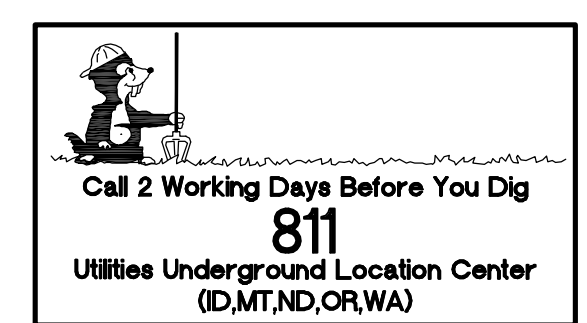
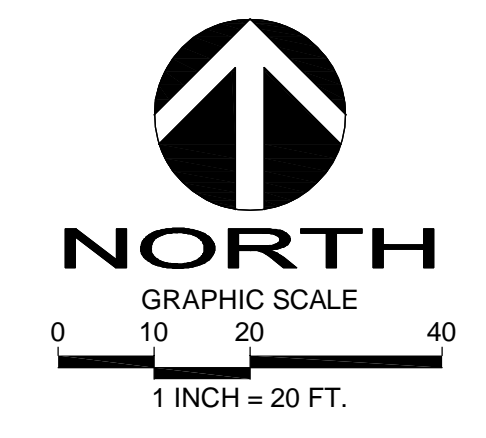
TREE PROTECTION NOTES
 PRIOR TO CONSTRUCTION, THE FOLLOWING MEASURES SHOULD BE TAKEN TO ENSURE THAT TREES ARE NOT DAMAGED.

- PROJECT MANAGERS SHOULD REVIEW THE CONTENTS OF THIS REPORT, INCLUDING THE INTERNATIONAL SOCIETY OF ARBORICULTURE'S RECOMMENDED TREE PROTECTION MEASURES FOUND UNDER SECTIONS 7 AND 8 OF THIS REPORT. INFORMATION CONTAINED HEREIN SHOULD BE RELAYED TO WORKERS AND SUBCONTRACTORS.
- TO MINIMIZE SOIL COMPACTION, 6 INCHES OF MEDIUM FINE MULCH SHOULD BE APPLIED WITHIN THE RECOMMENDED TREE PROTECTION ZONES OF TREES 59, 60, AND 61 OF THIS REPORT. IT SHOULD BE KEPT AT A MINIMUM OF 12 INCHES FROM THE PROTECTED TREE'S TRUNK.
- ONCE THE MULCH HAS BEEN APPLIED, TREE PROTECTION FENCING SHOULD BE INSTALLED PER THE ISA RECOMMENDED TREE PROTECTION FENCING DETAIL BELOW.

Tree ID	Parcel	Species	Type	DBH (Inches)	Average Dripline (diameter)	CRZ / Limits of Disturbance (radius)	Category	Overall Condition	Overall Risk Rating	Retained or Remove
59	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	27	30'	15'	Large	Good	Low	Retain
Recommendation		Requires tree protection measures outlined in sections 8, 10, and 11.								
60	3024059176	Western Hemlock Tsuga heterophylla	Evergreen conifer	20	30'	15'	Large	Good	Low	Retain
Recommendation		Requires tree protection measures outlined in sections 8, 10, and 11.								
61	3024059176	English Laurel Prunus laurocerasus	Evergreen	12	30'	15'	Large	Good	Low	Retain
Recommendation		Requires tree protection measures outlined in sections 8, 10, and 11.								
62	3024059176	Bigleaf Maple Acer macrophyllum	Deciduous	29	60'	30'	Large	Good	Moderate	Retain
Recommendation		Requires tree protection measures outlined in sections 8, 10, and 11.								
63	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	31	30'	15'	Large	Good	Moderate	Retain
Recommendation		Requires tree protection measures outlined in sections 8, 10, and 11.								

Tree ID	Parcel	Species	Type	DBH (Inches)	Average Dripline (diameter)	CRZ / Limits of Disturbance (radius)	Tree Credits	Overall Condition	Overall Risk Rating	Retained or Removed
64	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	22	14'	7'	Large	Good	Low	Remove
Recommendation		Unlikely to survive the construction process and could potentially become hazardous.								
65	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	31	16'	8'	Large	Good	Low	Remove
Recommendation		Unlikely to survive the construction process and could potentially become hazardous.								
66	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	39	18'	9'	Exceptional	Good	Low	Retain
Recommendation		Will not be impacted by construction activities.								
67	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	13	30'	15'	Large	Good	Low	Retain
Recommendation		Will not be impacted by construction activities.								
68	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	38	30'	15'	Exceptional	Good	Low	Retain
Recommendation		Will not be impacted by construction activities.								

Tree ID	Parcel	Species	Type	DBH (Inches)	Average Dripline (diameter)	CRZ / Limits of Disturbance (radius)	Tree Credits	Overall Condition	Overall Risk Rating	Retained or Removed
80	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	22	30'	15'	Large	Good	Low	Retain
Recommendation		Will not be impacted by construction activities.								
81	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	28	30'	15'	Large	Good	Low	Retain
Recommendation		Will not be impacted by construction activities.								
82	3024059176	Bigleaf Maple Acer macrophyllum	Deciduous	10	40'	20'	Large	Good	Low	Retain
Recommendation		Will not be impacted by construction activities.								
83	3024059176	Douglas fir Pseudotsuga menziesii	Evergreen conifer	20	30'	15'	Large	Good	Low	Retain
Recommendation		Will not be impacted by construction activities.								
84	3024059176	Bigleaf Maple Acer macrophyllum	Deciduous	16	40'	20'	Large	Good	Low	Retain
Recommendation		Will not be impacted by construction activities.								
85	3024059176	Western Hemlock Tsuga heterophylla	Evergreen conifer	12	20'	10'	Large	Good	Low	Retain
Recommendation		Will not be impacted by construction activities.								



GENERAL SHORING NOTES

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CRITERIA

- ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (IBC) 2018 EDITION.
- SOILS REPORT REFERENCE: GEOTECHNICAL ENGINEERING EVALUATION INTRACHAT-HOANG RESIDENCE DEVELOPMENT 7929 EAST MERCER WAY MERCER ISLAND, WASHINGTON PREPARED BY NELSON GEOTECHNICAL ASSOCIATES, INC. ON JANUARY 14, 2022 AND MEMORANDUM PREPARED ON MARCH 15, 2024. NGA FILE NO. 1276521
- THE SOIL PRESSURES INDICATED ON THE SOIL PRESSURE DIAGRAM WERE USED FOR DESIGN, IN ADDITION TO THE DEAD AND LIVE LOADS.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO ANY FABRICATION OR CONSTRUCTION FOR ALL STRUCTURAL ITEMS INCLUDING THE FOLLOWING: STRUCTURAL STEEL, MISCELLANEOUS METAL, TENDONS, ANCHORS, REINFORCING STEEL, GROUTS, AND CONCRETES. PROPOSED DEMOLITION AND SHORING SEQUENCE SHALL ALSO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- SHOP DRAWING REVIEW OF DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD. THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND (1) COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN (2) WEEKS OF RECEIPT. ONCE THE DRAWINGS HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS THEY WILL BE MARKED WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE STRUCTURAL DESIGN INTENT.
- INSPECTION BY THE SOILS ENGINEER SHALL BE PERFORMED FOR PILE PLACEMENT AND TIEBACK PLACING AND STRESSING. ALL PREPARED SOIL BEARING SURFACES SHALL BE INSPECTED BY THE SOILS ENGINEER PRIOR TO PLACEMENT OF PILE. SOIL COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING AGENCY.
- SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110, 1704, AND 1705 OF THE INTERNATIONAL BUILDING CODE 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. SPECIAL INSPECTION SHALL BE PROVIDED ON THE FOLLOWING TYPES OF CONSTRUCTION:

CONCRETE CONSTRUCTION
STRUCTURAL STEEL FABRICATION AND ERECTION (INCLUDING FIELD WELDING AND HIGH-STRENGTH FIELD BOLTING)
AUGERCAST, CAISSON, DRILLED, OR DRIVEN PILE INSTALLATION

- THE SHORING CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO DRILLING PILE HOLES, TIEBACK ANCHORS, OR CUTTING OR DIGGING IN STREETS OR ALLEYS. THE UTILITIES INFORMATION SHOWN ON THE PLANS MAY BE NOT ACCURATE OR COMPLETE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF EXISTING STRUCTURES IN THE FIELD AND SHALL NOTIFY THE ENGINEER OF ALL FIELD CHANGES PRIOR TO FABRICATION AND INSTALLATION.
- SEE SOILS REPORT FOR MORE COMPLETE INFORMATION, INCLUDING RECOMMENDATIONS FOR SHORING IN GENERAL, SHORING MONITORING, EXCAVATION, LAGGING, AND DRAINAGE.
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF CHAPTER 19 OF THE INTERNATIONAL BUILDING CODE. REQUIRED ULTIMATE COMPRESSIVE STRENGTH OF STRUCTURAL GROUT SHALL BE REACHED BY 28-DAY.

	(f _c)	MINIMUM CEMENT PER CUBIC YARD
PILE LEAN CONCRETE	100 PSI	1-1/2 SACKS

- ALL LUMBER SHALL BE GRADED AND MARKED IN CONFORMANCE WITH W.C.L.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO 17. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

4x12 TIMBER LAGGING	DOUGLAS FIR-LARCH NO 2	F _b = 900 PSI
6x TIMBER LAGGING	DOUGLAS FIR-LARCH NO 2	F _b = 875 PSI
- TIMBER LAGGING SHALL BE TREATED PER AWPA STANDARDS TO A MINIMUM RETENTION OF 0.40 PCF. LAGGING SHALL BE 4x12, UNO.

- STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON:
 - AISC 360 AND CHAPTER 22 OF THE INTERNATIONAL BUILDING CODE.
 - APRIL 14, 2010 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AMENDED AS NOTED IN THE CONTRACT DOCUMENTS, BY THE DELETION OF PARAGRAPH 4.4.1, AND REVISE REFERENCE FROM "STRUCTURAL DESIGN DRAWINGS" TO "CONTRACT DOCUMENTS" IN PARAGRAPH 3.1.
 - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER	ASTM SPECIFICATION	F _y
A. WIDE FLANGE SHAPES	A992	50 KSI
B. OTHER SHAPES, PLATES, AND RODS	A36	36 KSI
C. HP-SHAPES	A572 (GRADE 50)	50 KSI
D. STRUCTURAL PIPE	A53 (GRADE B)	35 KSI
E. HOLLOW STRUCTURAL SECTIONS SQUARE OR RECTANGULAR ROUND	A500 (GRADE B)	46 KSI
	A500 (GRADE B)	42 KSI
F. CONVENTIONAL HIGH-STRENGTH BOLTS (3/4" ROUND, UNO)	A325	
G. COMMON BOLTS (WOOD APPLICATIONS)	A307	
H. ANCHOR BOLTS	F1554, GRADE 36	
I. HEADED SHEAR STUDS	A108	

- ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES(F) AND 40 FT-LBS AT 70 DEGREES(F), AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

SHORING MONITORING

- SURVEY MONITORING OF THE SHORING WALLS SHALL BE PERFORMED TO DETERMINE THE VERTICAL AND HORIZONTAL MOVEMENT OF THE MONITORING POINTS. THE MEASURING SYSTEM SHALL HAVE AN ACCURACY OF AT LEAST 0.01 FEET. THE MONITORING PROGRAM SHALL BE DETERMINED BY THE GEOTECHNICAL SPECIAL INSPECTOR BUT AT A MINIMUM SHALL INCLUDE THE FOLLOWING:
 - ESTABLISH SURVEY LINES NEAR THE TOP OF THE WALL ON ADJACENT CRITICAL STRUCTURES OR BUILDINGS WITHIN A DISTANCE EQUAL TO TWO TIMES THE HEIGHT OF THE WALL, AND ALONG THE CURB LINE AND CENTERLINE OF ADJACENT ROADWAYS OR ALLEYS. SURVEY POINTS SHOULD BE SPACED NO MORE THAN EVERY 20'-0" ALONG THE WALL. AT SOLDIER PILES, PLACE MONITORING POINTS AT THE TOP OF AT LEAST EVERY OTHER SOLDIER PILE. ESTABLISH A BASELINE READING OF MONITORING POINTS ON THE GROUND SURFACE AND SETTLEMENT-SENSITIVE STRUCTURES BEHIND THE SHORING WALL PRIOR TO DEWATERING, EXCAVATION, AND INSTALLATION OF THE SHORING SYSTEM. THE GEOTECHNICAL ENGINEER, CONTRACTOR, AND SURVEYOR SHALL COORDINATE LOCATIONS OF THESE MONITORING POINTS PRIOR TO THE BEGINNING OF EXCAVATION.

A LICENSED SURVEYOR THAT IS NOT THE CONTRACTOR MUST PERFORM THE SURVEYING AT LEAST ONCE A WEEK. MONITORING POINTS ESTABLISHED ALONG THE CURB LINE AND CENTERLINE OF ADJACENT ROADWAYS NEED TO BE MONITORED WHEN TOTAL WALL MOVEMENTS REACH 0.5". THE GEOTECHNICAL ENGINEER SHALL REVIEW SURVEY DATA AND PROVIDE AN EVALUATION OF WALL PERFORMANCE AND THE SURVEY DATA TO THE STRUCTURAL ENGINEER, SHORING DESIGNER, AND BUILDING DEPARTMENT ON AT LEAST A WEEKLY BASIS. THIS WEEKLY REVIEW MUST CONTAIN A GRAPHICAL PRESENTATION OF THE WALL MOVEMENT VERSUS TIME.

IMMEDIATELY AND DIRECTLY NOTIFY THE GEOTECHNICAL AND STRUCTURAL ENGINEER, SHORING DESIGNER, AND BUILDING DEPARTMENT IF UNUSUAL OR SIGNIFICANTLY INCREASED MOVEMENT OCCURS, IF 0.5" OF MOVEMENT OCCURS BETWEEN (2) CONSECUTIVE READINGS AND WHEN TOTAL MOVEMENT REACHES 0.5". IF MOVEMENT EXCEEDS 0.5", THE ENGINEERS AND SHORING DESIGNER SHALL DETERMINE THE CAUSE OF DISPLACEMENT AND DEVELOP REMEDIAL MEASURES SUFFICIENT TO LIMIT TOTAL WALL MOVEMENT TO 1". ALL EARTHWORK AND CONSTRUCTION ACTIVITIES MUST BE DIRECTED TOWARD IMMEDIATE IMPLEMENTATION OF REMEDIAL MEASURES NECESSARY TO LIMIT TOTAL WALL MOVEMENT TO WHAT IS CONSIDERED AS ACCEPTABLE BY THE DESIGN TEAM, AND BUILDING DEPARTMENT (1" MAXIMUM).

SURVEY FREQUENCY CAN BE DECREASED AFTER THE SHORING SYSTEM HAS BEEN INSTALLED AND THE EXCAVATION IS COMPLETE IF THE DATA INDICATES LITTLE OR NO ADDITIONAL MOVEMENT. SURVEYING MUST CONTINUE UNTIL THE PERMANENT STRUCTURE (INCLUDING FLOOR SLABS AND BRACES) IS COMPLETED UP TO FINAL AND STREET GRADES. THE SURVEY FREQUENCY SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER, AFTER REVIEW AND APPROVAL BY BUILDING DEPARTMENT, AND SHALL BE BASED ON THE SHORING PERFORMANCE.

CONTRACTOR SHALL COMPLETE A PHOTO SURVEY OF ALL STRUCTURES WITHIN A DISTANCE EQUAL TO TWO TIMES THE HEIGHT OF THE WALL PRIOR TO DEWATERING, EXCAVATION, AND INSTALLATION OF THE SHORING SYSTEM. THE PHOTO SURVEY SHALL INCLUDE BUT IS NOT LIMITED TO DOCUMENTING THE NEIGHBORING BUILDINGS, FOUNDATION WALLS, RETAINING WALLS, FREESTANDING WALLS, SIDEWALKS, DRIVE SURFACES, AND THE ENTIRE FAÇADE OF MASONRY STRUCTURES. ALL EXISTING CRACKS SHOULD BE MEASURED AND DOCUMENTED. PROVIDE VIBRATION MONITORING PER GEOTECHNICAL RECOMMENDATIONS AS REQUIRED.

PILE AND LAGGING CONSTRUCTION

- SHORING AND SOIL EXCAVATION SHALL BE DONE SIMULTANEOUSLY.
- DIMENSIONS AND LOCATION OF EXISTING STRUCTURES SHALL BE VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBER. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION.
- PILE AND ANCHOR HOLES SHALL BE DRILLED WITHOUT LOSS OF GROUND AND WITHOUT ENDANGERING PREVIOUSLY INSTALLED PILES AND ANCHORS. THIS MAY INVOLVE CASING THE HOLES OR OTHER METHODS OF PROTECTION FROM CAVING. REFER TO REPORT OF GEOTECHNICAL INVESTIGATION FOR RECOMMENDED HOLE DIGGING PROCEDURE.

- STEEL PILE PLACEMENT TOLERANCES:
 - INSIDE PERPENDICULAR TO SHORING WALL
 - OUTSIDE PERPENDICULAR TO SHORING WALL
 - LATERALLY

- TIMBER LAGGING SHALL BE INSTALLED IN ALL AREAS. VOIDS BETWEEN LAGGING AND SOIL SHALL BE BACKFILLED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. IF CDF BACKFILL IS USED LIMIT LIFTS TO A MAXIMUM HEIGHT OF 2'-0". DRAINAGE BEHIND THE WALL MUST BE MAINTAINED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LIMIT THE AMOUNT OF EXPOSED SOIL WITHOUT LAGGING TO AVOID LOSS OF SOIL. MAXIMUM HEIGHT OF 4'-0" IS RECOMMENDED. SPECIAL CARE SHOULD BE TAKEN TO AVOID GROUND LOSS DURING EXCAVATION.

SHORING

- PRESTRESSING STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - DYWIDAG THREADED BARS SHALL CONFORM TO ASTM SPECIFICATION A-722 FOR HOT ROLLED, PROOF STRESSED ALLOY STEEL, $f_{y} = 150$ KSI.
 - UNCOATED (7) WIRE STRESS RELIEVED STRAND SHALL CONFORM TO ASTM A416, GRADE 270.

- TIEBACK INSTALLATION AND PRESTRESSING SHALL BE COMPLETED PRIOR TO EXCAVATING MORE THAN 2'-0" BELOW TIEBACK LEVEL.
- TIEBACKS SHALL REMAIN STRESSED UNTIL ALL PERMANENT STRUCTURES ARE IN PLACE.

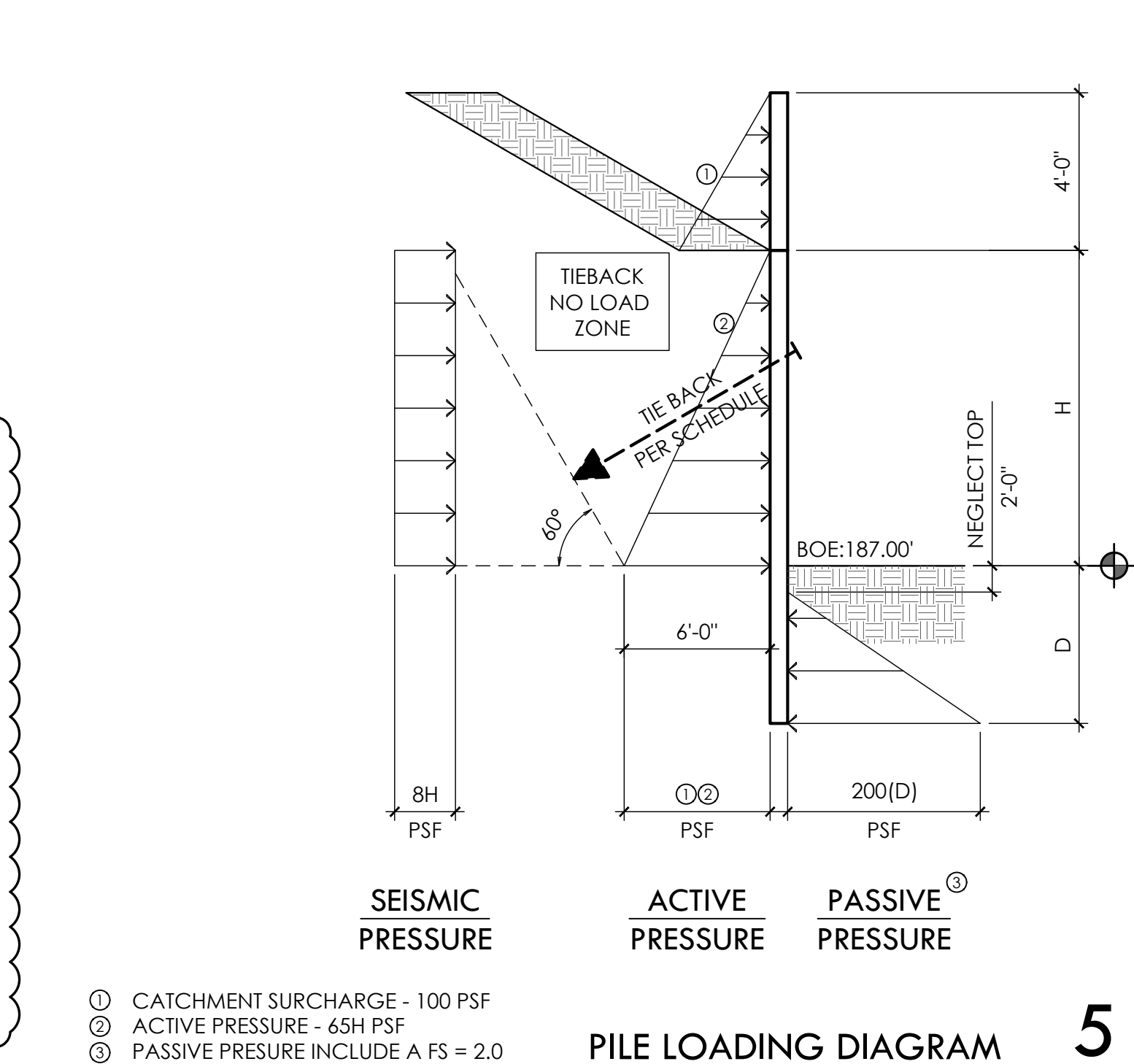
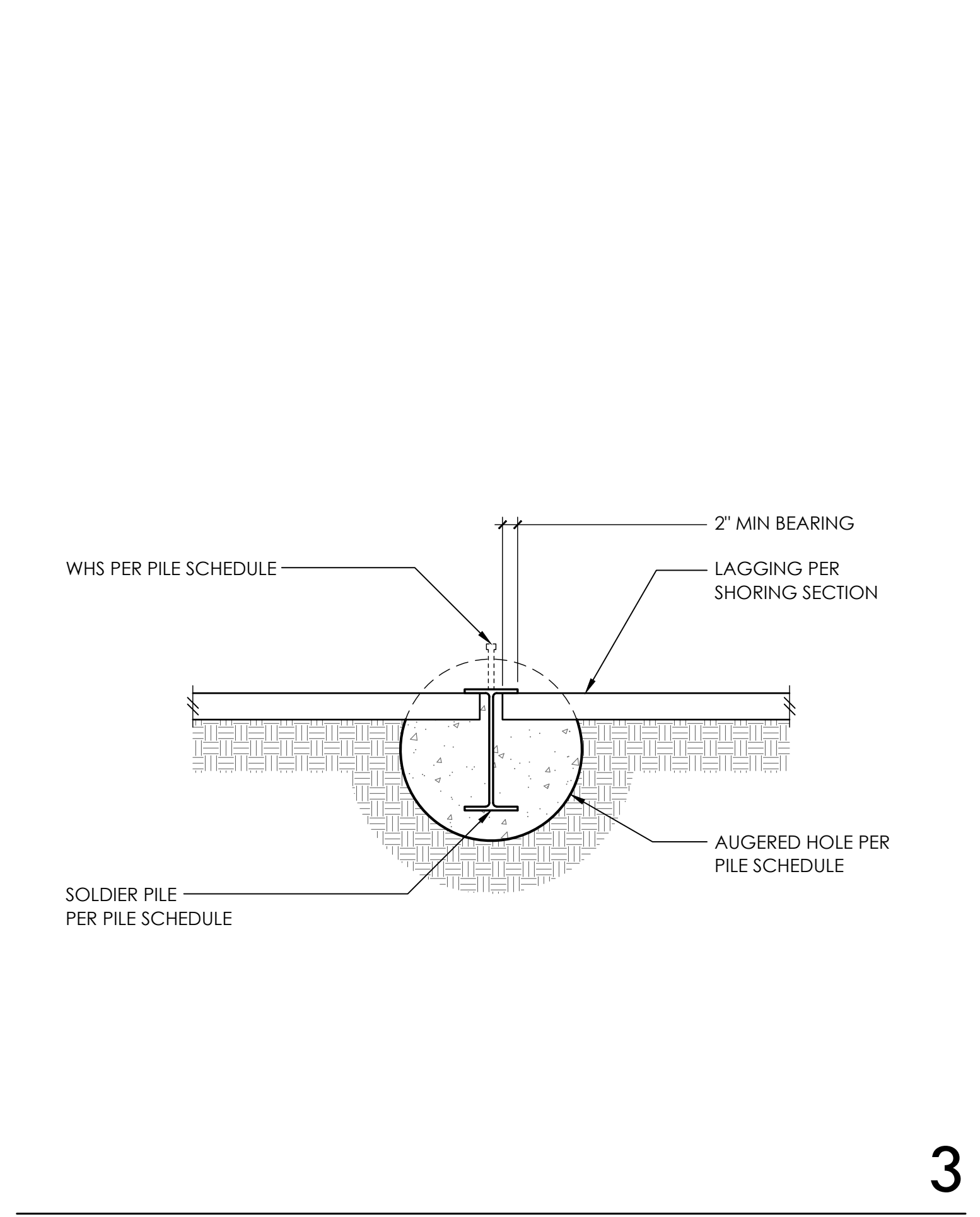
- VERIFICATION TESTS SHALL BE PROVIDED AS FOLLOWS:
 - 200% VERIFICATION TESTS SHALL BE CONDUCTED ON AT LEAST (2) ANCHORS IN EACH PARTICULAR SOIL TYPE. A MINIMUM OF (4) ANCHORS SHALL BE SELECTED BY THE GEOTECHNICAL ENGINEER FOR TESTING DURING THE COURSE OF CONSTRUCTION.

- THE MAXIMUM STRESS IN PRESTRESSING STEEL SHALL NOT EXCEED 80% OF THE ULTIMATE TENSILE STRENGTH DURING PERFORMANCE TESTING. PILES AND TIEBACKS MAY REQUIRE EXTRA REINFORCEMENT TO PERMIT STRESSING TO 200% OF DESIGN LOAD AS REQUIRED BY THE VERIFICATION TEST.
- THE VERIFICATION TESTS SHALL MEASURE ANCHOR STRESS AND DISPLACEMENT INCREMENTALLY TO VALUES OF UNIT SKIN FRICTION EQUAL TO 200% OF THE DESIGN STRESS. THE ANCHOR SHALL BE LOADED IN 10% INCREMENTS WITH EACH INCREMENT HELD FOR AT LEAST (5) MINUTES. THE FINAL FINAL MAXIMUM TEST LOAD SHALL BE MAINTAINED FOR A PERIOD OF AT LEAST (30) MINUTES. MEASUREMENTS OF MOVEMENT SHALL BE OBTAINED WITH A MEASURING SYSTEM WITH AN ACCURACY OF AT LEAST 0.01 FEET. TEST ANCHORS SHALL HOLD THE MAXIMUM TEST UNIT STRESS WITHOUT NOTICEABLE CREEP AND EXHIBIT A LINEAR OR NEAR LINEAR RELATIONSHIP BETWEEN UNIT ANCHOR STRESS AND MOVEMENT OVER THE ENTIRE 200% STRESS RANGE. NOTICEABLE CREEP SHALL BE DEFINED AS A RATE OF MOVEMENT OF APPROXIMATELY 0.08"/LOG CYCLE OF TIME. TESTS SHALL BE PERFORMED WITHOUT THE BACKFILL AHEAD OF THE ANCHOR TO AVOID ANY CONTRIBUTORY RESISTANCE BY THE BACKFILL, UNLESS APPROVAL TO THE CONTRARY IS GRANTED BY THE GEOTECHNICAL ENGINEER.

26. PRODUCTION ANCHORS:

- EACH PRODUCTION ANCHOR SHALL BE PROOF-LOADED TO 130% OF THE DESIGN LOAD AND SHALL SUSTAIN THE PROOF LOAD WITHOUT NOTICEABLE CREEP OR EXCESSIVE ANCHOR MOVEMENT FOR (5) MINUTES. THE ANCHOR SHALL BE LOADED IN INCREMENTS OF 25% OF THE DESIGN LOAD, WITH EACH LOAD HELD FOR AT LEAST (5) MINUTES, IN ORDER TO OBTAIN A STABLE DISPLACEMENT MEASUREMENT.
- MOVEMENT OF THE ANCHOR IN EXCESS OF 3" SHALL BE CONSIDERED INDICATIVE OF DEFICIENCIES IN THE INSTALLATION. TOTAL MOVEMENT OF AN ANCHOR IN EXCESS OF 6" SHALL BE CONSIDERED A FAILURE REQUIRING A REPLACEMENT ANCHOR. TOTAL MOVEMENT OF AN ANCHOR BETWEEN 3" AND 6" SHALL BE REVIEWED BY THE GEOTECHNICAL AND STRUCTURAL ENGINEER TO DETERMINE IF A REPLACEMENT ANCHOR IS REQUIRED.
- FOLLOWING PROOF LOADING, EACH ANCHOR SHALL BE LOCKED OFF AT 100% OF DESIGN LOADING.

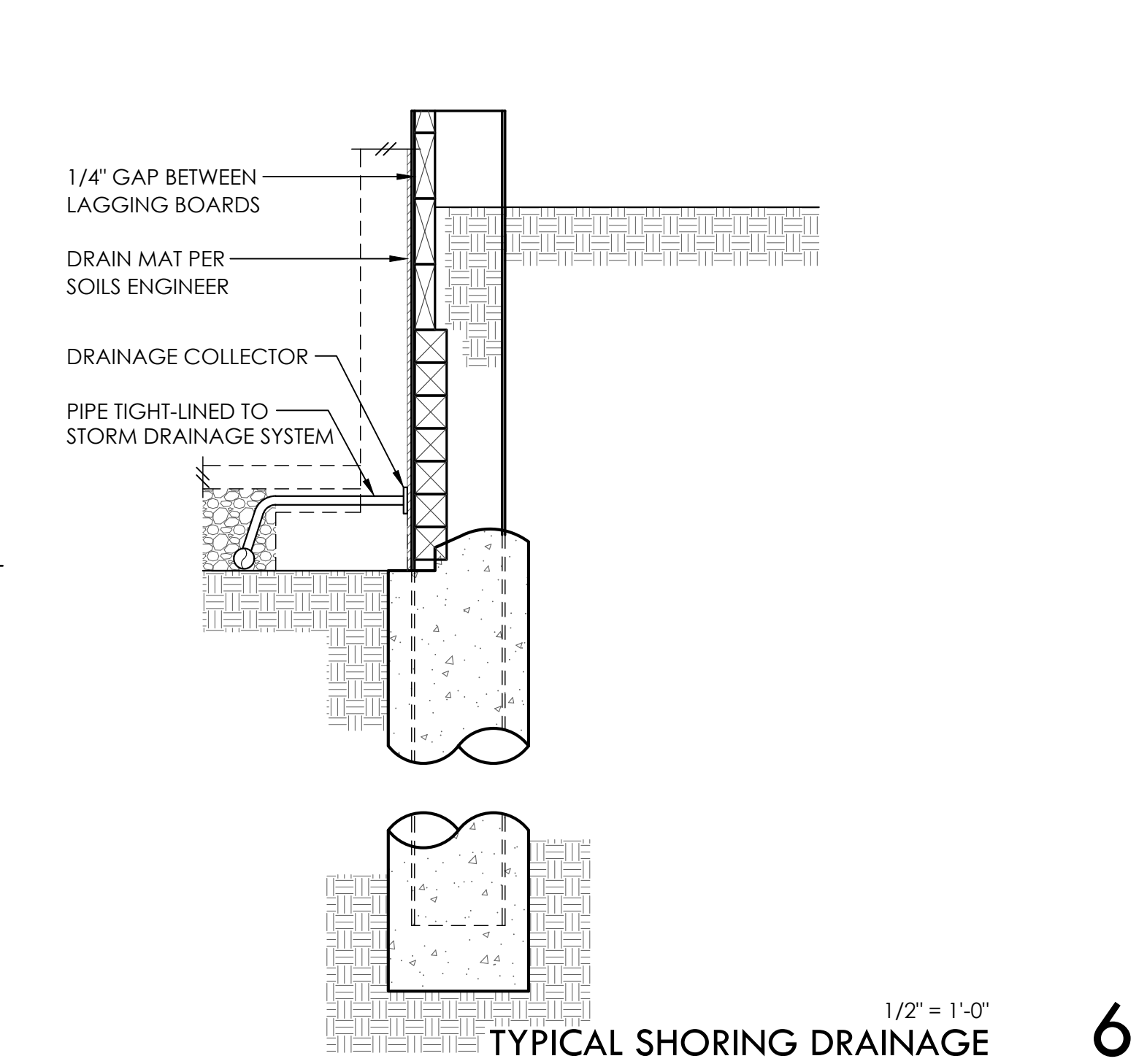
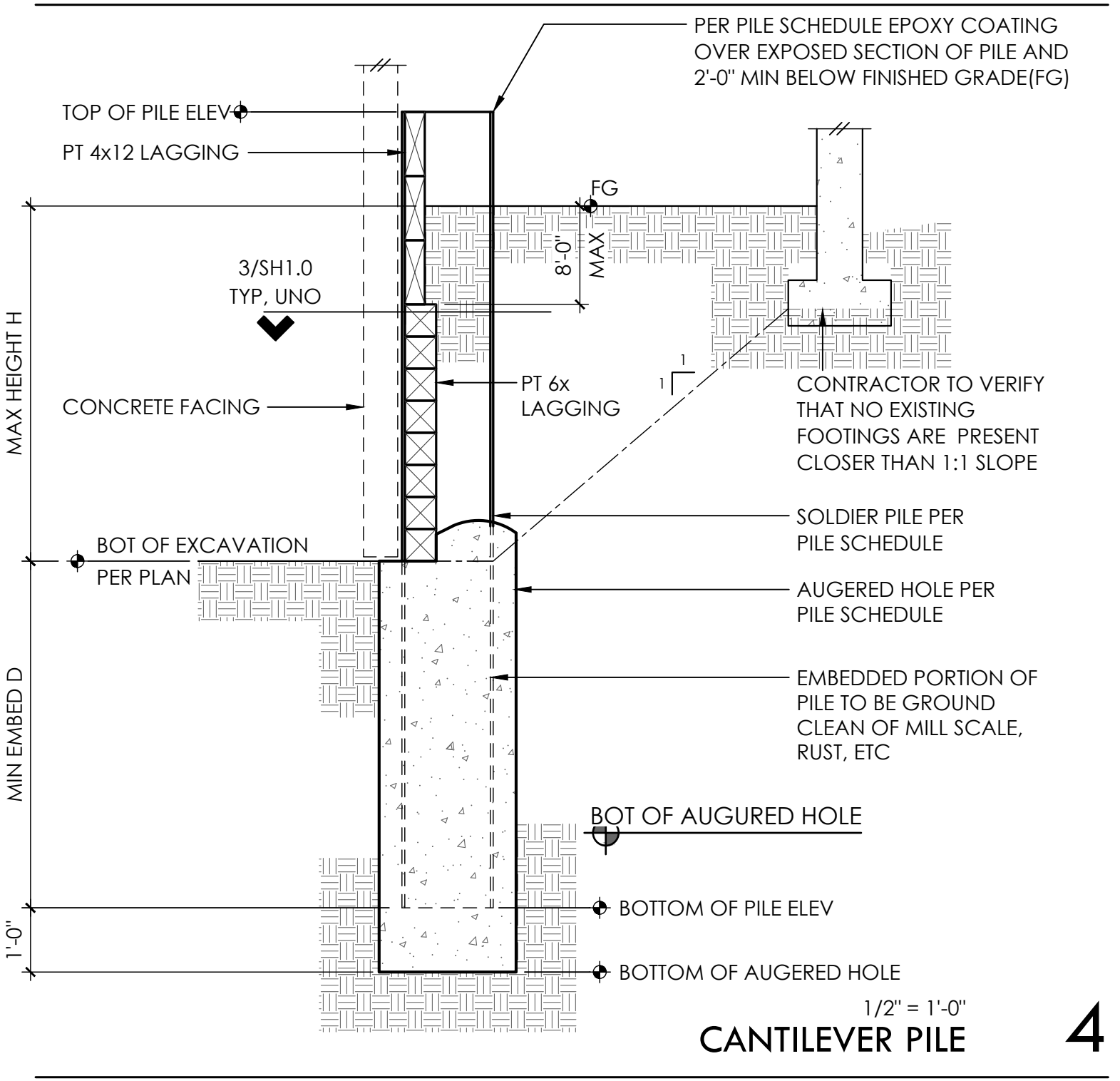
FOR ABBREVIATIONS SEE 2/SH1.0



① CATCHMENT SURCHARGE - 100 PSF
② ACTIVE PRESSURE - 65H PSF
③ PASSIVE PRESSURE INCLUDE A FS = 2.0

ABBREVIATIONS

±	PLUS OR MINUS	EMBED	EMBEDMENT	OC	ON CENTER
∅	DIAMETER	ENGR	ENGINEER	OPP	OPPOSITE
ABV	ABOVE	EQ	EQUAL	PERP	PERPENDICULAR
ADDL	ADDITIONAL	EXT	EXTERIOR	PL	PLATE
APPROX	APPROXIMATE	FDN	FOUNDATION	PL	PROPERTY LINE
ARCH	ARCHITECT, ARCHITECTURAL	FF	FINISHED FLOOR	PSF	POUNDS PER SQUARE FOOT
		FT	FEET		POUNDS PER SQUARE INCH
BLDG	BUILDING	FTG	FOOTING	PSI	POUNDS PER SQUARE INCH
BLW	BELOW	GALV	GALVANIZED		PT
BOE	BOTTOM OF EXCAVATION	GR	GRADE		PT
		HF	HEM FIR		REQD
BOT	BOTTOM	HORIZ	HORIZONTAL		SCHED
BTWN	BETWEEN	HSS	HOLLOW STRUCTURAL SECTION		SIM
CL	CENTERLINE	HT	HEIGHT		STRUCT
CLR	CLEAR	IBC	INTERNATIONAL BUILDING CODE		TEMP
CONC	CONCRETE	IN	INCH		THRU
CONT	CONTINUOUS	K	KIPS (1000 POUNDS)		TOW
CS	CRAWLSPACE	KSF	KIPS PER SQ FT		TYP
DEMO	DEMOLISH	L	ANGLE		UNO
DF	DOUGLAS FIR	L	LENGTH		VIF
DIA	DIAMETER	LBS	POUNDS		W
DIAG	DIAGONAL	MAX	MAXIMUM		W/
DIM	DIMENSION	MB	MACHINE BOLT		w/o
DO	DITTO	MFR	MANUFACTURER		WHS
DP	DEEP/DEPTH	MIN	MINIMUM		STUD
DWGS	DRAWINGS	MISC	MISCELLANEOUS		
(E)	EXISTING	NTS	NOT TO SCALE		
EA	EACH				
EL	ELEVATION				



1/2" = 1'-0"

MALSAM TSANG STRUCTURAL ENGINEERING
122 S. JACKSON ST. SUITE 210 SEATTLE, WA 98104 • 206.768.8838

7929 E MERCER WAY
MERCER ISLAND, WA

MARC J. MALSAM
STATE OF WASHINGTON
4126
PROFESSIONAL ENGINEER

PROJECT NO 5438-2022-01-02
PROJECT MANAGER WAC
DRAWN KT
ENGINEER BLAKE RASSILYER 206.602.5452
BLAKER@MALSAM-TSANG.COM

REV	DESCRIPTION	DATE
	PERMIT SET	6.10.22
△	SHORING REVISIONS	11.14.23
△	PERMIT CORRECTIONS	3.22.24
△	PERMIT CORRECTIONS	4.23.24

ARCH WARMMODERN LIVING 206.214.5190

SHORING GENERAL NOTES AND DETAILS

SH1.0
SCALE - 3/4" = 1'-0"

SHORING NOTES

1. REFER TO GENERAL SHORING NOTES SHEET SH1.0 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO SOILS REPORT FOR ADDITIONAL SHORING INSTALLATION REQUIREMENTS.
3. REFER TO SHEET SH1.0 FOR TYPICAL SHORING DETAILS.
4. CONTRACTOR TO VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS, SURVEY DRAWINGS, AND EXISTING SITE CONDITIONS.
5. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.

LEGEND

- DRILLED PILE
- PILE MARK
- BOE
- TOW
- FF
- FG
- SLOPING EXCAVATION (1.0H: 1.0V MAX)
- TIEBACK SHORING PER 12/SH3.0 w/ REQUIRED ALLOWABLE TENSION LOAD PER SHORING SCHEDULE
- SPOT ELEVATION



SHORING AND EXCAVATION PLAN
 SEE SH2.1 FOR PILE SCHEDULE
 SCALE - 1/8" = 1'-0"



7929 E MERCER WAY
 MERCER ISLAND, WA



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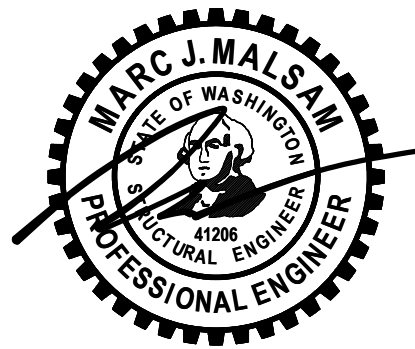
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SHORING AND EXCAVATION PLAN

SH2.0
 SCALE - 1/8" = 1'-0"

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Prepared by: bsl
 Project No: 5438-2022-01-02, 2024 - 11.12.24



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PILE SCHEDULE

SH2.1

SCALE - 1/8" = 1'-0"

SHORING PILE SCHEDULE^{①②}

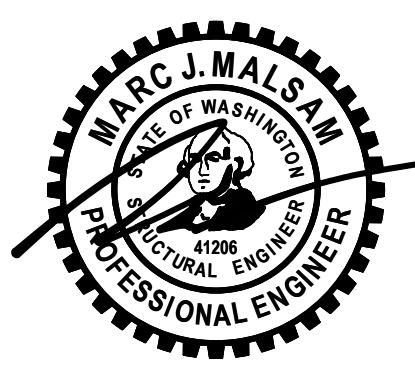
PILE MARK	AUGER DIA	PILE SIZE	BOT OF PILE ELEV	BOT OF EXCAV	TOP OF PILE ELEV	TIEBACK ELEV	TIEBACK FORCE (KIPS)	TIEBACK ANGLE (DEG)	TIEBACK MIN BOND LENGTH	TIEBACK MIN TOTAL LENGTH	MAX HEIGHT 'H'	MIN DEPTH 'D'	EPOXY COATING	WELDED STUDS ^③	CONDITION	TYPE	LOADING DIAGRAM	DETAIL
P101	24"	W14x68	177.0'	196.0'	208.0'	-	-	-	-	-	12.0'	19.0'	YES	YES	PERMANENT	CANTILEVER	5/SH1.0	4/SH1.0, 4/SH3.0
P102	24"	W14x53	172.0'	187.0'	208.0'	196.0'	71.1	15°	31.0'	41.0'	21.0'	15.0'	YES	YES	PERMANENT	TIEBACK	5/SH1.0	4/SH1.0, 4/SH3.0, 12/SH3.0
P103	24"	W14x53	172.0'	187.0'	208.0'	196.0'	71.1	15°	31.0'	41.0'	21.0'	15.0'	YES	YES	PERMANENT	TIEBACK	5/SH1.0	4/SH1.0, 4/SH3.0, 12/SH3.0
P104	24"	W14x53	172.0'	187.0'	208.0'	196.0'	71.1	15°	31.0'	41.0'	21.0'	15.0'	YES	YES	PERMANENT	TIEBACK	5/SH1.0	4/SH1.0, 4/SH3.0, 12/SH3.0
P105	24"	W12x40	172.0'	187.0'	206.0'	196.0'	54.1	15°	23.0'	32.0'	19.0'	15.0'	YES	YES	PERMANENT	TIEBACK	5/SH1.0	4/SH1.0, 4/SH3.0, 12/SH3.0
P106	24"	W12x40	172.0'	187.0'	206.0'	196.0'	54.1	15°	23.0'	32.0'	19.0'	15.0'	YES	YES	PERMANENT	TIEBACK	5/SH1.0	4/SH1.0, 4/SH3.0, 12/SH3.0
P107	24"	W12x40	172.0'	187.0'	206.0'	196.0'	54.1	15°	23.0'	32.0'	19.0'	15.0'	YES	YES	PERMANENT	TIEBACK	5/SH1.0	4/SH1.0, 4/SH3.0, 12/SH3.0
P108	24"	W12x40	172.0'	187.0'	206.0'	196.0'	54.1	15°	23.0'	32.0'	19.0'	15.0'	YES	YES	PERMANENT	TIEBACK	5/SH1.0	4/SH1.0, 4/SH3.0, 12/SH3.0
P109	24"	W10x39	172.0'	187.0'	204.0'	196.0'	40.0	15°	17.0'	26.0'	17.0'	15.0'	YES	YES	PERMANENT	TIEBACK	5/SH1.0	4/SH1.0, 4/SH3.0, 12/SH3.0
P110	24"	W10x39	172.0'	187.0'	204.0'	196.0'	40.0	15°	17.0'	26.0'	17.0'	15.0'	YES	YES	PERMANENT	TIEBACK	5/SH1.0	4/SH1.0, 4/SH3.0, 12/SH3.0
P111	24"	W10x39	172.0'	187.0'	204.0'	196.0'	40.0	15°	17.0'	26.0'	17.0'	15.0'	YES	YES	PERMANENT	TIEBACK	5/SH1.0	4/SH1.0, 4/SH3.0, 12/SH3.0
P112	24"	W14x68	177.5'	196.0'	204.0'	-	-	-	-	-	10.0'	18.5'	YES	YES	PERMANENT	CANTILEVER	5/SH1.0	4/SH1.0, 4/SH3.0

- ① CONTRACTOR SHALL REFERENCE TOP OF PILE AND BOTTOM OF PILE ELEVATIONS FOR DETERMINING TOTAL LENGTH OF PILE
- ② HEIGHT 'H' AND DEPTH 'D' LENGTH IS FOR ENGINEERING REFERENCE PURPOSES ONLY
- ③ 3/4" x 6" WELDED HEADED STUDS (WHS) AT 16"oc

PILE SCHEDULE

SH2.1

SCALE - 1/8" = 1'-0"



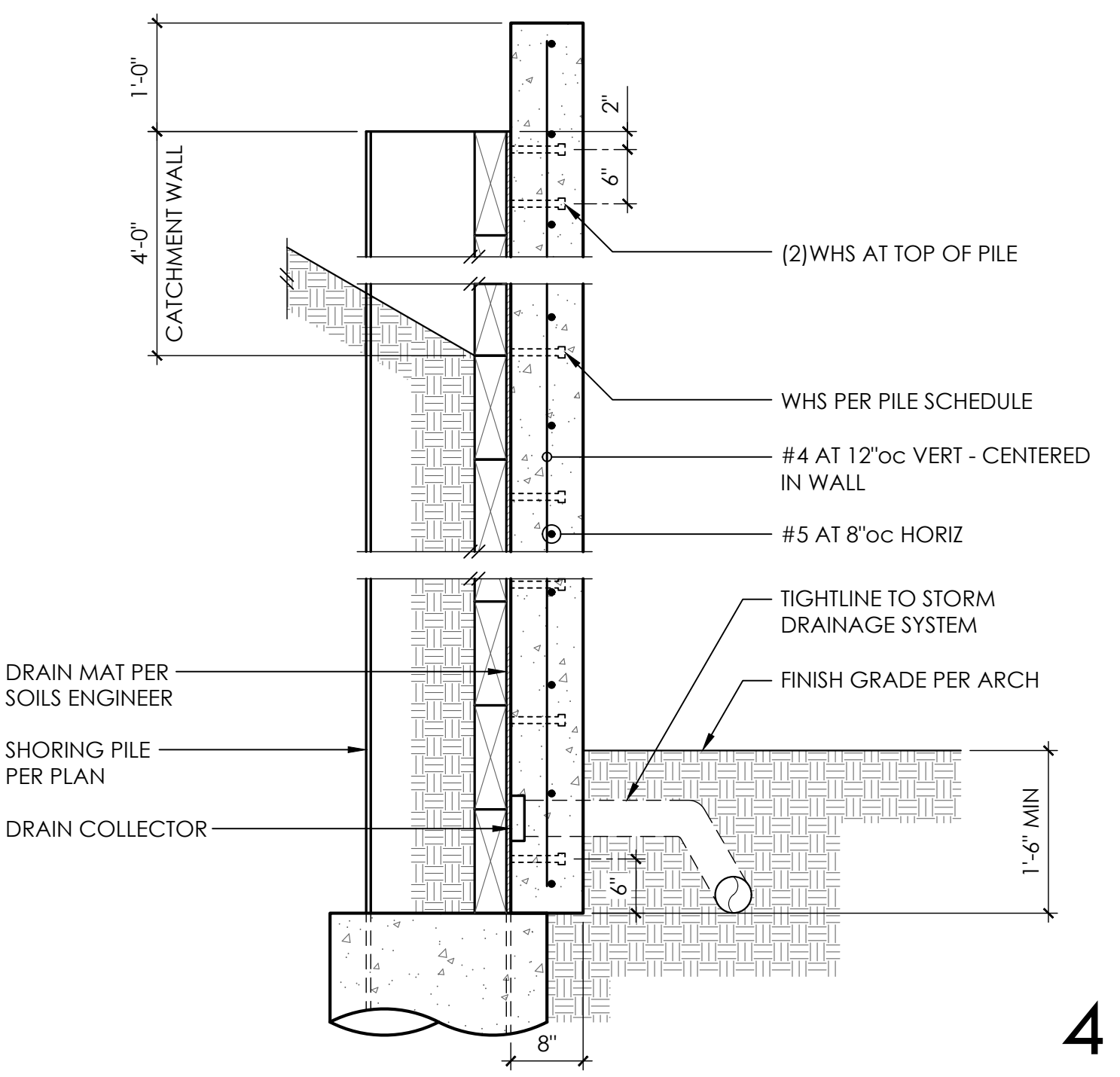
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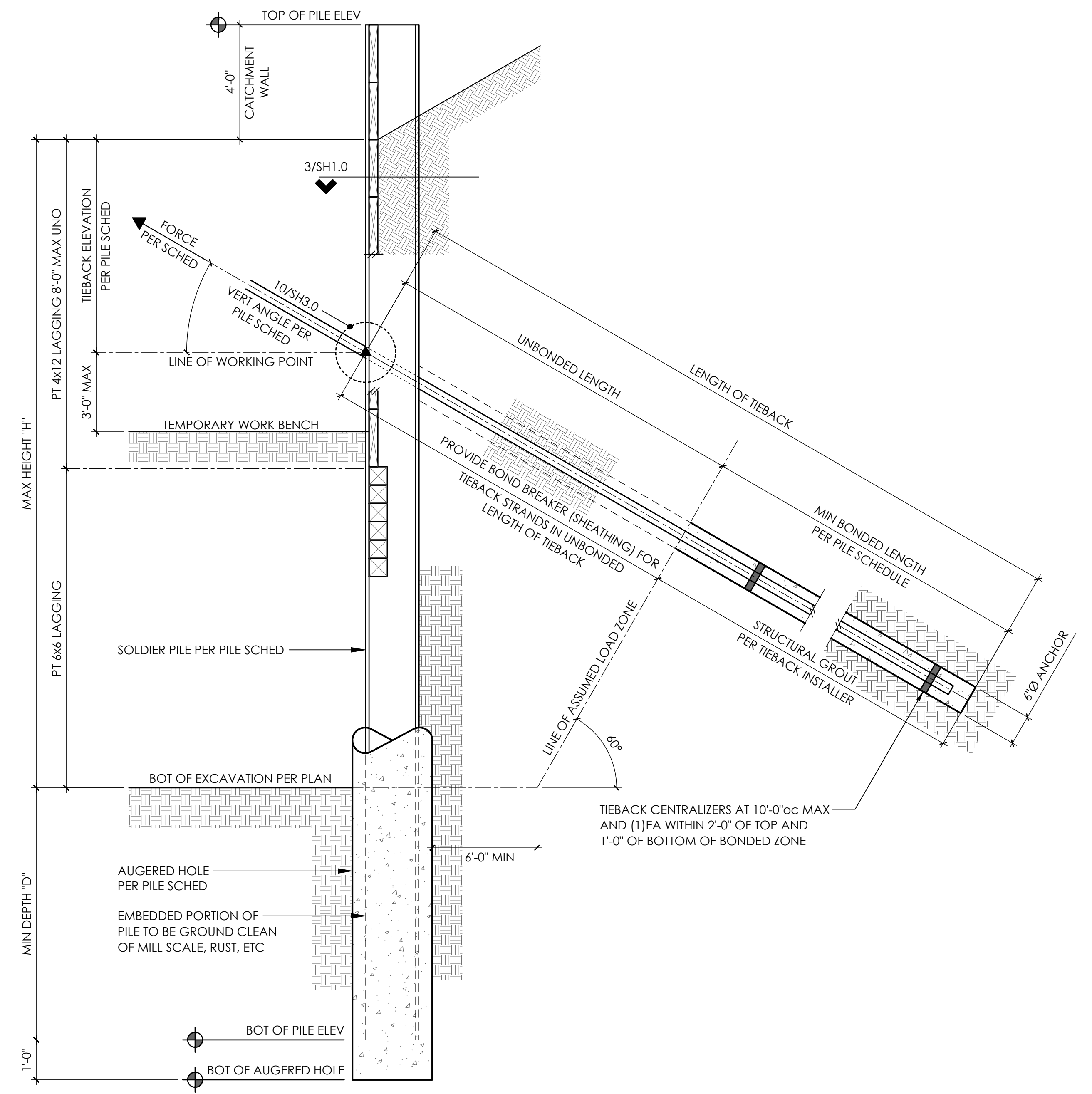
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206.214.5190

TYPICAL TIEBACK
DETAILS

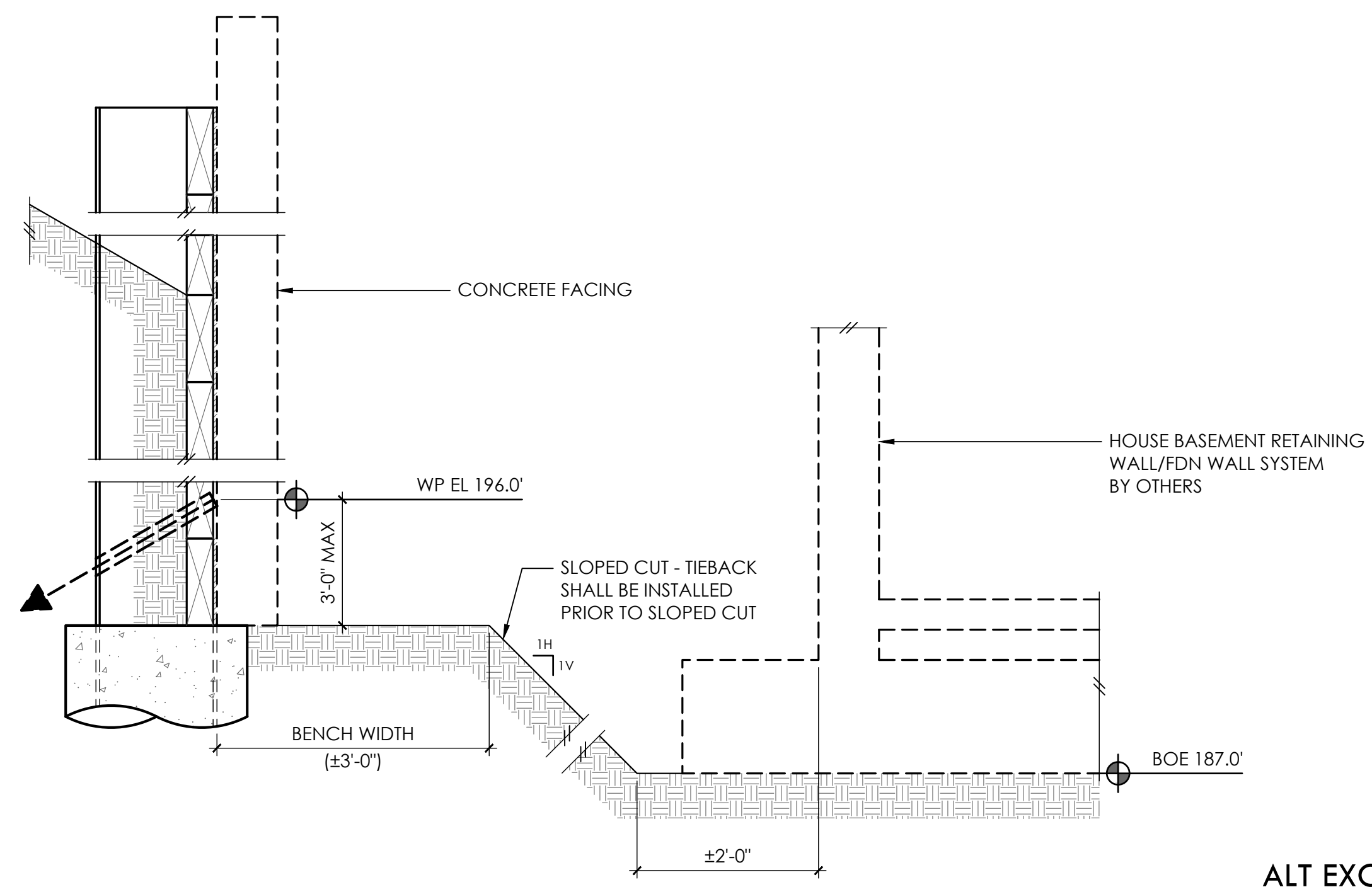
SH3.0
SCALE - 3/4" = 1'-0"



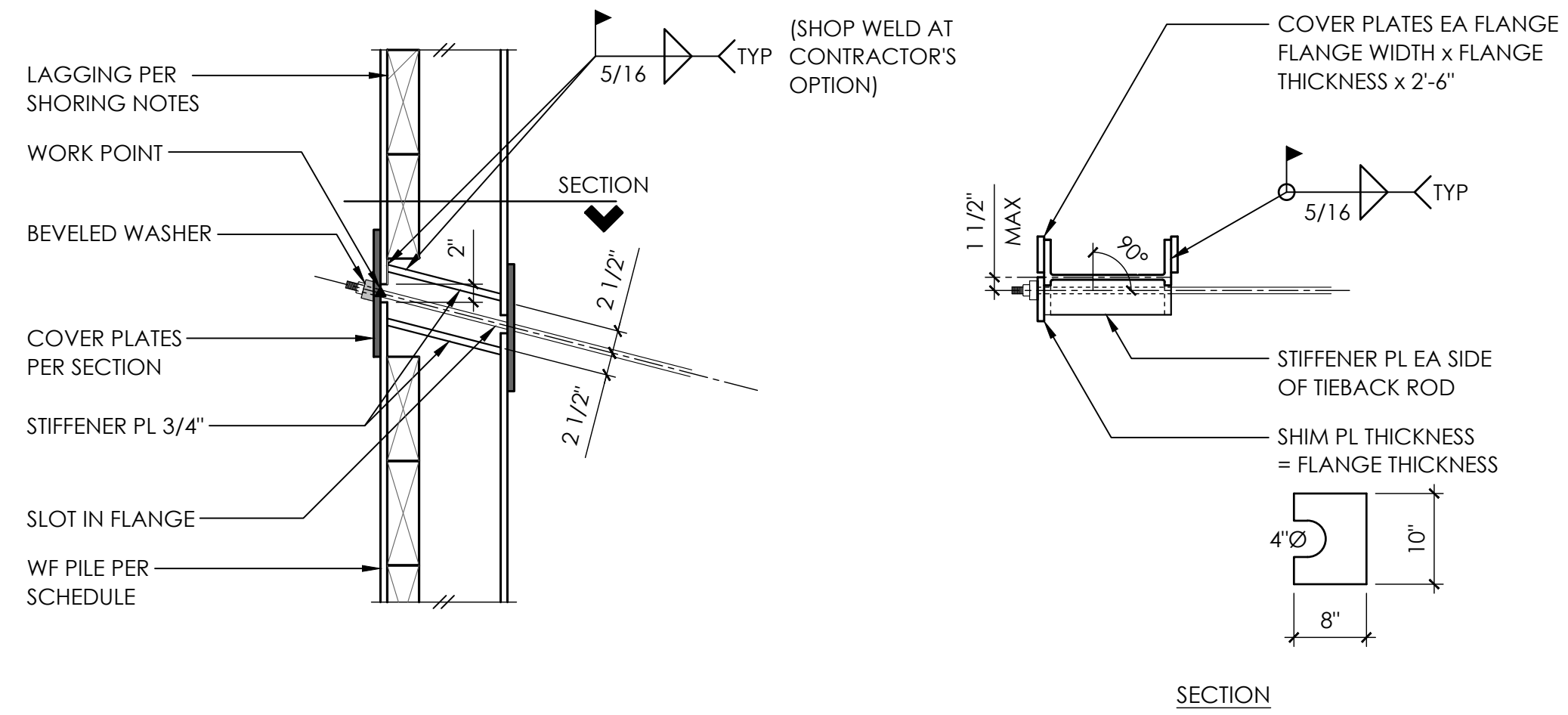
3



1/2" = 1'-0"
TIEBACK PILE 12



ALT EXCAVATION 6

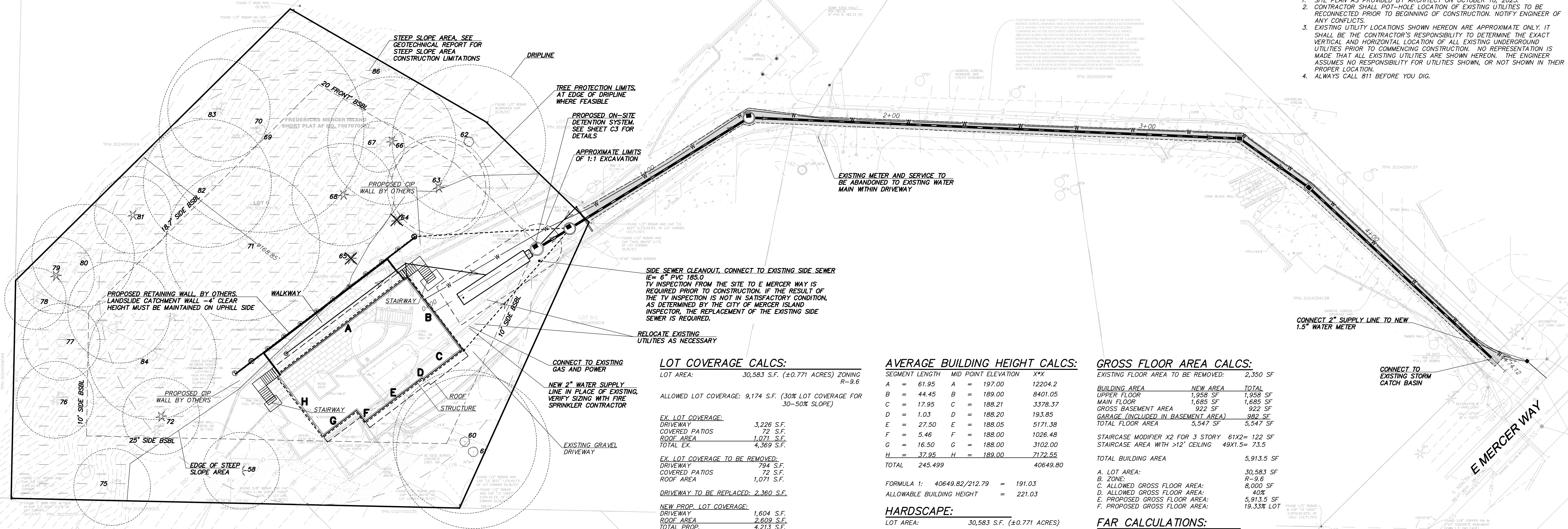


TIEBACK TO PILE CONNECTION 10

SW 1/4 SECTION 30, TOWNSHIP 24 N, RANGE 4 E, W.M.
7929 E. MERCER WAY



GENERAL NOTES:
 1. SITE PLAN AS PROVIDED BY ARCHITECT ON OCTOBER 10, 2023.
 2. CONTRACTOR SHALL POT-HOLE LOCATION OF EXISTING UTILITIES TO BE RECONNECTED PRIOR TO BEGINNING OF CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS.
 3. EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES SHOWN, OR NOT SHOWN IN THEIR PROPER LOCATION.
 4. ALWAYS CALL 811 BEFORE YOU DIG.



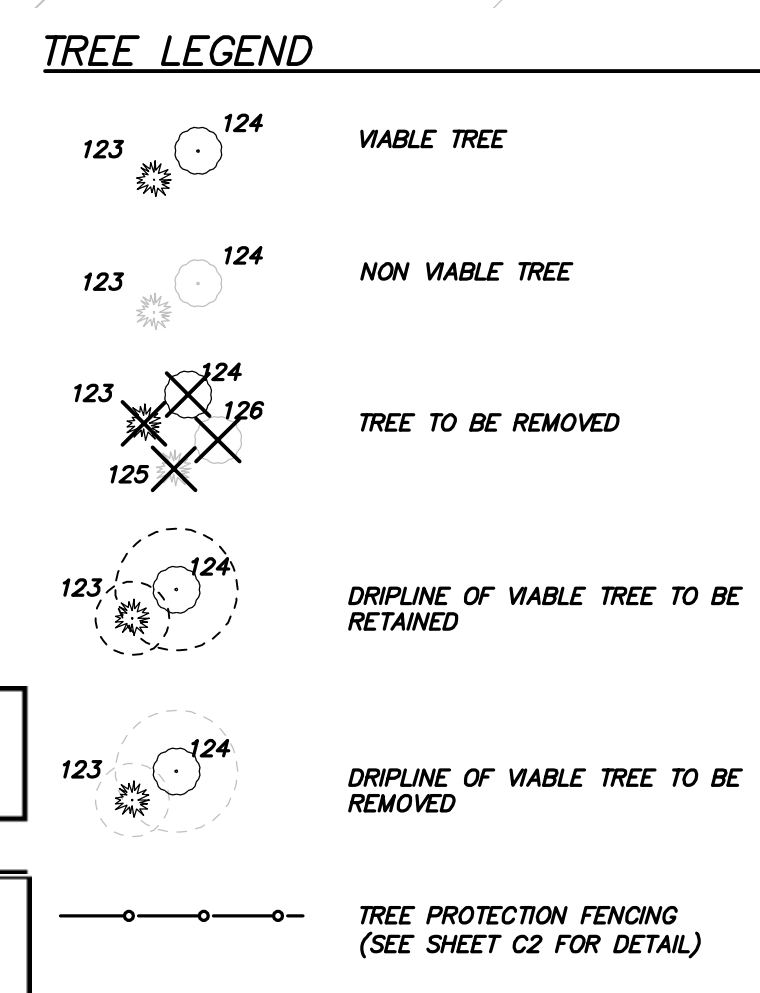
LOT COVERAGE CALCS:
 LOT AREA: 30,583 S.F. (±0.771 ACRES) ZONING R-9.6
 ALLOWED LOT COVERAGE: 9,174 S.F. (30% LOT COVERAGE FOR 30-50% SLOPE)
EX. LOT COVERAGE:
 DRIVEWAY 3,226 S.F.
 COVERED PATIOS 72 S.F.
 ROOF AREA 1,071 S.F.
 TOTAL EX. 4,369 S.F.
EX. LOT COVERAGE TO BE REMOVED:
 DRIVEWAY 794 S.F.
 COVERED PATIOS 72 S.F.
 ROOF AREA 1,071 S.F.
DRIVEWAY TO BE REPLACED: 2,360 S.F.
NEW PROP. LOT COVERAGE:
 DRIVEWAY 1,604 S.F.
 ROOF AREA 2,809 S.F.
 TOTAL PROP. 4,413 S.F.
TOTAL LOT COVERAGE: 5,041 S.F. (16.48%)

AVERAGE BUILDING HEIGHT CALCS:
 SEGMENT LENGTH MID POINT ELEVATION X*X
 A = 61.95 A = 197.00 12204.2
 B = 44.45 B = 189.00 8401.05
 C = 17.95 C = 188.21 3378.37
 D = 1.03 D = 188.20 193.85
 E = 27.50 E = 188.05 5171.39
 F = 5.46 F = 188.00 1026.48
 G = 16.50 G = 188.00 3102.00
 H = 37.95 H = 189.00 7172.55
 TOTAL 245.499 40649.80
FORMULA 1: 40649.82/212.79 = 191.03
ALLOWABLE BUILDING HEIGHT = 221.03

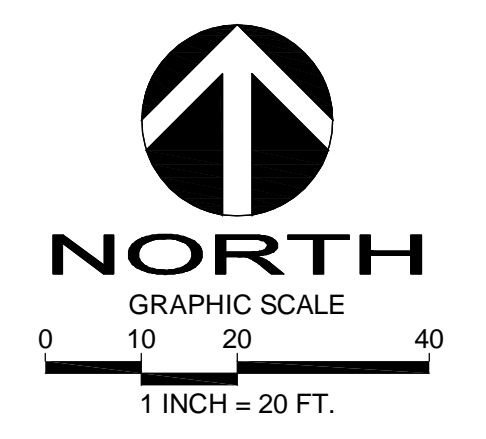
GROSS FLOOR AREA CALCS:
 EXISTING FLOOR AREA TO BE REMOVED: 2,350 SF
BUILDING AREA NEW AREA TOTAL
 UPPER FLOOR 1,958 SF 1,958 SF
 MAIN FLOOR 1,685 SF 1,685 SF
 GROSS BASEMENT AREA 922 SF 922 SF
 GARAGE (INCLUDED IN BASEMENT AREA) 282 SF
 TOTAL FLOOR AREA 5,547 SF
 STAIRCASE MODIFIER X2 FOR 3 STORY 61X2= 122 SF
 STAIRCASE AREA WITH >12' CEILING 49X1.5= 73.5
TOTAL BUILDING AREA 5,913.5 SF
A. LOT AREA: 30,583 SF
B. ZONE: R-9.6
C. ALLOWED GROSS FLOOR AREA: 8,000 SF
D. ALLOWED GROSS FLOOR AREA: 40%
E. PROPOSED GROSS FLOOR AREA: 5,913.5 SF
F. PROPOSED GROSS FLOOR AREA: 19.33% LOT

HARDSCAPE:
 LOT AREA: 30,583 S.F. (±0.771 ACRES)
EX. LOT HARDSCAPE:
 UNCOVERED PATIOS 849 S.F.
 ROCKERIES & WALLS 489 S.F.
 WALKWAYS 203 S.F.
 TOTAL EX. 1,541 S.F.
LOT HARDSCAPE TO BE REMOVED:
 UNCOVERED PATIOS 849 S.F.
 ROCKERIES & WALLS 489 S.F.
 WALKWAYS 203 S.F.
PROP. LOT HARDSCAPE:
 UNCOVERED PATIOS 357 S.F.
 STAIRS 118 S.F.
 SITE WALLS 164 S.F.
 TOTAL PROP. 639 S.F.
PROJECT HARDSCAPE AREA 2.09% OF LOT
YARD SETBACKS:
 FRONT YARD SETBACK: 20 FT
 REAR YARD SETBACK: 25 FT
 SIDE YARD SETBACKS: 28 FT COMBINED
 (188.85' DIAMETER LOT CIRCLE OUTSIDE OF ACCESS EASEMENT)
SITE SLOPE CALCS:
 HIGHEST ELEVATION POINT OF LOT: 268.7'
 LOWEST ELEVATION POINT OF LOT: 176'
 ELEVATION DIFFERENCE: 92.7'
 HORIZONTAL DISTANCE BETWEEN HIGH AND LOW POINTS: 194'
LOT SLOPE: 47.7%

FAR CALCULATIONS:
 MAX FAR = LOT 30,583 * 0.3 = 9,174 SF
 PROPOSED FAR = 5,547 SF < 9,174 SF
BUILDING HEIGHT CALCS:
 A. AVERAGE BUILDING ELEVATION (ABE) CALCULATIONS LOCATED ON SHEET.
 B. ALLOWABLE BUILDING HEIGHT (ABE+30) 221.03 FT
 C. PROPOSED BUILDING HEIGHT 220.13 FT
 D. BENCHMARK ELEVATION 191.14 FT
 E. DESCRIBE BENCHMARK LOCATION F. SLOPING LOT-MAX HEIGHT OF TOP EXTERIOR WALL FACADE ABOVE LOWEST EXISTING GRADE (30-FT MAX): 29'-9.375"



TREE RETENTION CALCULATION
 TOTAL NUMBER OF EXCEPTIONAL TREES: 4
 TOTAL LARGE TREES: 22
 TOTAL Viable ON-SITE TREES: 26
 REQUIRED: 30X Viable TREES: 6
PROPOSED Viable TREES RETAINED: 24
 SEE SHEET C7 AND ARBORIST REPORT FOR TREE RETENTION PLAN



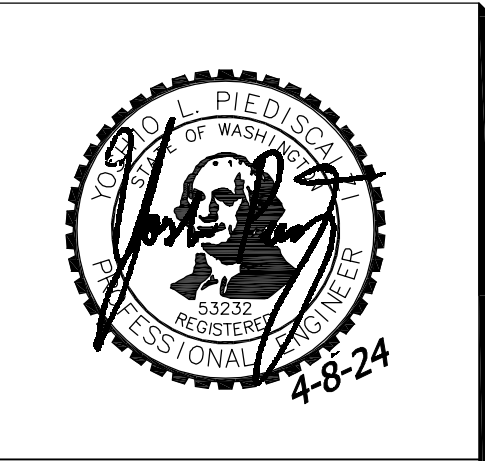
Tree ID	Parcel	Species	Type	DBH (Inches)	Average Dripline (diameter)	CRZ / Limits of Disturbance (radius)	Category	Overall Condition	Overall Risk Rating	Retained or Remove
59	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	27	30'	15'	Large	Good	Low	Retain
Recommendation Requires tree protection measures outlined in sections 8, 10, and 11.										
60	3024059176	Western Hemlock <i>Tsuga heterophylla</i>	Evergreen conifer	20	30'	15'	Large	Good	Low	Retain
Recommendation Requires tree protection measures outlined in sections 8, 10, and 11.										
61	3024059176	English Laurel <i>Prunus laurocerasus</i>	Evergreen	12	30'	15'	Large	Good	Low	Retain
Recommendation Requires tree protection measures outlined in sections 8, 10, and 11.										
62	3024059176	Bigleaf Maple <i>Acer macrophyllum</i>	Deciduous	29	60'	30'	Large	Good	Moderate	Retain
Recommendation Requires tree protection measures outlined in sections 8, 10, and 11.										
63	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	31	30'	15'	Large	Good	Moderate	Retain
Recommendation Requires tree protection measures outlined in sections 8, 10, and 11.										
64	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	22	30'	7'	Large	Good	Moderate	Remove
Recommendation Remove tree to remediate risk to hillside trees.										
65	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	31	30'	8'	Large	Good	Low	Remove
Recommendation Remove tree to remediate risk to hillside trees.										
66	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	39	18'	9'	Exceptional	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
67	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	13	30'	15'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
68	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	38	30'	15'	Exceptional	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										

69	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	23	25'	13'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
70	3024059176	Bigleaf Maple <i>Acer macrophyllum</i>	Deciduous	31	60'	30'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
71	3024059176	Bigleaf Maple <i>Acer macrophyllum</i>	Deciduous	22	60'	30'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
72	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	47	40'	20'	Exceptional	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
73	3024059176	Bigleaf Maple <i>Acer macrophyllum</i>	Deciduous	55	60'	30'	Exceptional	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
75	3024059176	Bigleaf Maple <i>Acer macrophyllum</i>	Deciduous	18	40'	20'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
76	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	20	30'	15'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
77	3024059176	Bigleaf Maple <i>Acer macrophyllum</i>	Deciduous	10	40'	20'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
78	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	14	20'	10'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										

79	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	30	30'	15'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
80	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	22	30'	15'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
81	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	28	30'	15'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
82	3024059176	Bigleaf Maple <i>Acer macrophyllum</i>	Deciduous	10	40'	20'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
83	3024059176	Douglas fir <i>Pseudotsuga menziesii</i>	Evergreen conifer	20	30'	15'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
84	3024059176	Bigleaf Maple <i>Acer macrophyllum</i>	Deciduous	16	40'	20'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										
85	3024059176	Western Hemlock <i>Tsuga heterophylla</i>	Evergreen conifer	12	20'	10'	Large	Good	Low	Retain
Recommendation Will not be impacted by construction activities.										

7929 EAST MERCER WAY
 MERCER ISLAND RESIDENCE
 SITE PLAN
 PARCEL NO. 3024059176
 7929 EAST MERCER WAY
 MERCER ISLAND, WA 98040

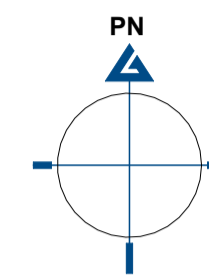
HOA HOANG
 7929 E MERCER WAY
 MERCER ISLAND WA 98040



APR 11 2023
 YLP
 YLP

REVISION
 CITY COMMENTS
 DATE 11.20.23
 4.8.24

DRAFTED BY: RMF
 DESIGNED BY: RMF
 PROJECT ENGINEER: YLP
 DATE: 12.29.22
 PROJECT NO.: 21125
 DRAWING: SP1
 SHEET: 1 OF 1



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION NO.	DESCRIPTION	ISSUED BY	DATE
1	ISSUED FOR CD	ES	7/18/2023
2	CITY COMMENT 2	ES	10/19/2023
1	CITY COMMENTS	ES	4/3/2024
NO.	DESCRIPTION	ISSUED BY	DATE

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL
CUSTOM ELEMENT HOME

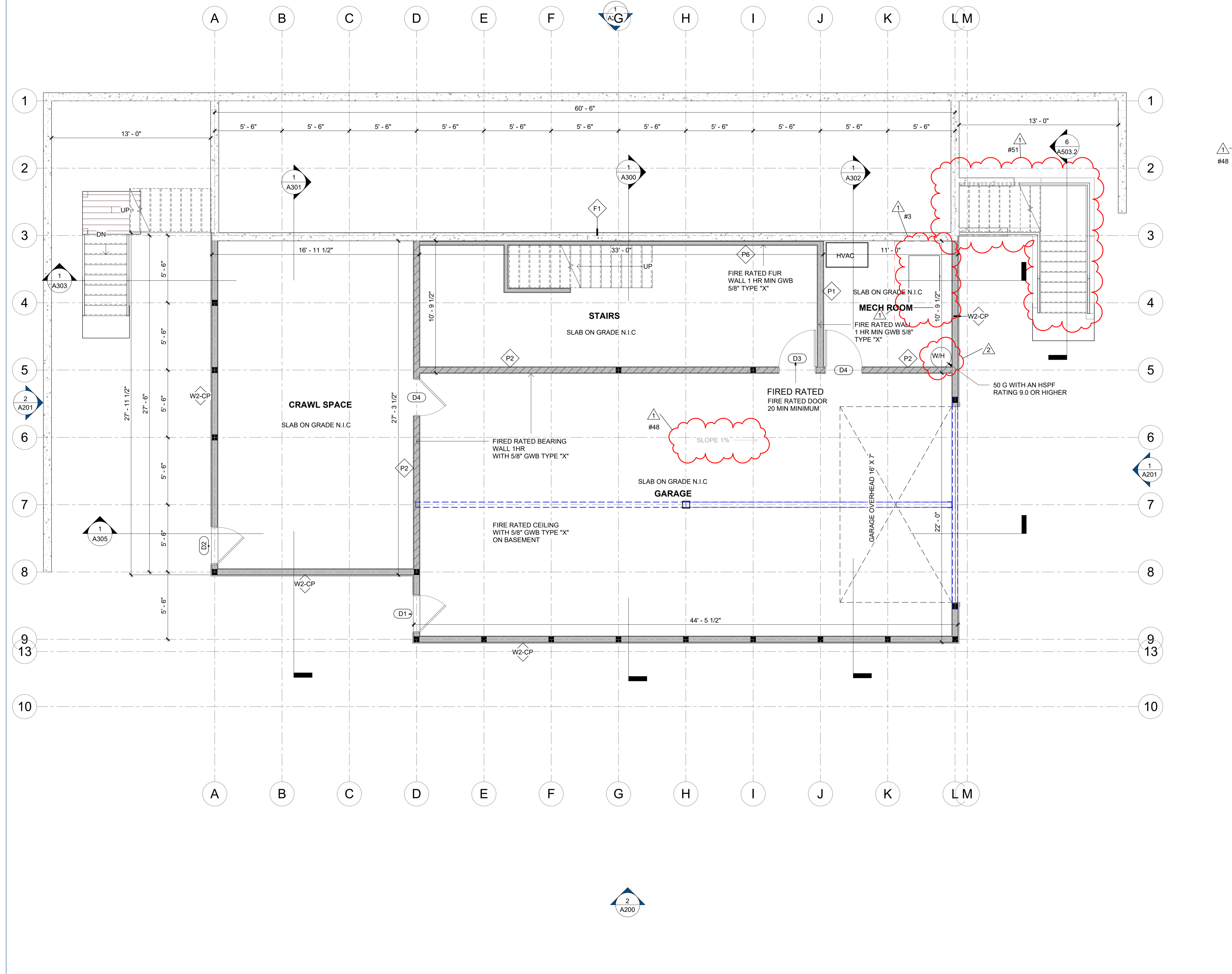
LOWER LEVEL PLAN

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

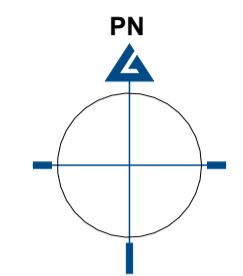
A101

LOWER LEVEL NOTES

- SCALE 1/4" = 1'-0"
- SEE FIRST FLOOR FRAMING PLAN FOR FIRST FLOOR BEAM and HANGER SIZES.
 - L.C.H. IS NOT RESPONSIBLE FOR ANY DESIGN and/or MATERIALS CALLED OUT AS N.I.C. (NOT IN CONTRACT) or BY OTHERS.
 - ALL ELECTRICAL WIRING and FIXTURES, PLUMBING FIXTURES, APPLIANCES, and CABINETS ARE N.I.C. and ARE SHOWN FOR REFERENCE ONLY.
 - REFER TO DOOR and WINDOW INSTALLATION PAGES FOR DETAILS.
 - INTERIOR WALL LINER IS 1/2" GYPSUM WALLBOARD (N.I.C.), TYPICAL.
 - CEMENT BOARD (N.I.C.) IS USED BEHIND PLUMBING FIXTURES FROM FLOOR LEVEL TO 4' ABOVE FLOOR LEVEL. THROUGHOUT TUB and SHOWER ENCLOSURES USE CODE APPROVED BACKER BOARD (BY OTHERS).
 - CEILING LINER BELOW MAIN FLOOR JOISTS IS 5/8" GYPSUM WALLBOARD (N.I.C.), UNLESS NOTED OTHERWISE.
 - DO NOT DRILL HOLES THROUGH POSTS or BEAMS.
 - CLOSET SHELVING and RODS ARE BY OTHERS.
 - AT CONTRACTORS DISCRETION, RAISE WINDOWS TO ALLOW CLEARANCE FOR PRE-FORMED COUNTER/BACKSPLASH ASSEMBLY.
 - LINDAL CEDAR HOMES INC. DOES NOT RECOMMEND THE USE OF ANY FORM OF HUMIDIFIER IN CONDITIONED LIVING SPACES. HUMIDIFIERS ADD MOISTURE THAT MAY PROMOTE MOLD GROWTH, CONDENSATION AND OTHER MOISTURE RELATED PROBLEMS.
 - GARAGE FLOOR SURFACE SHALL BE APPROVED NON-COMBUSTIBLE MATERIAL. SHALL BE SLOPED TO FACILITATE THE MOVEMENT OF LIQUIDS TO A DRAIN OR TOWARD THE MAIN VEHICLE ENTRY DOORWAY COMPLY WITH R309.1
 - WHEN PLANS ARE ON 12" X 18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSIONS.



1 LOWER LEVEL
A101 1/4" = 1'-0"



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION	NO.	DESCRIPTION	ISSUED BY	DATE
1	ES	7/18/2023		
2	ES	10/18/2023		
1	ES	4/3/2024		
1	ES	11/27/2023		

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL
CUSTOM ELEMENT HOME

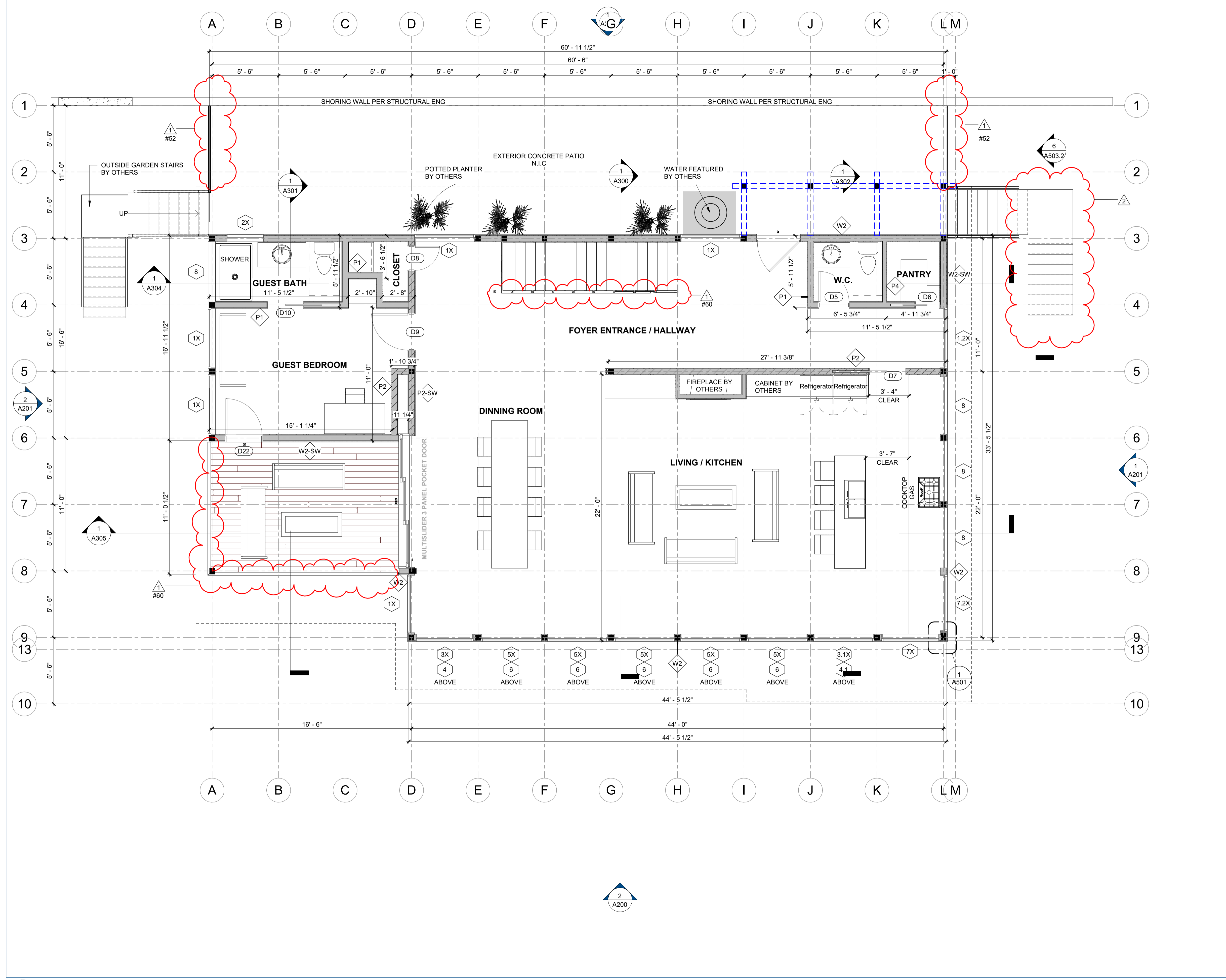
FIRST FLOOR PLAN

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

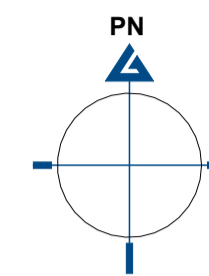
A102

FIRST FLOOR NOTES

- SCALE 1/4" = 1'-0"
- SEE SECOND FLOOR FRAMING PLAN FOR SECOND FLOOR BEAM and HANGER SIZES.
 - L.C.H. IS NOT RESPONSIBLE FOR ANY DESIGN and/or MATERIALS CALLED OUT AS N.I.C. (NOT IN CONTRACT) or BY OTHERS.
 - ALL ELECTRICAL WIRING and FIXTURES, PLUMBING FIXTURES, APPLIANCES, and CABINETS ARE N.I.C. and ARE SHOWN FOR REFERENCE ONLY.
 - REFER TO DOOR and WINDOW INSTALLATION PAGES FOR DETAILS.
 - INTERIOR WALL LINER IS 1/2" GYPSUM WALLBOARD (N.I.C.), TYPICAL. CEMENT BOARD (N.I.C.) IS USED BEHIND PLUMBING FIXTURES FROM FLOOR LEVEL TO 4' ABOVE FLOOR LEVEL. THROUGHOUT TUB and SHOWER ENCLOSURES USE CODE APPROVED BACKER BOARD (N.I.C.).
 - INTERIOR ROOF LINER IS 5/8" GYPSUM WALLBOARD (N.I.C.), UNLESS NOTED OTHERWISE.
 - CEILING LINER BELOW SECOND FLOOR JOISTS IS 5/8" GYPSUM WALLBOARD (N.I.C.), UNLESS NOTED OTHERWISE.
 - DO NOT DRILL HOLES THROUGH POSTS or BEAMS.
 - CLOSET SHELVEING and RODS ARE BY OTHERS.
 - AT CONTRACTORS DISCRETION, RAISE WINDOWS TO ALLOW CLEARANCE FOR PRE-FORMED COUNTER/BACKSPLASH ASSEMBLY.
 - LINDAL CEDAR HOMES INC. DOES NOT RECOMMEND THE USE OF ANY FORM OF HUMIDIFIER IN CONDITIONED LIVING SPACES. HUMIDIFIERS ADD MOISTURE THAT MAY PROMOTE MOLD GROWTH, CONDENSATION AND OTHER MOISTURE RELATED PROBLEMS.
 - RECESSED CANISTER LIGHTING IS NOT TO BE INSTALLED IN ANY INSULATED.
 - CATHEDRAL CEILING. THE USE OF RECESSED, CANISTER LIGHTING REDUCES THE ROOF'S ABILITY TO PERFORM PROPERLY BY INTRODUCING A HEAT SOURCE DIRECTLY INTO THE ROOF CAVITY.
 - WHEN PLANS ARE ON 12"x18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSIONS.



1 1ST FLOOR PLAN
A102 1/4" = 1'-0"



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION	NO.	DESCRIPTION	ISSUED BY	DATE
1	1	CITY COMMENTS	ES	11/27/2020
2	2	CITY COMMENT 2	ES	4/3/2024
3	3	CITY COMMENTS	ES	7/18/2023

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL
CUSTOM ELEMENT HOME

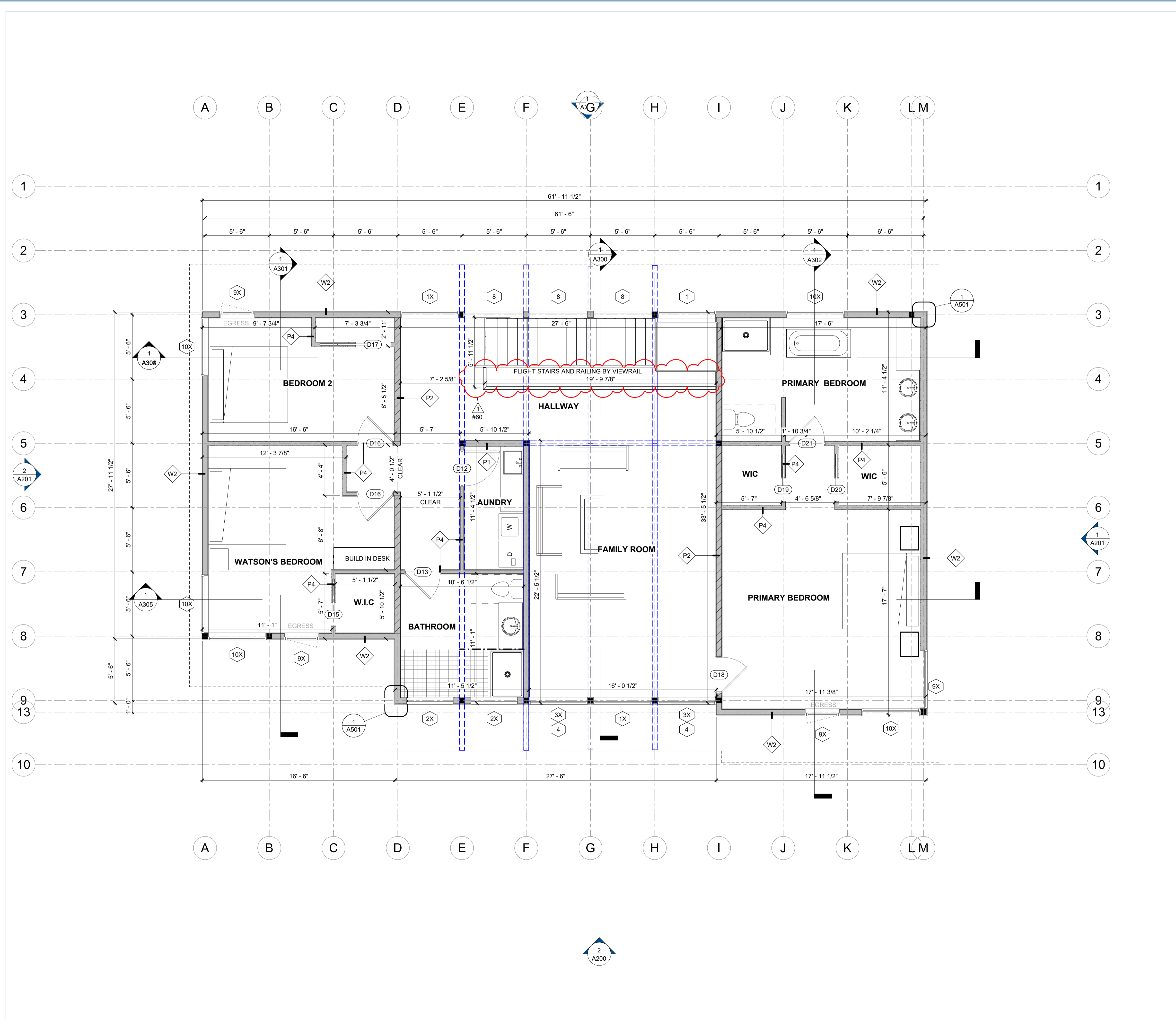
SECOND FLOOR PLAN

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

A103

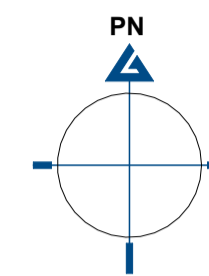
SECOND FLOOR NOTES

- SCALE 1/4" = 1'-0"
- SEE ROOF FRAMING PLAN FOR BEAM, GIRDER and HANGER SIZES.
 - L.C.H. IS NOT RESPONSIBLE FOR ANY DESIGN and/or MATERIALS CALLED OUT AS N.I.C. (NOT IN CONTRACT) or BY OTHERS.
 - ALL ELECTRICAL WIRING and FIXTURES, PLUMBING FIXTURES, APPLIANCES and CABINETS ARE N.I.C. and ARE SHOWN FOR REFERENCE ONLY.
 - REFER TO DOOR and WINDOW INSTALLATION PAGES FOR DETAILS.
 - INTERIOR WALL LINER IS 1/2" GYPSUM WALLBOARD (N.I.C.), TYPICAL. CEMENT BOARD (N.I.C.) IS USED BEHIND PLUMBING FIXTURES FROM FLOOR LEVEL TO 4' ABOVE FLOOR LEVEL. THROUGHOUT TUB and SHOWER ENCLOSURES USE CODE APPROVED BACKER BOARD (N.I.C.)
 - INTERIOR ROOF LINER IS 5/8" GYPSUM WALLBOARD (N.I.C.), UNLESS NOTED OTHERWISE.
 - DO NOT DRILL HOLES THROUGH POSTS or BEAMS.
 - CLOSET SHELVING and RODS ARE BY OTHERS.
 - AT CONTRACTORS DISCRETION, RAISE WINDOWS TO ALLOW CLEARANCE FOR PRE-FORMED COUNTER/BACKSPLASH ASSEMBLY.
 - LINDAL CEDAR HOMES INC. DOES NOT RECOMMEND THE USE OF ANY FORM OF HUMIDIFIER IN CONDITIONED LIVING SPACES. HUMIDIFIERS ADD MOISTURE THAT MAY PROMOTE MOLD GROWTH, CONDENSATION AND OTHER MOISTURE RELATED PROBLEMS.
 - RECESSED CANISTER LIGHTING IS NOT TO BE INSTALLED IN ANY INSULATED CATHEDRAL CEILING. THE USE OF RECESSED CANISTER LIGHTING REDUCES THE ROOF'S ABILITY TO PERFORM PROPERLY BY INTRODUCING A HEAT SOURCE DIRECTLY INTO THE ROOF CAVITY.
 - WHEN PLANS ARE ON 12"x18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSIONS.



ARCH.DWG 48" x 36" LAST PLOT DATE: 4/10/2024 12:20:31 PM

1 02 - SECOND FLOOR PLAN
A103 1/4" = 1'-0"



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION NO.	DESCRIPTION	DATE
1	ISSUED FOR CD	7/18/2023
2	CITY COMMENT 2	10/18/2023
1	CITY COMMENTS	4/3/2024
NO.	DESCRIPTION	ISSUED BY DATE

ISSUANCES

WARRANTY NUMBER

42255

SERIES

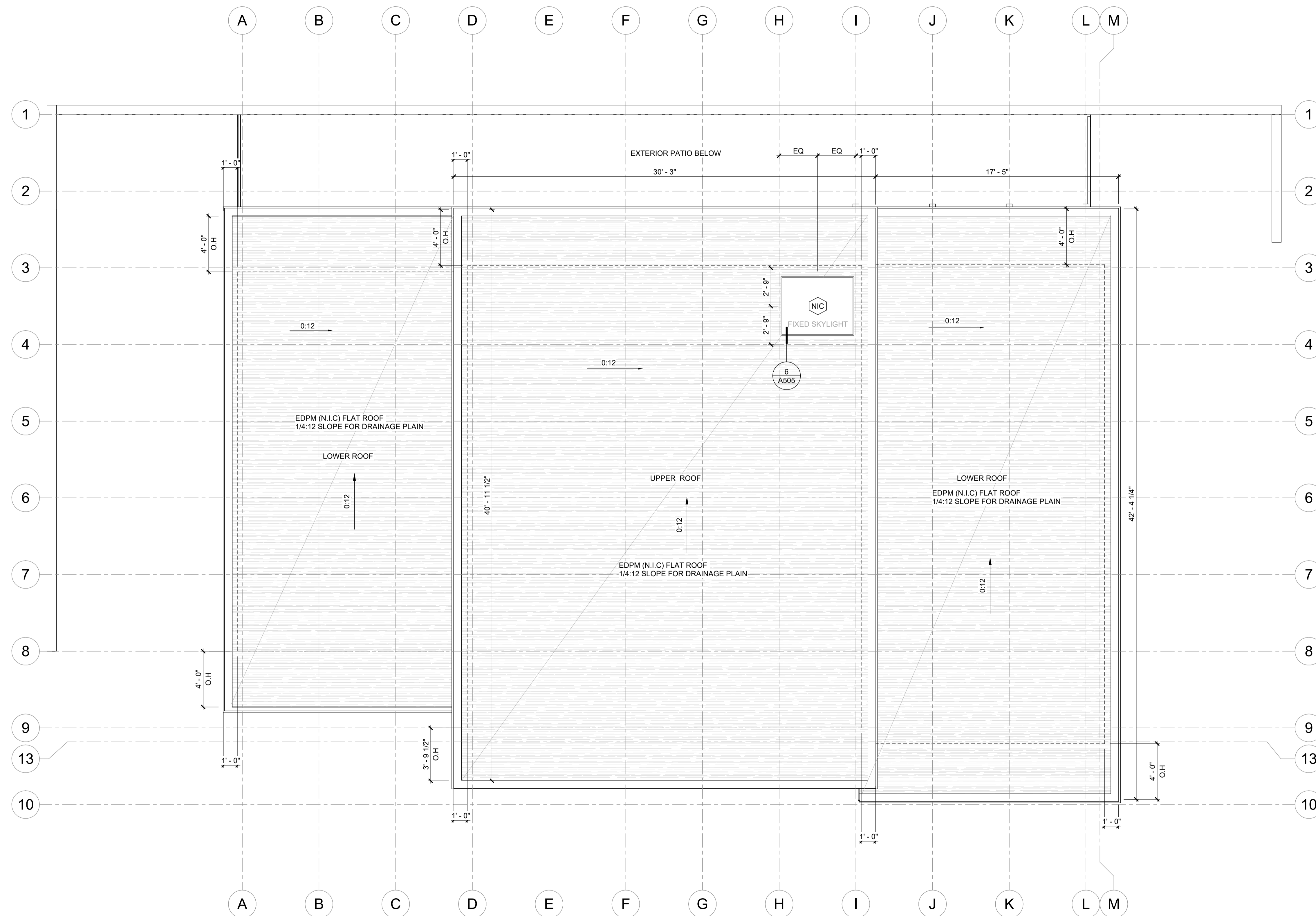


MODEL
CUSTOM ELEMENT HOME

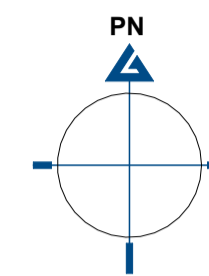
ROOF PLAN

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

A104



1 04 -ROOF PLAN
A104 1/4" = 1'-0"



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION NO.	DESCRIPTION	DATE
1	CITY COMMENTS	11/27/2023
2	CITY COMMENT 2	4/3/2024
ES	ISSUED BY	DATE

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL
CUSTOM ELEMENT HOME

LOWER LEVEL ELECTRICAL

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

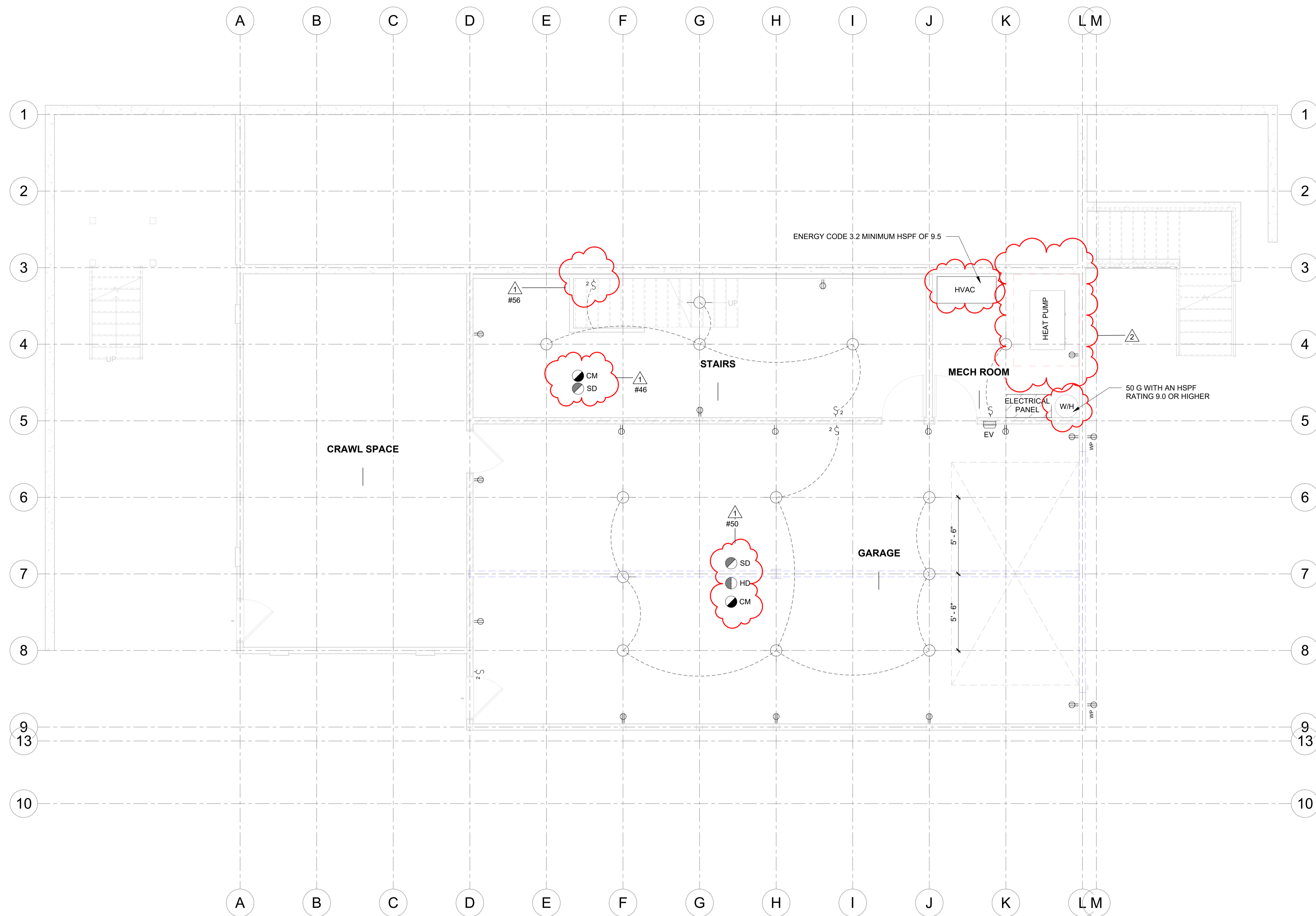
A106

ELECTRICAL PLAN LEGEND:

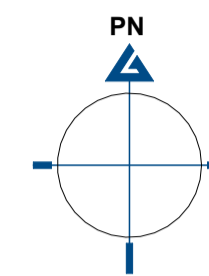
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE FLOOR MOUNTED
	GROUND FAULT CIRCUIT INTERRUPTER RATED RECEPTACLE
	WEATHER PROOF IN USE COVER RECEPTACLE
	DRYER RECEPTACLE
	RANGE RECEPTACLE
	DIRECT CONNECTION
	SINGLE POLE SWITCH
	2-WAY SWITCH
	3-WAY SWITCH

ELECTRICAL SYMBOL KEY

	LIGHT FIXTURE
	LIGHT/EXHAUST FAN FIXTURE
	SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	HEAT DETECTOR
	DUPLEX OUTLET
	220V OUTLET
	DUPLEX OUTLET MOUNTED IN FLOOR
	GROUND FAULT INTERRUPTER OUTLET
	WEATHER PROOF OUTLET
	ELECTRIC VEHICLE OUTLET
	SINGLE POLE LIGHT SWITCH
	THREE WAY SWITCH
	VACANCY SENSOR



ARCH ID: 24_1_30 LAST PLOT DATE: 4/10/2024 12:20:33 PM



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION NO.	DESCRIPTION	DATE
1	ISSUED FOR CD	10/18/2023
2	CITY COMMENT 2	4/3/2024
1	CITY COMMENTS	11/27/2023

NO.	DESCRIPTION	ISSUED BY	DATE

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL
CUSTOM ELEMENT HOME

**FIRST FLOOR
ELECTRICAL**

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

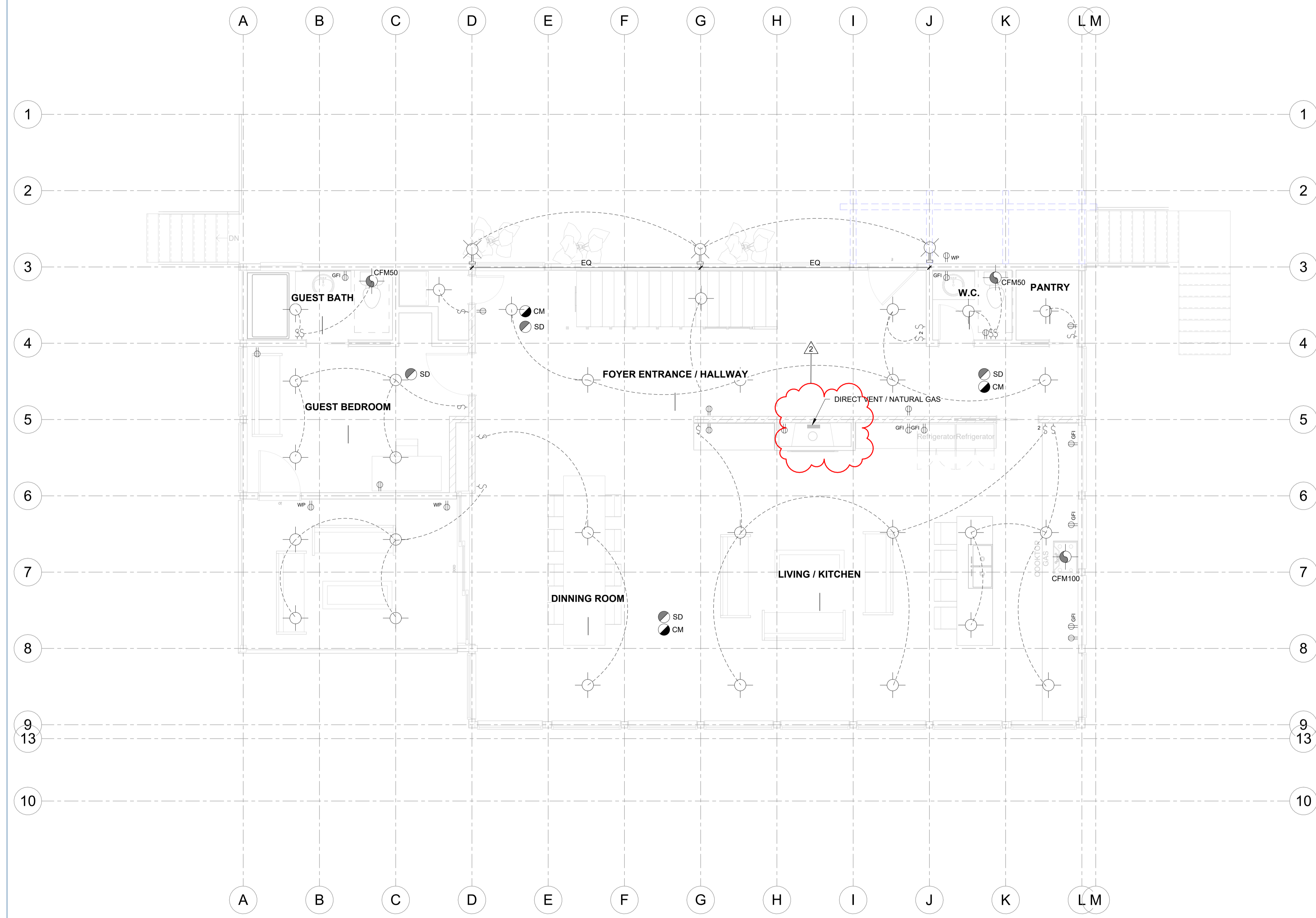
A107

ELECTRICAL PLAN LEGEND:

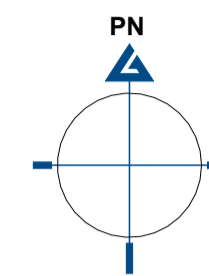
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE FLOOR MOUNTED
	GROUND FAULT CIRCUIT INTERRUPTER RATED RECEPTACLE
	WEATHER PROOF IN USE COVER RECEPTACLE
	DRYER RECEPTACLE
	RANGE RECEPTACLE
	DIRECT CONNECTION
	SINGLE POLE SWITCH
	2-WAY SWITCH
	3-WAY SWITCH

ELECTRICAL SYMBOL KEY

	LIGHT FIXTURE
	LIGHT/EXHAUST FAN FIXTURE
	SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	HEAT DETECTOR
	DUPLEX OUTLET
	220V OUTLET
	DUPLEX OUTLET MOUNTED IN FLOOR
	GROUND FAULT INTERRUPTER OUTLET
	WEATHER PROOF OUTLET
	ELECTRIC VEHICLE OUTLET
	SINGLE POLE LIGHT SWITCH
	THREE WAY SWITCH
	VACANCY SENSOR



1 FIRST FLOOR ELECTRICAL
A107 1/4" = 1'-0"



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION NO.	DESCRIPTION	DATE
1	ISSUED FOR CD	10/18/2023
2	CITY COMMENT 2	4/3/2024
1	CITY COMMENTS	11/27/2023

NO.	DESCRIPTION	ISSUED BY	DATE

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL

CUSTOM ELEMENT HOME

SECOND FLOOR ELECTRICAL

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

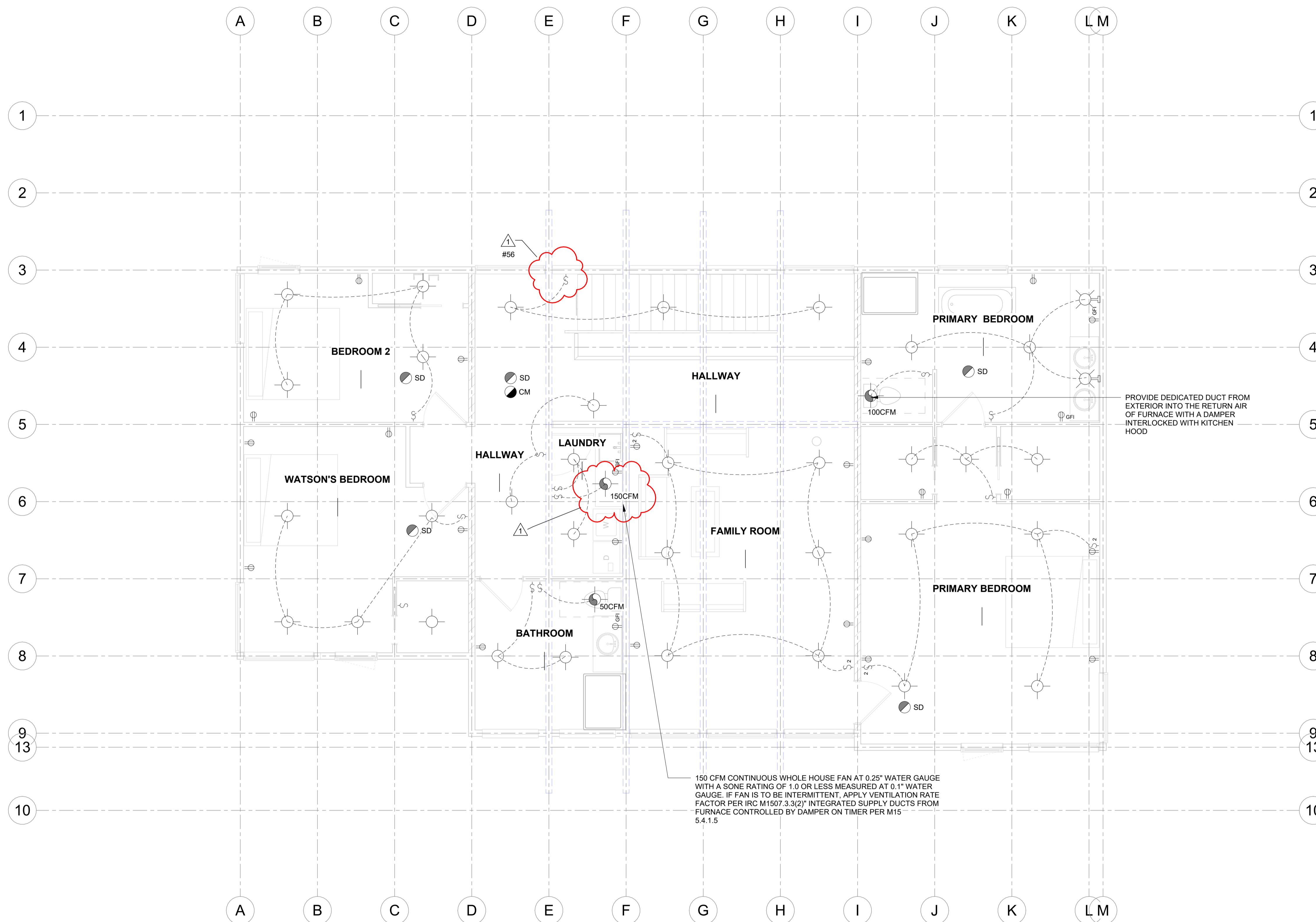
A108

ELECTRICAL PLAN LEGEND:

	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE FLOOR MOUNTED
	GROUND FAULT CIRCUIT INTERRUPTER RATED RECEPTACLE
	WEATHER PROOF IN USE COVER RECEPTACLE
	DRYER RECEPTACLE
	RANGE RECEPTACLE
	DIRECT CONNECTION
	SINGLE POLE SWITCH
	2-WAY SWITCH
	3-WAY SWITCH

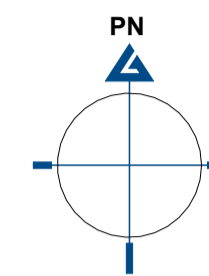
ELECTRICAL SYMBOL KEY

	LIGHT FIXTURE
	LIGHT/EXHAUST FAN FIXTURE
	SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	HEAT DETECTOR
	DUPLEX OUTLET
	220V OUTLET
	DUPLEX OUTLET MOUNTED IN FLOOR
	GROUND FAULT INTERRUPTER OUTLET
	WEATHER PROOF OUTLET
	ELECTRIC VEHICLE OUTLET
	SINGLE POLE LIGHT SWITCH
	THREE WAY SWITCH
	VACANCY SENSOR



150 CFM CONTINUOUS WHOLE HOUSE FAN AT 0.25" WATER GAUGE WITH A SONE RATING OF 1.0 OR LESS MEASURED AT 0.1" WATER GAUGE. IF FAN IS TO BE INTERMITTENT, APPLY VENTILATION RATE FACTOR PER IRC M1507.3.3(2)" INTEGRATED SUPPLY DUCTS FROM FURNACE CONTROLLED BY DAMPER ON TIMER PER M15 5.4.1.5

PROVIDE DEDICATED DUCT FROM EXTERIOR INTO THE RETURN AIR OF FURNACE WITH A DAMPER INTERLOCKED WITH KITCHEN HOOD



PROJECT NORTH

LINDAL DEALER

WARM MODERN LIVING

CLIENT

HOANG INTRACHAT

PROJECT ADDRESS

7929 EAST MERCER WAY
MERCER ISLAND WA 98040

ELEVATION NOTES

SCALE 1/4" = 1'-0"

1. CAULK ALL JOINTS SUBJECT TO AIR and/or WATER INFILTRATION SUCH AS AROUND DOORS, WINDOWS, and BEAMS PROTRUDING THROUGH EXTERIOR WALLS OF BUILDING.
2. EXTERIOR SIDING SHALL BE
 - 1" T&G RANDOM LENGTH ROUGH CEDAR. USE 30 SCARF JOINTS and FACE NAIL PER EXTERIOR WALL DETAILS.
 - 11/16" BEVEL TIGHT KNOT CEDAR. FACE NAIL PER EXTERIOR WALL DETAILS.
 - COMPOSITE SMOOTH PANEL W/ EZ TRIM 4X10.
3. ROOFING IS BY OTHERS.
4. WINDOWS ARE
 - CEDAR FRAME, LOW-E / ARGON GLAZING.
 - MARVIN ELEVATE AND ULTIMATE (BLACK).
5. ALL OPENING WINDOWS WHERE THE SILL IS WITHIN 24" OF THE FLOOR AND AND THE EXTERIOR WALKING OR ROOF SURFACE IS 72" OR MORE BELOW THE WINDOW WILL REQUIRE A 4" MAXIMUM WINDOW LIMITER.
6. SWINGING EXTERIOR DOORS IN EXPOSED LOCATIONS MAY REQUIRE THE ADDITION OF CUSTOMER SUPPLIED STORM DOORS TO ASSIST WITH PREVENTING AIR AND WATER INFILTRATION.
7. EXPOSED GLU-LAM BEAM ENDS ARE TO BE CAPPED WITH FASCIA MATERIAL. SEE ROOF DETAILS FOR INFORMATION.
8. GRADE MUST SLOPE AWAY FROM BUILDING.
9. CONTRACTOR TO VERIFY GRADE LOCATION.
10. CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200 LB LOAD ON TOP RAIL ACTING IN ANY DIRECTION, 719C TABLE R301.5.
11. WHEREVER POSSIBLE LINDAL CEDAR HOMES INC. RECOMMENDS THE USE OF FUTTER AND DOWNSPOUT SYSTEMS. THE DOWNSPOUTS SHOULD DRAIN A MINIMUM OF 5'-0" AWAY FROM THE FOUNDATION OR TO AN APPROVED DRAINAGE SYSTEM.
12. WHEN PLANS ARE ON 12"x18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSION.

NOTE:
COLORS & PATTERNS ASSOCIATED WITH FINISH MATERIAL MUST BE COORDINATED WITH DSS AND A SUBMITTED COLOUR APPROVAL FORM SIGNED AND APPROVED BY THE CLIENT AND OR DEALER.

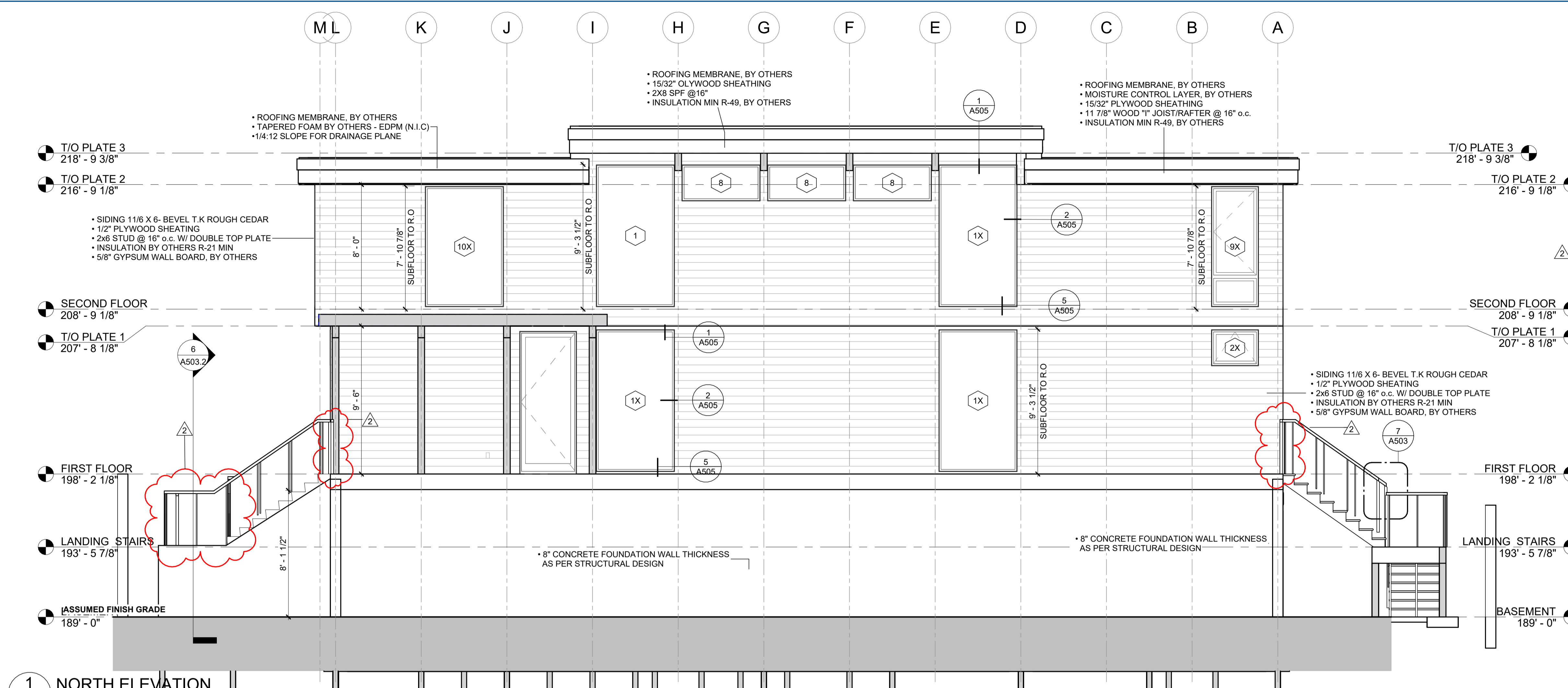
F-XXX-# FINISH MARK TYPE AS PER LEGEND AND SCHEDULE. DENOTES ONLY EXTERIOR MATERIAL FINISH.

MATERIAL FINISH LEGEND:

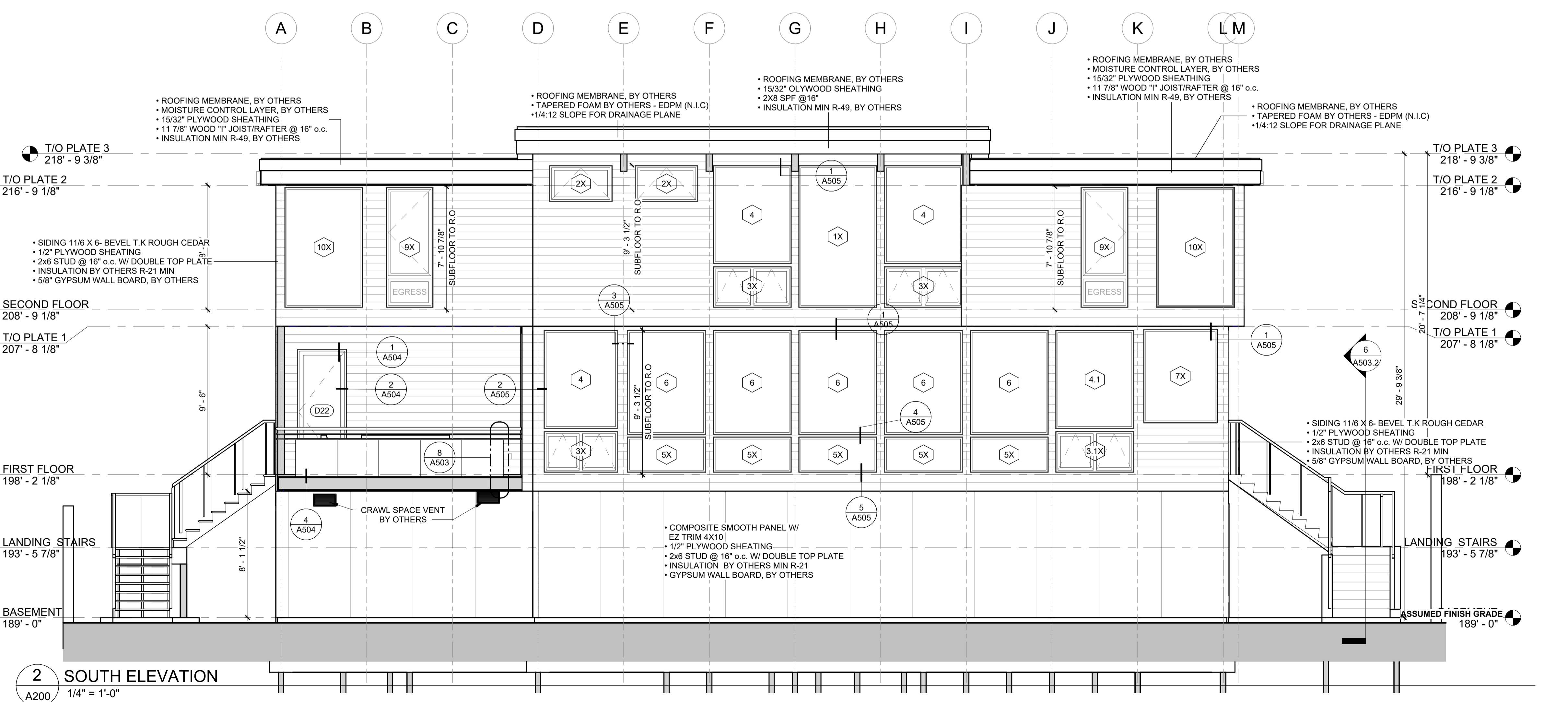
F-DRT #	DOOR TRIM	F-SDG #	SIDING
F-WNT #	WINDOW TRIM	F-FAS #	FASCIA
F-WLT #	EXT. WALL TRIM	F-SOF #	SOFFIT

MATERIAL FINISH

MARK	PRE FINISH	COMMENTS
F-DRT 1	DOOR TRIM FINISH AS PER DSS	
F-FAS 1	FASCIA FINISH AS PER DSS	
F-SDG 1	SIDING FINISH AS PER DSS	
F-SOF 1	SOFFIT FINISH AS PER DSS	
F-WLT 1	WALL TRIM FINISH AS PER DSS	
F-WNT 1	WINDOW TRIM FINISH AS PER DSS	



1 NORTH ELEVATION
A200 1/4" = 1'-0"



2 SOUTH ELEVATION
A200 1/4" = 1'-0"

REVISION NO.	DESCRIPTION	DATE
1	ISSUED FOR CD	7/18/2023
2	CITY COMMENT 2	10/19/2023
		4/30/2024

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL

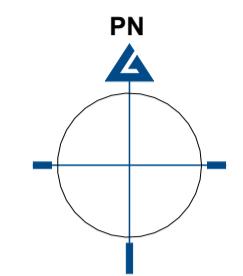
CUSTOM ELEMENT HOME

NORTH & SOUTH ELEVATIONS

Scale: As indicated

A200

ARCHD 24" x 36" 4/10/2024 12:20:30 LAST PLOT DATE



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

ELEVATION NOTES

- SCALE 1/4" = 1'-0"
1. CALK ALL JOINTS SUBJECT TO AIR and/or WATER INFILTRATION SUCH AS AROUND DOORS, WINDOWS, and BEAMS PROTRUDING THROUGH EXTERIOR WALLS OF BUILDING.
 2. EXTERIOR SIDING SHALL BE
 - 1" T&G RANDOM LENGTH ROUGH CEDAR. USE 30 SCARF JOINTS and FACE NAIL PER EXTERIOR WALL DETAILS.
 - 11/16" BEVEL TIGHT KNOT CEDAR. FACE NAIL PER EXTERIOR WALL DETAILS.
 - COMPOSITE SMOOTH PANEL W/ EZ TRIM 4X10.
 3. ROOFING IS BY OTHERS.
 4. WINDOWS ARE
 - CEDAR FRAME, LOW-E / ARGON GLAZING.
 - MARVIN ELEVATE AND ULTIMATE (BLACK).
 5. ALL OPENING WINDOWS WHERE THE SILL IS WITHIN 24" OF THE FLOOR AND AND THE EXTERIOR WALKING OR ROOF SURFACE IS 72" OR MORE BELOW THE WINDOW WILL REQUIRE A 4" MAXIMUM WINDOW LIMITER.
 6. SWINGING EXTERIOR DOORS IN EXPOSED LOCATIONS MAY REQUIRE THE ADDITION OF CUSTOMER SUPPLIED STORM DOORS TO ASSIST WITH PREVENTING AIR AND WATER INFILTRATION.
 7. EXPOSED GLU-LAM BEAM ENDS ARE TO BE CAPPED WITH FASCIA MATERIAL. SEE ROOF DETAILS FOR INFORMATION.
 8. GRADE MUST SLOPE AWAY FROM BUILDING.
 9. CONTRACTOR TO VERIFY GRADE LOCATION.
 10. CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200 LB LOAD ON TOP RAIL ACTING IN ANY DIRECTION, 7IRC TABLE R301.5.
 11. WHENEVER POSSIBLE, LINDAL CEDAR HOMES INC. RECOMMENDS THE USE OF FUTTER AND DOWNSPOUT SYSTEMS. THE DOWNSPOUTS SHOULD DRAIN A MINIMUM OF 5'-0" AWAY FROM THE FOUNDATION OR TO AN APPROVED DRAINAGE SYSTEM.
 12. WHEN PLANS ARE ON 12"x18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSION.

NOTE:
COLORS & PATTERNS ASSOCIATED WITH FINISH MATERIAL MUST BE COORDINATED WITH DSS AND A SUBMITTED COLOUR APPROVAL FORM SIGNED AND APPROVED BY THE CLIENT AND OR DEALER.

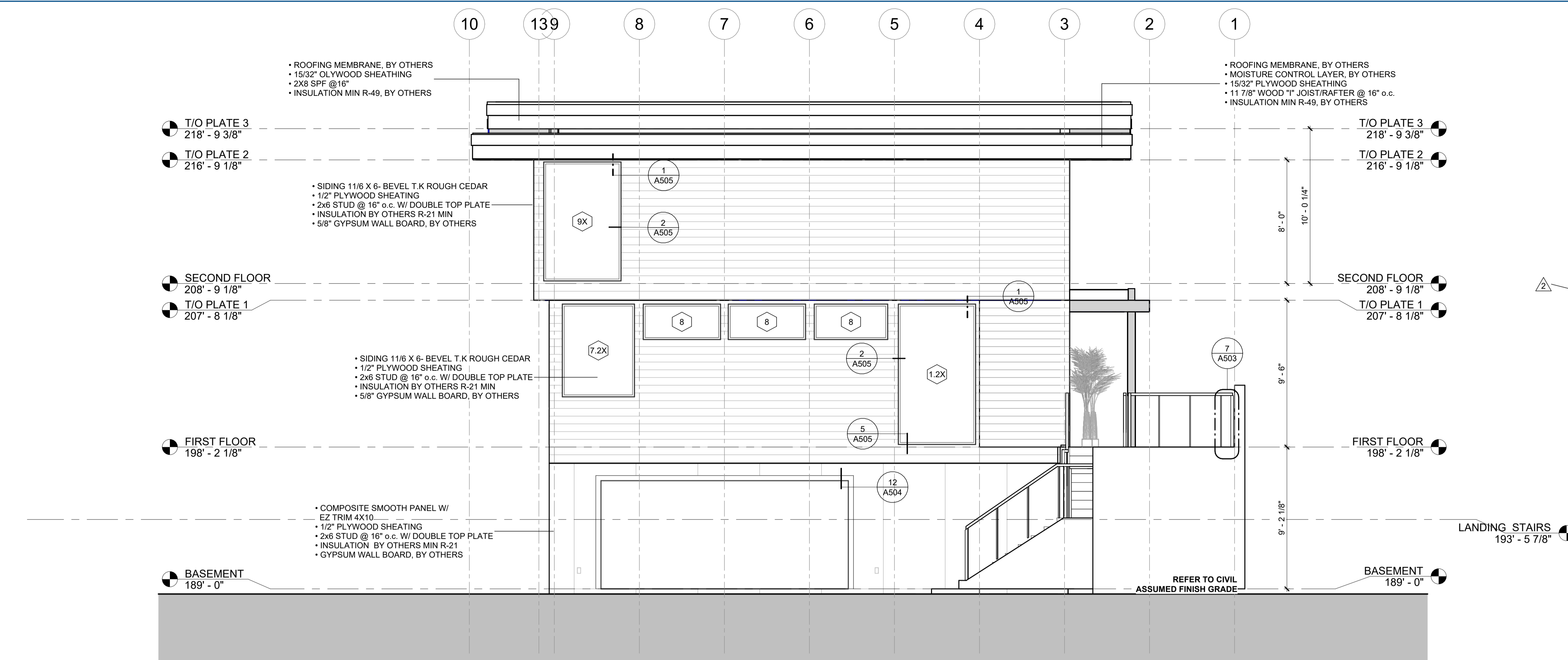
F-XXX-# FINISH MARK TYPE AS PER LEGEND AND SCHEDULE. DENOTES ONLY EXTERIOR MATERIAL FINISH.

MATERIAL FINISH LEGEND:

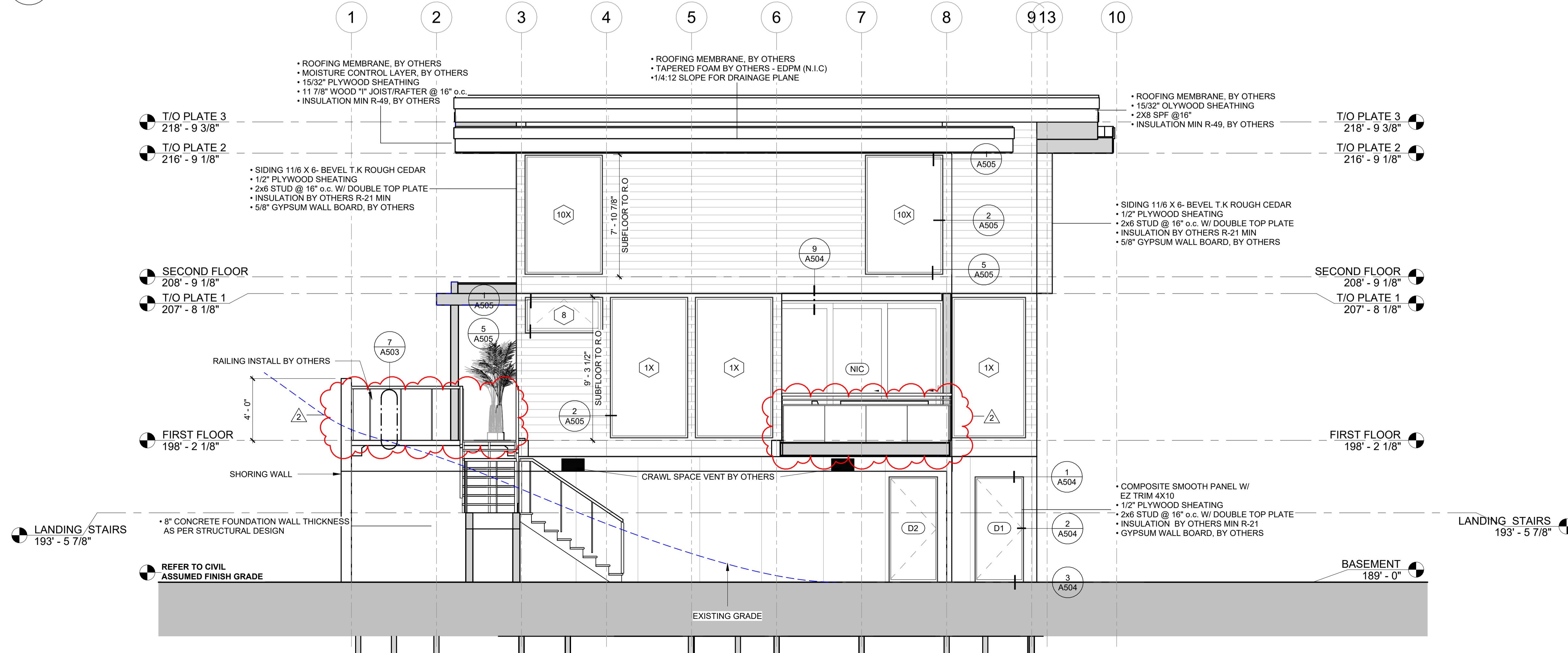
F-DRT #	DOOR TRIM	F-SDG #	SIDING
F-WNT #	WINDOW TRIM	F-FAS #	FASCIA
F-WLT #	EXT. WALL TRIM	F-SOF #	SOFFIT

MATERIAL FINISH

MARK	PRE FINISH	COMMENTS
F-DRT 1	DOOR TRIM FINISH AS PER DSS	
F-FAS 1	FASCIA FINISH AS PER DSS	
F-SDG 1	SIDING FINISH AS PER DSS	
F-SOF 1	SOFFIT FINISH AS PER DSS	
F-WLT 1	WALL TRIM FINISH AS PER DSS	
F-WNT 1	WINDOW TRIM FINISH AS PER DSS	



1 EAST ELEVATION
A201 1/4" = 1'-0"



2 WEST ELEVATION
A201 1/4" = 1'-0"

REVISION NO.	DESCRIPTION	DATE
1	ISSUED FOR CD	7/18/2023
2	CITY COMMENT 2	10/19/2023
NO.	DESCRIPTION	ISSUED BY DATE

ISSUANCES

WARRANTY NUMBER

42255

SERIES



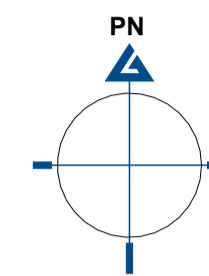
MODEL

CUSTOM ELEMENT HOME

EAST & WEST ELEVATIONS

Scale: As indicated

A201



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION NO.	DESCRIPTION	DATE
1	CITY COMMENTS	11/27/2023
2	CITY COMMENT 2	4/3/2024

NO.	DESCRIPTION	ISSUED BY	DATE
1		ES	7/18/2023
2		ES	10/19/2023
3		ES	11/27/2023

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL

CUSTOM ELEMENT HOME

BUILDING SECTION 1

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

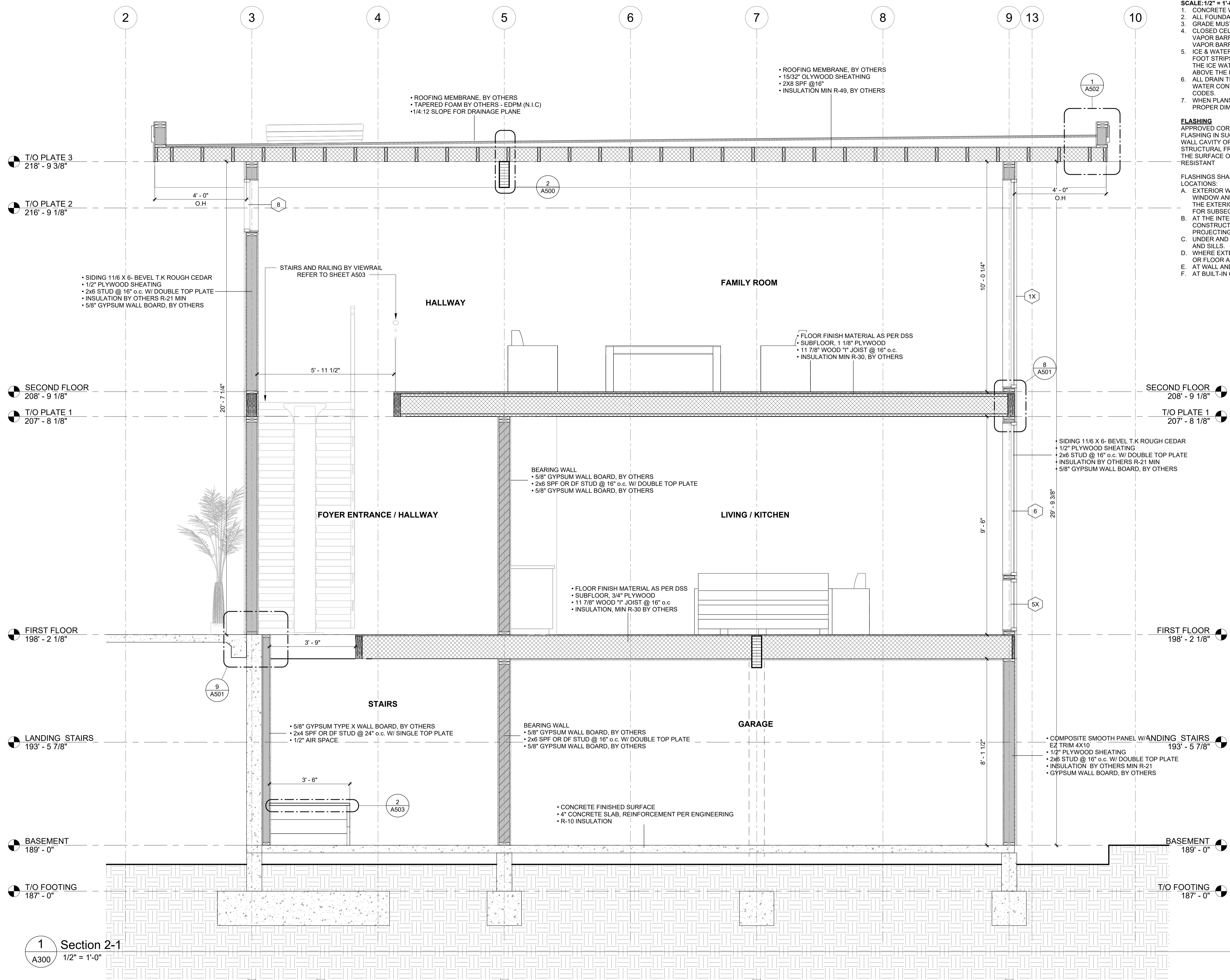
A300

CROSS SECTION NOTES

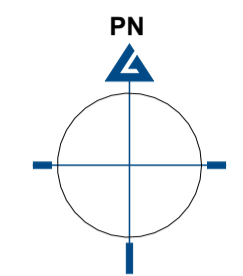
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 - WHEN PLANS ARE ON 11"x17" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSIONS.

FLASHING
APPROVED CORROSION-RESISTANT FLASHING SHALL BE SHINGLE FLASHING IN SUCH A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. APPROVED CORROSION-RESISTANT

- FLASHINGS SHALL BE INSTALLED AT ALL OF THE FOLLOWING LOCATIONS:
- EXTERIOR WINDOW AND DOOR OPENINGS. FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER-RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE.
 - AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS.
 - UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS.
 - WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION.
 - AT WALL AND ROOF INTERSECTIONS.
 - AT BUILT-IN GUTTERS.



1 Section 2-1
A300 1/2" = 1'-0"



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

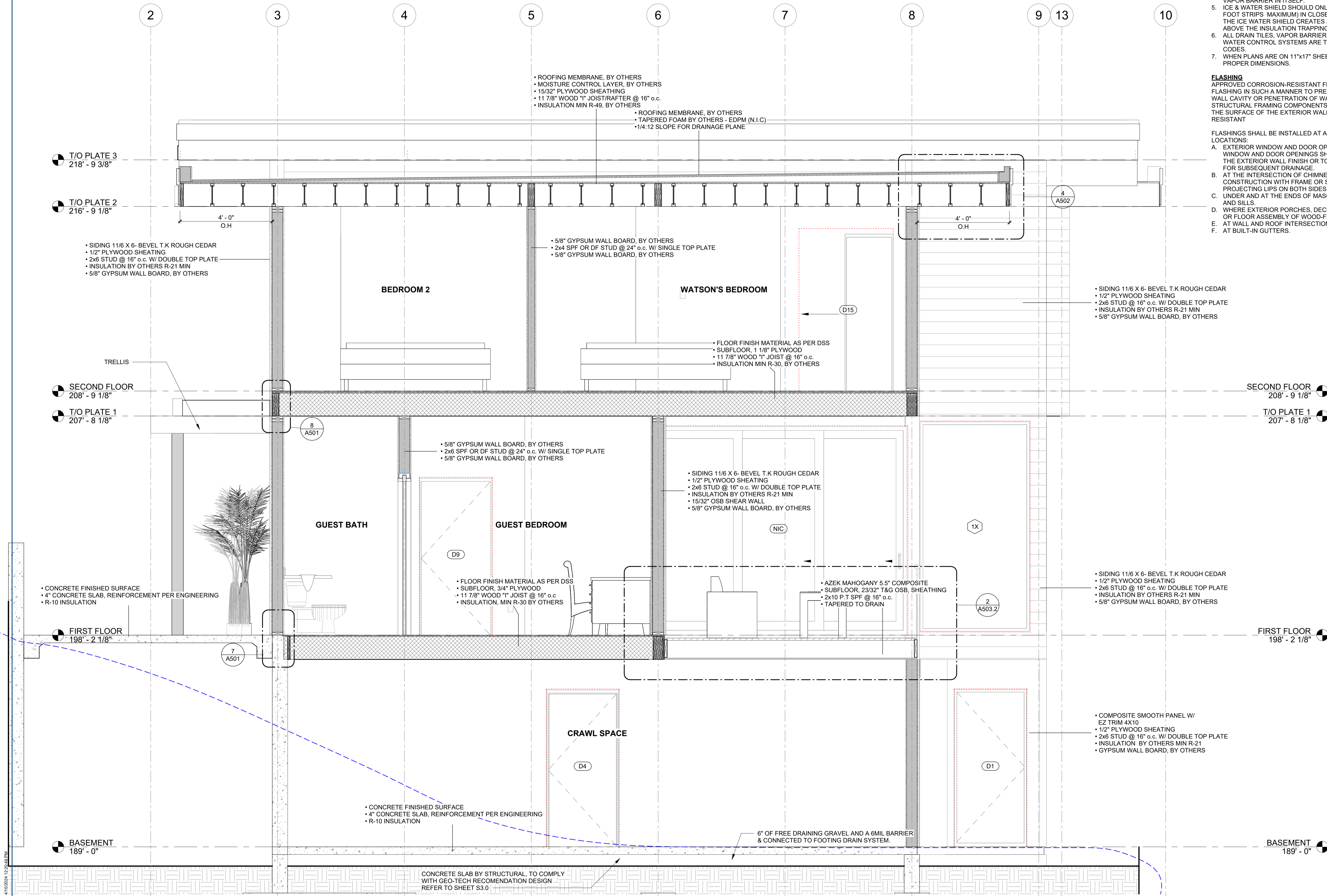
PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

CROSS SECTION NOTES

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 - E. AT WALL AND ROOF INTERSECTIONS.
 - F. AT BUILT-IN GUTTERS.



ARCH: D 24" x 36" LAST PLOT DATE: 4/10/2024 12:20:03 PM

1 Section 1
A301 1/2" = 1'-0"

REVISION NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/27/2023
2	CITY COMMENT 2	ES	4/3/2024

ISSUANCES

WARRANTY NUMBER

42255

SERIES

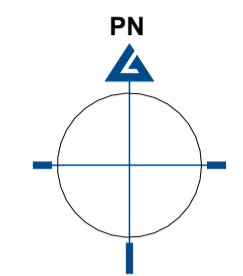


MODEL
CUSTOM ELEMENT HOME

BUILDING SECTION 2

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

A301



PROJECT NORTH

LINDAL DEALER

WARM MODERN LIVING

CLIENT

HOANG INTRACHAT

PROJECT ADDRESS

7929 EAST MERCER WAY
MERCER ISLAND WA 98040

CROSS SECTION NOTES

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

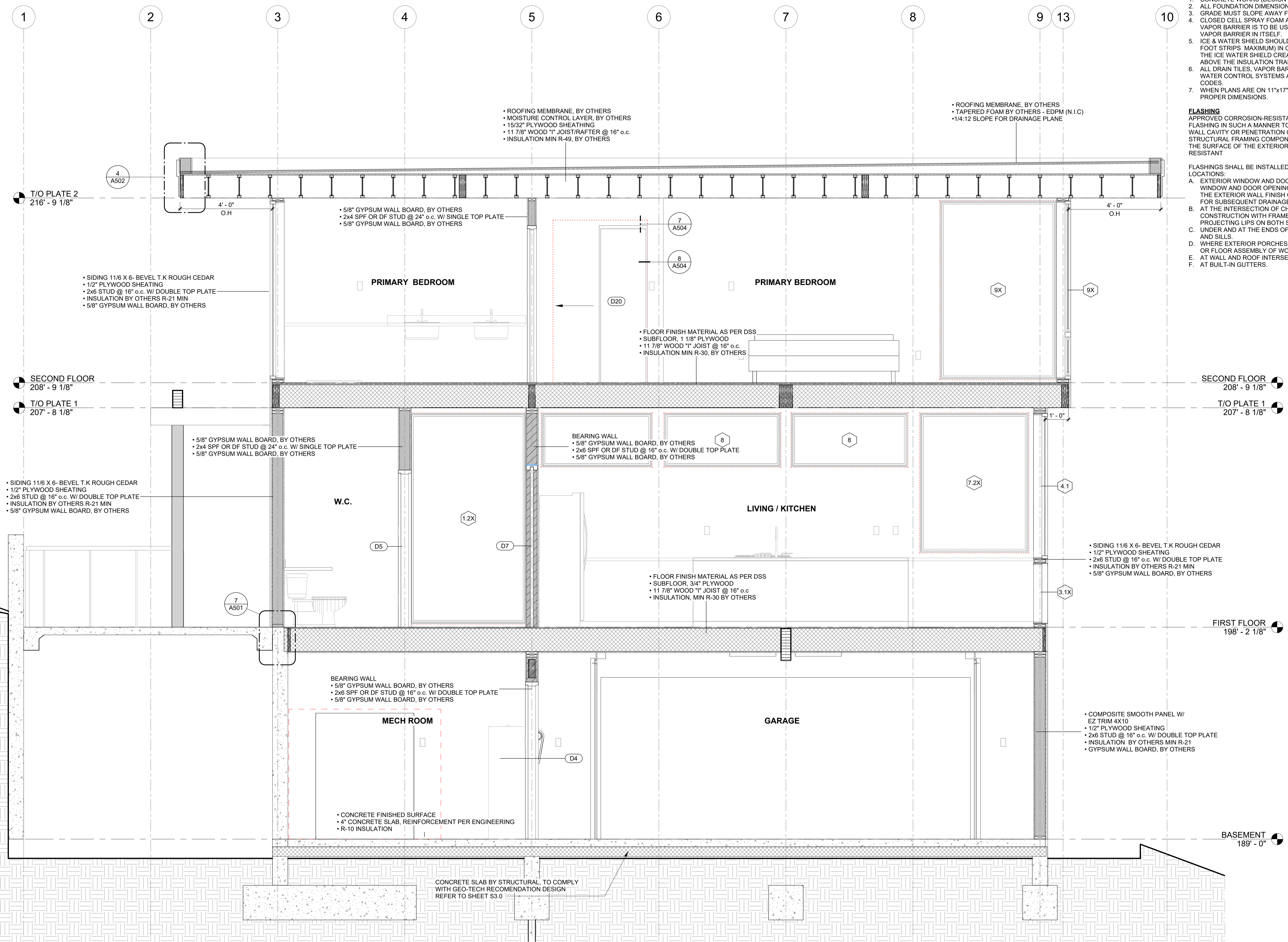
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- E. AT WALL AND ROOF INTERSECTIONS.
- F. AT BUILT-IN GUTTERS.



• ROOFING MEMBRANE, BY OTHERS
• MOISTURE CONTROL LAYER, BY OTHERS
• 15/32" PLYWOOD SHEATHING
• 11 7/8" WOOD "T" JOIST/RAFTER @ 16" o.c.
• INSULATION MIN R-49, BY OTHERS

• ROOFING MEMBRANE, BY OTHERS
• TAPERED FOAM BY OTHERS - EDPM (N.I.C)
• 1/4"-12 SLOPE FOR DRAINAGE PLANE

• 5/8" GYPSUM WALL BOARD, BY OTHERS
• 2x4 SPF OR DF STUD @ 24" o.c. W/ SINGLE TOP PLATE
• 5/8" GYPSUM WALL BOARD, BY OTHERS

• FLOOR FINISH MATERIAL AS PER DSS
• SUBFLOOR, 1 1/8" PLYWOOD
• 11 7/8" WOOD "T" JOIST @ 16" o.c.
• INSULATION MIN R-30, BY OTHERS

BEARING WALL
• 5/8" GYPSUM WALL BOARD, BY OTHERS
• 2x6 SPF OR DF STUD @ 16" o.c. W/ DOUBLE TOP PLATE
• 5/8" GYPSUM WALL BOARD, BY OTHERS

• FLOOR FINISH MATERIAL AS PER DSS
• SUBFLOOR, 3/4" PLYWOOD
• 11 7/8" WOOD "T" JOIST @ 16" o.c.
• INSULATION, MIN R-30 BY OTHERS

• SIDING 11/6 X 6- BEVEL T.K ROUGH CEDAR
• 1/2" PLYWOOD SHEATHING
• 2x6 STUD @ 16" o.c. W/ DOUBLE TOP PLATE
• INSULATION BY OTHERS R-21 MIN
• 5/8" GYPSUM WALL BOARD, BY OTHERS

BEARING WALL
• 5/8" GYPSUM WALL BOARD, BY OTHERS
• 2x6 SPF OR DF STUD @ 16" o.c. W/ DOUBLE TOP PLATE
• 5/8" GYPSUM WALL BOARD, BY OTHERS

• CONCRETE FINISHED SURFACE
• 4" CONCRETE SLAB, REINFORCEMENT PER ENGINEERING
• R-10 INSULATION

• COMPOSITE SMOOTH PANEL W/
EZ TRIM 4X10
• 1/2" PLYWOOD SHEATHING
• 2x6 STUD @ 16" o.c. W/ DOUBLE TOP PLATE
• INSULATION BY OTHERS MIN R-21
• GYPSUM WALL BOARD, BY OTHERS

CONCRETE SLAB BY STRUCTURAL, TO COMPLY WITH GEOTECH RECOMMENDATION DESIGN REFER TO SHEET S3.0

REVISION NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/27/2023
2	CITY COMMENT 2	ES	4/3/2024

ISSUANCES

WARRANTY NUMBER

42255

SERIES



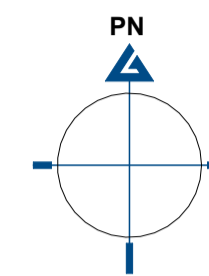
MODEL

CUSTOM ELEMENT HOME

BUILDING SECTION 3

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

A302



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION NO.	DESCRIPTION	DATE
1	CITY COMMENTS	11/27/2023
2	CITY COMMENT 2	4/3/2024
ES	ISSUED BY	DATE

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL
CUSTOM ELEMENT HOME

BUILDING SECTION 4A

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

A303

CROSS SECTION NOTES

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

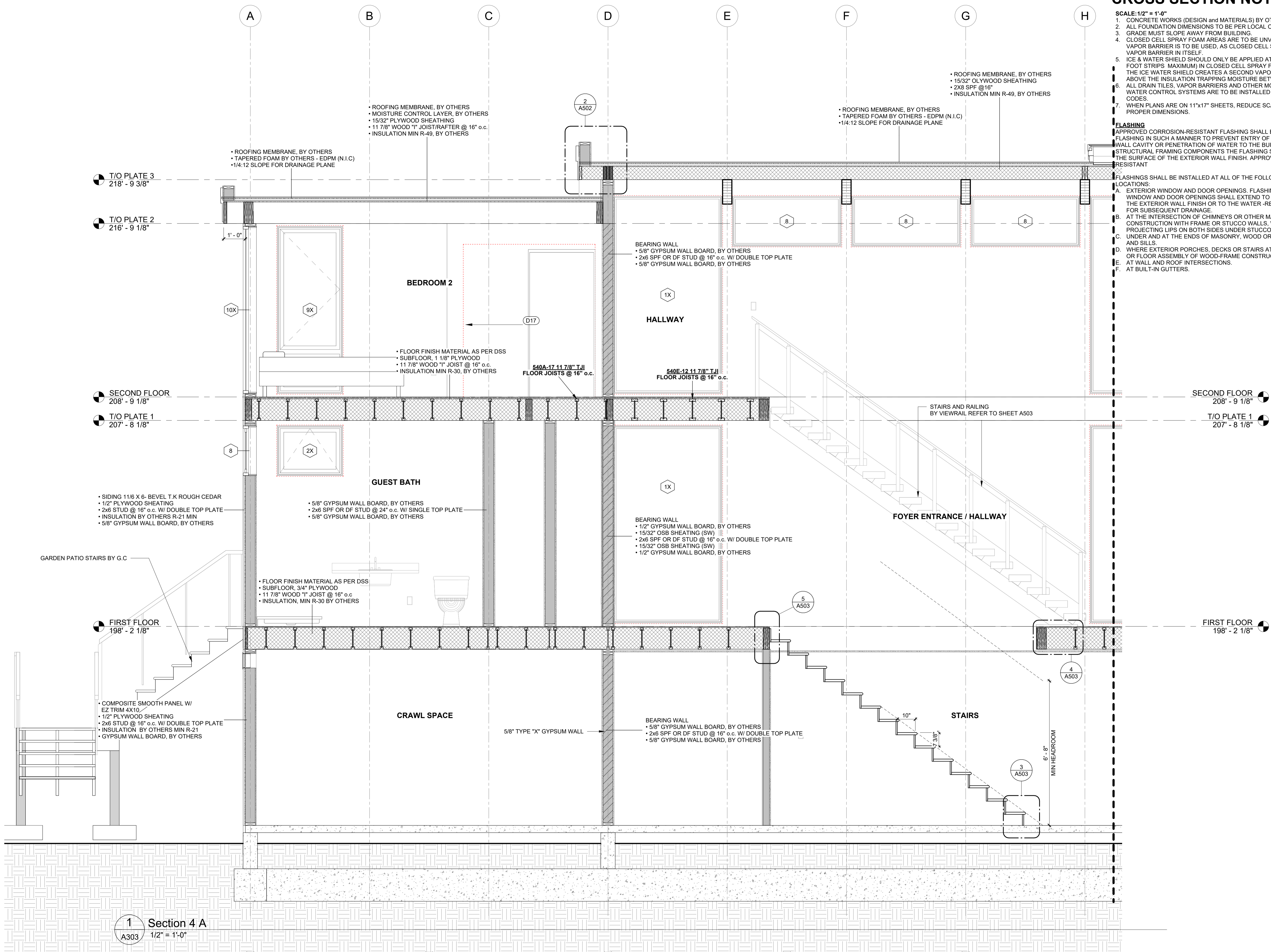
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FLASHING

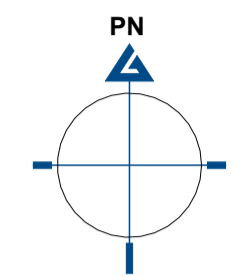
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- F. AT BUILT-IN GUTTERS.



1 Section 4 A
A303 1/2" = 1'-0"



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION NO.	DESCRIPTION	DATE
1	CITY COMMENTS	ES 11/27/2023
2	CITY COMMENT 2	ES 4/3/2024

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL
CUSTOM ELEMENT HOME

BUILDING SECTION 4B

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

A304

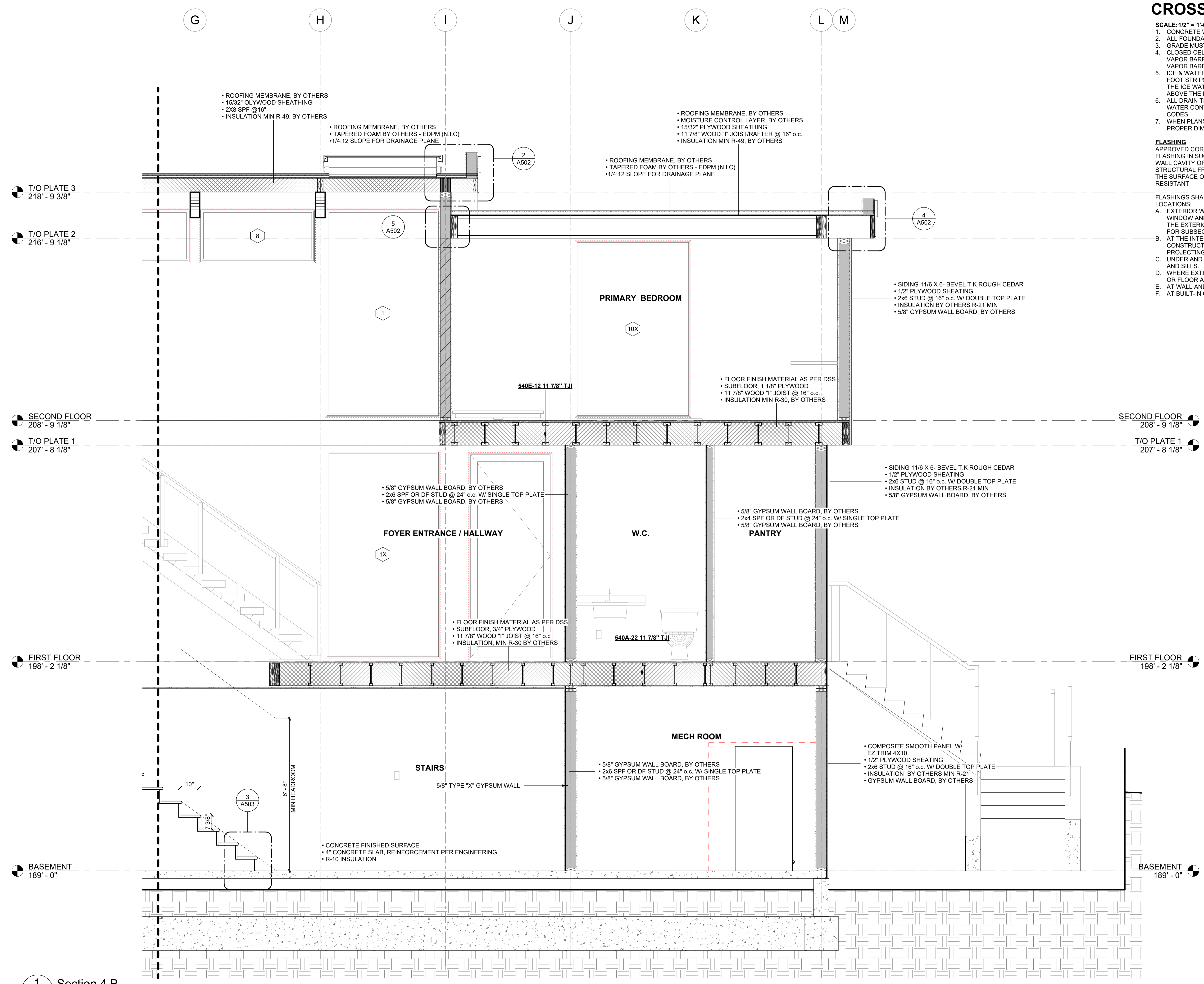
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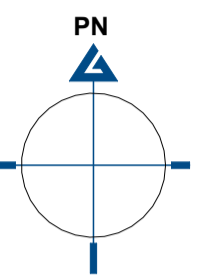
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1 Section 4 B
A304 1/2" = 1'-0"

2022 COPYRIGHT
LINDAL CEDAR HOMES

THE LINDAL DESIGN IN THESE DRAWINGS IS THE EXCLUSIVE PROPERTY OF LINDAL CEDAR HOMES, INC. BY COPYRIGHT LAW THESE DRAWINGS ARE NOT TO BE REPRODUCED, NOR IS THE INFORMATION CONTAINED TO BE USED FOR ANY PURPOSE OTHER THAN THE PURCHASE AND CONSTRUCTION OF A LINDAL CEDAR HOME.



PROJECT NORTH

LINDAL DEALER

WARM MODERN LIVING

CLIENT

HOANG INTRACHAT

PROJECT ADDRESS

7929 EAST MERCER WAY
MERCER ISLAND WA 98040

CROSS SECTION NOTES

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

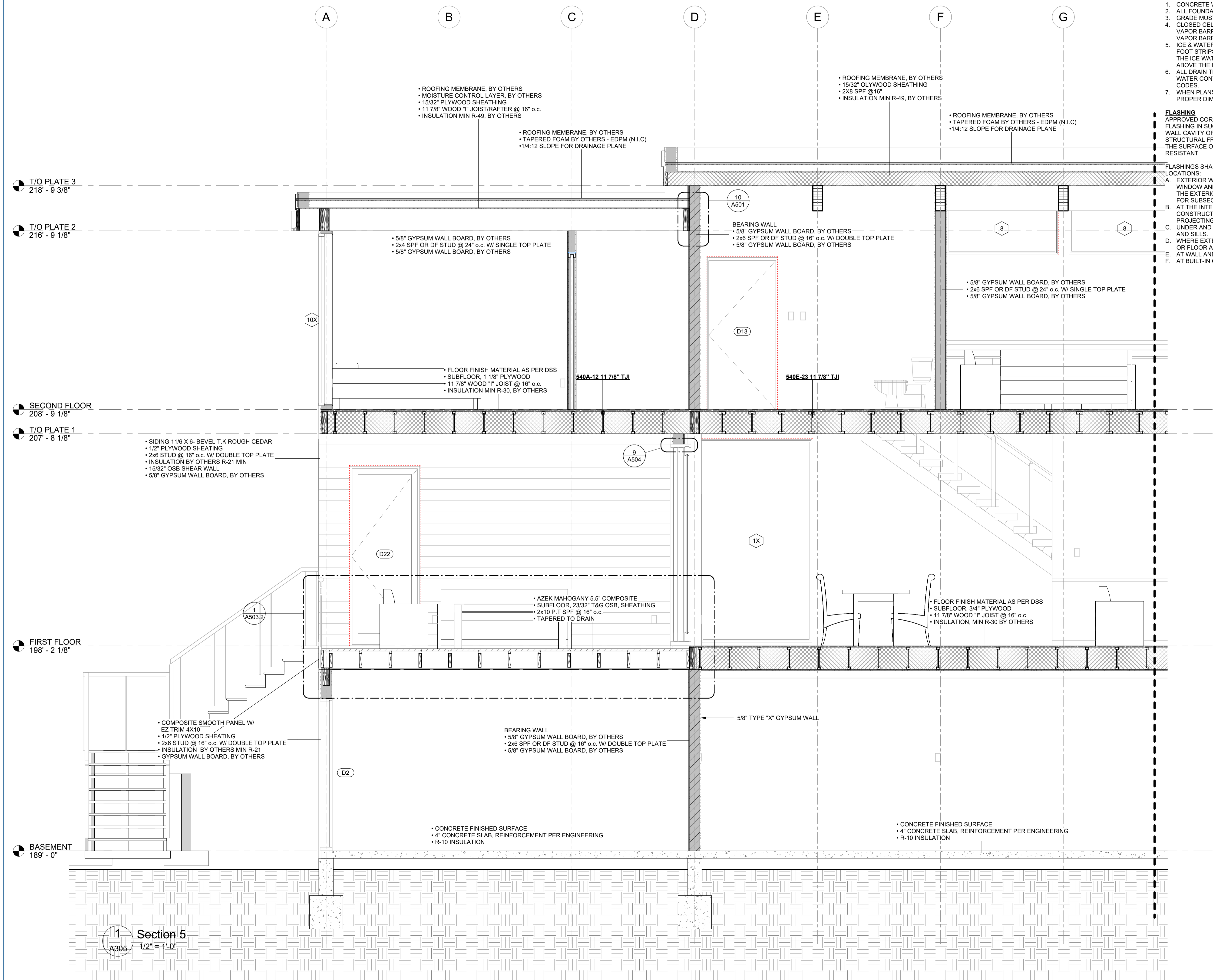
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REVISION NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/27/2023
2	CITY COMMENT 2	ES	4/3/2024
1	CITY COMMENTS	ES	11/27/2023

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL

CUSTOM ELEMENT HOME

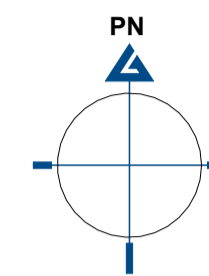
BUILDING SECTION 5

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

A305

ARCH.DWG: 4/10/2024 12:20:55 PM

1 Section 5
A305 1/2" = 1'-0"



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
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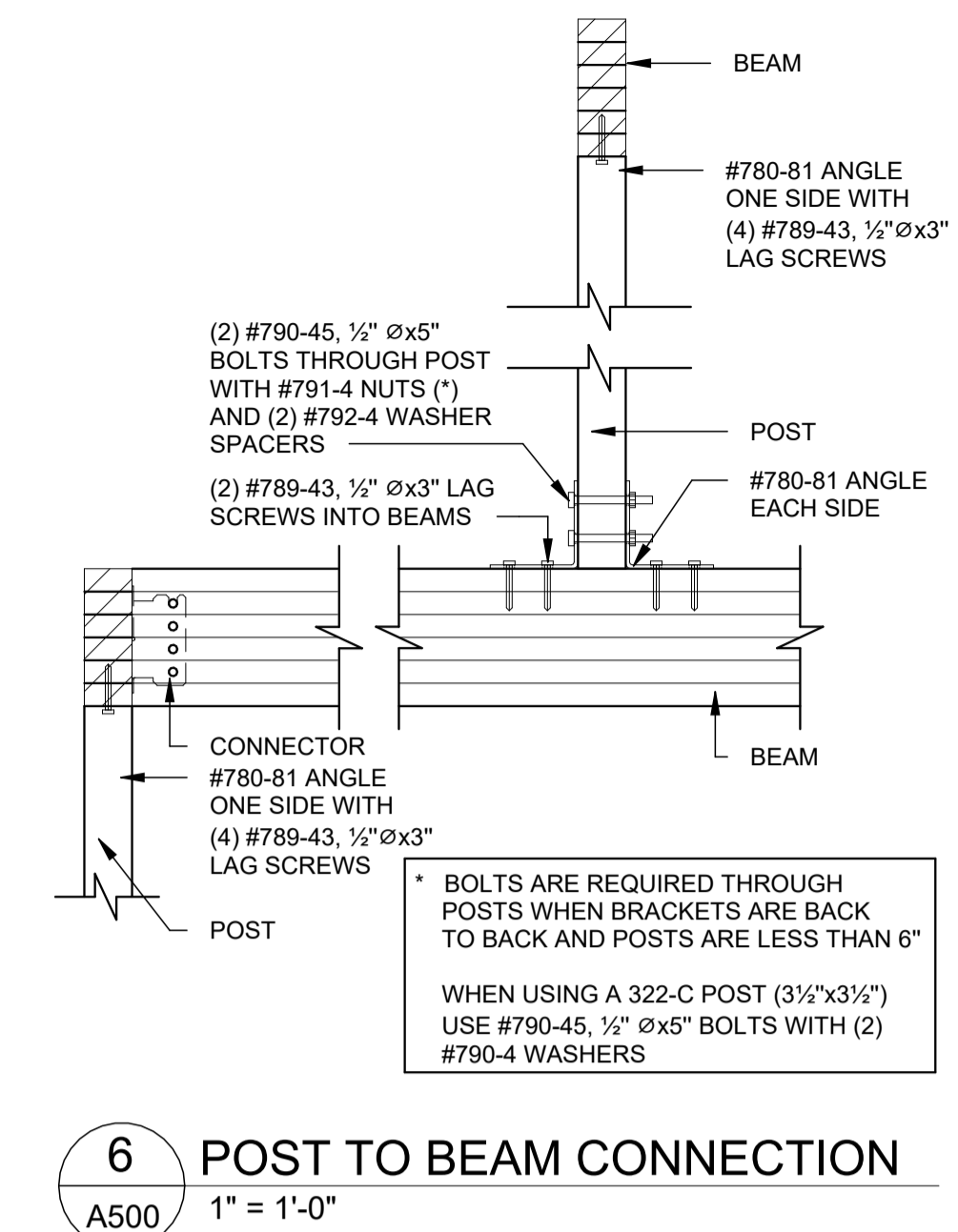


MODEL
CUSTOM ELEMENT HOME

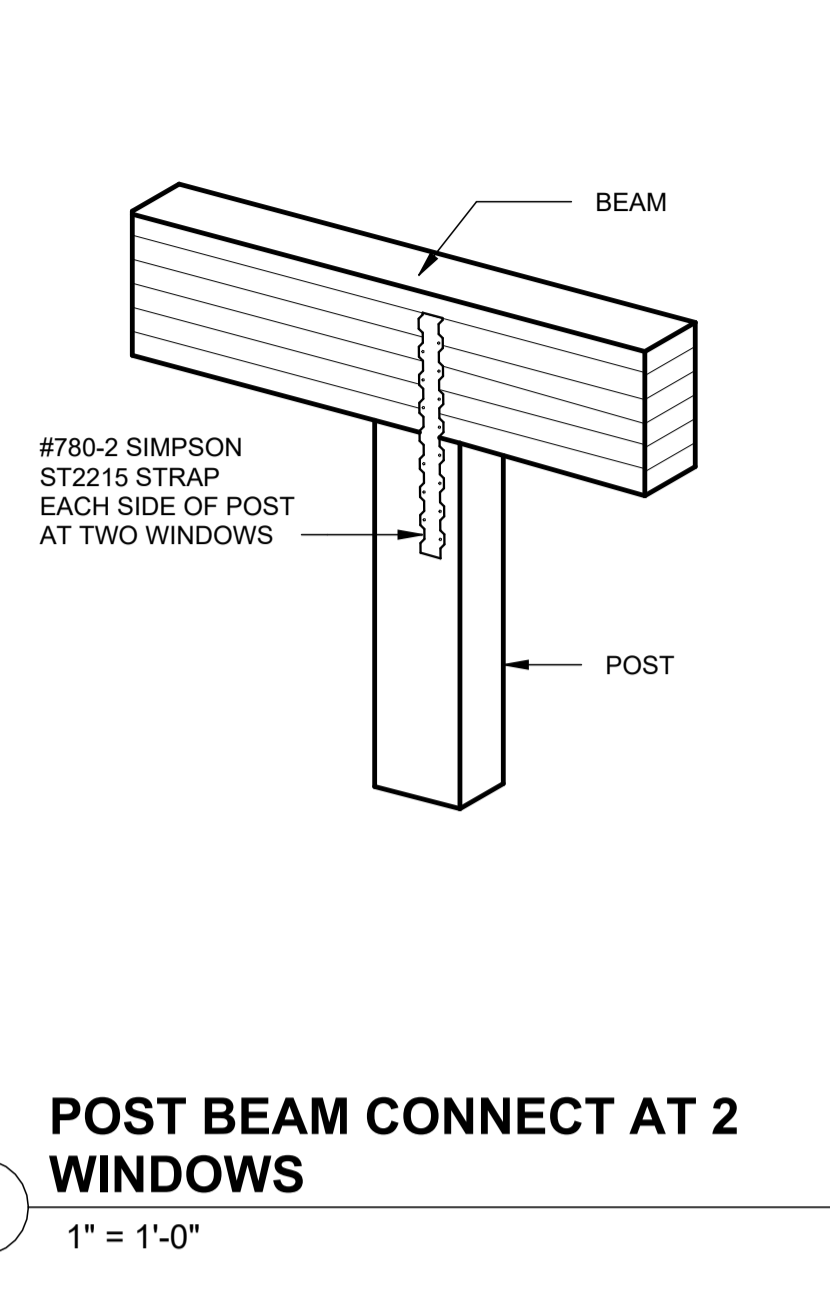
DETAILS - POST & BEAM CONNECTIONS

Scale: As indicated

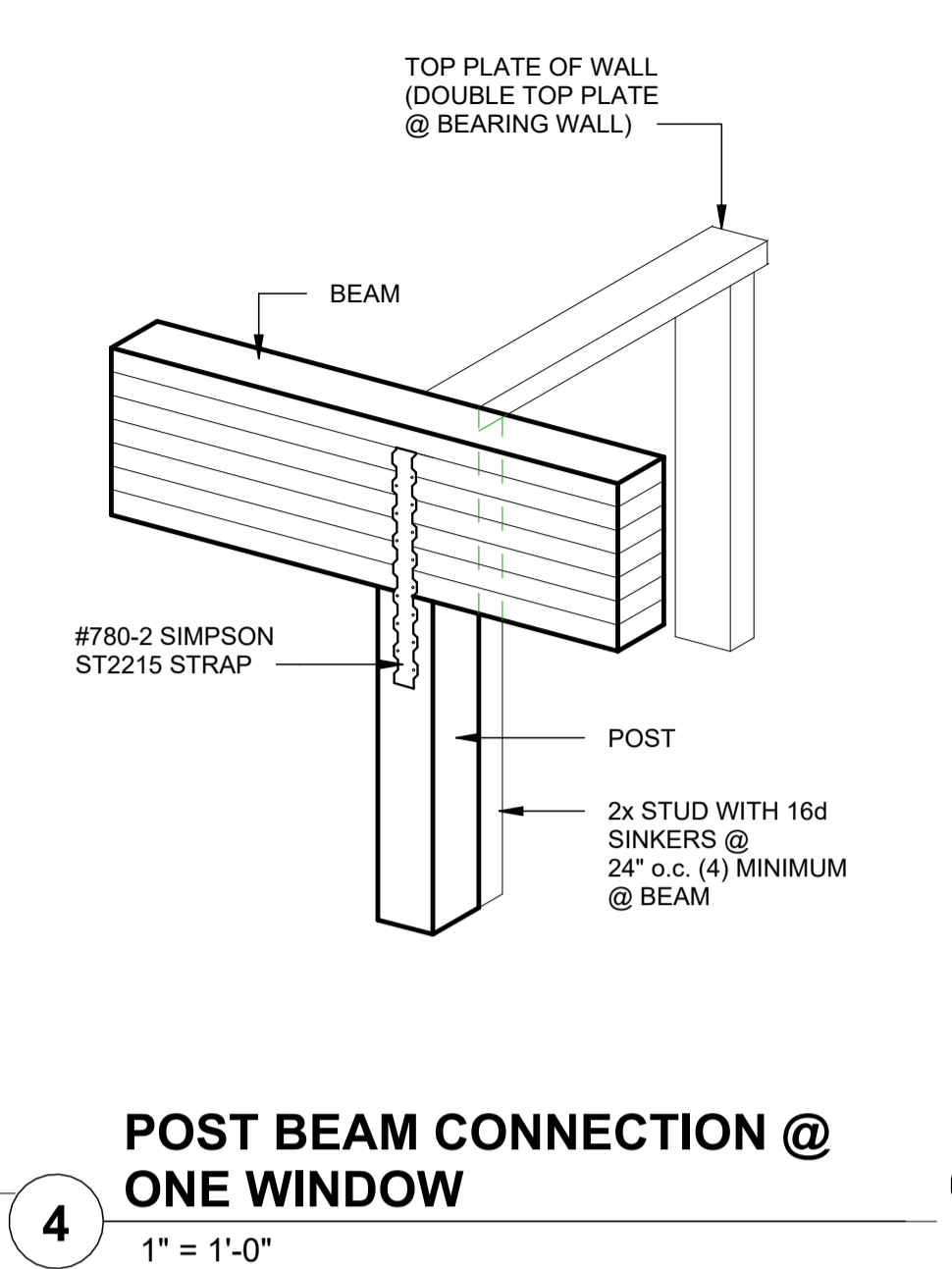
A500



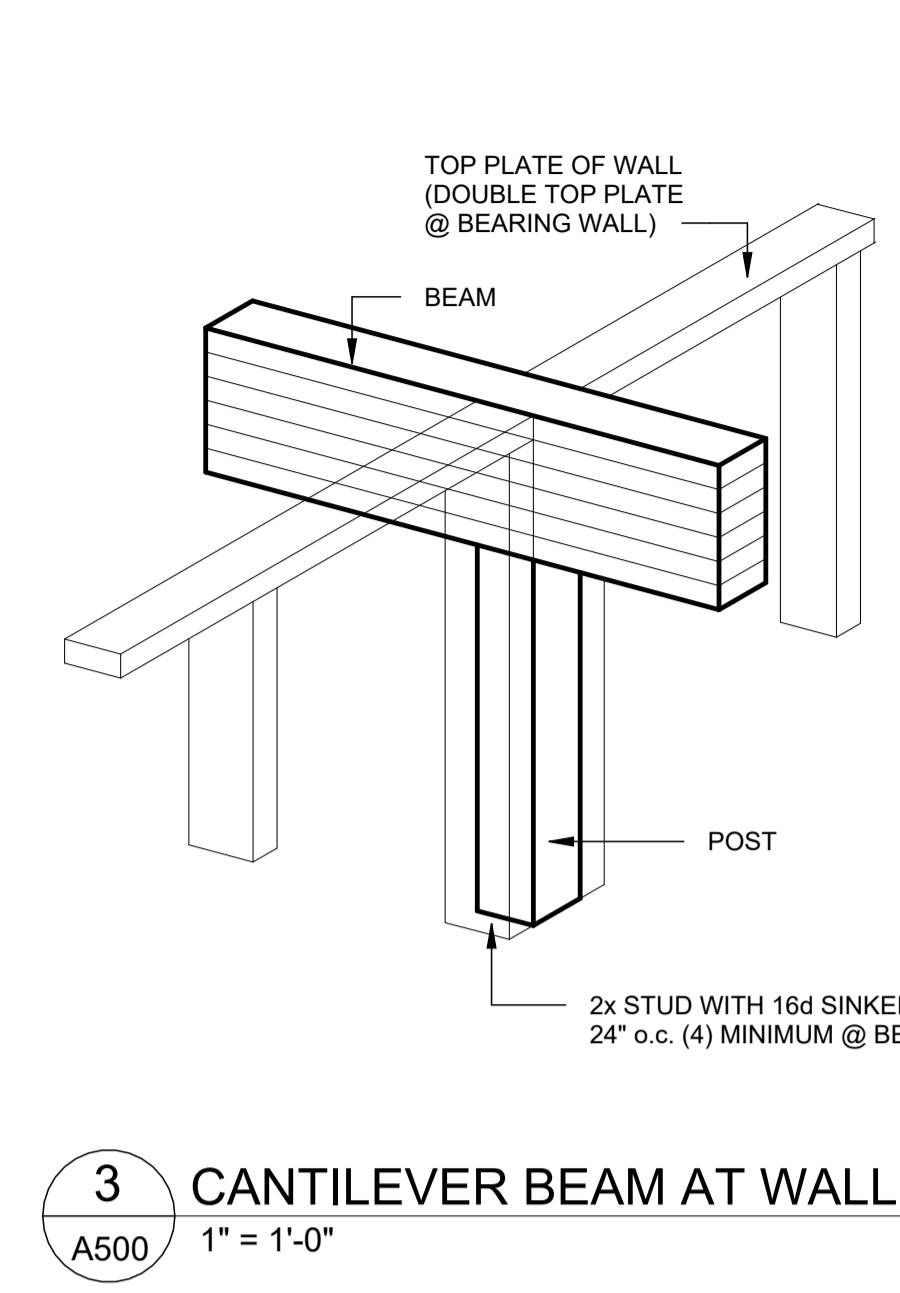
6 POST TO BEAM CONNECTION
1" = 1'-0"



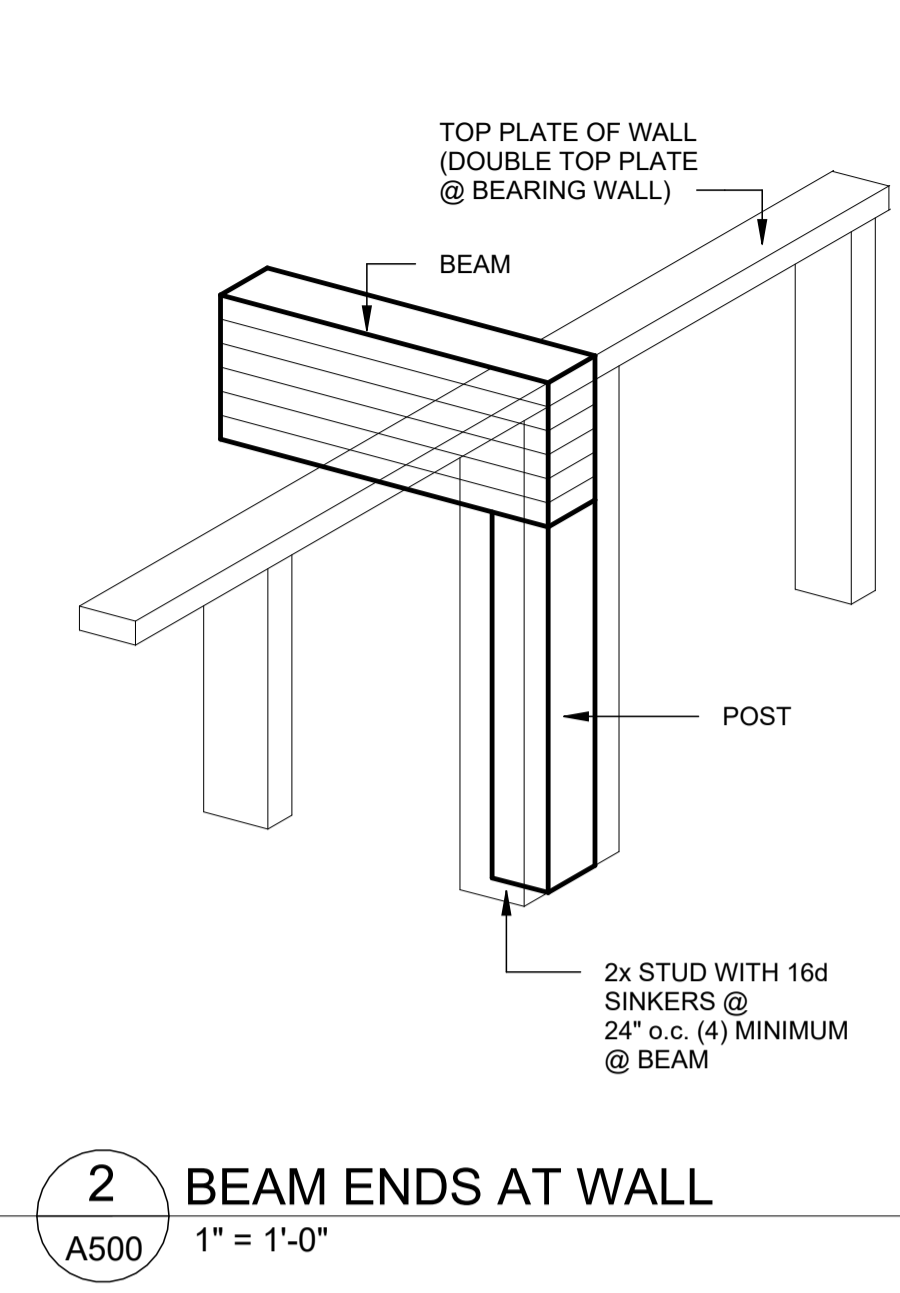
5 POST BEAM CONNECT AT 2 WINDOWS
1" = 1'-0"



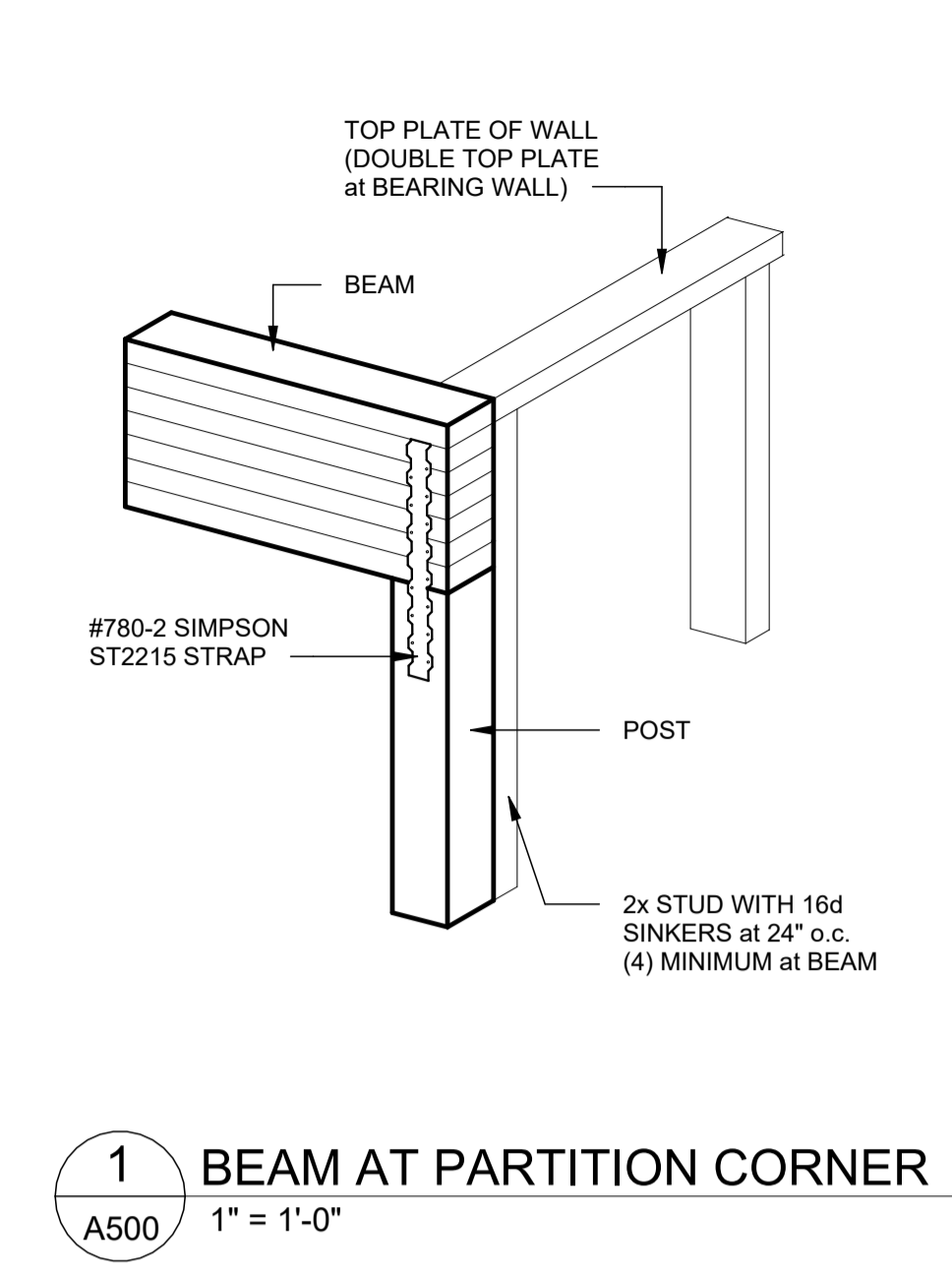
4 POST BEAM CONNECTION @ ONE WINDOW
1" = 1'-0"



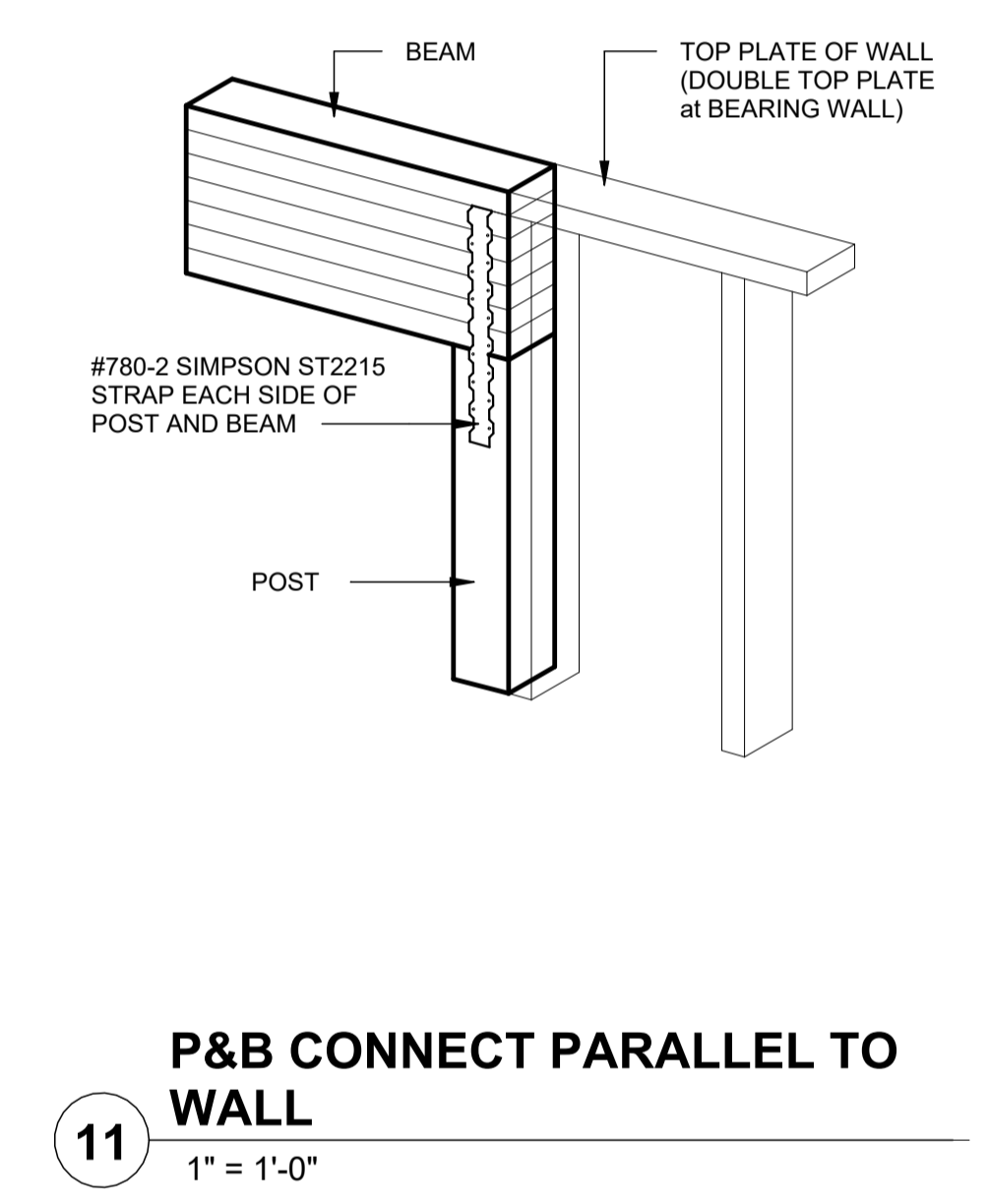
3 CANTILEVER BEAM AT WALL
1" = 1'-0"



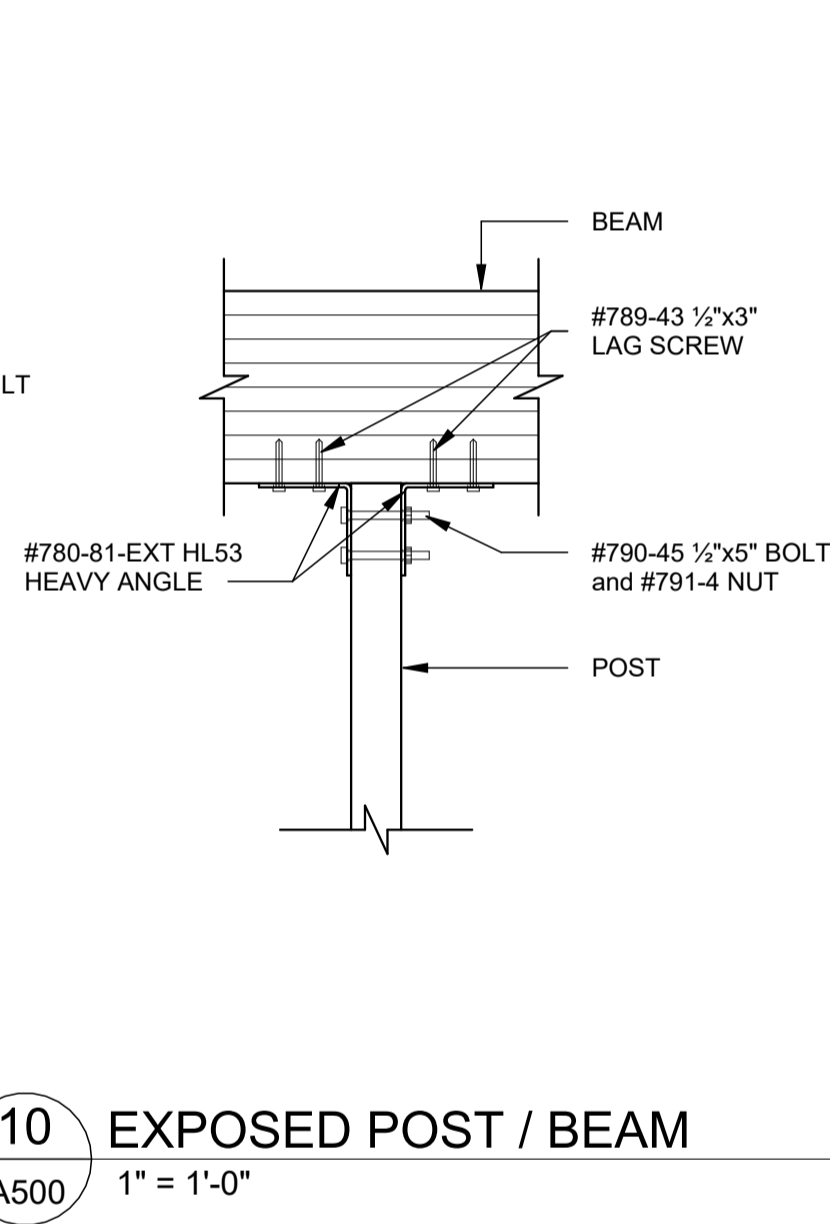
2 BEAM ENDS AT WALL
1" = 1'-0"



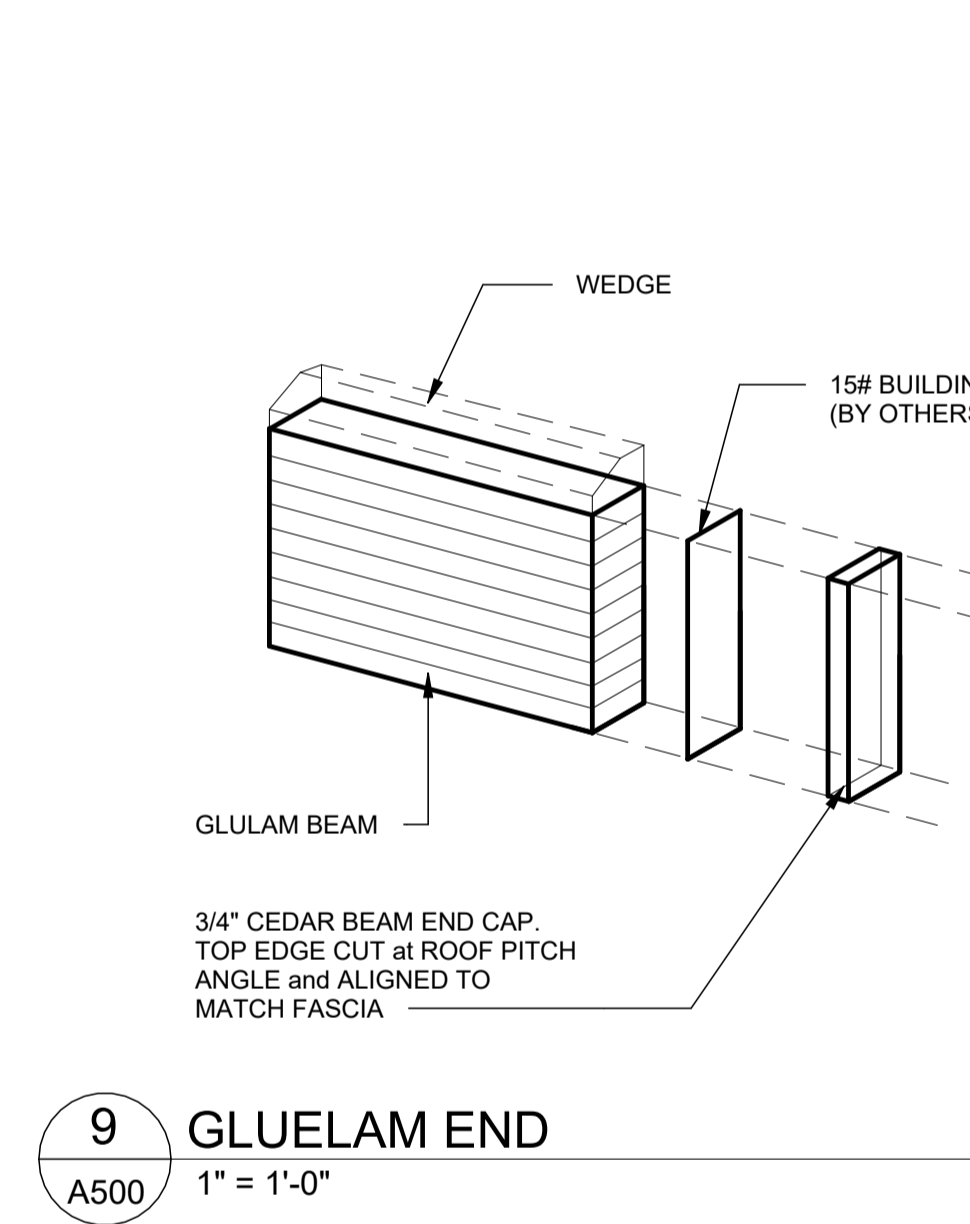
1 BEAM AT PARTITION CORNER
1" = 1'-0"



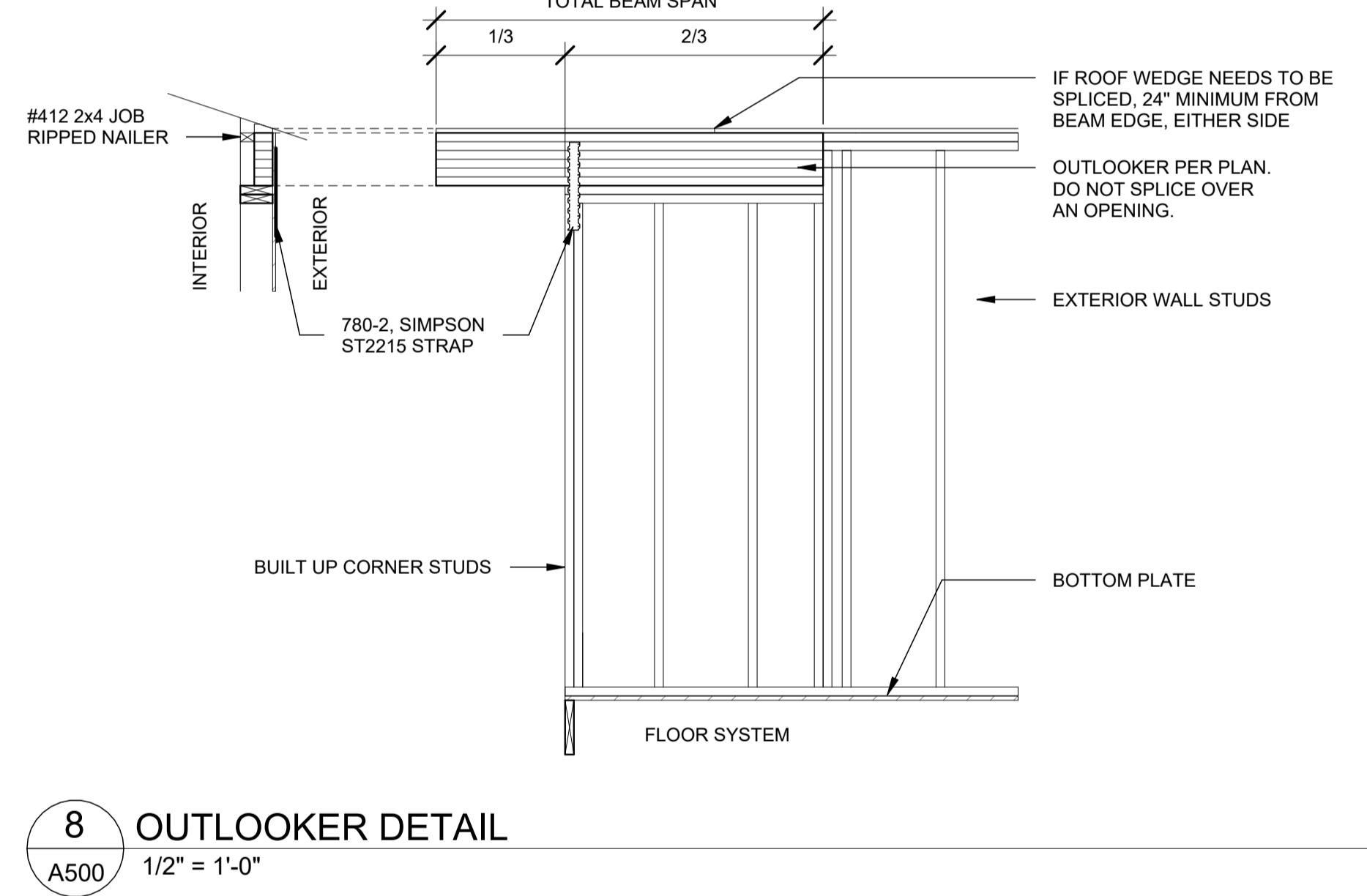
11 P&B CONNECT PARALLEL TO WALL
1" = 1'-0"



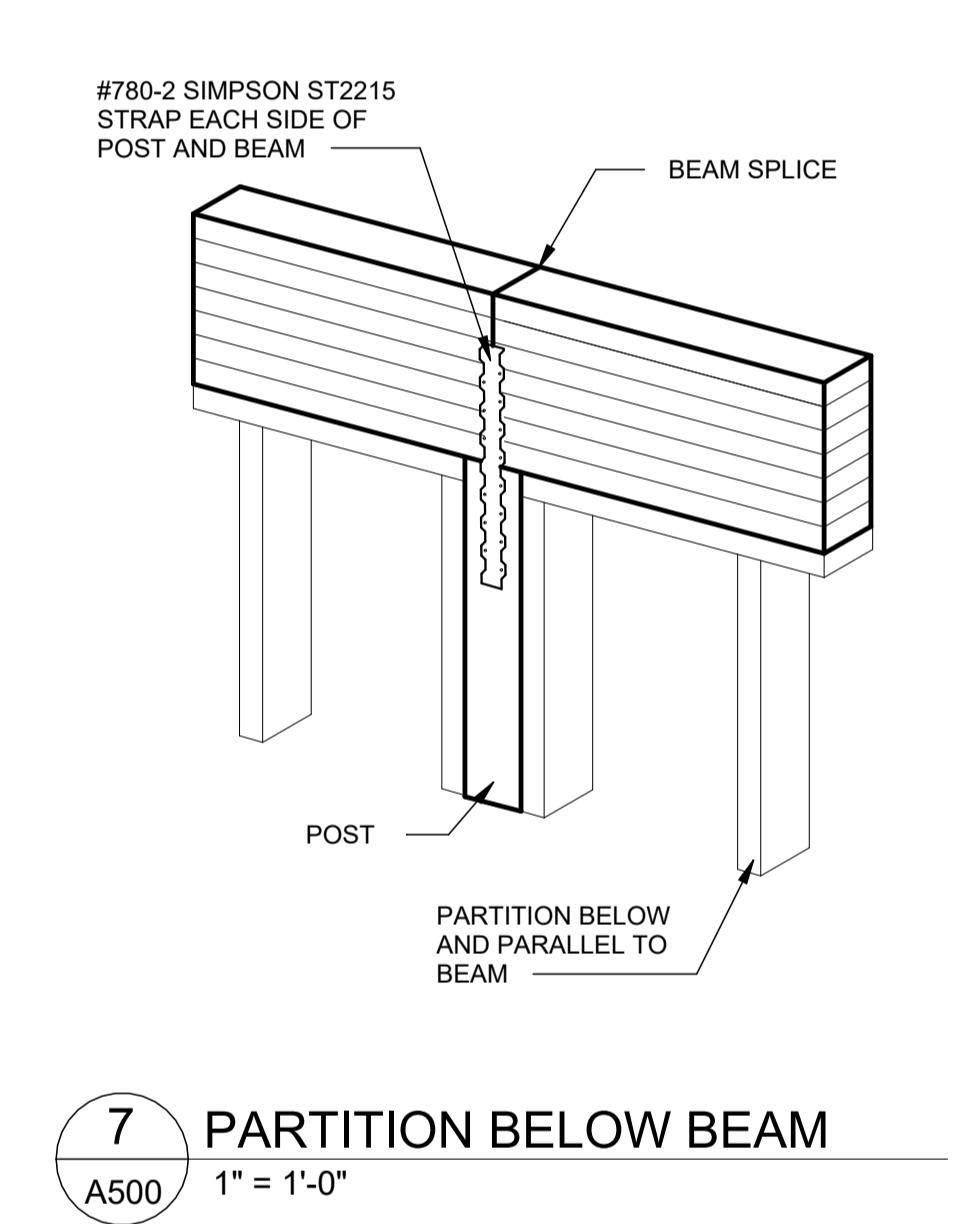
10 EXPOSED POST / BEAM
1" = 1'-0"



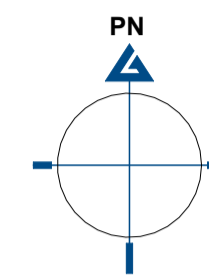
9 GLUELAM END
1" = 1'-0"



8 OUTLOOKER DETAIL
1/2" = 1'-0"



7 PARTITION BELOW BEAM
1" = 1'-0"

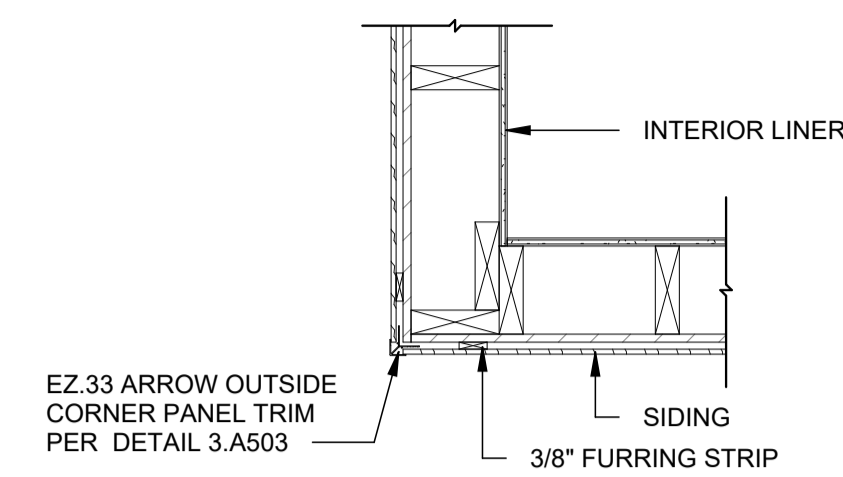


PROJECT NORTH

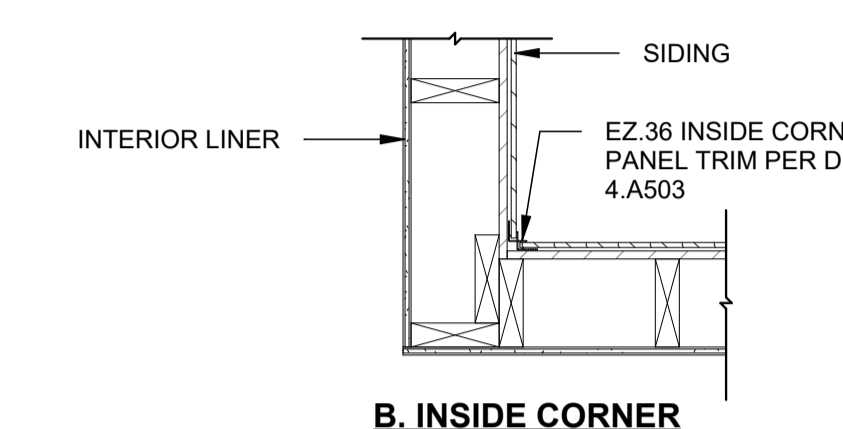
LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

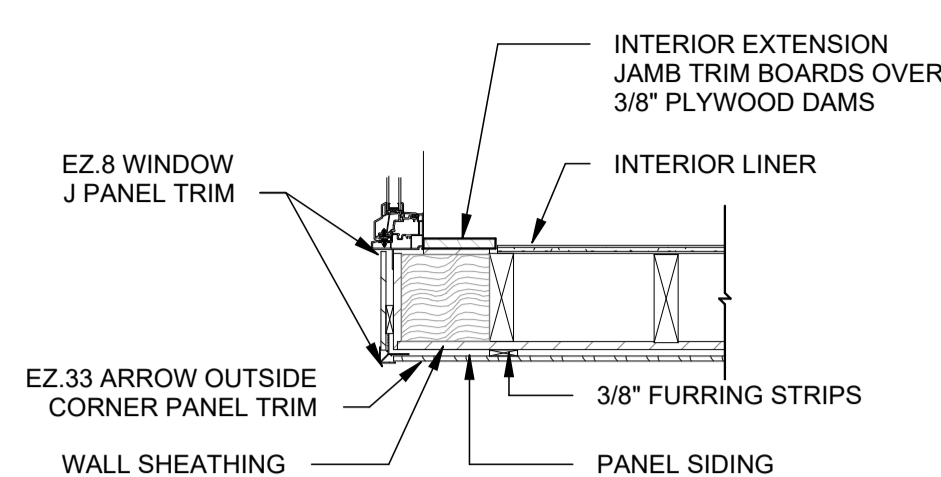
PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040



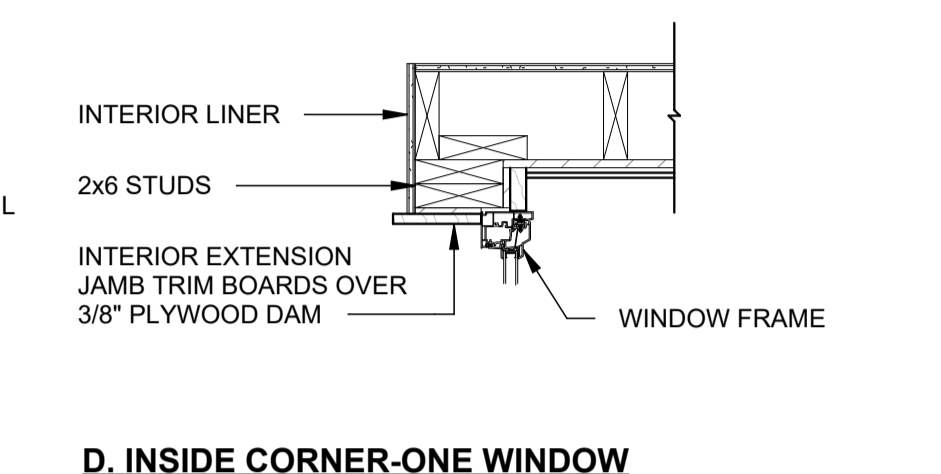
A. OUTSIDE CORNER



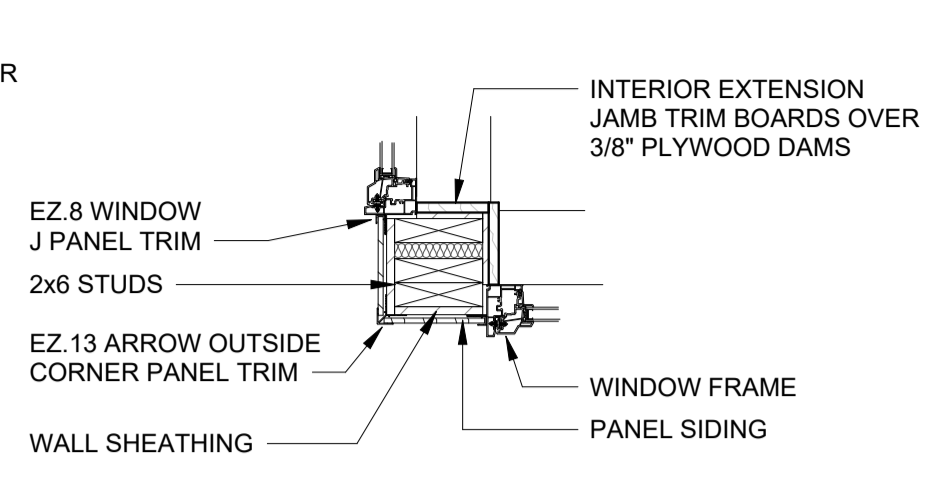
B. INSIDE CORNER



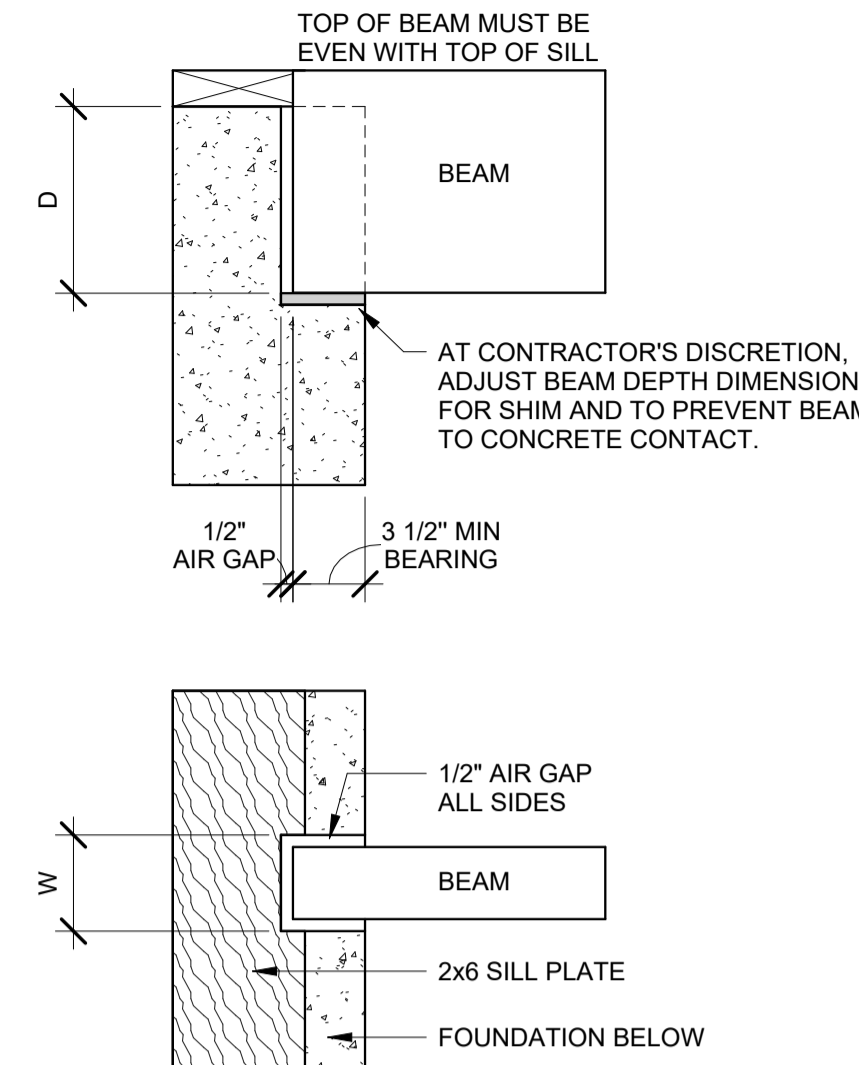
C. OUTSIDE CORNER-ONE WINDOW



D. INSIDE CORNER-ONE WINDOW



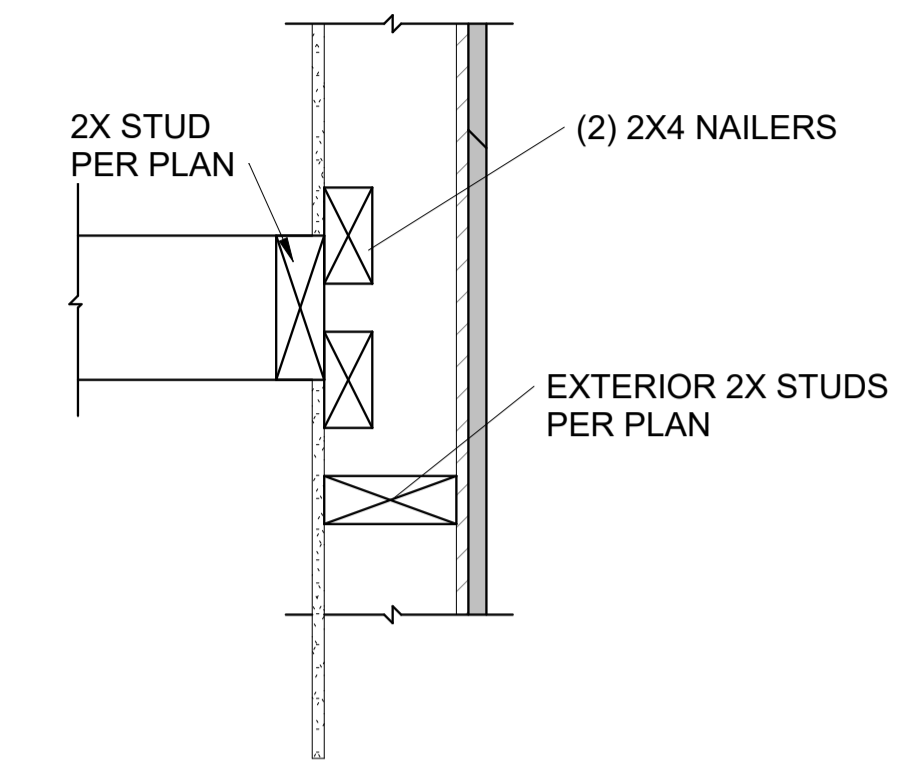
OUTSIDE CORNER WITH WINDOWS



2 BEAM POCKET DETAIL
A501 1 1/2" = 1'-0"

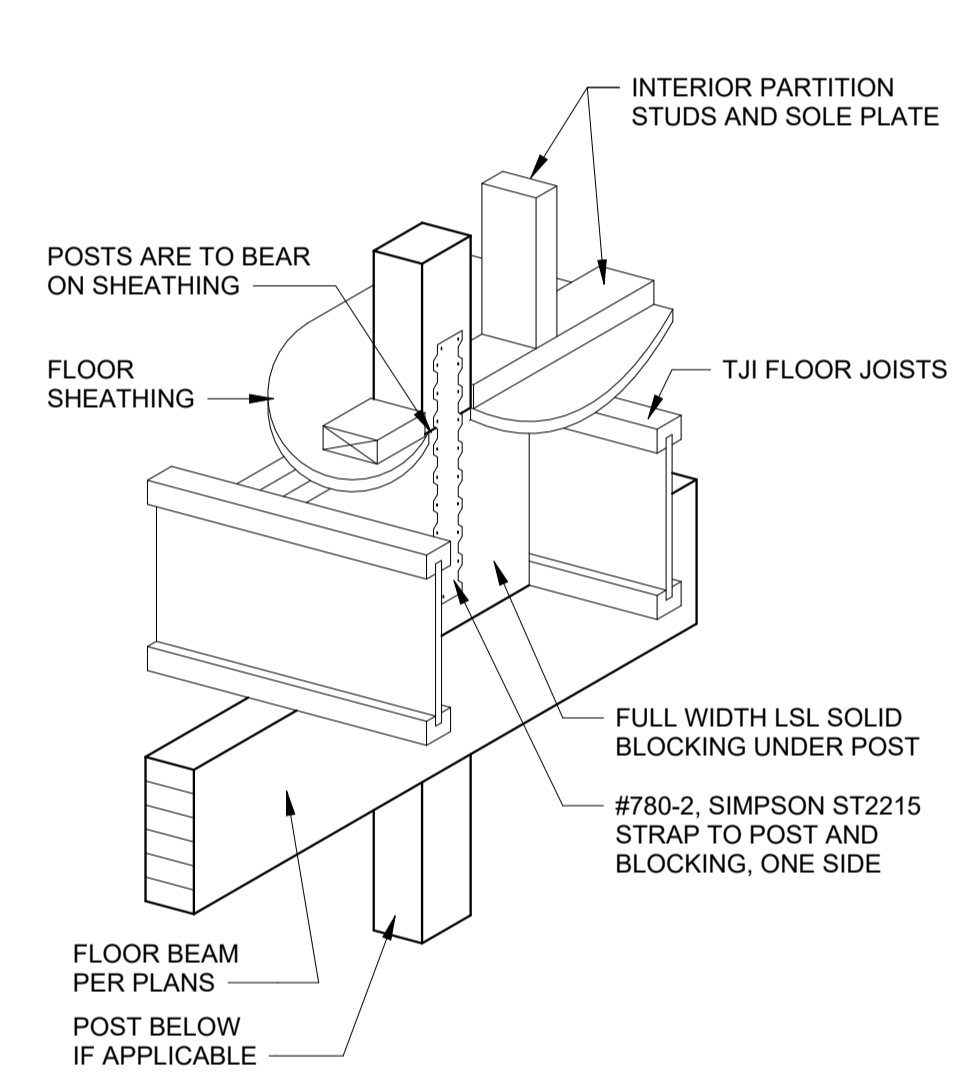
BUILT UP LUMBER	(2) 2x		(3) 2x		(4) 2x	
	W	D	W	D	W	D
2x10	4"	7 3/4"	5 1/2"	7 3/4"	7"	7 3/4"
2x12	4"	9 3/4"	5 1/2"	9 3/4"	7"	9 3/4"

GLULAM BEAM	3 1/8" BEAM		5 1/8" BEAM		6 3/4" BEAM	
	W	D	W	D	W	D
9"	4 1/8"	7 1/2"	6 1/8"	7 1/2"	7 3/4"	7 1/2"
10 1/2"	4 1/8"	9"	6 1/8"	9"	7 3/4"	9"
12"	4 1/8"	10 1/2"	6 1/8"	10 1/2"	7 3/4"	10 1/2"
13 1/2"	4 1/8"	12"	6 1/8"	12"	7 3/4"	12"
15"	4 1/8"	13 1/2"	6 1/8"	13 1/2"	7 3/4"	13 1/2"
16 1/2"	4 1/8"	15"	6 1/8"	15"	7 3/4"	15"
18"			6 1/8"	16 1/2"	7 3/4"	16 1/2"
19 1/2"			6 1/8"	18"	7 3/4"	18"
21"			6 1/8"	19 1/2"	7 3/4"	19 1/2"
22 1/2"			6 1/8"	21"	7 3/4"	21"
24"			6 1/8"	22 1/2"	7 3/4"	22 1/2"

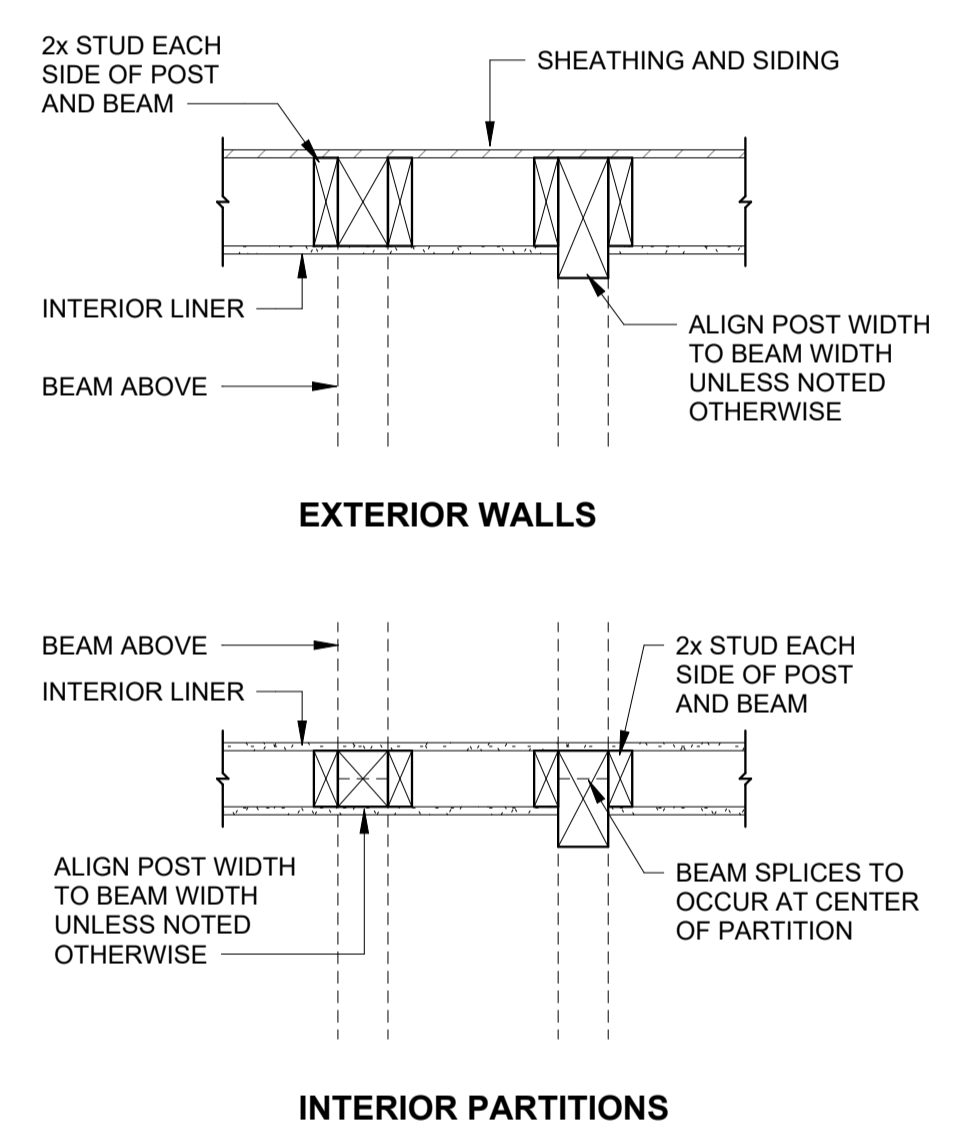


3 2X BY PARTITION TO EXT WALL
A501 1 1/2" = 1'-0"

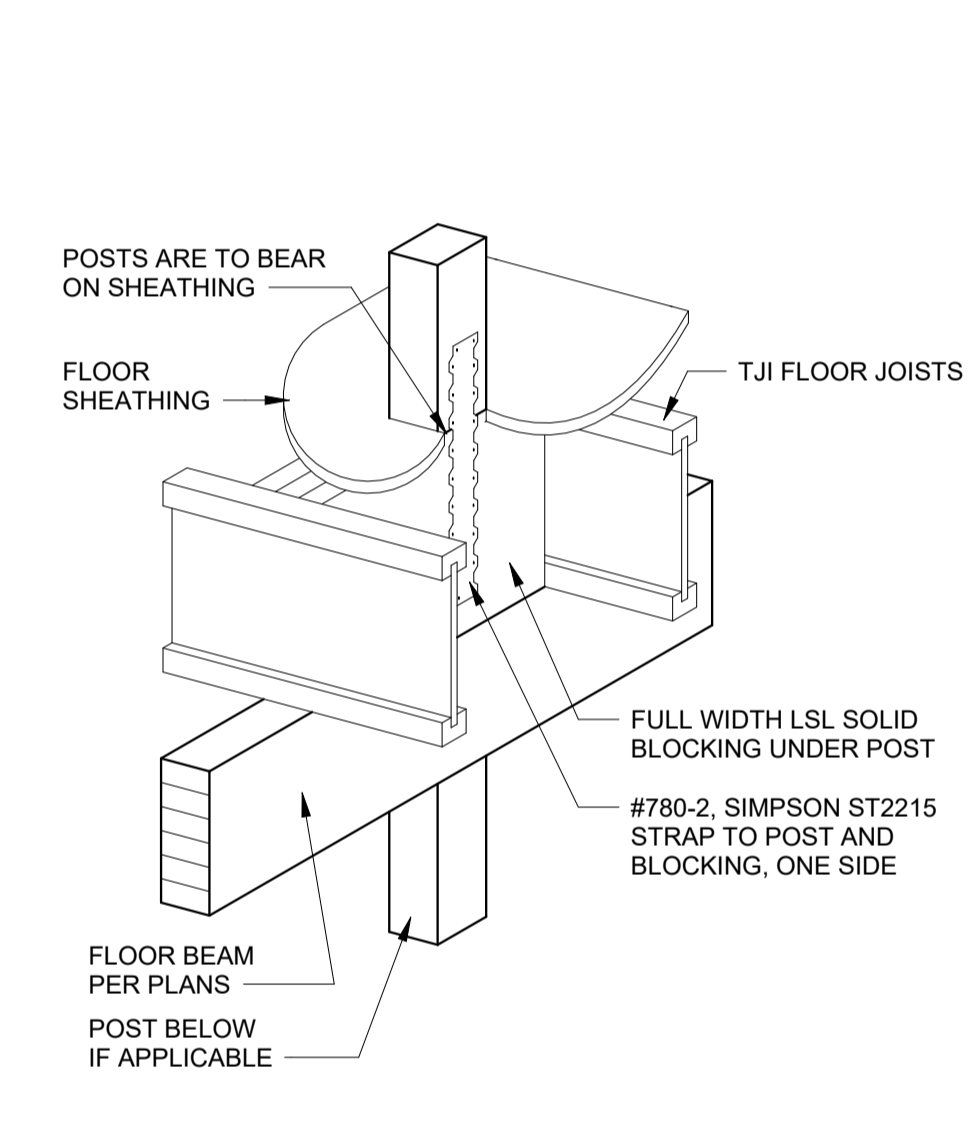
1 CORNER EZ TRIM
A501 1" = 1'-0"



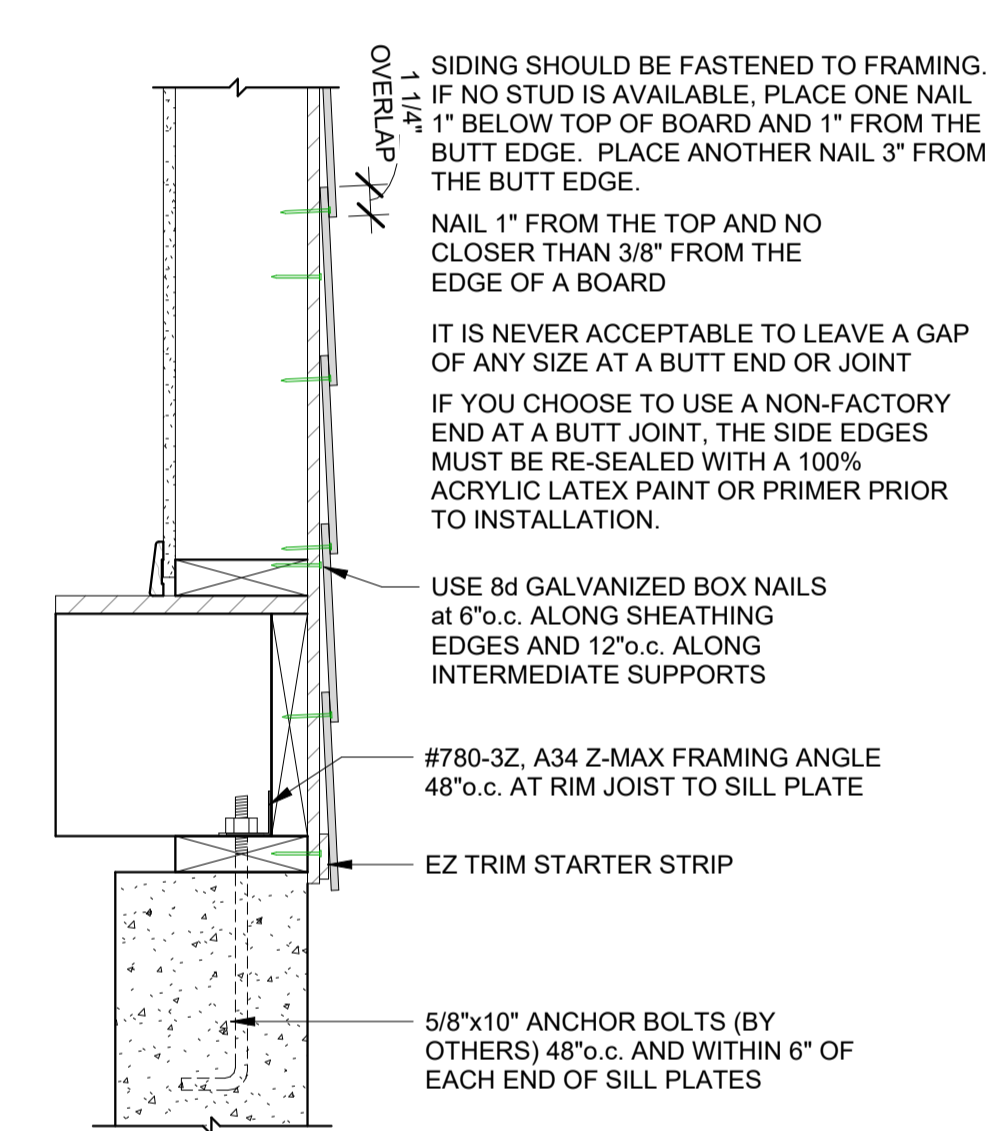
4 PARTITION TO FLOOR
A501 1" = 1'-0"



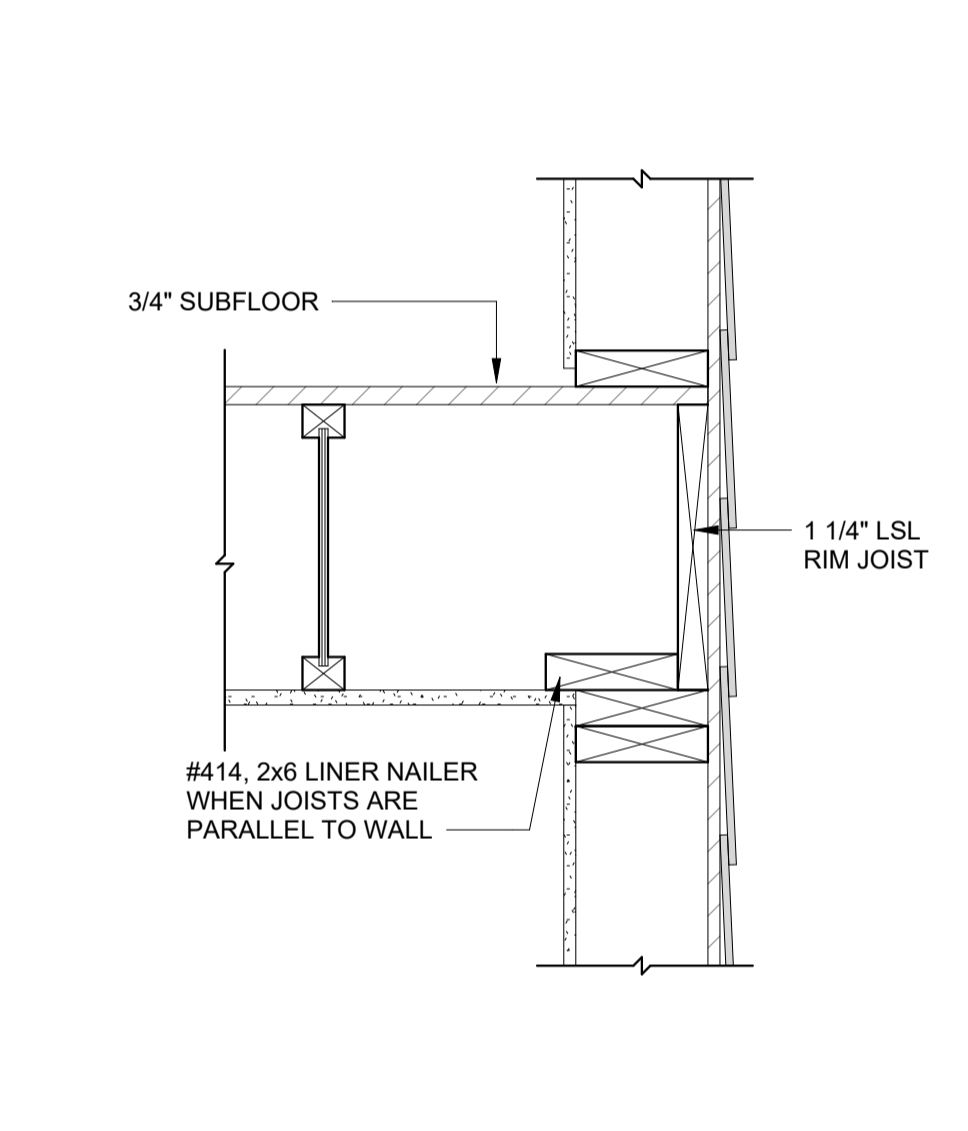
5 POST ORIENTATION
A501 1" = 1'-0"



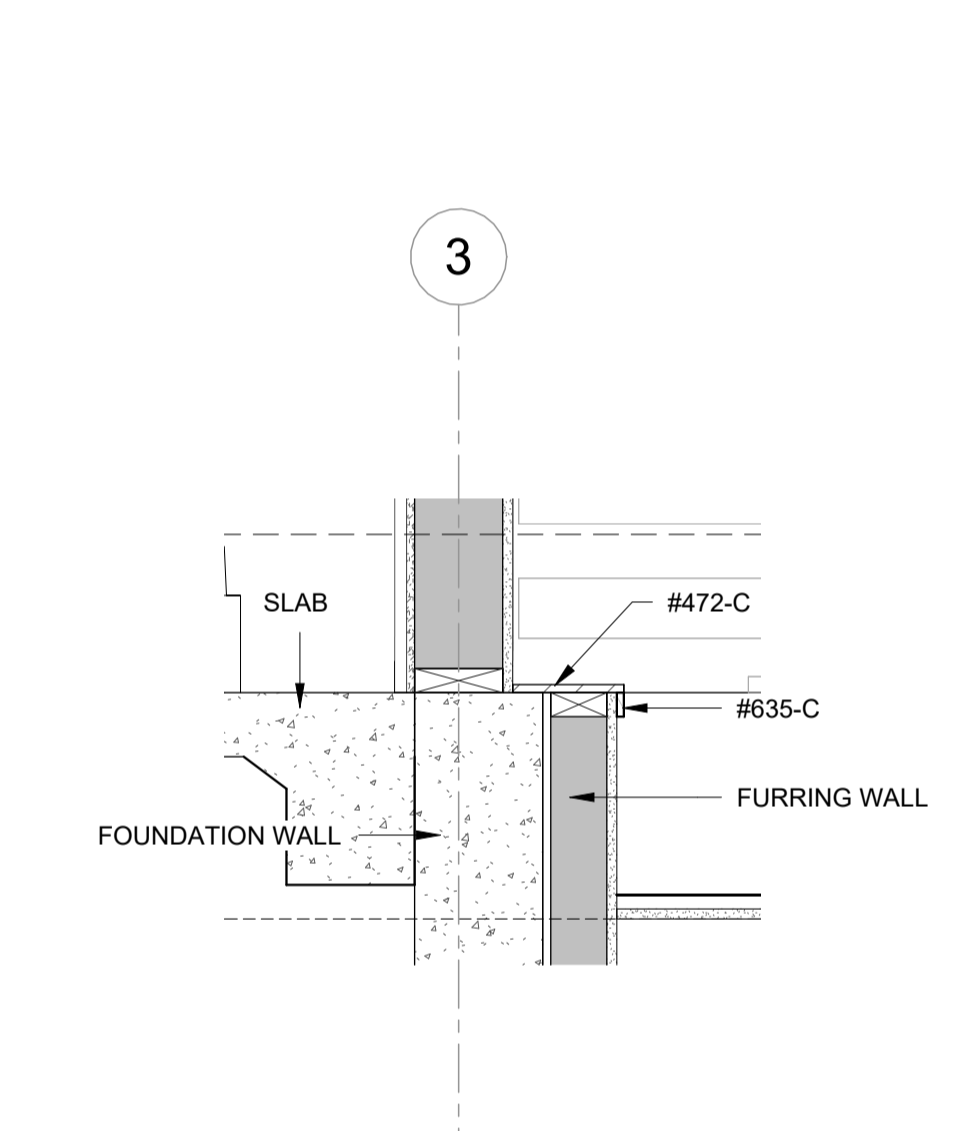
6 WALL POST TO FLOOR JOIST
A501 1" = 1'-0"



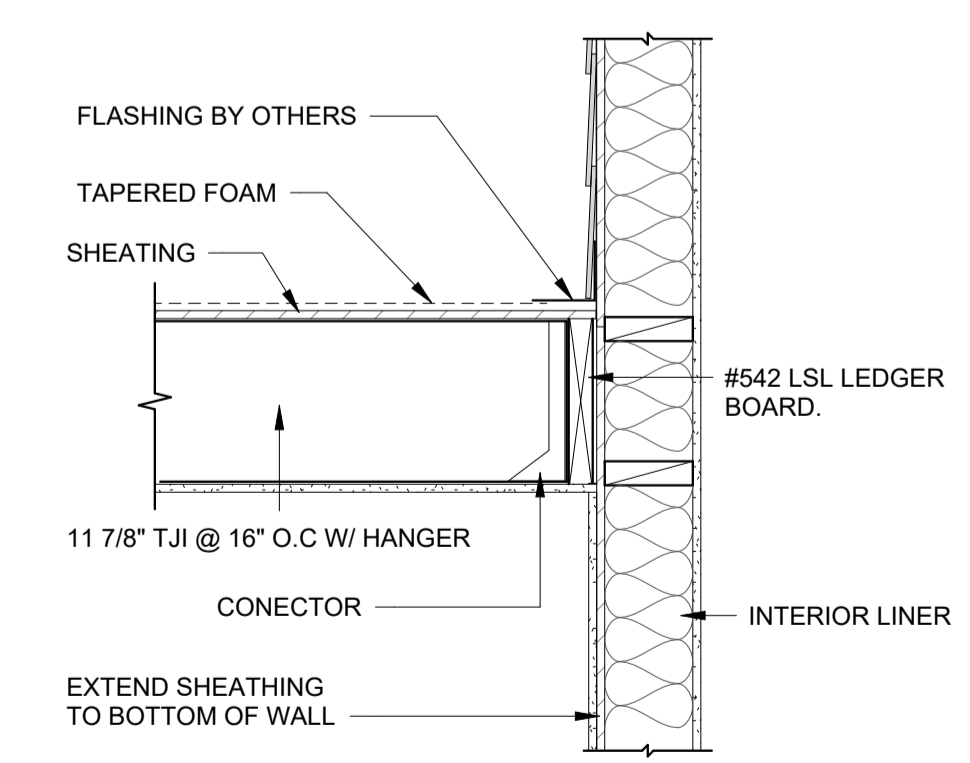
7 COMPOSITE SIDING NAILING
A501 1 1/2" = 1'-0"



8 FLOOR / CEILING
A501 1 1/2" = 1'-0"



9 FLOOR BASE TRIM
A501 1" = 1'-0"



10 FLAT END WALL CONNECTION
A501 1" = 1'-0"

REVISION	DD	ES	DATE
1	ISSUED FOR CD	ES	10/19/2023
2	CITY COMMENT 2	ES	4/3/2024
1	CITY COMMENTS	ES	11/27/2023
NO.	DESCRIPTION	ISSUED BY	DATE

ISSUANCES

WARRANTY NUMBER

42255

SERIES



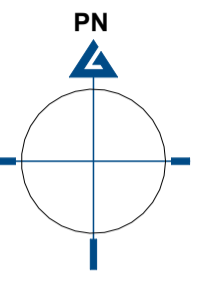
MODEL

CUSTOM ELEMENT HOME

DETAILS - WALL

Scale: As indicated

A501

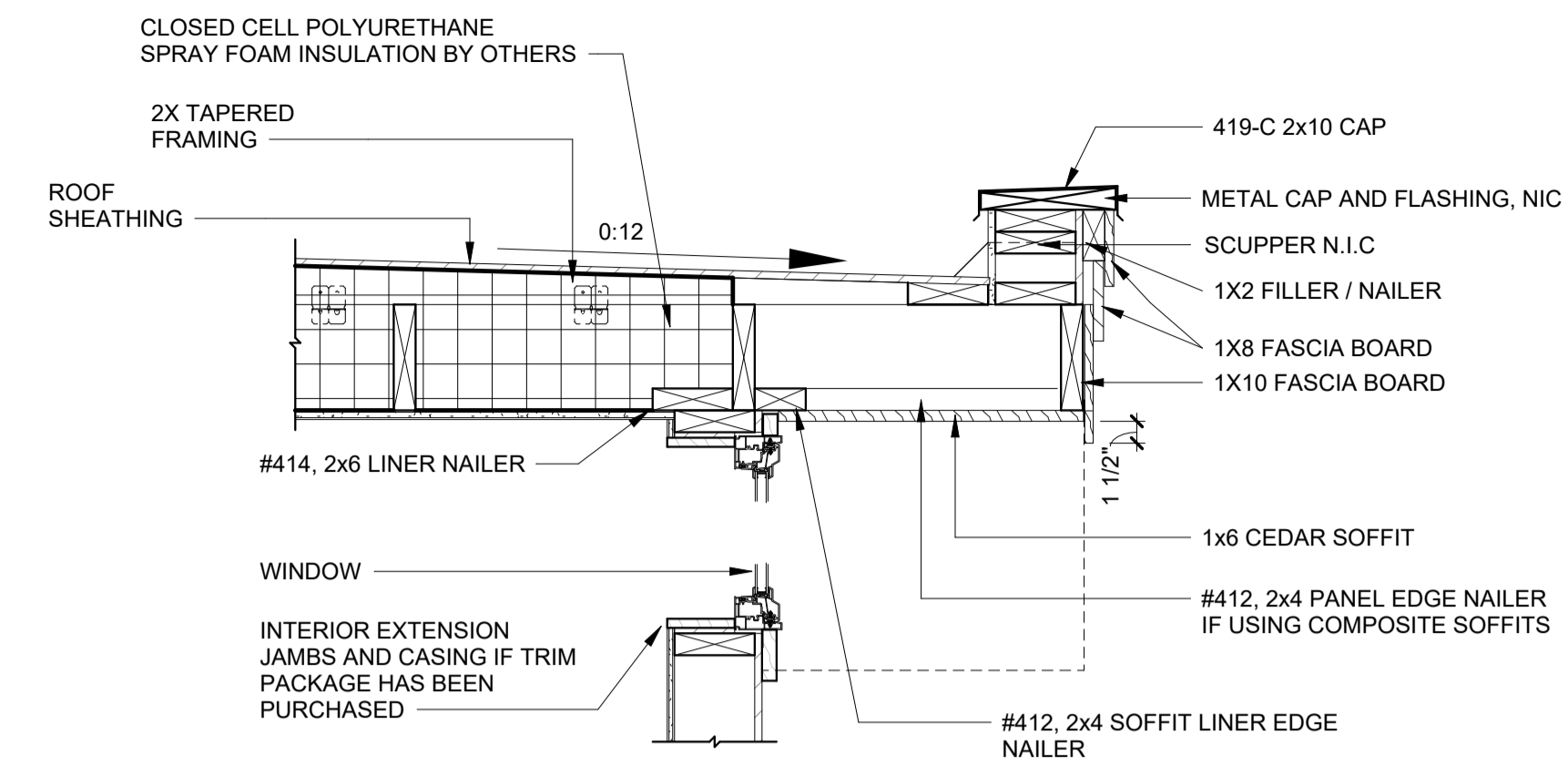


PROJECT NORTH

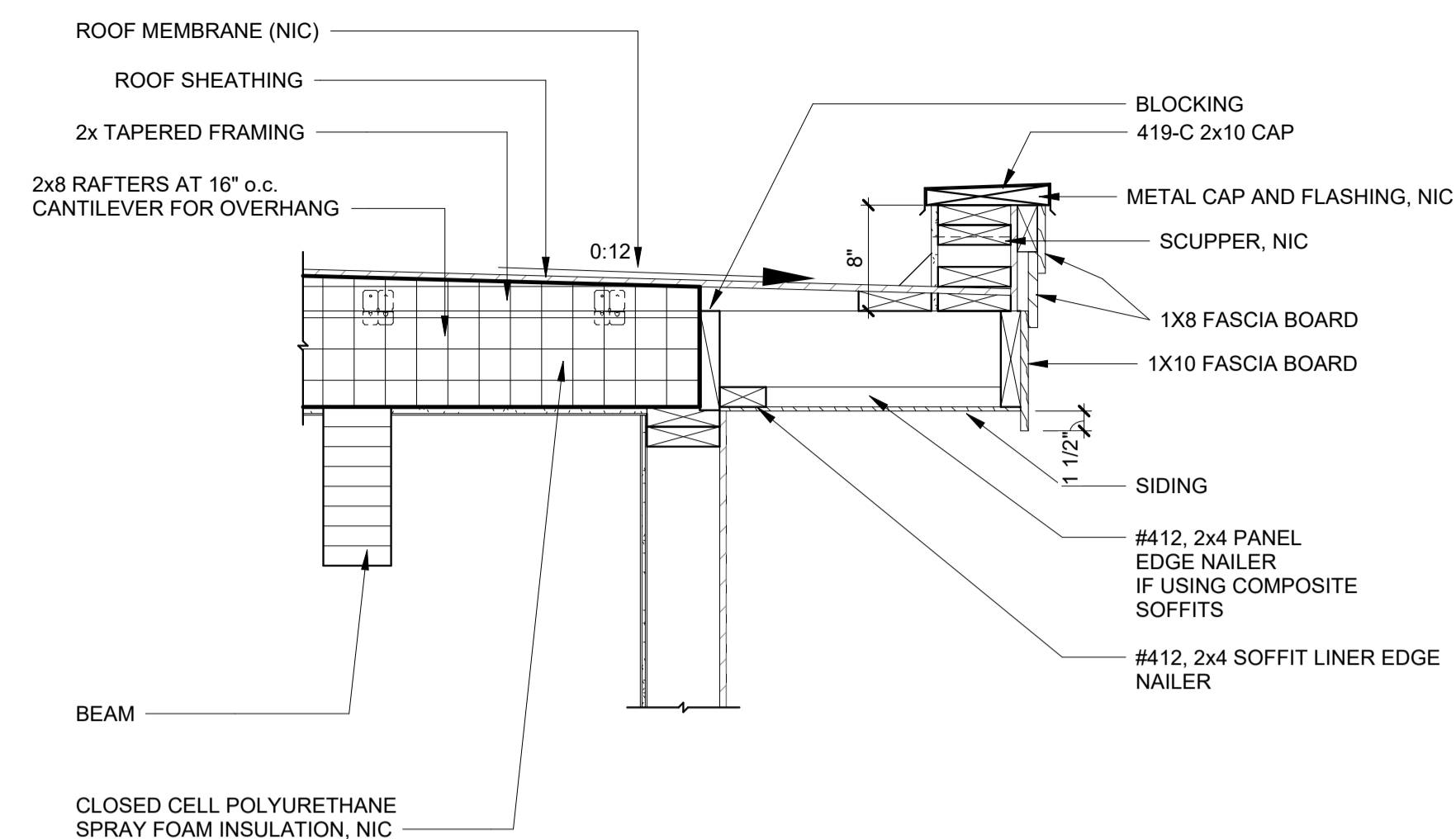
LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

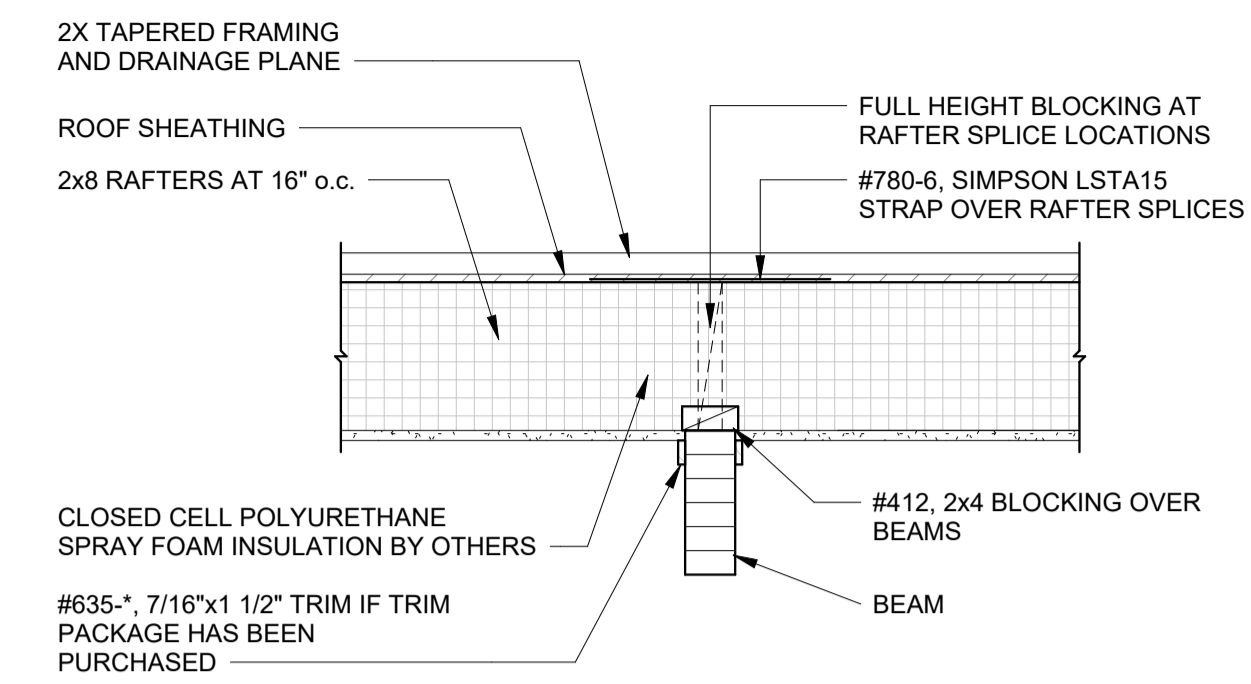
PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040



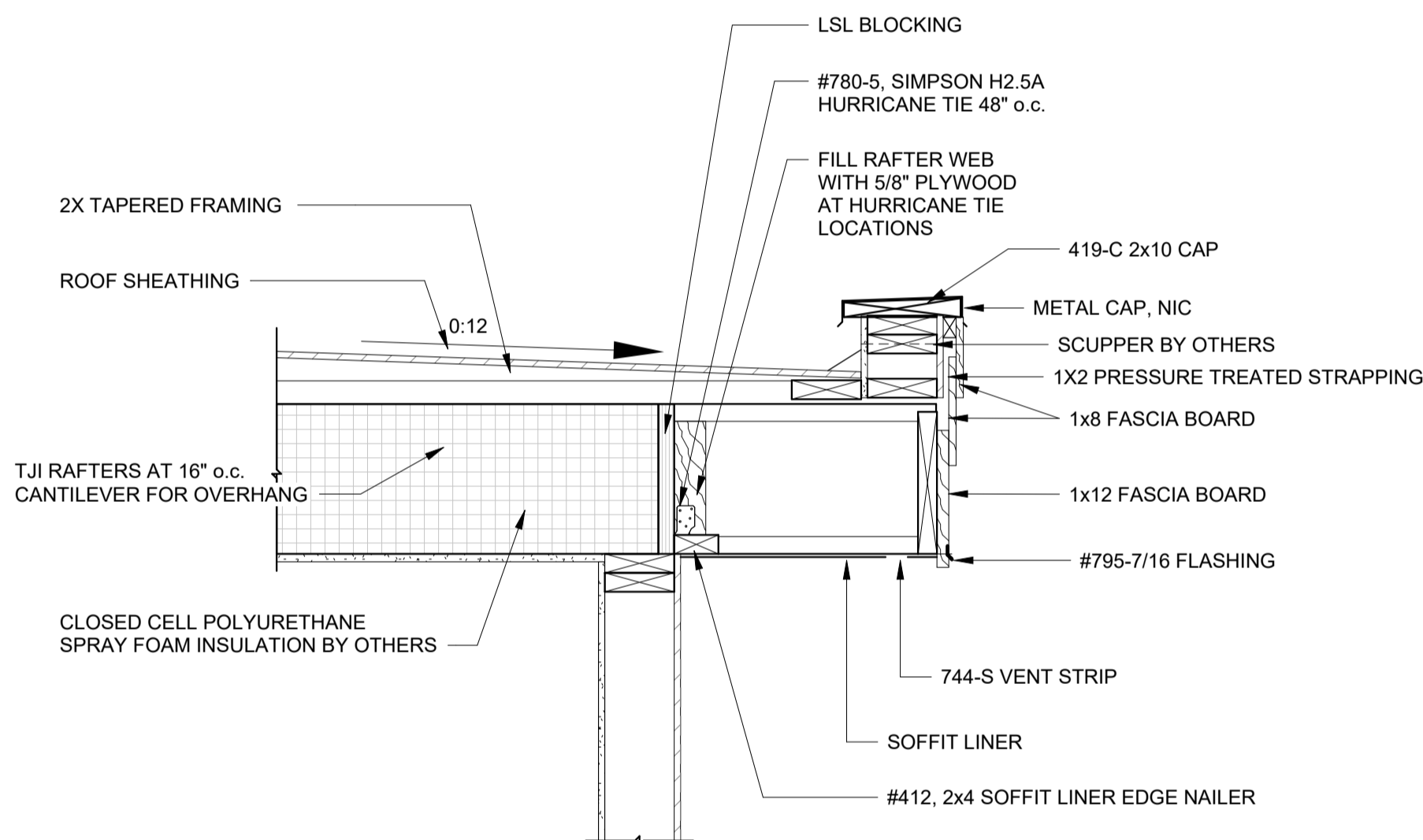
1 2X8 RAFTER PARALLEL TO WALL WINDOW
A502 1" = 1'-0"



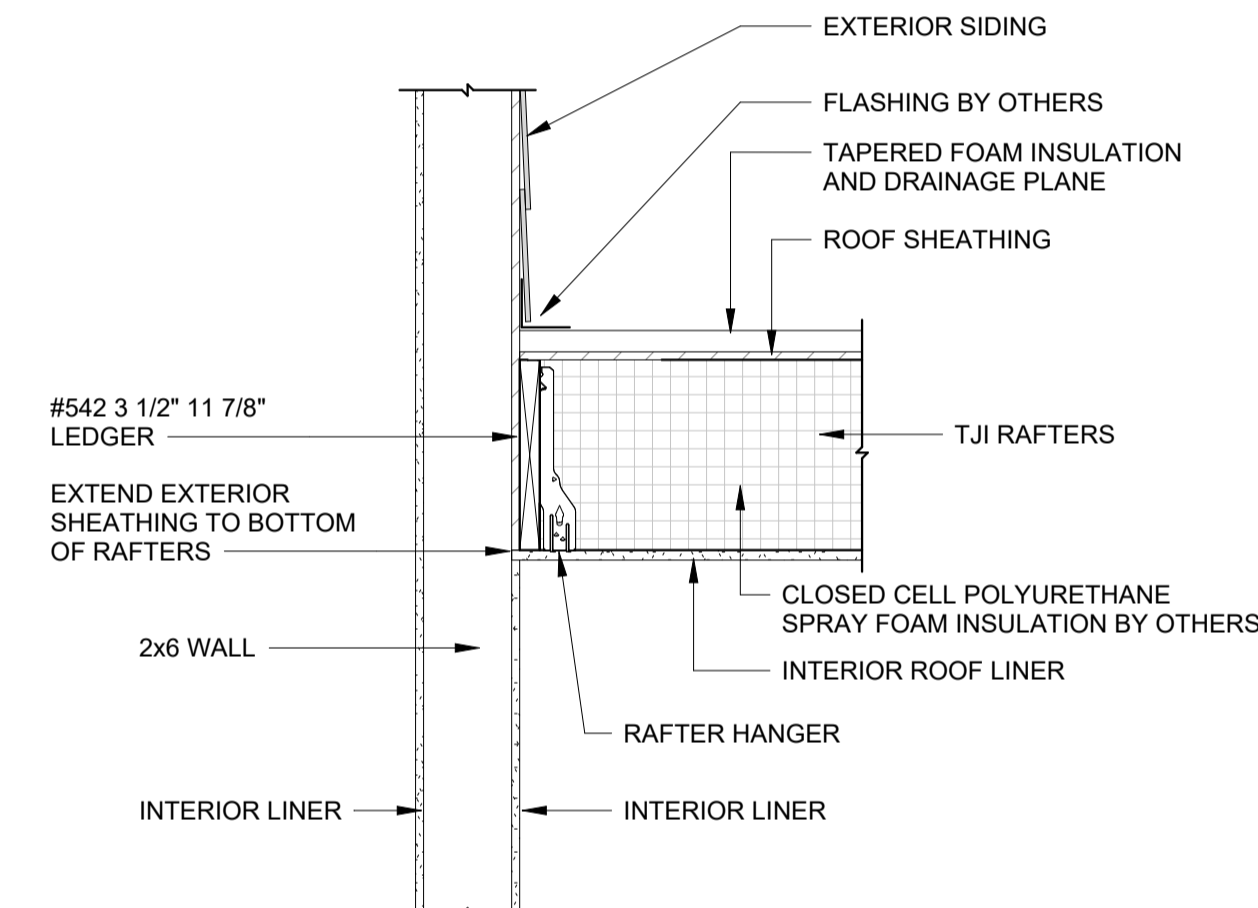
2 2X8 RAFTER PERPENDICULAR TO BEAMS
A502 1" = 1'-0"



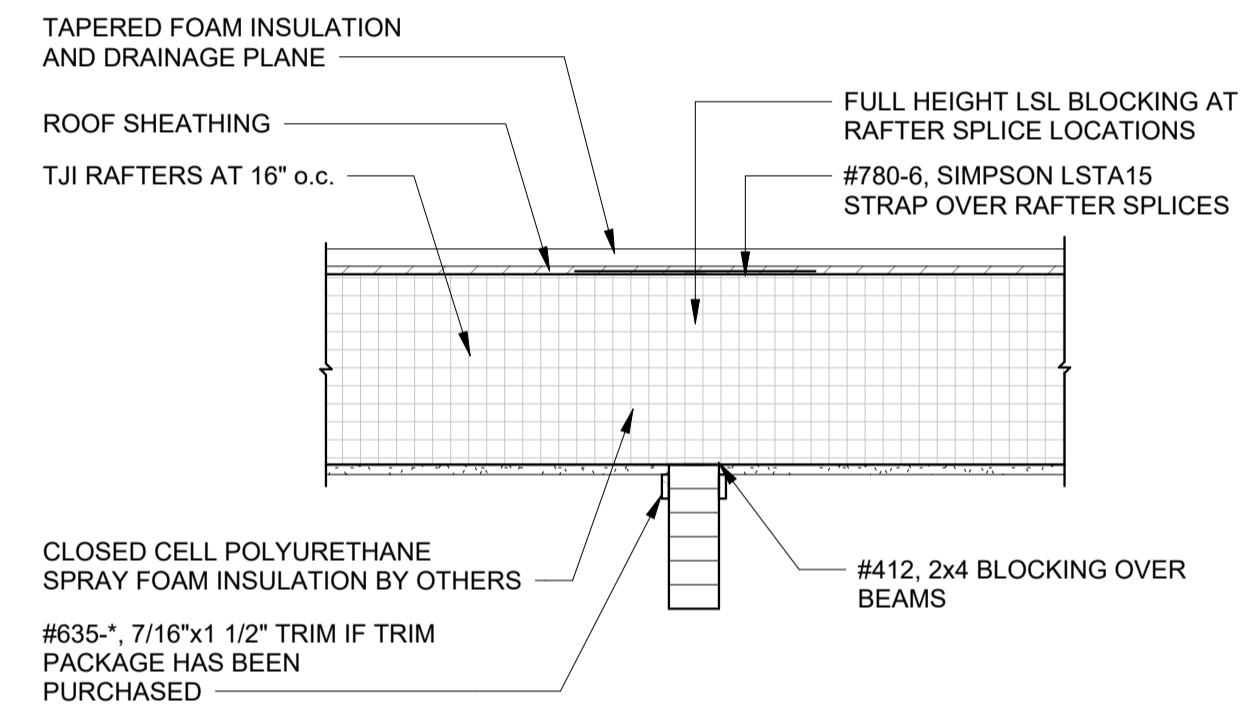
3 2X8 RAFTER TO BEAM
A502 1" = 1'-0"



4 11 7/8" TJI RAFTER CANTILEVER
A502 1" = 1'-0"



5 11 7/8" TJI TO WALL
A502 1" = 1'-0"



6 11 7/8" TJI TO BEAM
A502 1" = 1'-0"

REVISION NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/27/2023
2	CITY COMMENT 2	ES	4/3/2024
3	CITY COMMENT 3	ES	11/27/2023

ISSUANCES			

WARRANTY NUMBER

42255

SERIES



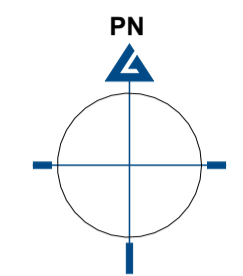
MODEL

CUSTOM ELEMENT HOME

DETAILS - ROOF

Scale: 1" = 1'-0"

A502

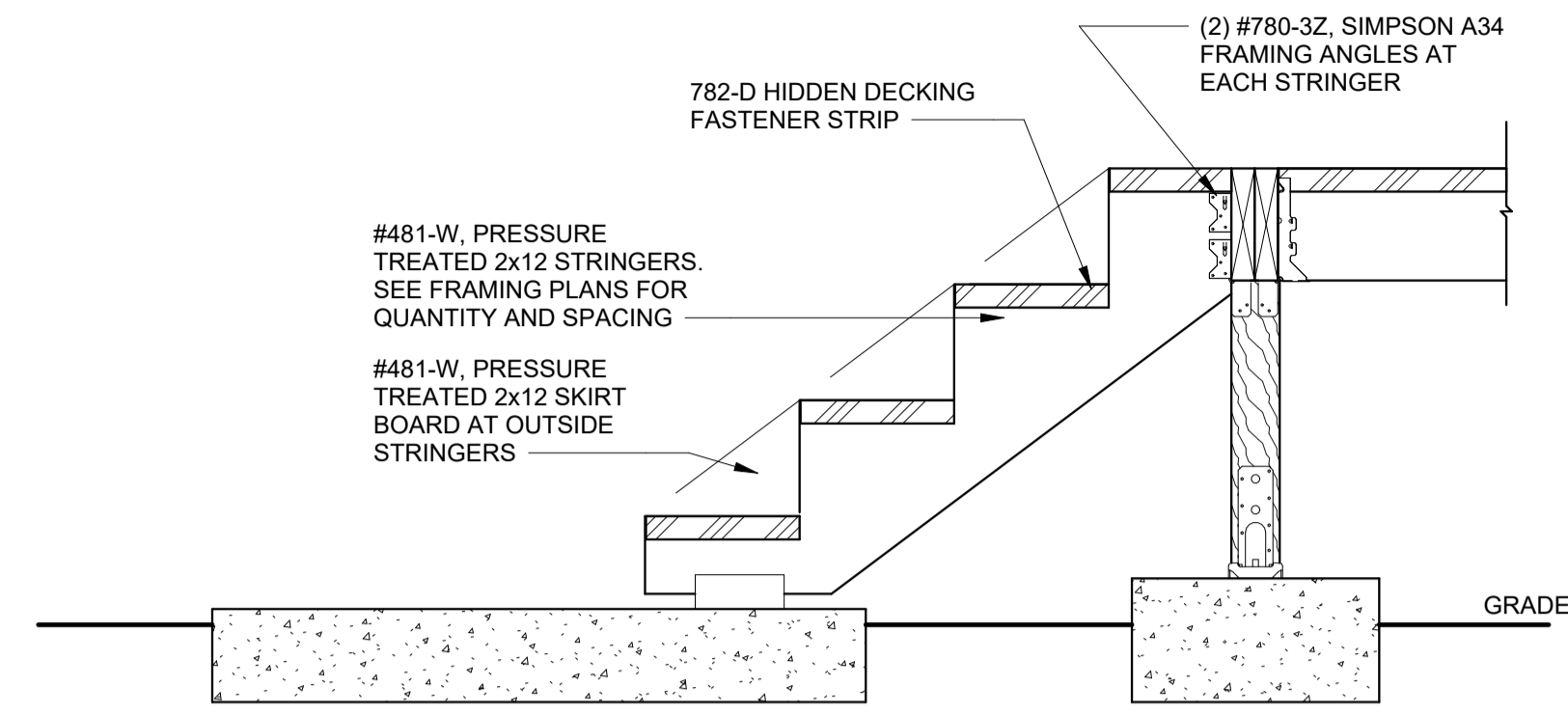


PROJECT NORTH

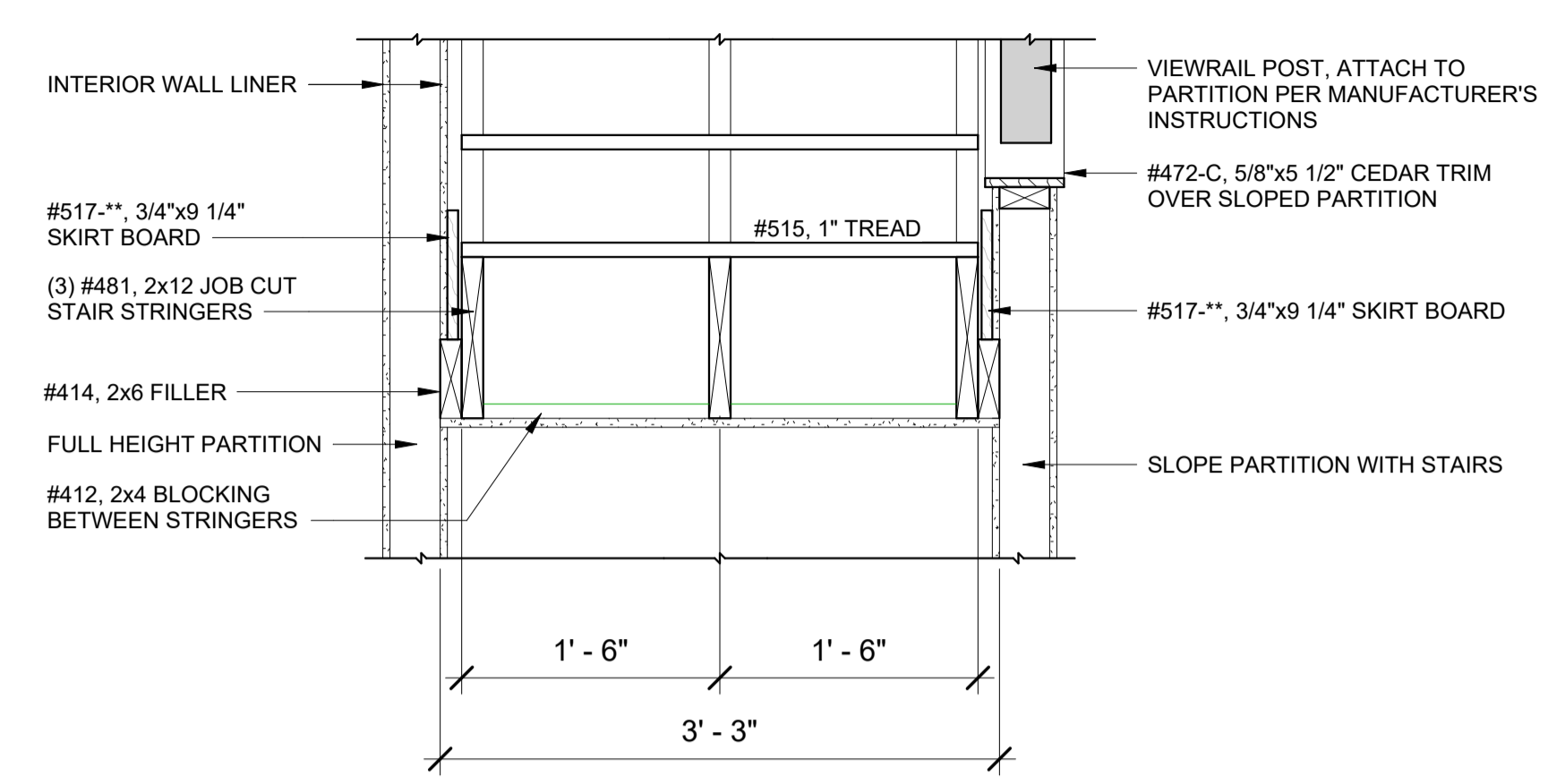
LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

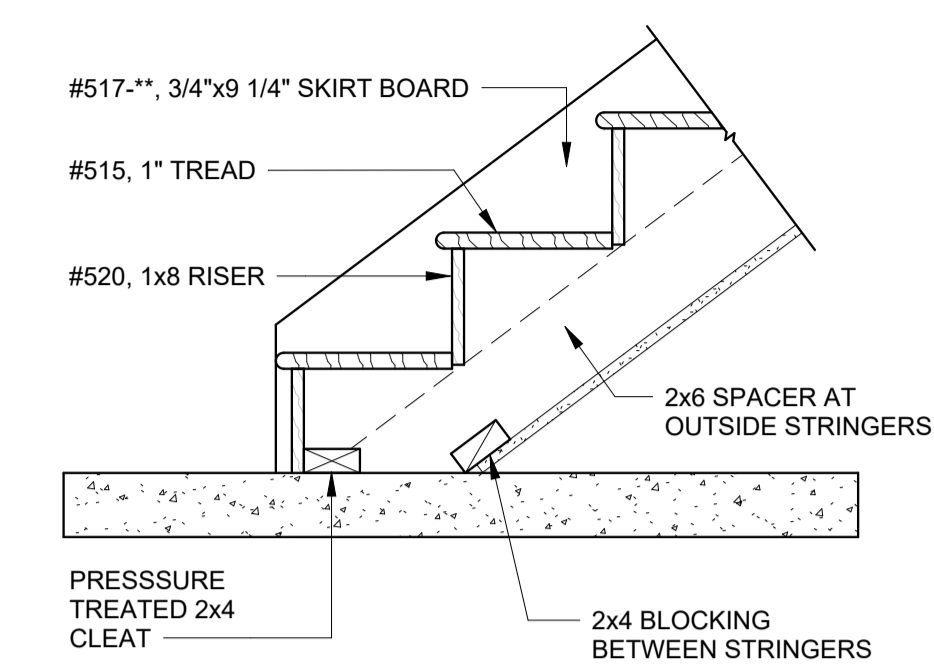
PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040



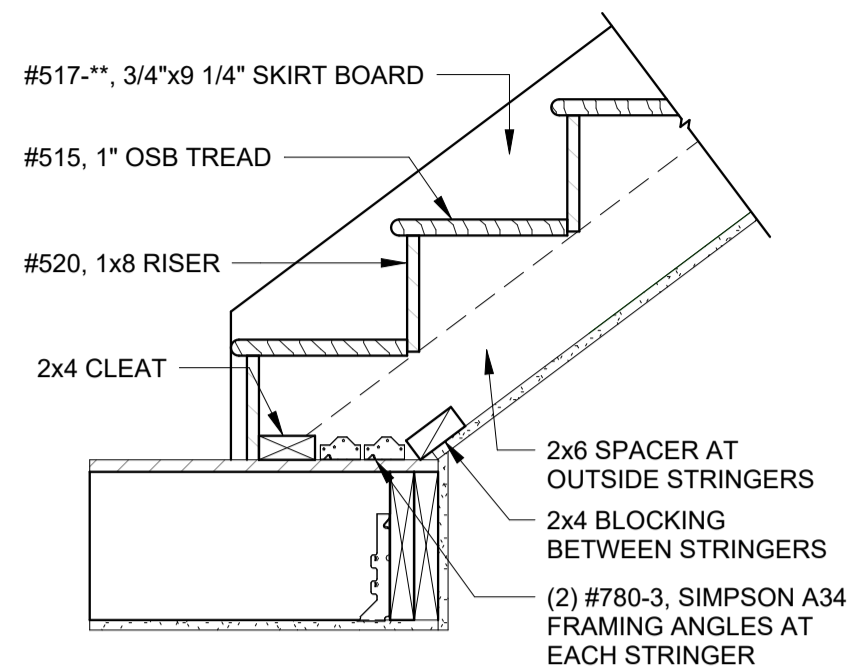
1 EXT PATIO STAIR
A503 1" = 1'-0"



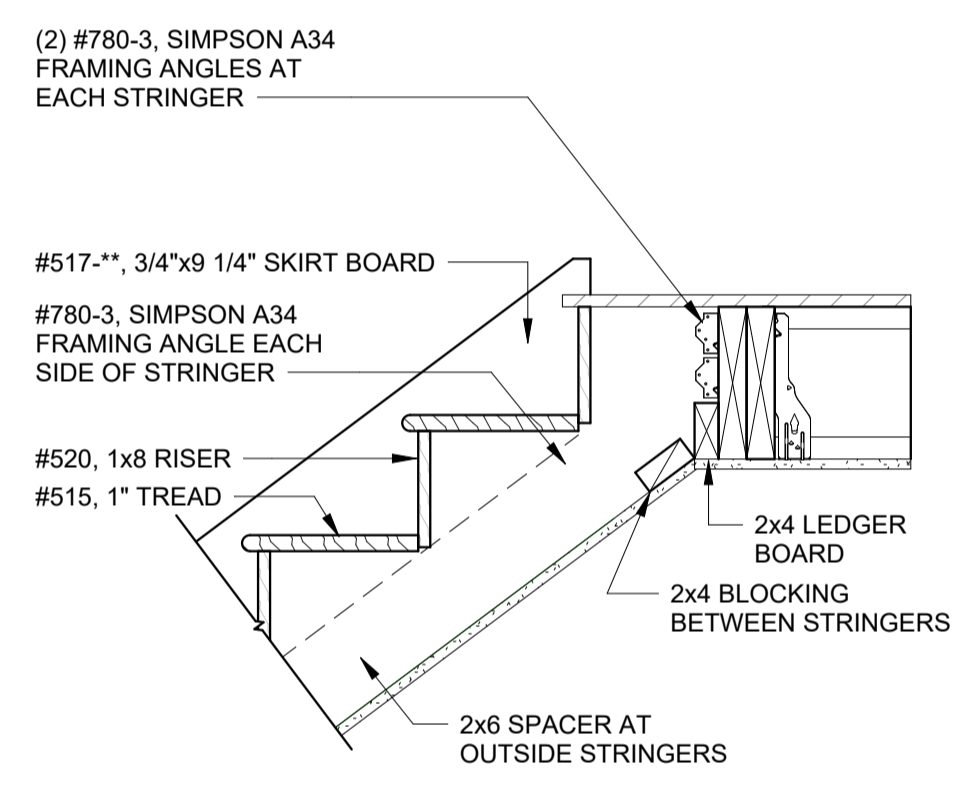
2 STAIR SECTION WALL 1 RAIL TYP BY OTHERS
A503 1" = 1'-0"



3 STAIRS AT BOTTOM TYP CONCRETE
1" = 1'-0"



4 STAIRS AT BOTTOM TYP BY OTHERS
1" = 1'-0"

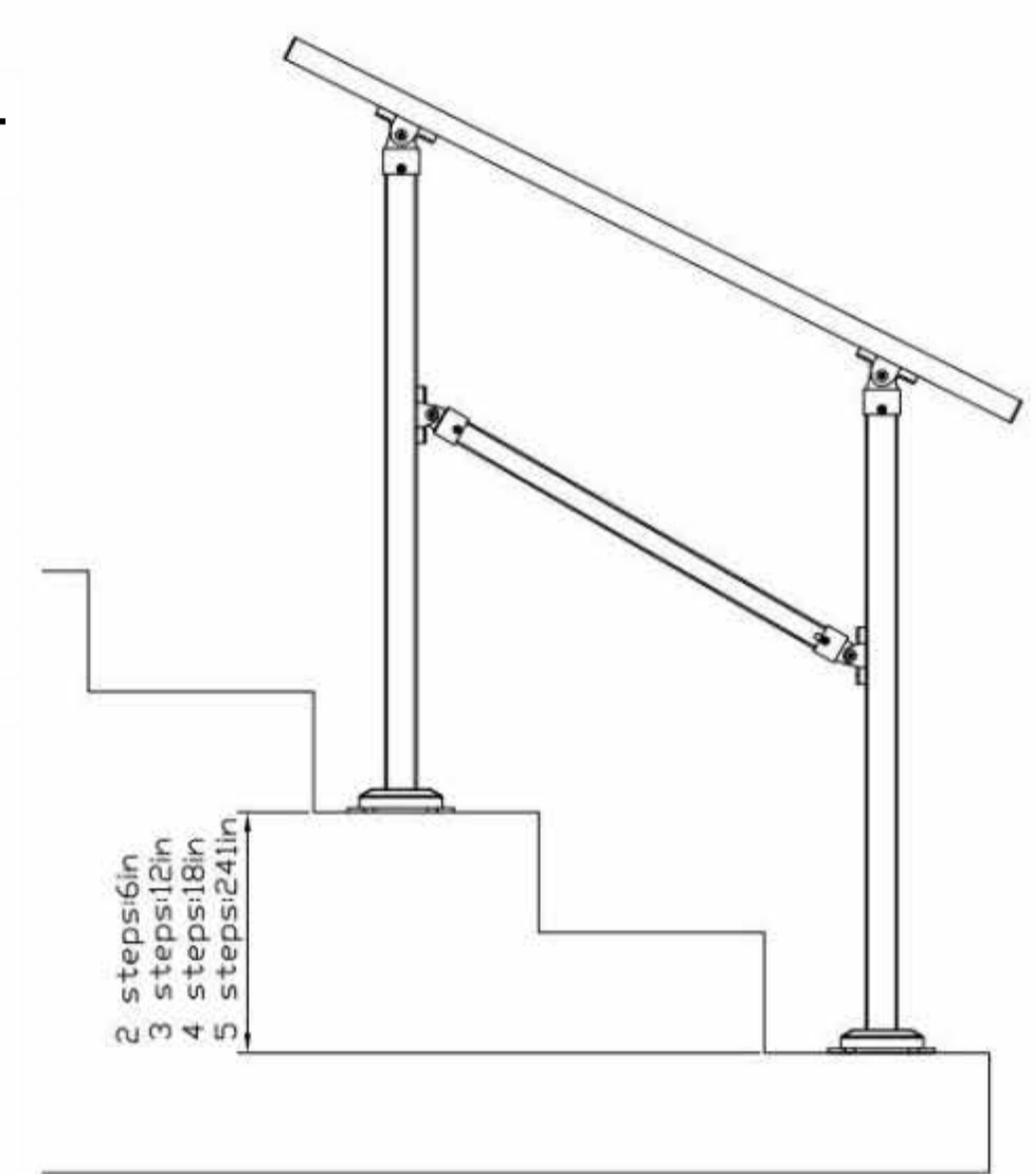


5 STAIRS AT TOP FLOOR TYP BY OTHERS
1" = 1'-0"

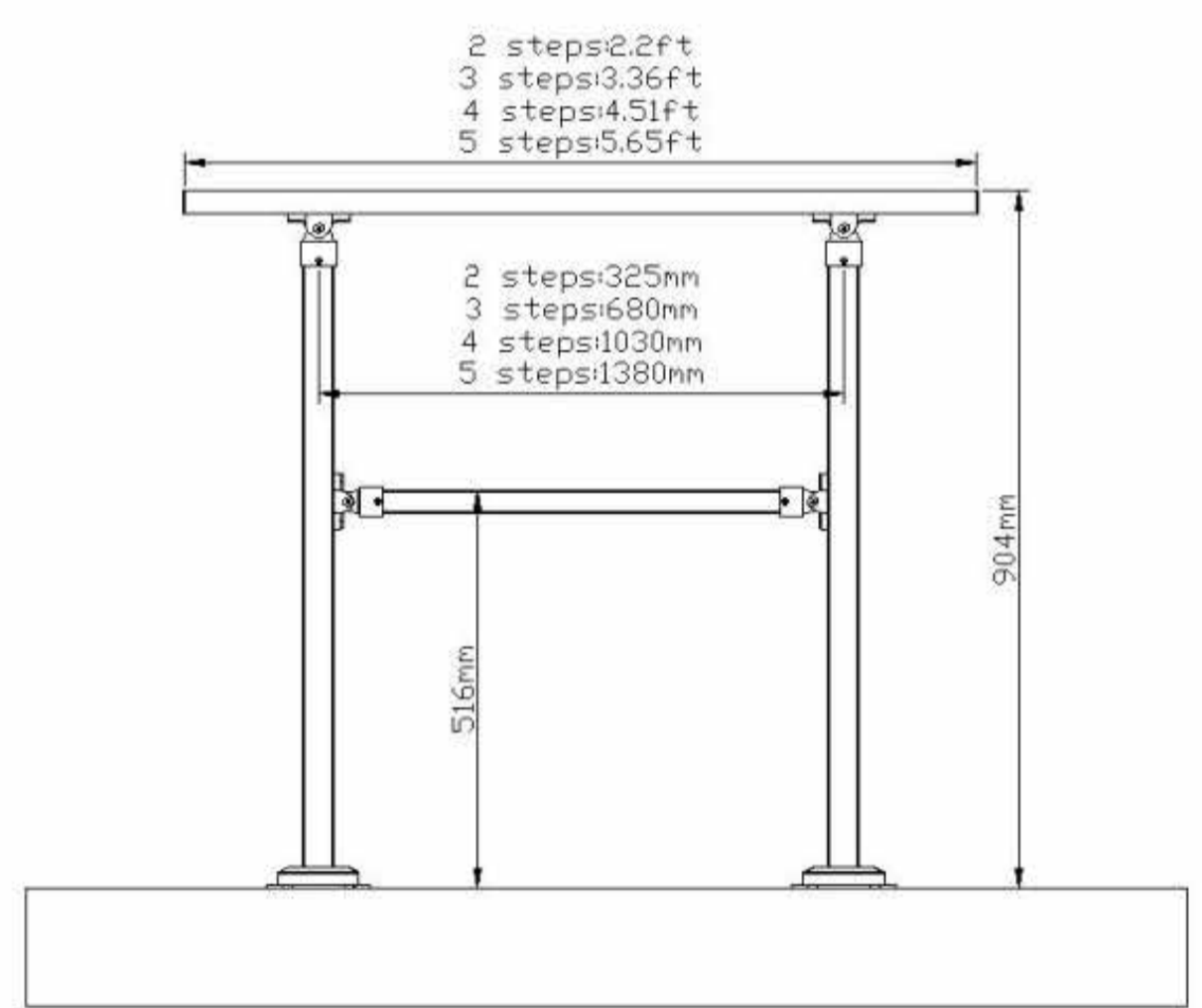
2x12 JOB CUT STAIR MATERIAL LIST

PART #	DESCRIPTION	QTY
481	2x12 STRINGERS	3 at ***-0"
515	1x12 TREADS	** PC
520	1x8 RISERS	** PC
414	2x6 FILLER / BLOCKING	** LF
412	2x4 BLOCKING	** LF
780-3	A34 FRAMING ANGLES	** PC
517	3/4"x9" GLULAM SKIRT BOARD	* at **,***
527	1 1/2"x9" GLULAM SKIRT BOARD	* at **,***
472-C	5/8"x5 1/2" CEDAR TRIM	** LF

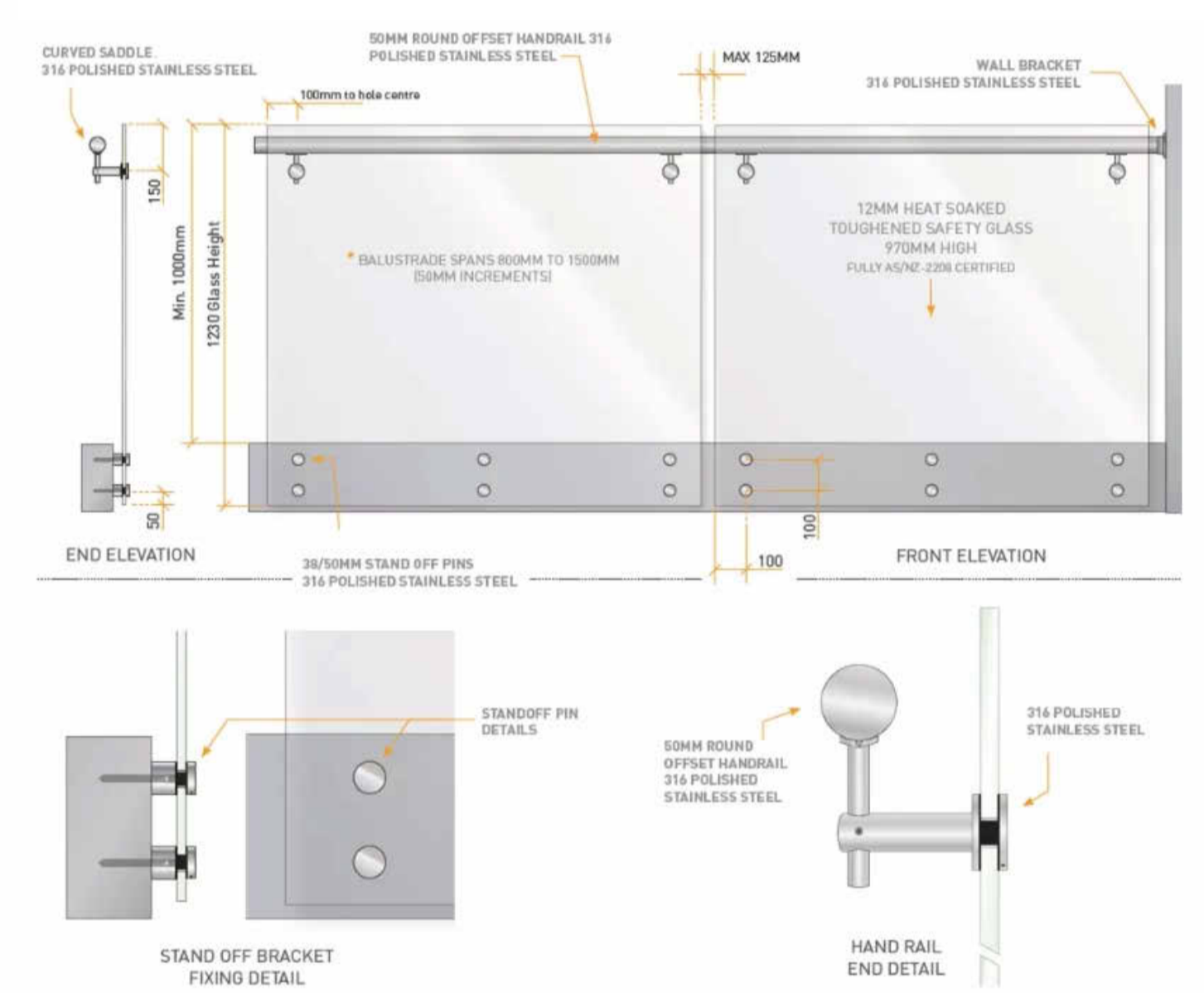
6 2X12 STAIR PARTS LIST
A503 1" = 1'-0"



7 OUTDOOR HANDRAIL RAILING
A503 1" = 1'-0"

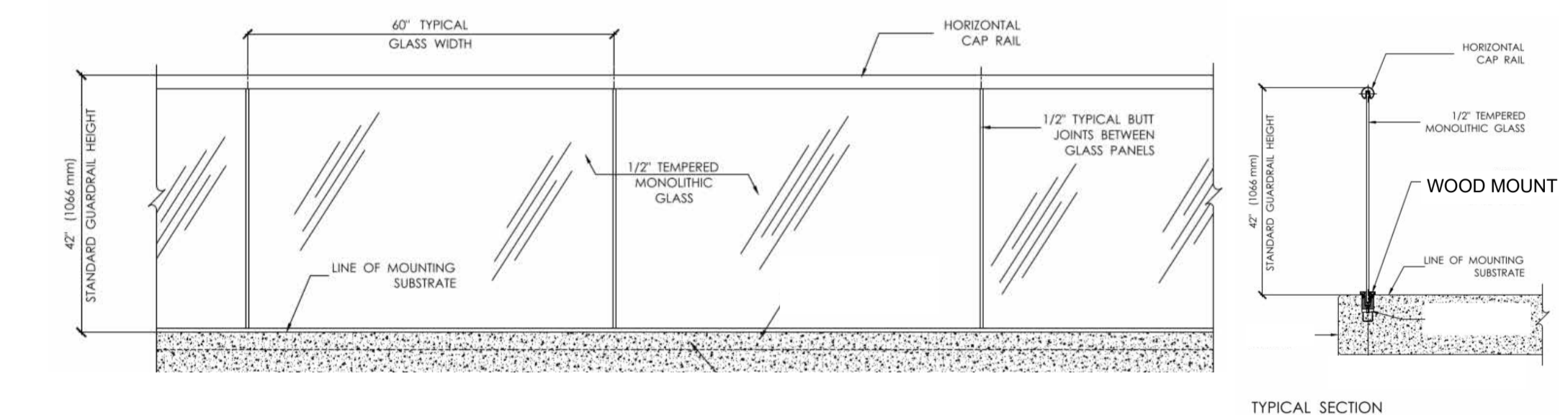


8 DECK RAILING
A503 1" = 1'-0"

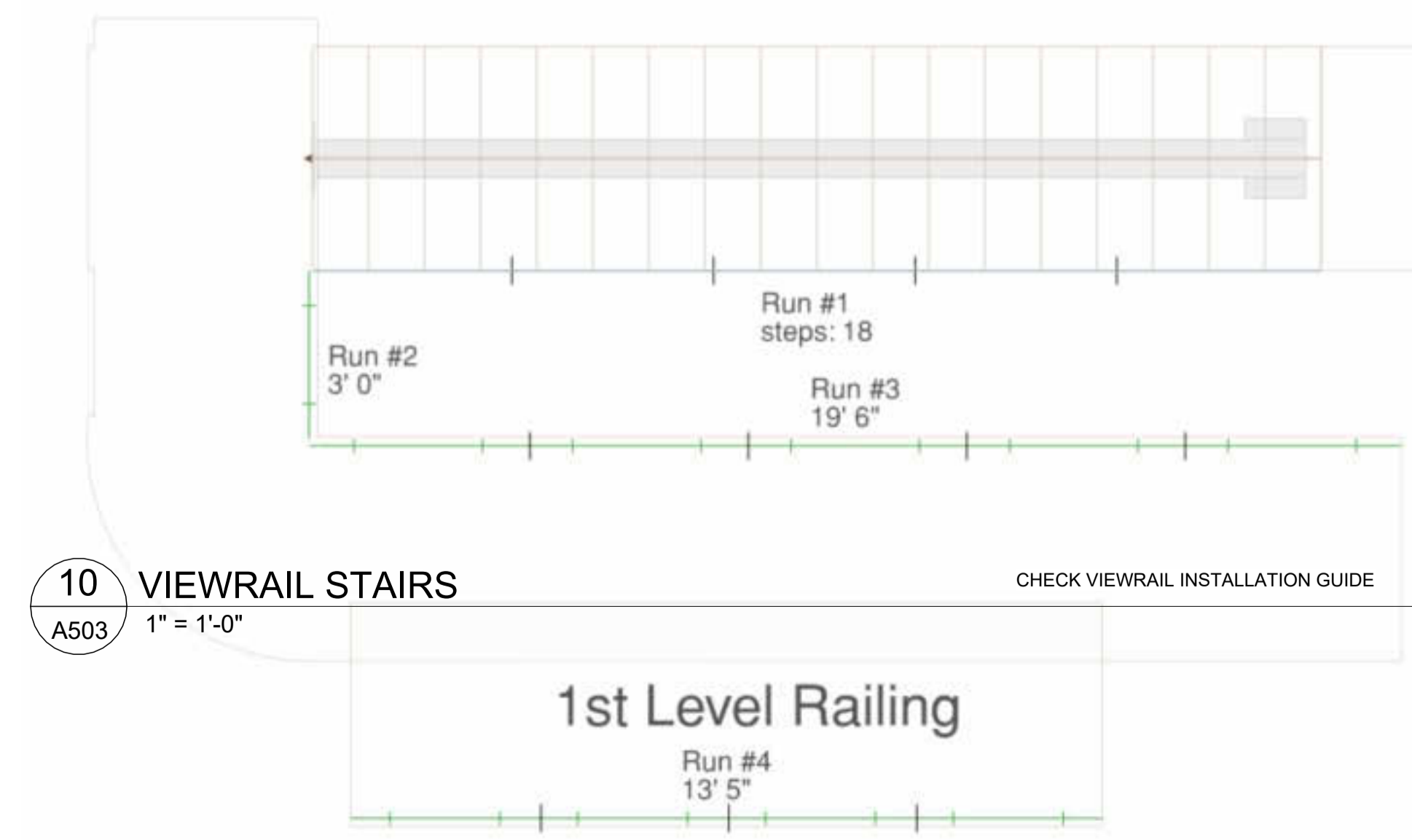


NOTE: STANDOFF GLASS RAILIN BY VIEWRAIL, FOLLOW INSTRUCTIONS FOR PROPER INSTALATION

1st Floor to 2nd Floor FLIGHT



9 INT GLASS RAILING
A503 1" = 1'-0"



10 VIEWRAIL STAIRS
A503 1" = 1'-0"

REVISION NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/27/2023
2	CITY COMMENT 2	ES	4/3/2024
1	CITY COMMENTS	ES	11/27/2023

ISSUANCES

WARRANTY NUMBER

42255

SERIES



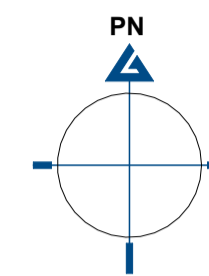
MODEL

CUSTOM ELEMENT HOME

DETAILS - STAIRS, DECKS & RAILINGS

Scale: 1" = 1'-0"

A503

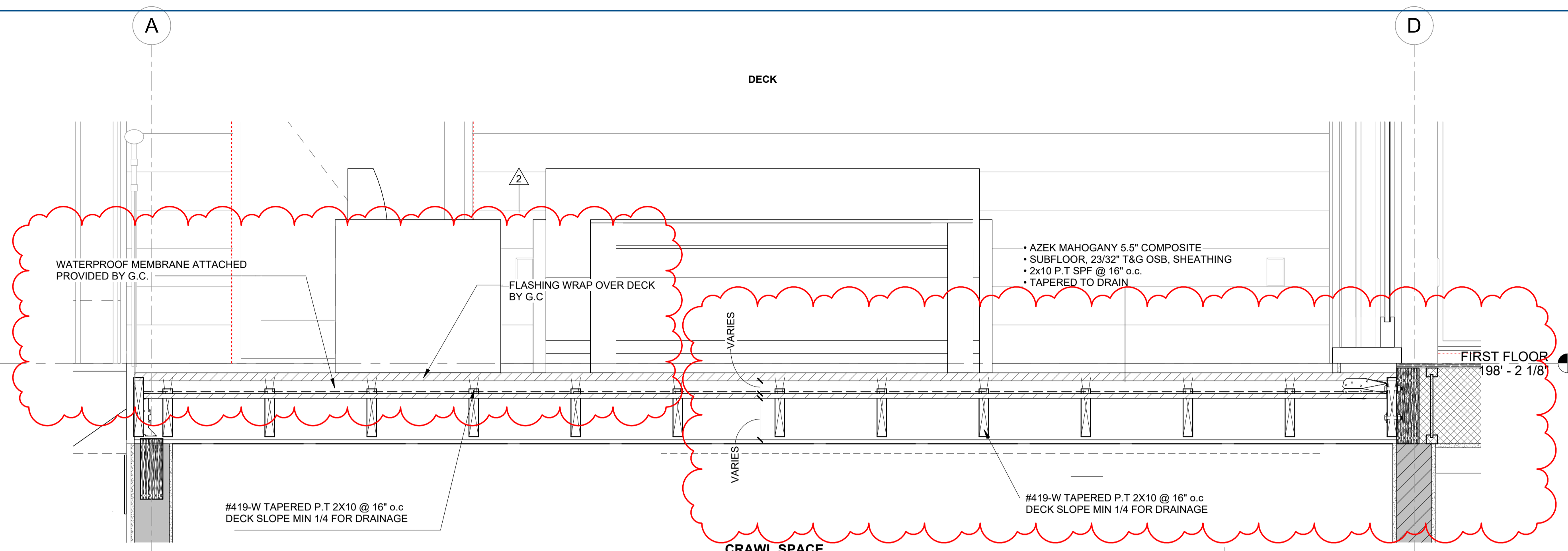


PROJECT NORTH

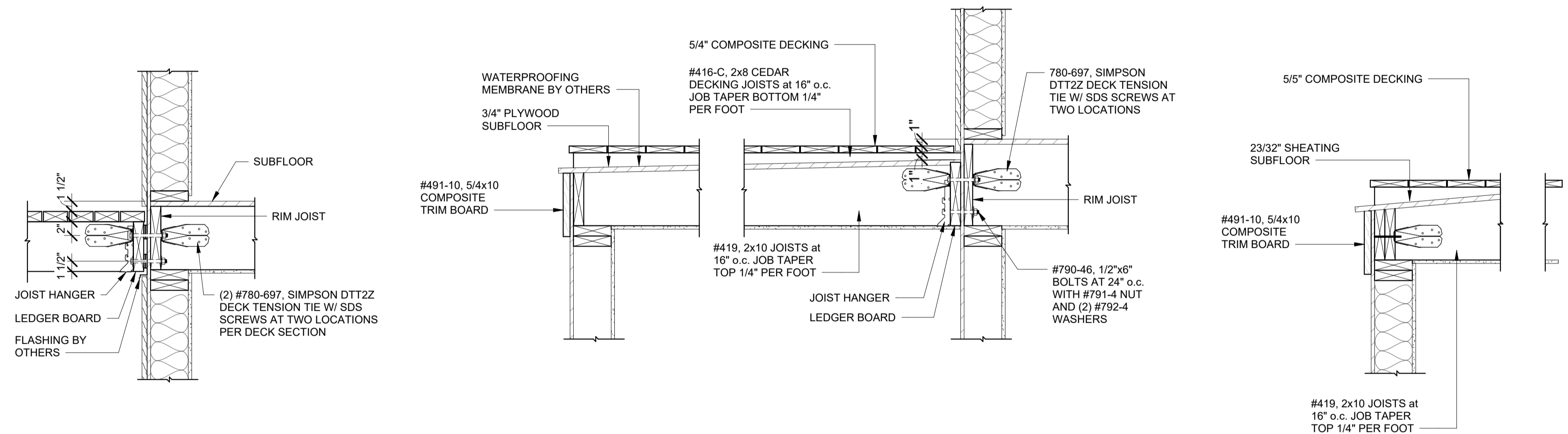
LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040



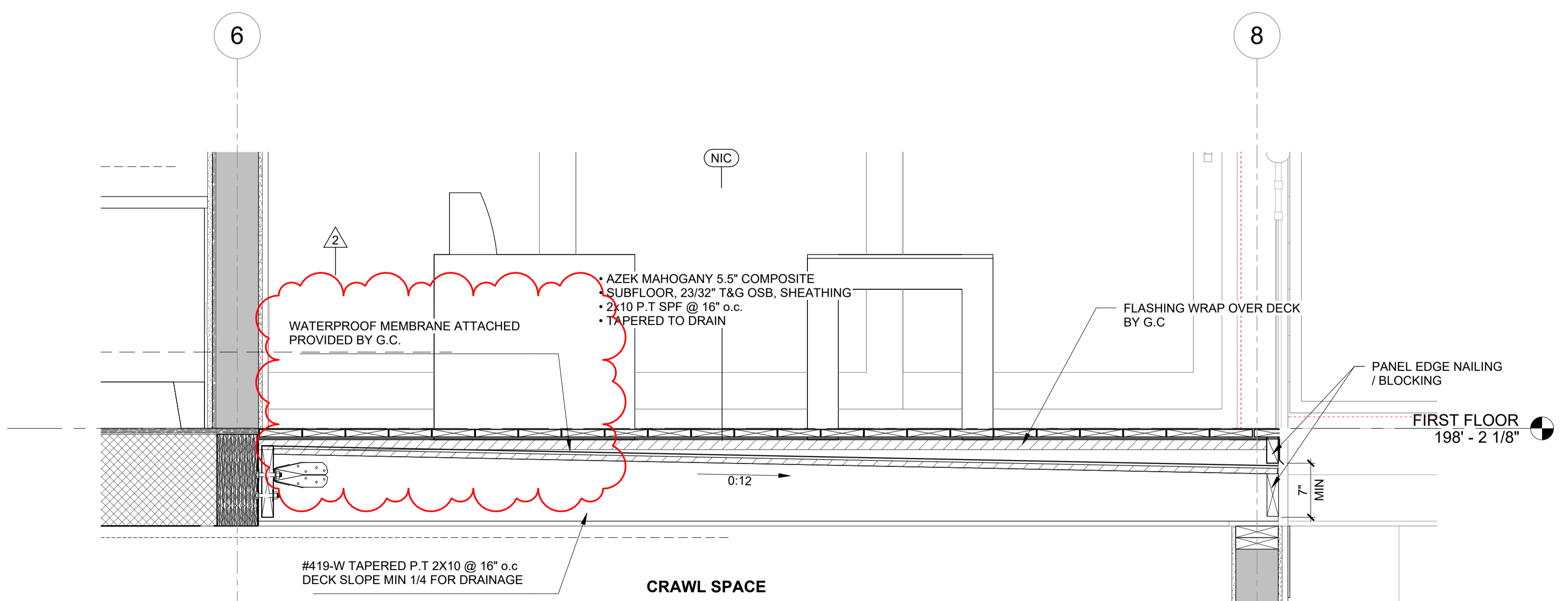
1 Detail 0
A503.2 1" = 1'-0"



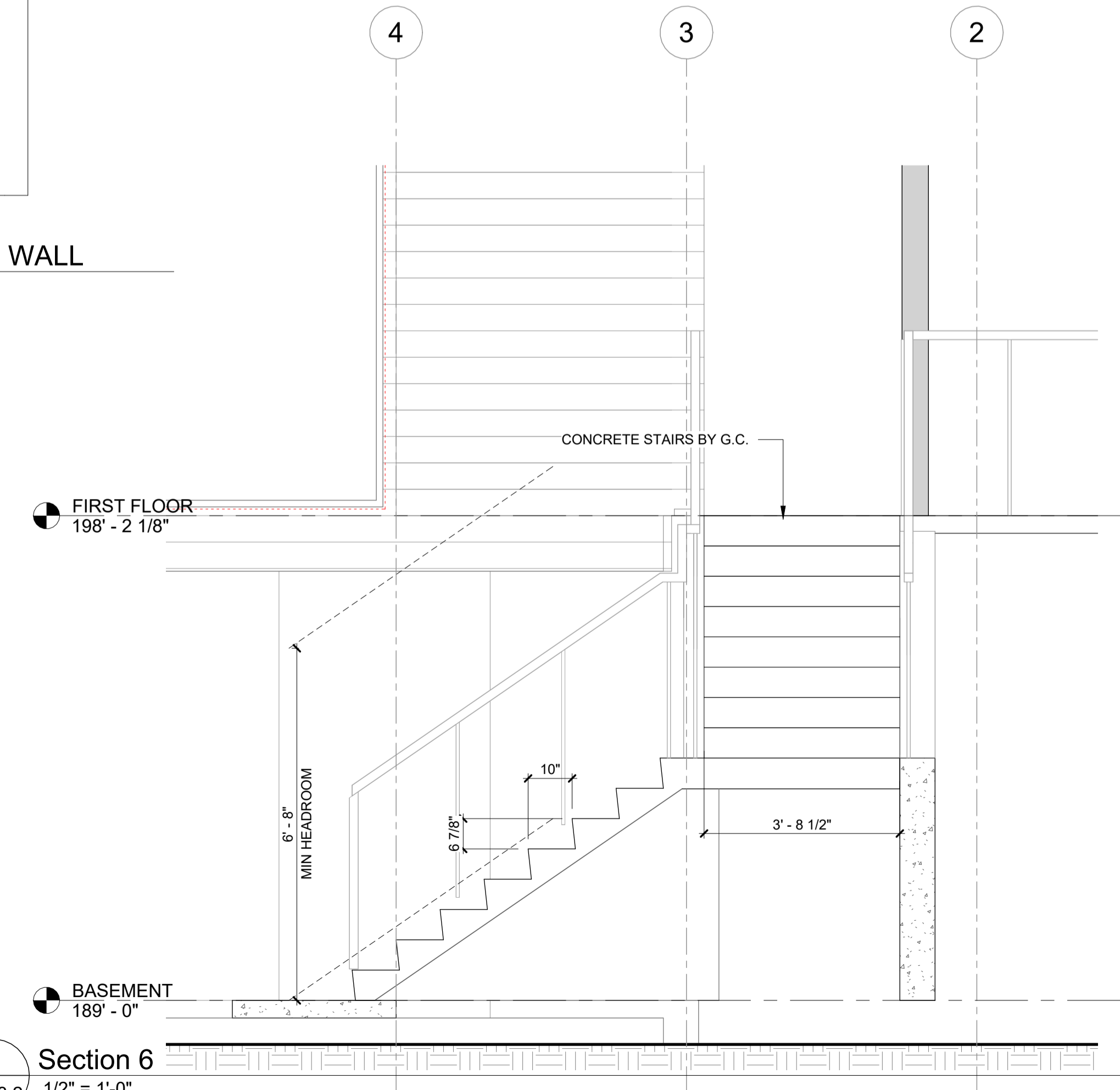
3 DECK CONNECTION TIE
A503.2 1" = 1'-0"

5 DECK WATERPROOF
A503.2 1" = 1'-0"

4 DECK CONNECTION WALL
A503.2 1" = 1'-0"



2 Detail 1
A503.2 1" = 1'-0"



6 Section 6
A503.2 1/2" = 1'-0"

REVISION NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/27/2023
2	CITY COMMENT 2	ES	4/3/2024
3	CITY COMMENT 3	ES	11/27/2023

ISSUANCES

WARRANTY NUMBER

42255

SERIES



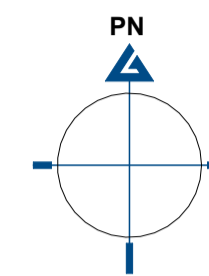
MODEL

CUSTOM ELEMENT HOME

DETAILS - DECKS & STAIRS

Scale: As indicated

A503.2



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION NO.	DESCRIPTION	DATE
1	CITY COMMENTS	11/27/2023
2	CITY COMMENT 2	4/3/2024
ES		

ISSUANCES

WARRANTY NUMBER

42255

SERIES



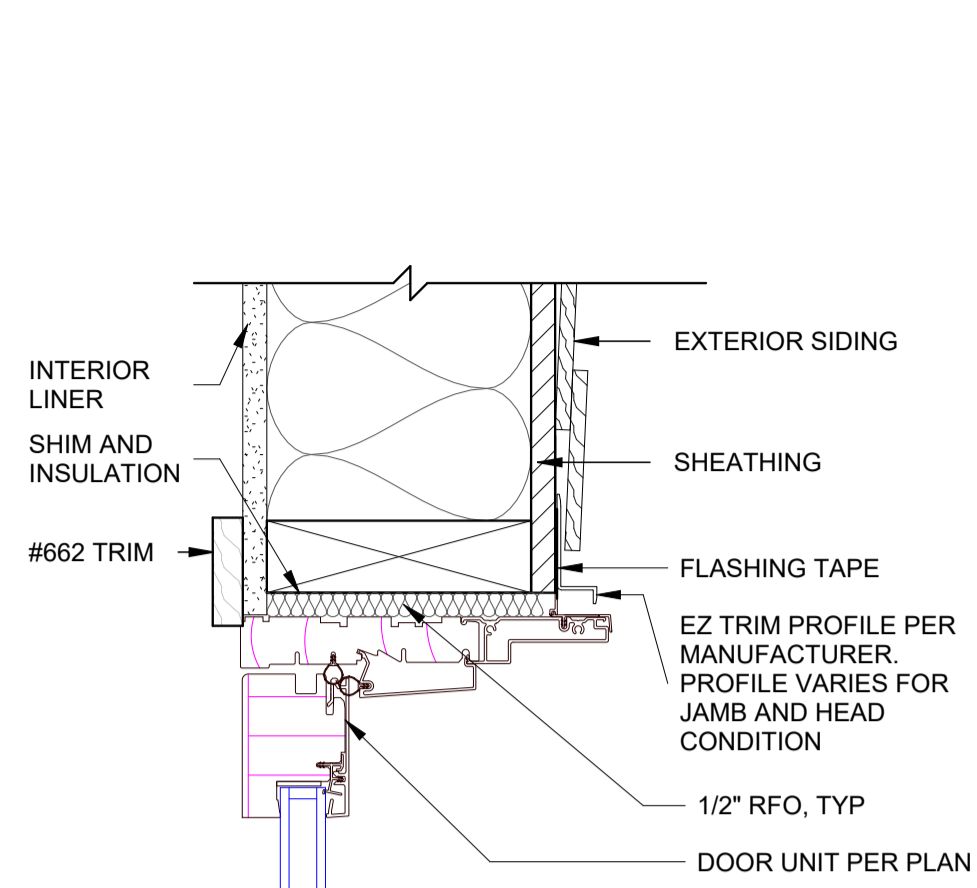
MODEL

CUSTOM ELEMENT HOME

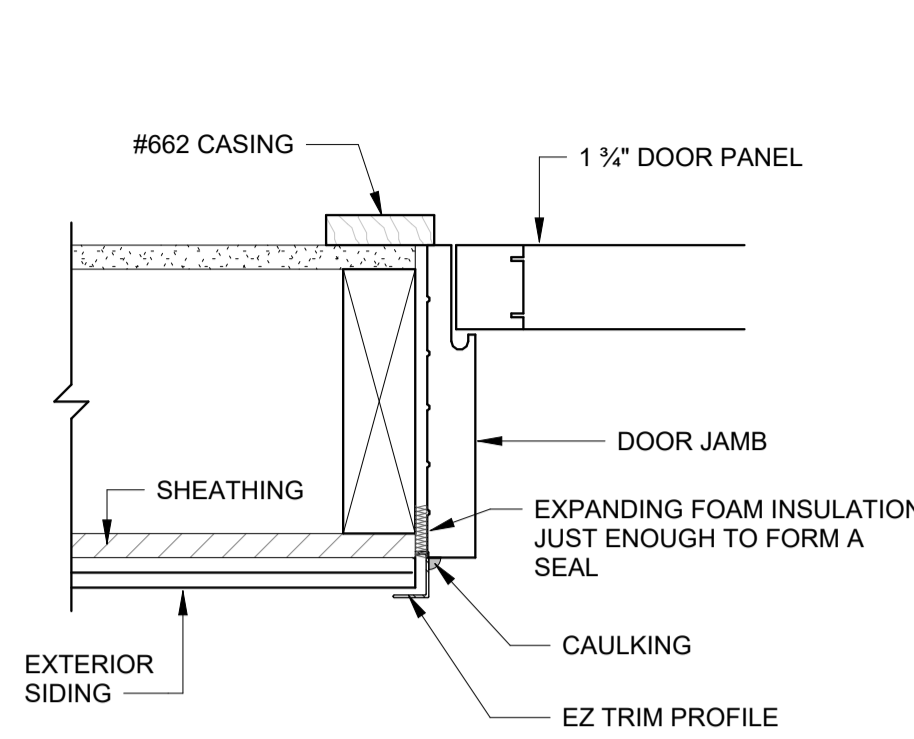
DETAILS - DOORS

Scale: As indicated

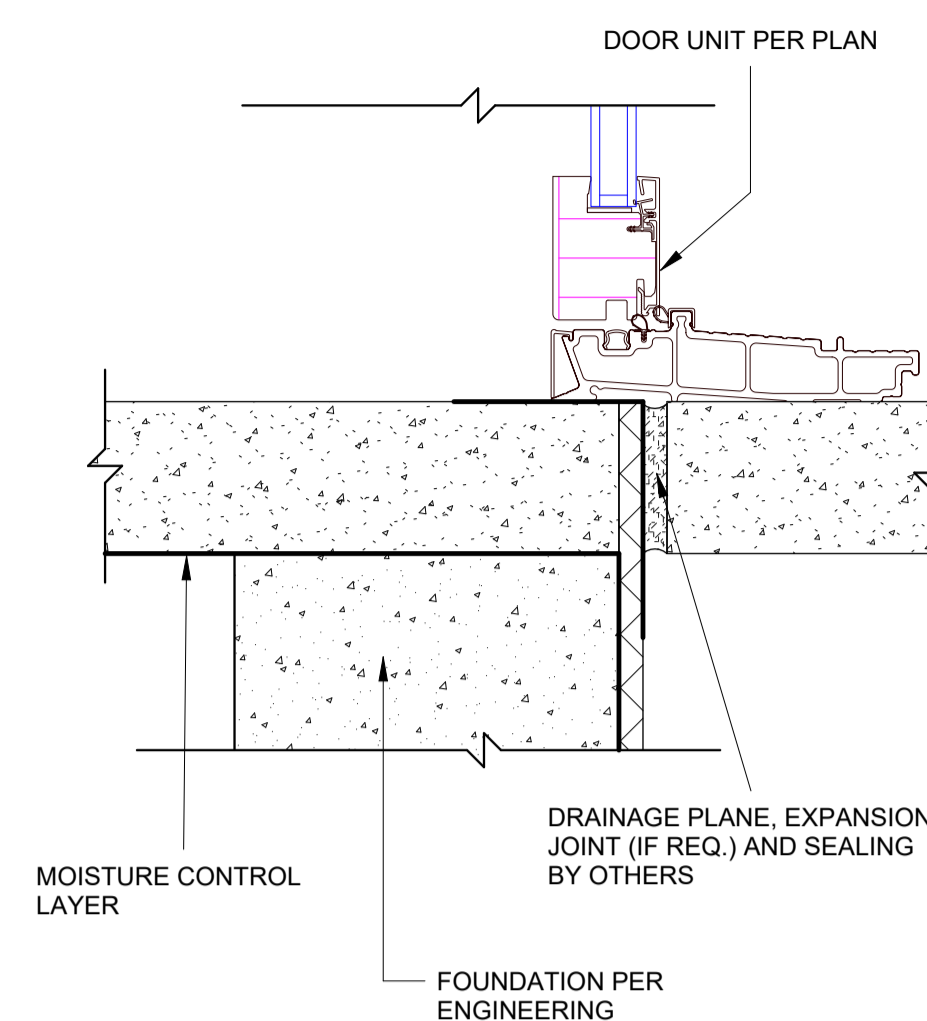
A504



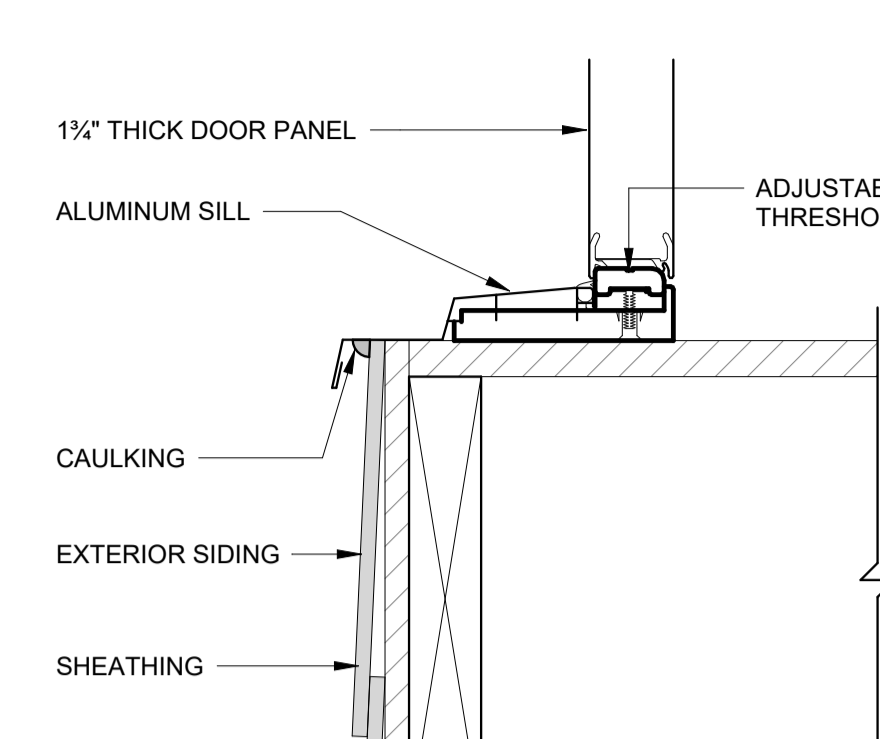
1 EXT DOOR HEAD
A504 3" = 1'-0"



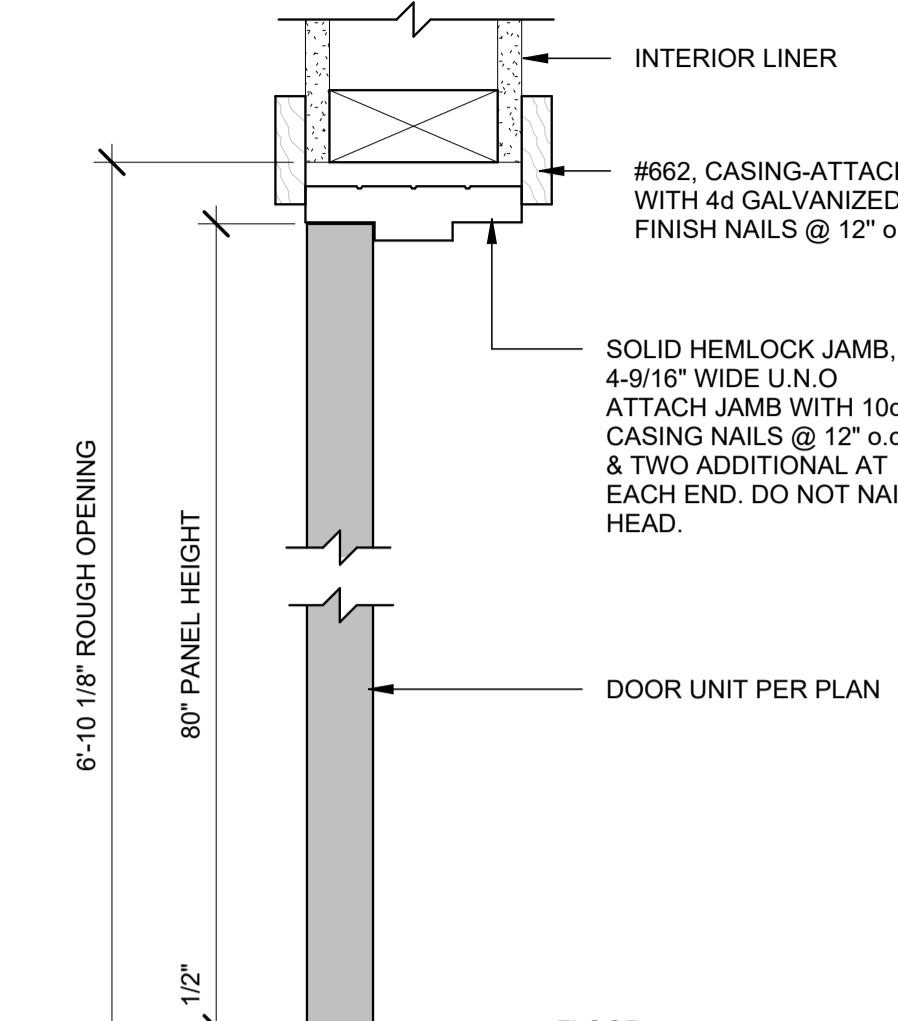
2 EXT DOOR JAMB
A504 3" = 1'-0"



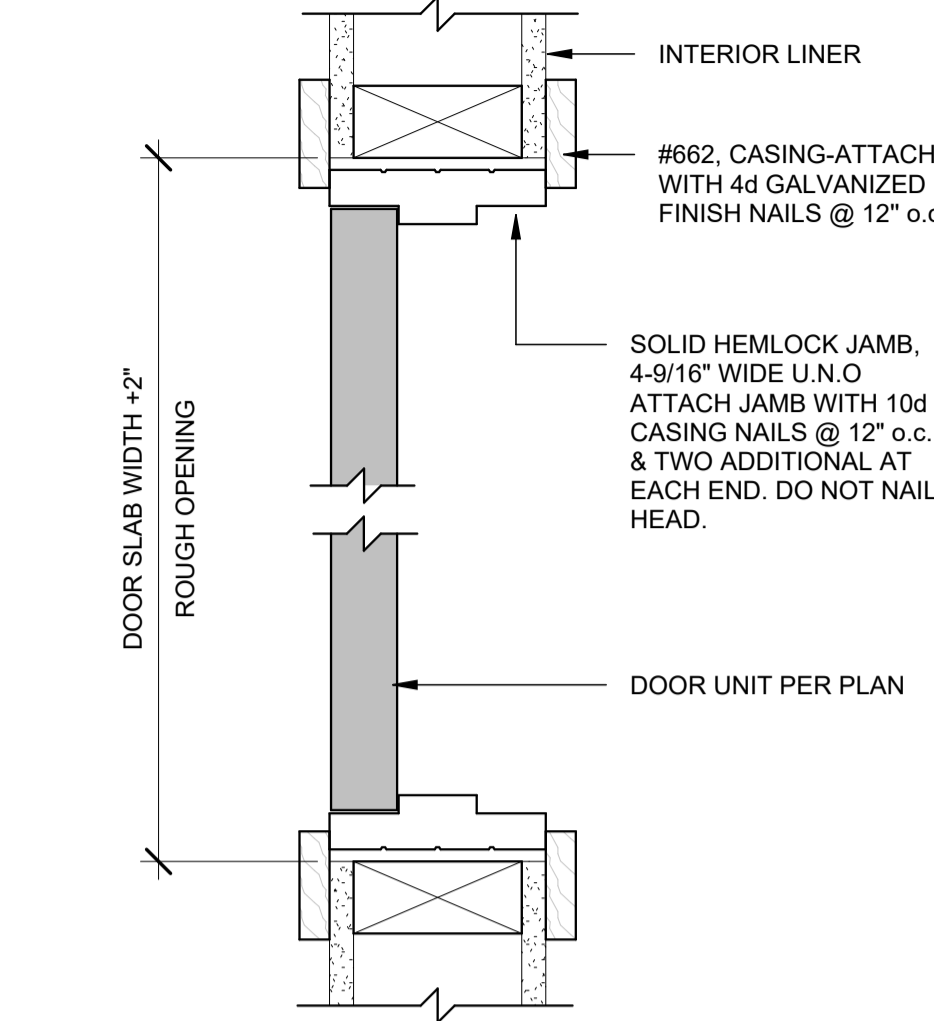
3 EXT DOOR SILL
A504 3" = 1'-0"



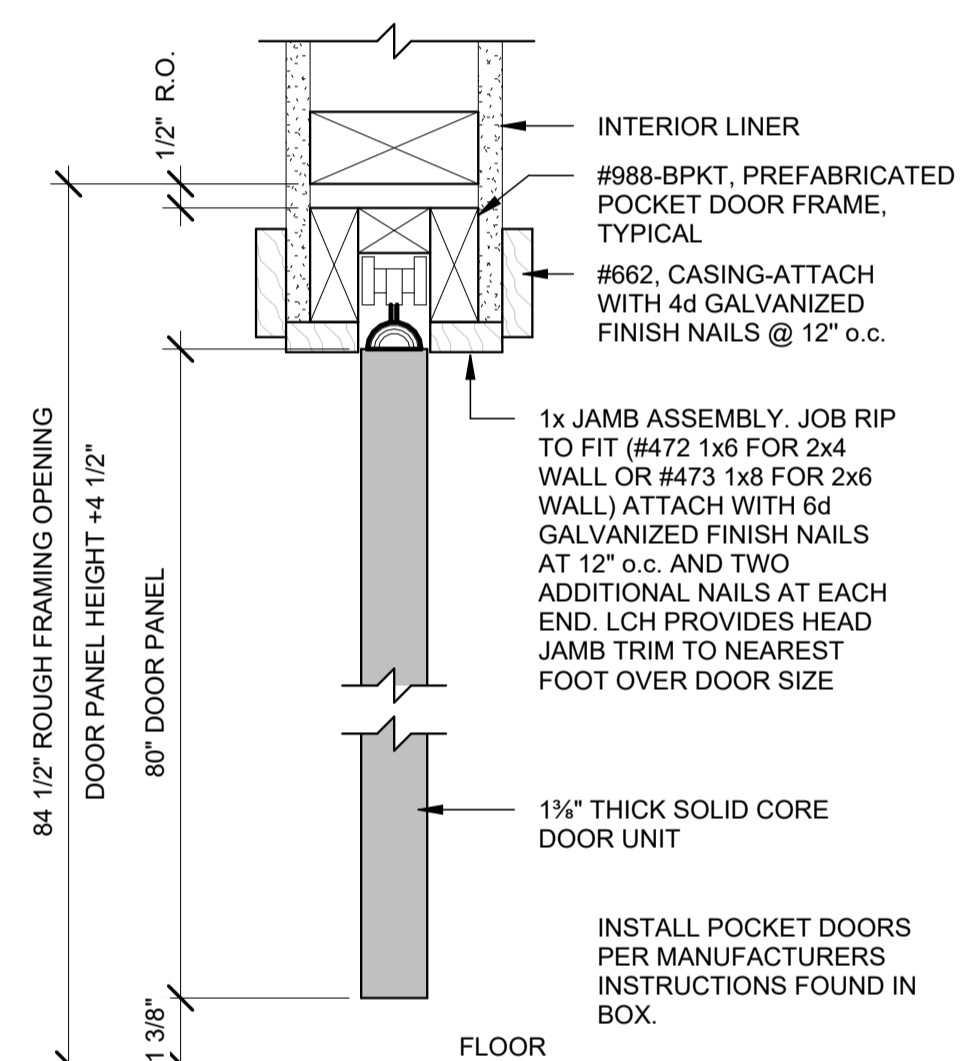
4 EXT DOOR SILL JOIST
A504 3" = 1'-0"



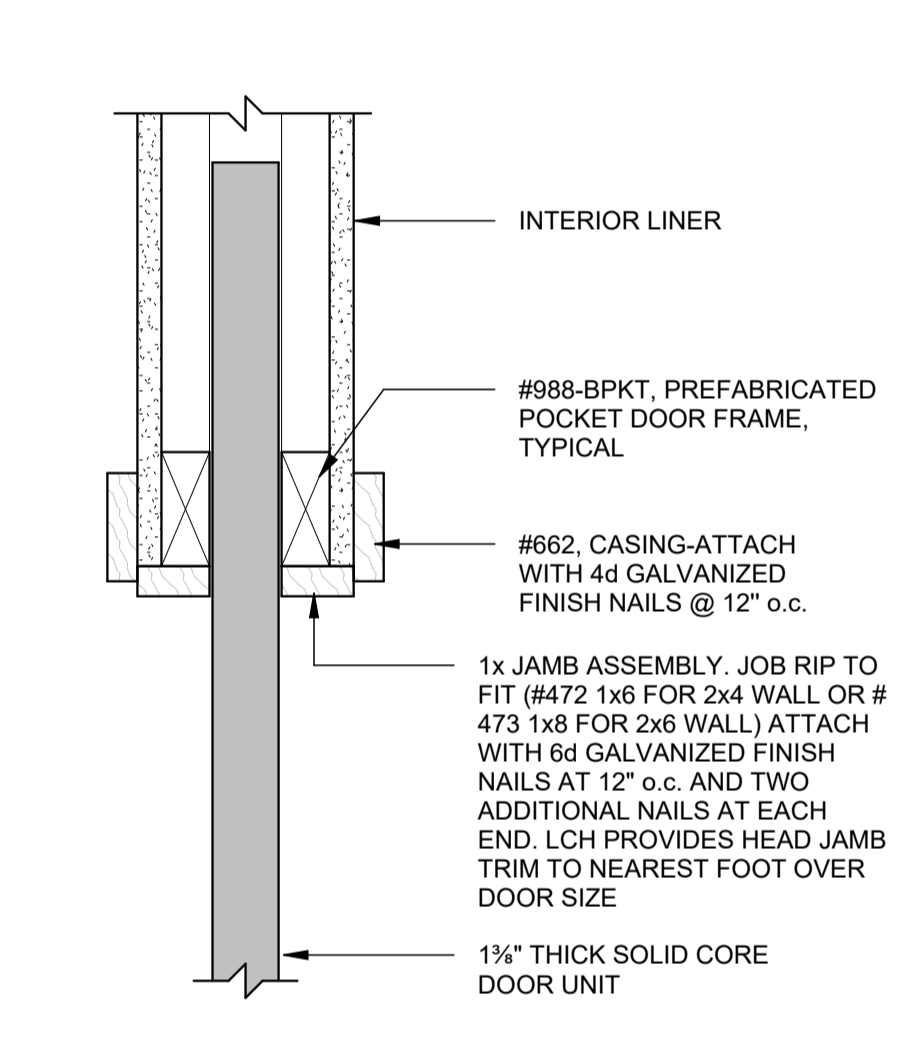
5 INT DOOR HEAD
A504 3" = 1'-0"



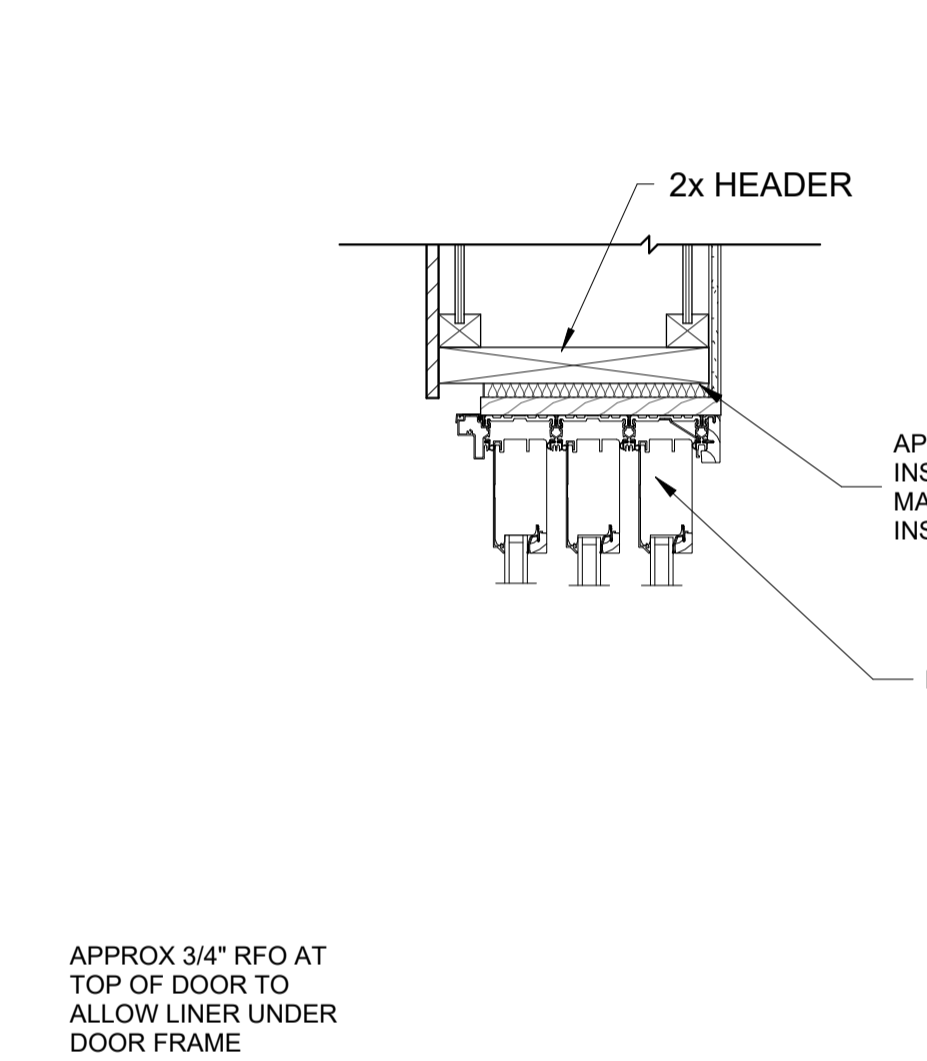
6 INT DOOR JAMB
A504 3" = 1'-0"



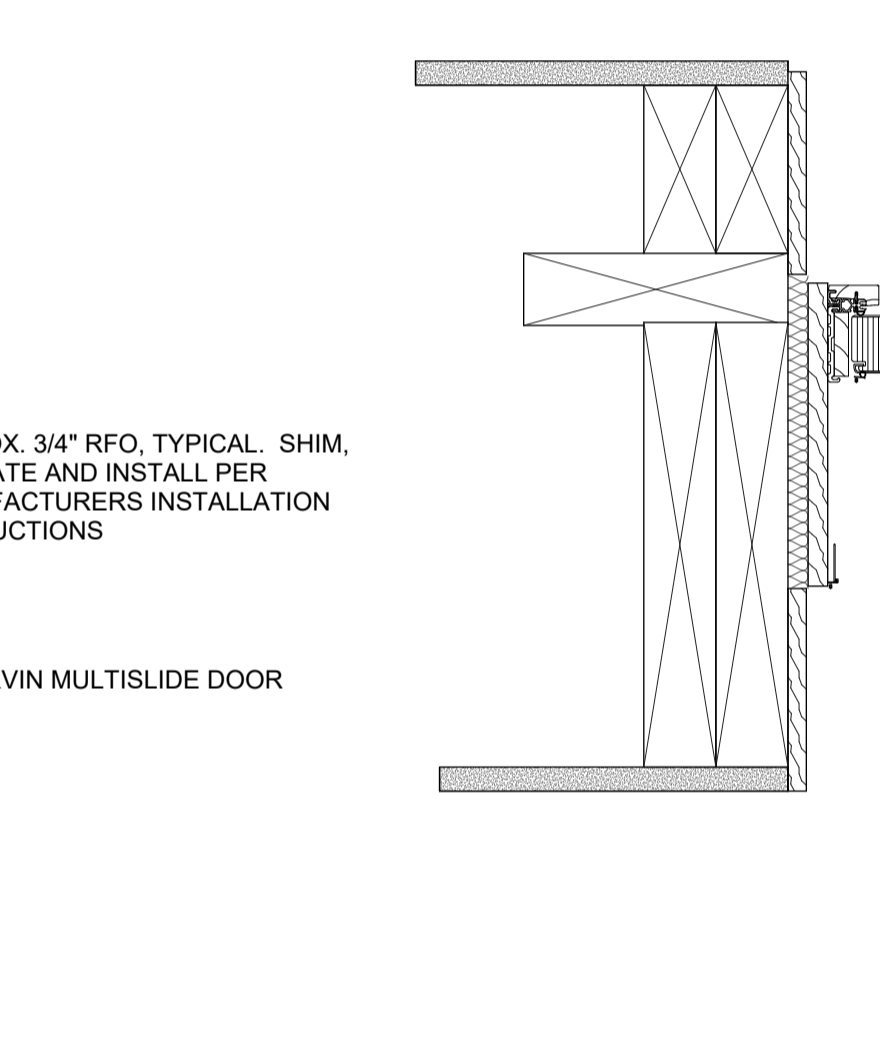
7 POCKET DOOR HEAD
A504 3" = 1'-0"



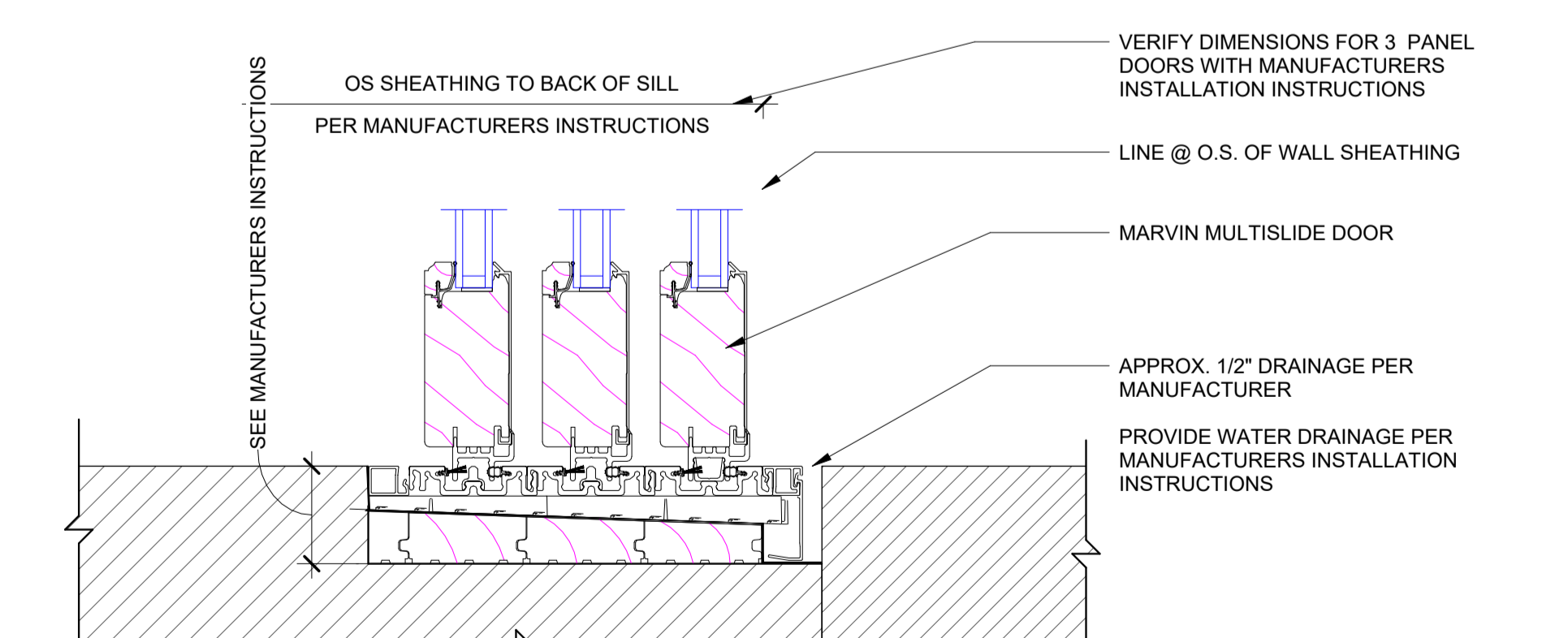
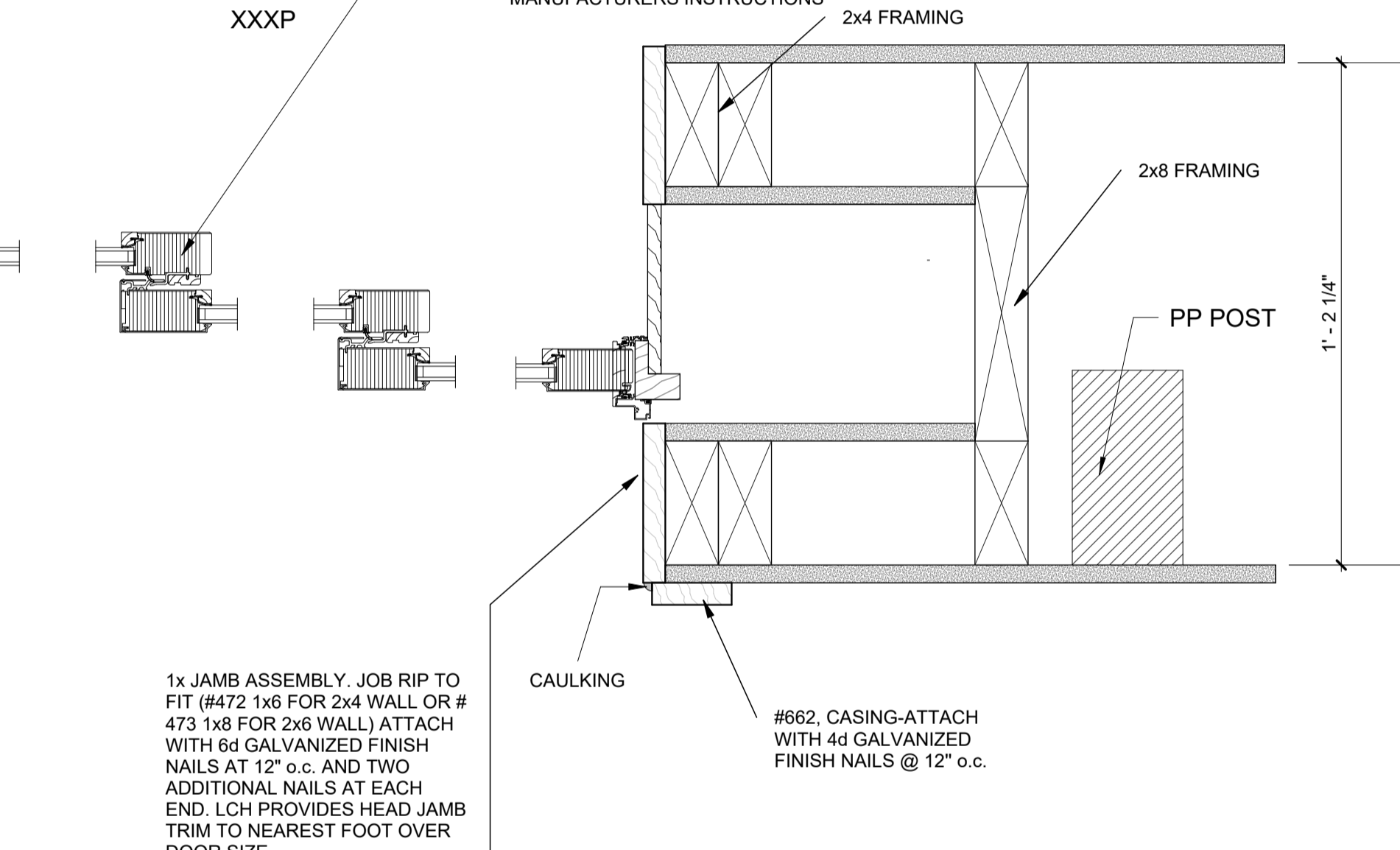
8 POCKET DOOR JAMB
A504 3" = 1'-0"



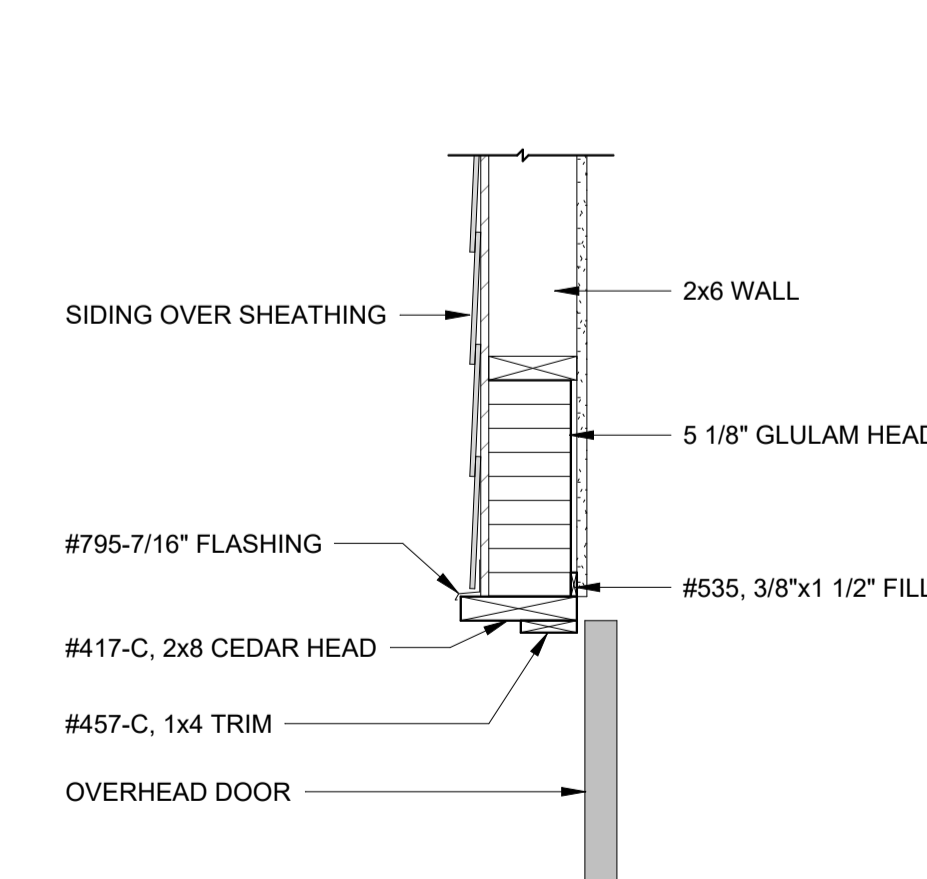
9 MULTI SLIDE HEAD
A504 1 1/2" = 1'-0"



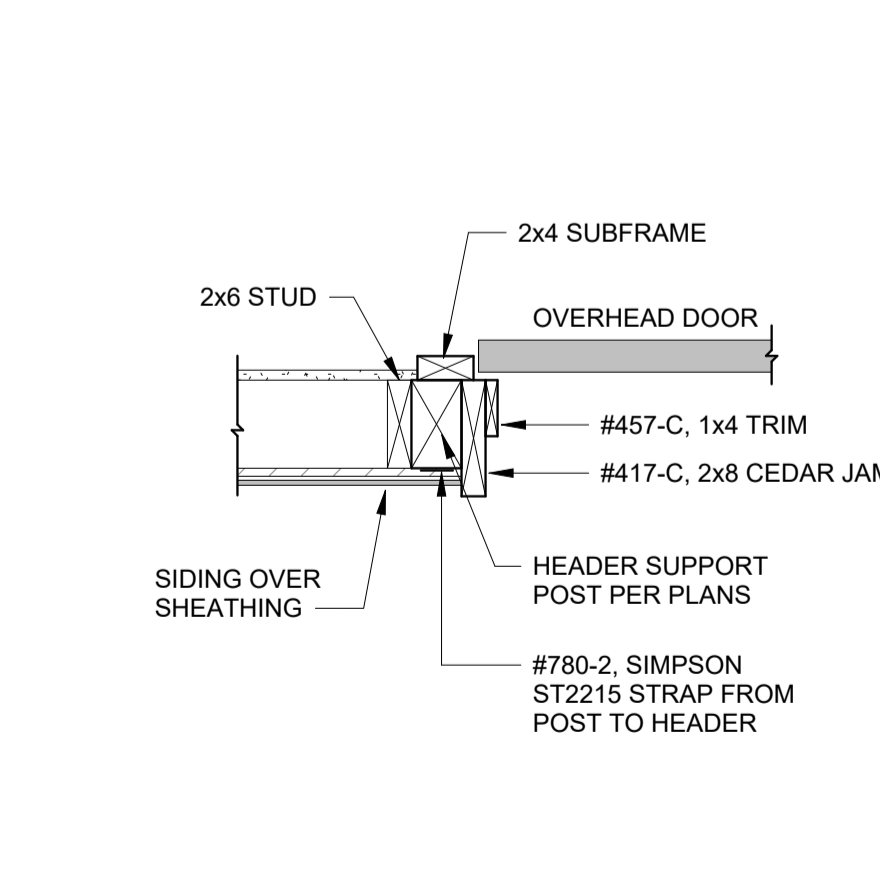
10 MULTI SLIDE JAMB
A504 3" = 1'-0"



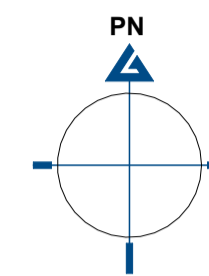
11 MARVIN 3 PANEL SILL
A504 3" = 1'-0"



12 OVERHEAD GARAGE DOOR HEADER
1" = 1'-0"



13 OVERHEAD GARAGE DOOR JAMB
1" = 1'-0"

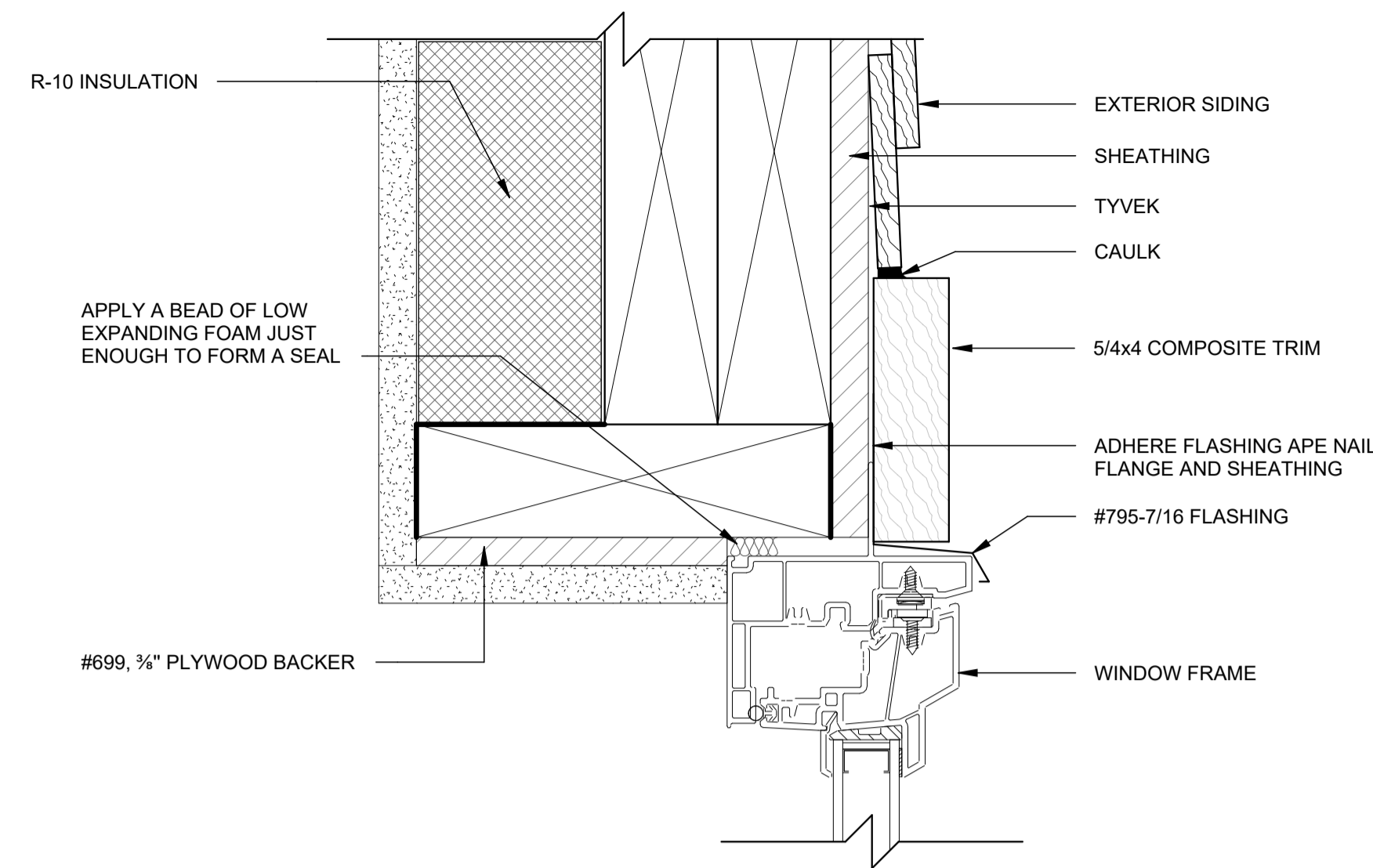


PROJECT NORTH

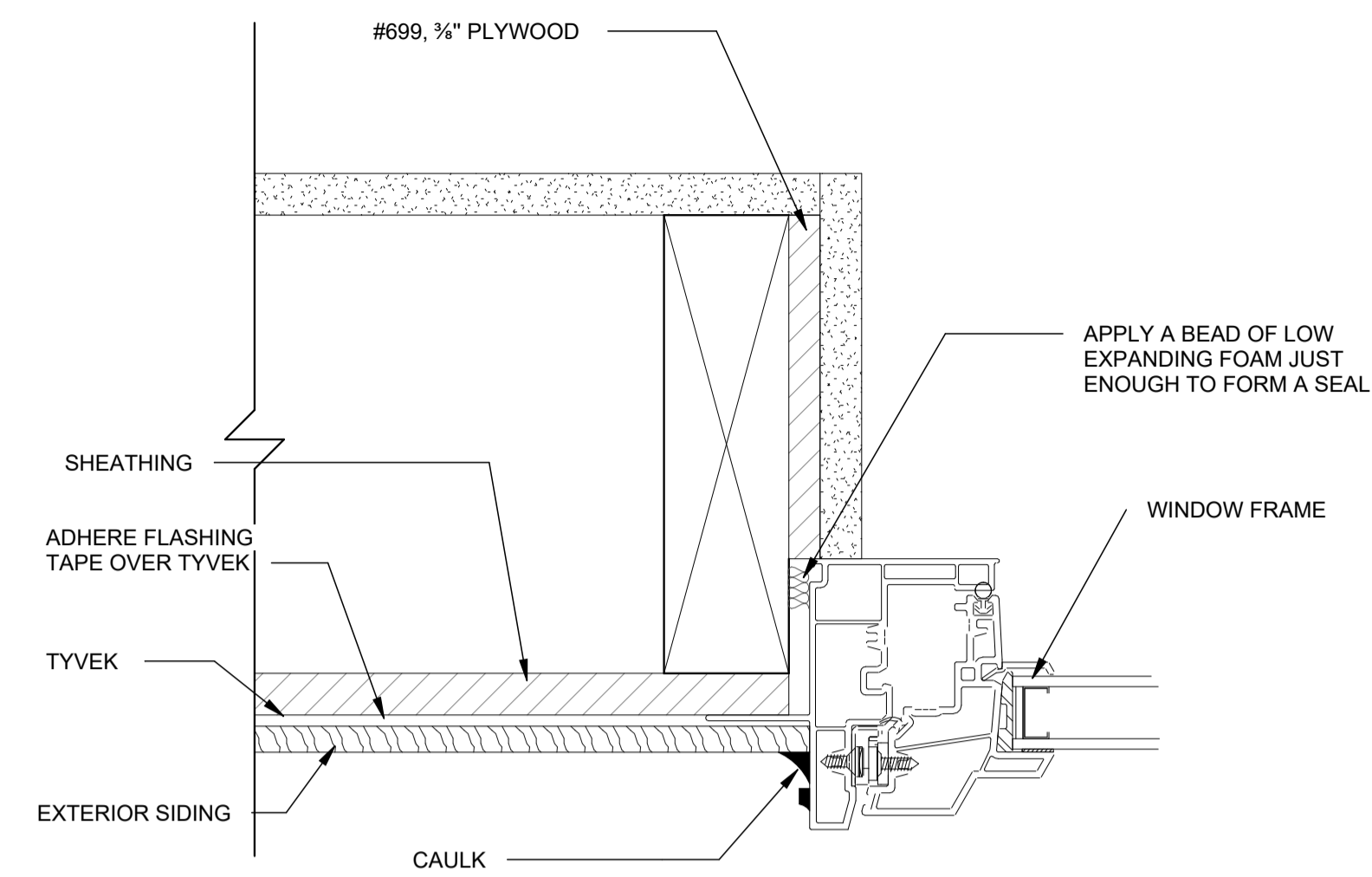
LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

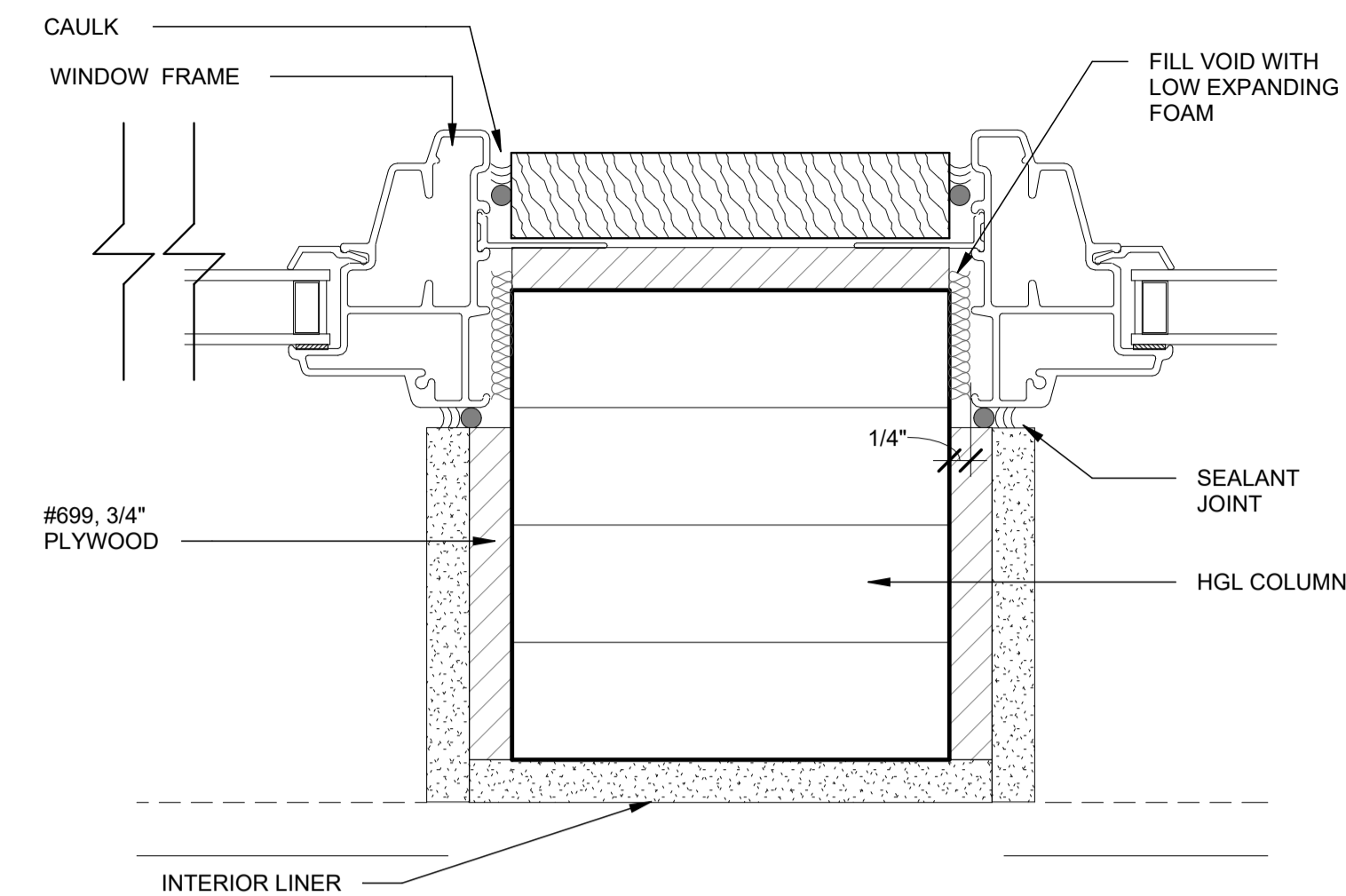
PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040



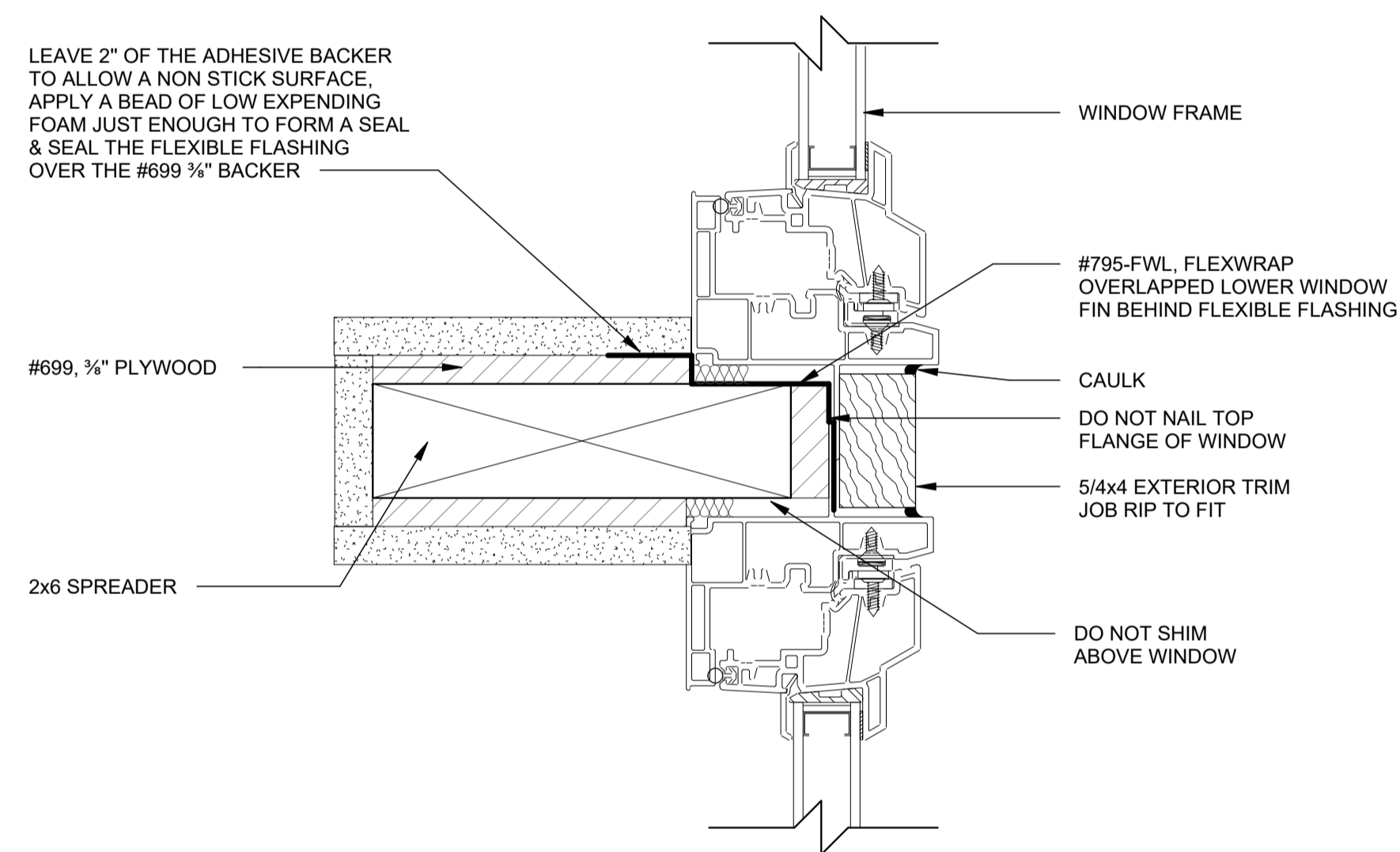
1 WINDOW HEAD TYP
A505 6" = 1'-0"



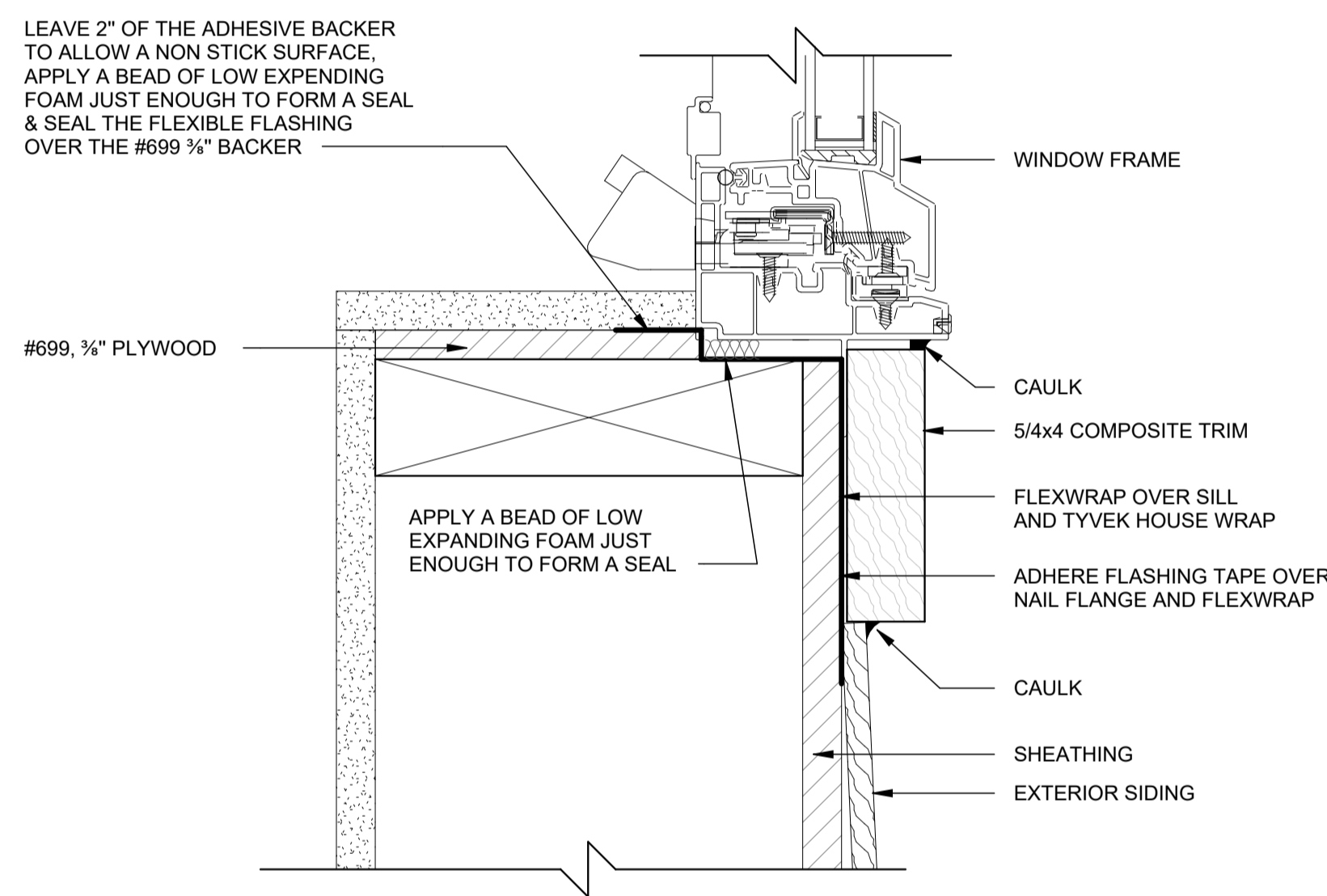
2 WINDOW JAMB
A505 6" = 1'-0"



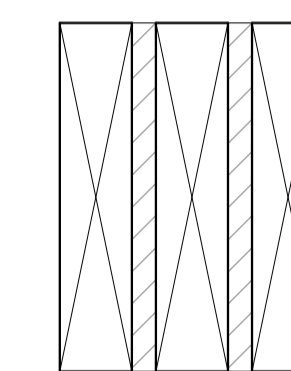
3 WINDOW JAMB @ POST
A505 6" = 1'-0"



4 WINDOW 2X6 SPREADER
A505 6" = 1'-0"



5 WINDOW SILL TYP
A505 6" = 1'-0"



(3) 2x WITH 1/2" PLYWOOD OR OSB BETWEEN EACH MEMBER. USE 20d AT 32" o.c. AT TOP AND BOTTOM, STAGGERED. WITH TWO AT EACH END AND EACH SIDE.

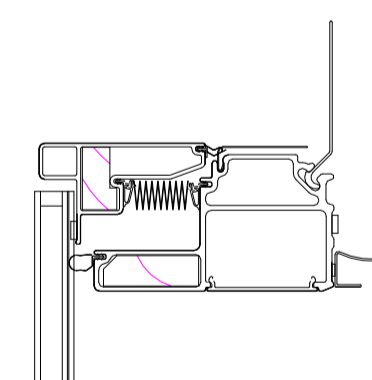
WINDOWS	FRAMING LENGTH
1'-9"	8'-0" RECUT
2'-3"	8'-0" RECUT
2'-6"	10'-0" RECUT
3'-6"	12'-0" RECUT
5'-0"	16'-0" RECUT

DOORS	FRAMING LENGTH
2'-6"	10'-0" RECUT
2'-8"	10'-0" RECUT
3'-0"	12'-0" RECUT
3'-6"	12'-0" RECUT
5'-0"	16'-0" RECUT
6'-0"	(3) 8'-0"
8'-0"	(3) 10'-0"

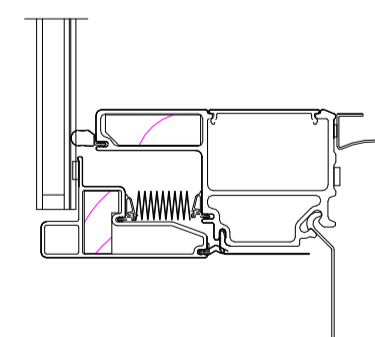
STANDARD BUILT UP HEADER IS 2x8 (#416). PLANS MAY CALL OUT OTHER FRAMING SIZE AND WILL TAKE PRECEDENCE

7 BU HEADER1
A505 3" = 1'-0"

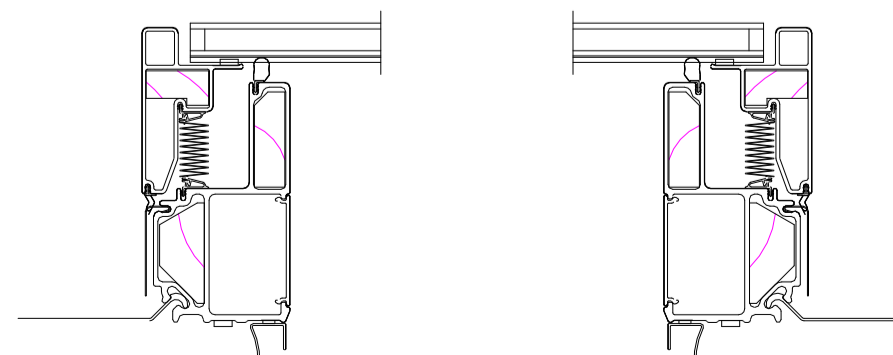
HEAD



SILL

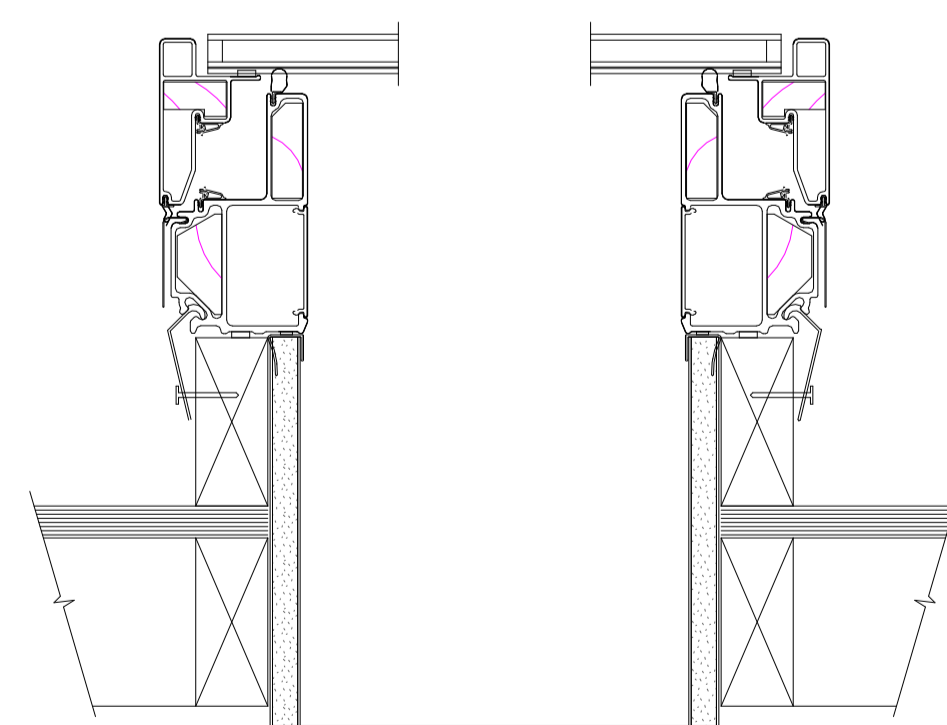


JAMB



6 MARVIN SKYLIGHT
A505 3" = 1'-0"

CURB MOUNTED INSTALLATION



REVISION NO.	DESCRIPTION	DATE
1	CITY COMMENTS	11/27/2023
2	CITY COMMENT 2	4/3/2024

ISSUANCES

WARRANTY NUMBER

42255

SERIES



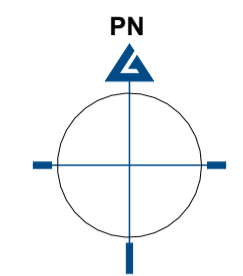
MODEL

CUSTOM ELEMENT HOME

DETAILS - WINDOWS

Scale: As indicated

A505

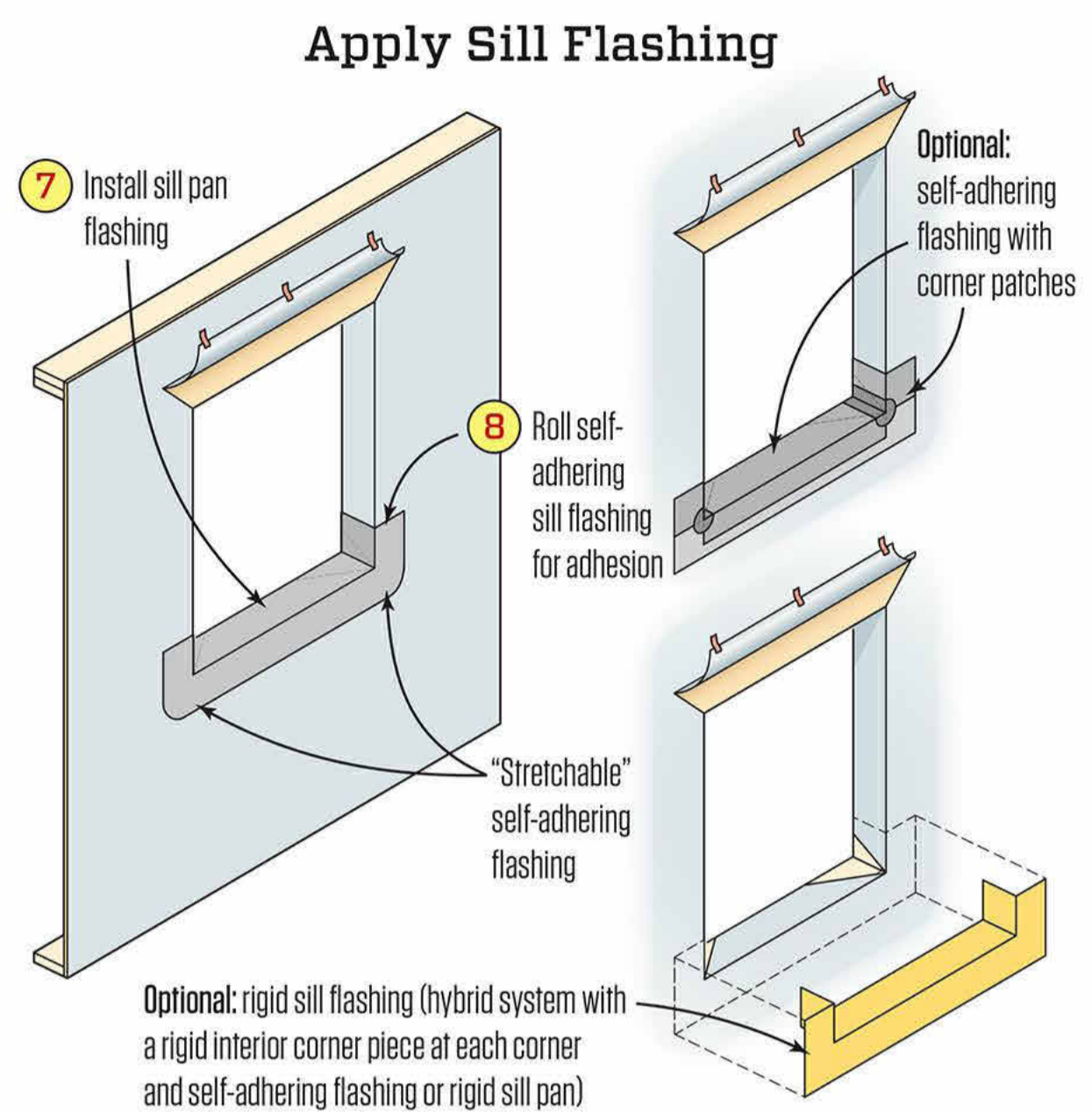
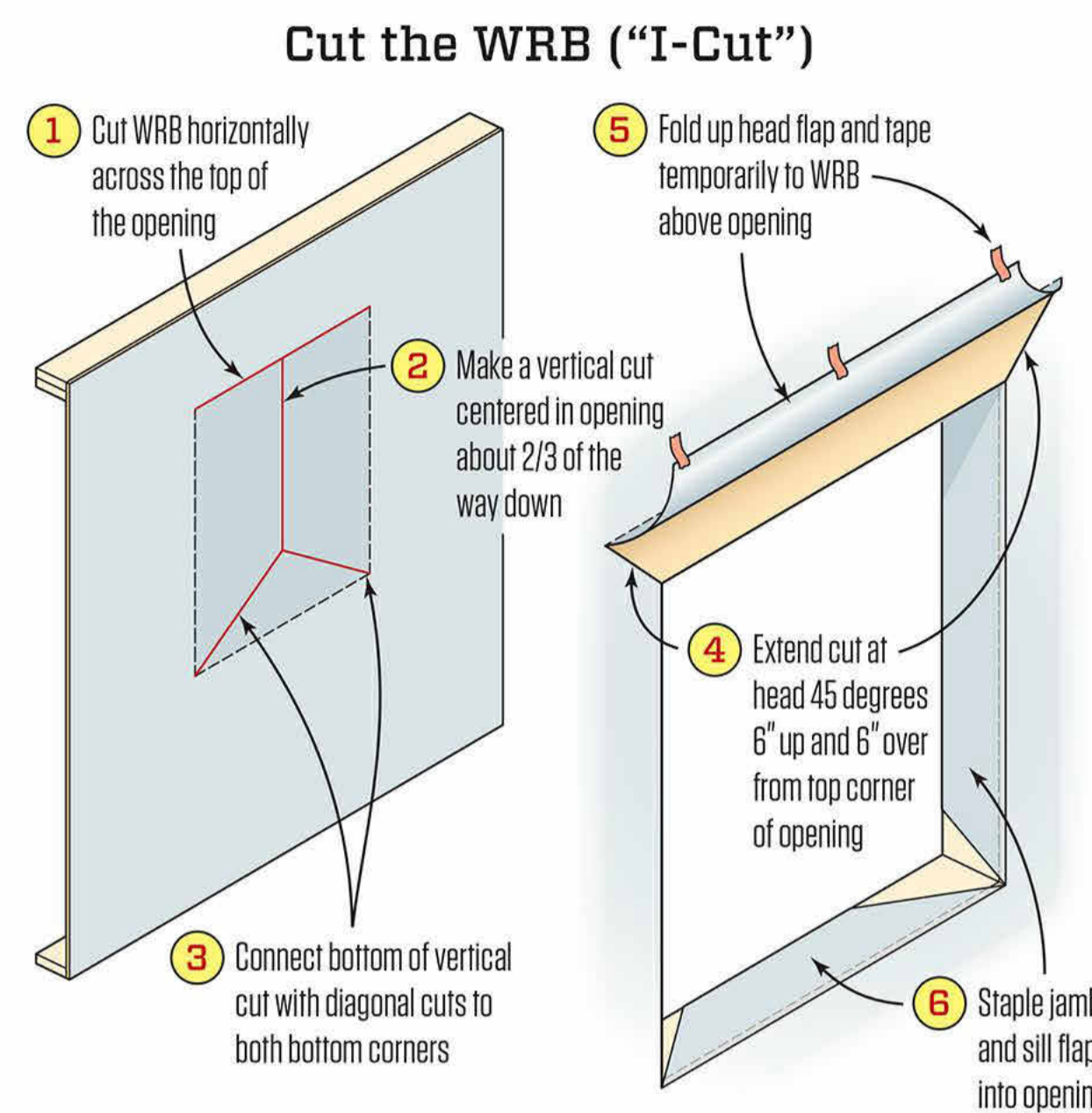


PROJECT NORTH

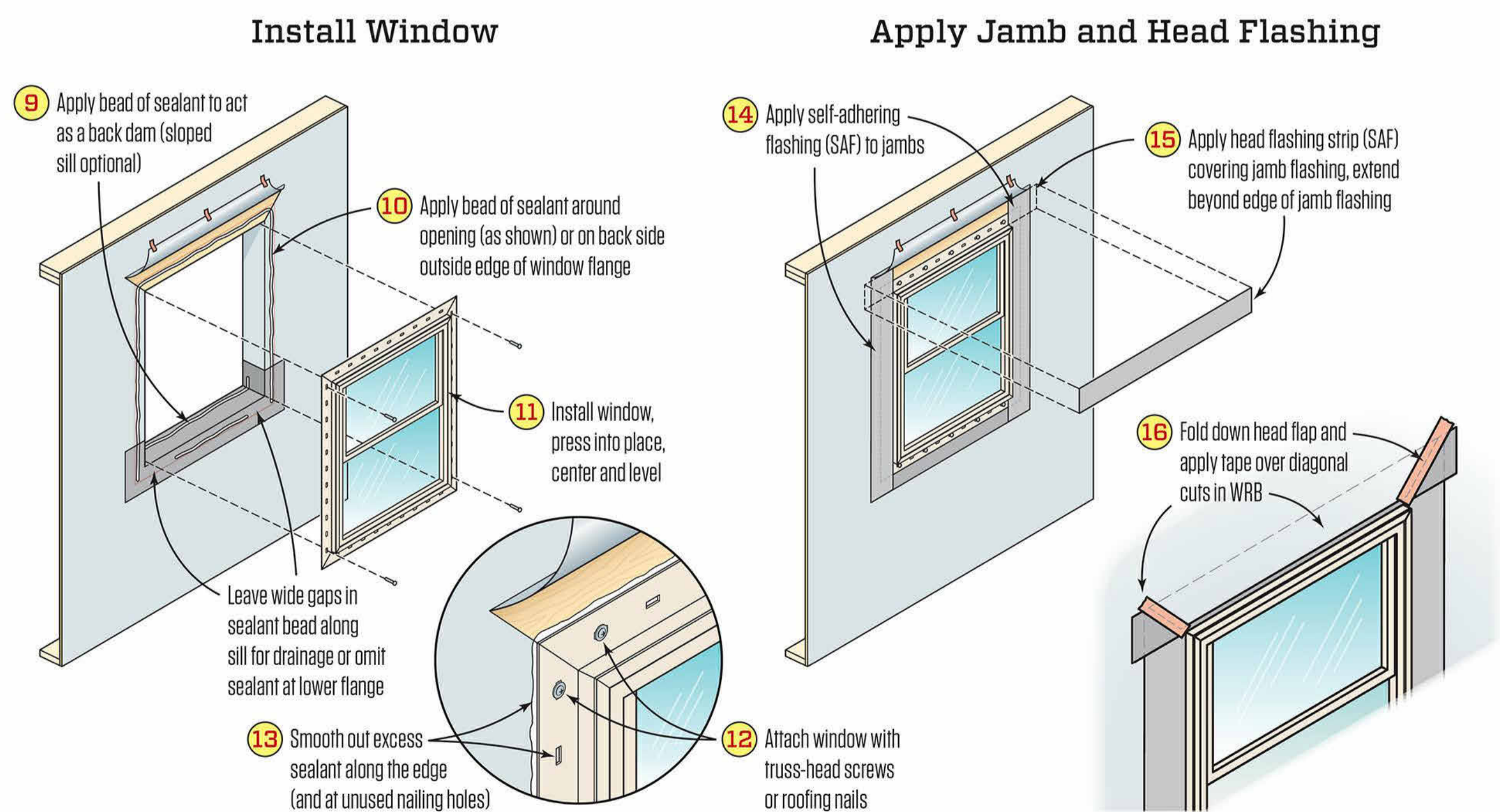
LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

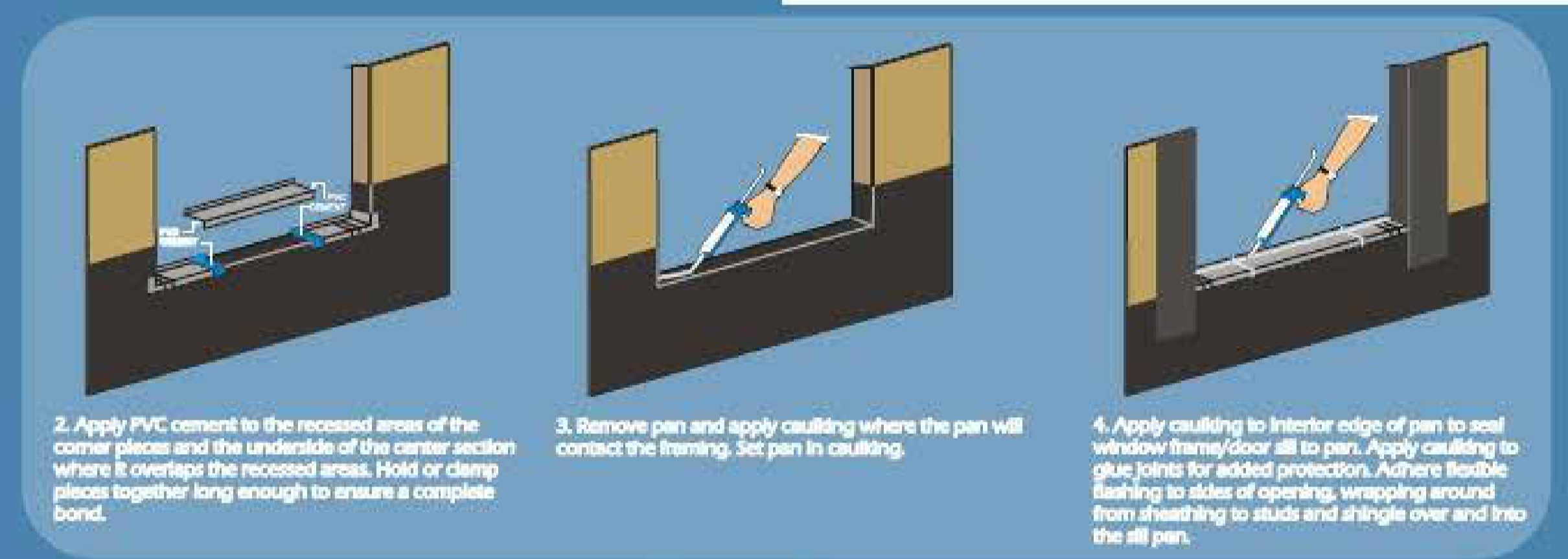
PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040



Method 1: Flashing Strips Installed Over Nailing Flanges



1 WINDOW FLASHING
A505.1 3/8" = 1'-0"



2 DOOR FLASHING
A505.1 1/2" = 1'-0"

REVISION NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/27/2023
2	CITY COMMENT 2	ES	4/3/2024
ES			7/18/2023
ES			10/18/2023

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL
CUSTOM ELEMENT HOME

DETAILS - WINDOWS AND DOOR FLASHING

Scale: As indicated

A505.1

DOOR TRIM OPTIONS:



ABBREVIATIONS, DOOR, TRIM AND HARDWARE LEGEND:

DOOR SCHEDULES:

QTY	QUANTITY
DLGL	DUAL GLAZE
FIN	FINISH
FRR	FIRE RESISTANCE RATING
MAT	MATERIAL
MNF	MANUFACTURER
ML	MODEL LINE
LH	LEFT HINGE
RH	RIGHT HINGE
#P	# OF DOOR SLAB
SL	SIDE LIGHT

MATERIAL AND FINISHES:

ALUM	ALUMINUM
ALUMC	ALUMINUM CLAD
FBG	FIBERGLASS
FBGC	FIBERGLASS CLAD
VNL	VINYL
WB	WOOD / BIRCH
WC	WOOD / CEDAR
WF	WOOD / FIR
WRP	WOOD / RED-PRIME

TRIM LCH PART # DESCRIPTION:

EXAMPLE 1:	491-M4
EXAMPLE 2:	632-MC
TRIM PART #:	632, 491
CEDAR:	C
COMPOSITE DEPTH:	4
FIR:	F
HEMLOCK:	H
PRE STAINED:	M

LCH MANUFACTURER PART

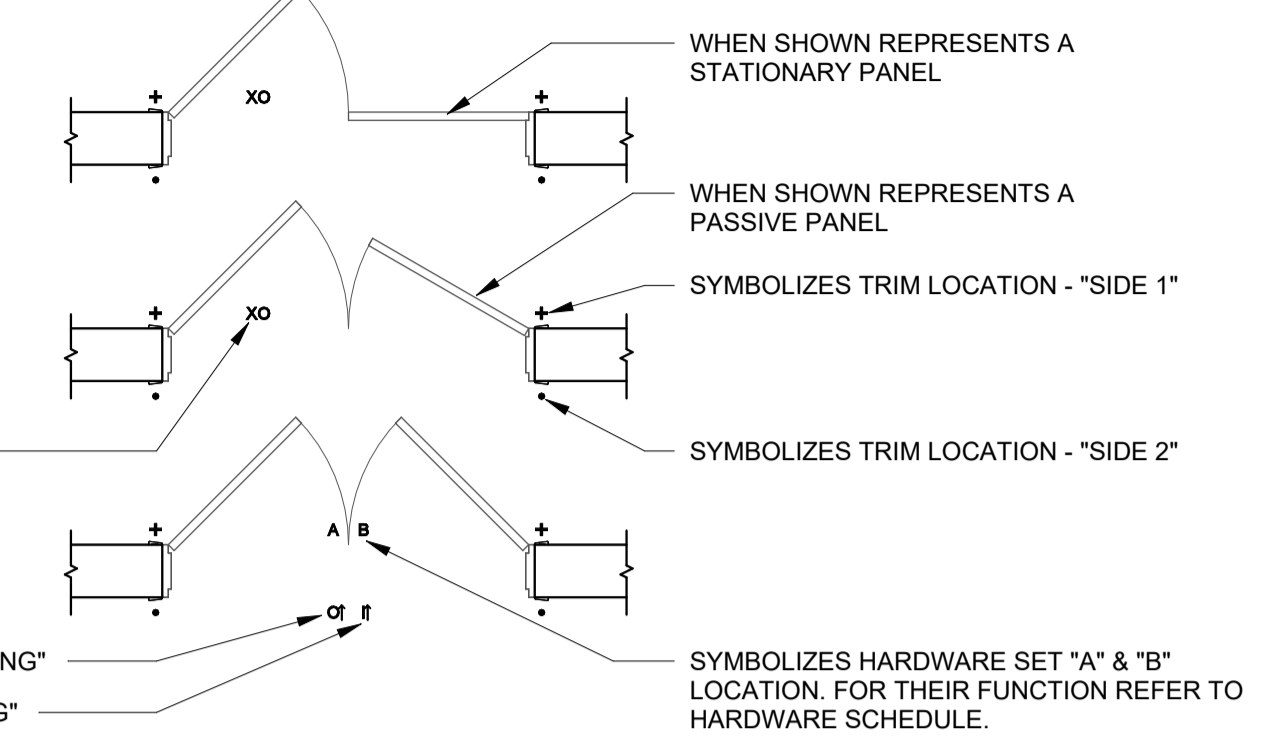
LYNDEN	24
MARVIN	25
MILGARD	26
SIMPSON	27
WINDSOR	28
PLASTPRO	29

PANEL OPERATION:

OPERABLE:	X
PASSIVE (PSV):	O
STATIONARY (STA):	O

WHEN SHOWN REPRESENT "PANEL OPERATION OF UNIT"

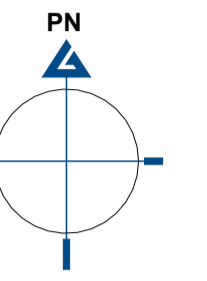
WHEN SHOWN REPRESENT "OUTSWING"
WHEN SHOWN REPRESENT "INSWING"



DOOR SCHEDULE

NO.	LCH PART #	LCH DOOR DESCRIPTION	LOCATION TO ROOM: NAME	ROUGH OPENING			NET FRAME DIMENSIONS			PANEL DIMENSIONS			SIDE LIGHT			MNF'S DESCRIPTION			MATERIAL FINISHES & ACCESSORIES			REMARKS
				WIDTH	HEIGHT	DEPTH	WIDTH	HEIGHT	DEPTH	QTY	WIDTH	HEIGHT	DEPTH	QTY	WIDTH	HEIGHT	DEPTH	MNF	MNF ML	MNF PART #	STYLE	
EXTERIOR																						
D1	05-241-D1	1P-LH-INSWING	GARAGE	38"	82 1/4"	37 1/2"	81 3/4"	6 9/16"	1	36"	79"					LYNDEN	24	241X LH-	1-PANEL FLUSH			EXT EZ TRIM - COLOR MATCH MODERN L022 - SATIN BLACK
D2	05-241-D2	1P-LH-INSWING	CRAWL SPACE	38"	82 1/4"	37 1/2"	81 3/4"	6 9/16"	1	36"	79"				LYNDEN	24	241X LH-	1-PANEL FLUSH			EXT EZ TRIM - COLOR MATCH MODERN L022 - SATIN BLACK	
D22	05-NIC1-D22	1P-RH-OUTSWING	GUEST BEDROOM	38"	97"	37 1/2"	96 1/2"	7 3/16"	1	36"	95"				NIC	24	241X RH-	1P GLASS			EXT EZ TRIM - COLOR MATCH MODERN L022 - SATIN BLACK	
NIC	05-254-NIC	3P-MULTISLIDE OXX	DINNING ROOM	134 9/16"	109"	133 9/16"	108 1/2"	10 7/8"	3	47 1/16"	104 1/2"				MARVIN	ULTIMATE	OXX	MULTI-SLIDE DOOR	FBGC			
NIC	05-NIC1-NIC	1P-RH-INSWING	FOYER ENTRANCE / HALLWAY	44"	110 1/4"	43 1/2"	109 3/4"	6 11/16"	1	42"	107"				NIC		X RH-	1P GLASS			ENTRY DOOR NIC	
INTERIOR																						
D3	06-241-D3	1P-LH-SINGLE	STAIRS	38"	82 1/8"	37 1/2"	81 5/8"	6 13/16"	1	36"	80"				LYNDEN	24	241LH-	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 WHITE PAINT TRIM FIRE RATED DOOR	
D4	06-241-D4	1P-RH-SINGLE	MECH ROOM	38"	82 1/8"	37 1/2"	81 5/8"	6 13/16"	1	36"	80"				LYNDEN	24	241RH-	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK FIRED RATED	
D4	06-241-D4	1P-RH-SINGLE	GARAGE	38"	82 1/8"	37 1/2"	81 5/8"	6 13/16"	1	36"	80"				LYNDEN	24	241RH-	1-PANEL FLUSH				
D5	06-241-D5	1P-RH-SINGLE	W.C.	32"	82 1/8"	31 1/2"	81 5/8"	6 13/16"	1	30"	80"				LYNDEN	24	241RH-	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D6	06-245-D6	1P-POCKET	PANTRY	49"	84 1/2"	25"	81 5/8"	6 13/16"	1	24"	80"				LYNDEN	24	245	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D7	06-245-D7	1P-POCKET	LIVING / KITCHEN	73"	84 1/2"	37"	81 5/8"	6 13/16"	1	36"	80"				LYNDEN	24	245	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D8	06-241-D8	1P-RH-SINGLE	FOYER ENTRANCE / HALLWAY	26"	82 1/8"	25 1/2"	81 5/8"	7 1/2"	1	24"	80"				LYNDEN	24	241RH-	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D9	06-241-D9	1P-LH-SINGLE	GUEST BEDROOM	38"	82 1/8"	37 1/2"	81 5/8"	7 1/2"	1	36"	80"				LYNDEN	24	241LH-	1-PANEL FLUSH				
D10	06-245-D10	1P-POCKET	GUEST BEDROOM	73"	84 1/2"	37"	81 5/8"	6 13/16"	1	36"	80"				LYNDEN	24	245	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D12	06-241-D12	1P-RH-SINGLE	LAUNDRY	38"	82 1/8"	37 1/2"	81 5/8"	4 13/16"	1	36"	80"				LYNDEN	24	241RH-	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D13	06-241-D13	1P-LH-SINGLE	BATHROOM	38"	82 1/8"	37 1/2"	81 5/8"	4 13/16"	1	36"	80"				LYNDEN	24	241LH-	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D15	06-245-D15	1P-POCKET	WATSON'S BEDROOM	49"	84 1/2"	25"	81 5/8"	4 13/16"	1	24"	80"				LYNDEN	24	245	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D16	06-241-D16	1P-LH-SINGLE	BEDROOM 2	38"	82 1/8"	37 1/2"	81 5/8"	4 13/16"	1	36"	80"				LYNDEN	24	241LH-	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D16	06-241-D16	1P-RH-SINGLE	WATSON'S BEDROOM	38"	82 1/8"	37 1/2"	81 5/8"	4 13/16"	1	36"	80"				LYNDEN	24	241RH-	1-PANEL FLUSH				
D17	06-245-D17	1P-POCKET	BEDROOM 2	73"	84 1/2"	37"	81 5/8"	4 13/16"	1	36"	80"				LYNDEN	24	245	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D18	06-241-D18	1P-LH-SINGLE	PRIMARY BEDROOM	38"	82 1/8"	37 1/2"	81 5/8"	6 13/16"	1	36"	80"				LYNDEN	24	241LH-	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D19	06-245-D19	1P-POCKET	PRIMARY BEDROOM	49"	84 1/2"	25"	81 5/8"	4 13/16"	1	24"	80"				LYNDEN	24	245	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D20	06-245-D20	1P-POCKET	PRIMARY BEDROOM	49"	84 1/2"	25"	81 5/8"	4 13/16"	1	24"	80"				LYNDEN	24	245	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	
D21	06-241-D21	1P-RH-SINGLE	PRIMARY BEDROOM	38"	82 1/8"	37 1/2"	81 5/8"	4 13/16"	1	36"	80"				LYNDEN	24	241RH-	1-PANEL FLUSH			INT FIR MODERN OP #1, MODERN L022 SATIN BLACK	

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PROJECT NORTH

LINDAL DEALER

WARM MODERN LIVING

CLIENT

HOANG INTRACHAT

PROJECT ADDRESS

7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION DD	ES	7/18/2023
ISSUED FOR CD	ES	10/18/2023
2 CITY COMMENT 2	ES	4/3/2024
1 CITY COMMENTS	ES	11/27/2023
NO. DESCRIPTION	ISSUED BY	DATE

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL

CUSTOM ELEMENT HOME

SCHEDULES - DOORS

Scale: 3/8" = 1'-0"

A600

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 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC)
 - DESIGN LOADING CRITERIA

ROOF SNOW LOAD	30 PSF
ROOF DEAD LOAD ALLOWANCE FOR PV PANELS	4 PSF
FLOOR LIVE LOAD (RESIDENTIAL)	40 PSF
FLOOR LIVE LOAD (RESIDENTIAL EXTERIOR DECKS AND BALCONIES)	60 PSF
GUARDRAILS/BALCONY RAILS (ONE OR TWO UNIT DWELLING)	200 LBS
 - WIND : ANALYSIS PROCEDURE: ASCE 7-16 CHAPTER 27 "PART I - BUILDINGS OF ALL HEIGHTS"

RISK CATEGORY II	
98 MPH	
EXPOSURE "C"	
TOPOGRAPHIC FACTOR $K_{zt} = 1.6$	
WIND BASE SHEAR, NORTH/SOUTH $V_w = 44.1$ K	
WIND BASE SHEAR, EAST/WEST $V_w = 27.9$ K	
 - EARTHQUAKE : ANALYSIS PROCEDURE: IBC "EQUIVALENT LATERAL FORCE PROCEDURE"

SEISMIC DESIGN CATEGORY (SDC) = D	
RISK CATEGORY = II	
SEISMIC SITE CLASS = D	
IMPORTANCE FACTOR $I_e = 1.0$	
MAPPED MCE $S_s = 1.46$; $S_1 = 0.50$	
DESIGN ACCELERATION $S_{ds} = 0.91$; $S_{d1} = 0.60$	
SEISMIC RESISTING SYSTEM: WOOD PANEL BEARING SHEAR WALL, R = 6.5	
SEISMIC RESPONSE COEFFICIENT: $C_s = 0.15$	
SEISMIC BASE SHEAR $V_s = 22.3$ K	
 - LATERAL LOADS ARE TRANSFERRED BY THE ROOF AND FLOOR DIAPHRAGMS TO THE SHEAR WALLS. FORCES ARE BASED ON THE TRIBUTARY AREA FOR EACH SHEAR WALL AND ARE CARRIED BY THE SHEAR WALLS TO THE FOUNDATION.
 - 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 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 THEIR 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.
 - CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
 - DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. WHERE INFORMATION ON THE DRAWINGS IS IN CONFLICT WITH THE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. DO NOT SCALE THE DRAWINGS.
 - ALL STRUCTURAL SYSTEMS WHICH ARE COMPOSED OF FIELD ERECTED COMPONENTS SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.
 - SHOP DRAWINGS FOR REINFORCING STEEL AND STRUCTURAL STEEL SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.
 - SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
 - DEFERRED SUBMITTALS OF DESIGN BUILD COMPONENTS SHALL BEAR THE STAMP AND SIGNATURE OF A STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER AND SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO CURSORY REVIEW BY THE ENGINEER OF RECORD FOR LOADS IMPOSED ON THE BASIC STRUCTURE. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. DEFERRED SUBMITTALS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTURE AND SHALL INCLUDE DESIGN CALCULATIONS WITH THE ENGINEER'S STAMP.
- THE FOLLOWING COMPONENTS SHALL BE DEFERRED SUBMITTALS FOR THIS PROJECT:
STAIRS & RAILINGS

- SPECIAL INSPECTION: CONCRETE CONSTRUCTION, STRUCTURAL STEEL FABRICATION AND ERECTION (INCLUDING FIELD WELDING AND HIGH-STRENGTH FIELD BOLTING), EXPANSION BOLTS, SCREW ANCHORS AND EPOXY GROUTED INSTALLATIONS SHALL BE SUPERVISED IN ACCORDANCE WITH IBC SECTIONS 1704 & 1705 AND THE PROJECT SPECIFICATIONS BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE OWNER. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET PROJECT SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

GEOTECHNICAL

- FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH (CONTROLLED, COMPACTED STRUCTURAL FILL OR BOTH) AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND GEOTECHNICAL ENGINEER. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED UNDER COLUMNS OR WALLS ABOVE.

BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE GEOTECHNICAL REPORT.

THE STRUCTURAL DESIGN IS BASED ON THE FOLLOWING VALUES FROM THE REFERENCED GEOTECHNICAL REPORT:

LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED)	60 PCF/40 PCF
LATERAL EARTH PRESSURE W/ SOIL IMPROVEMENT (RESTRAINED/UNRESTRAINED)	55 PCF/35 PCF
SEISMIC SURCHARGE PRESSURE	8H PSF
PASSIVE SOIL PRESSURE	150 PCF
4"Ø PIPE PILE CAPACITY	16 KIPS

GEOTECHNICAL REPORT REFERENCE: #1276521 BY NELSON GEOTECHNICAL ASSOCIATES, INC. DATED JANUARY 14, 2022.

- PIPE PILES SHALL BE GALVANIZED SCHEDULE-80 (STD) ASTM A53 (TYPE E OR S, GRADE B) 4 INCH NOMINAL PIPE DRIVEN TO REFUSAL PER THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER. THE ALLOWABLE AXIAL COMPRESSION CAPACITY SHALL BE 16 KIPS. SECTIONS OF PIPE SHALL BE CONNECTED TOGETHER WITH COMPRESSION FITTED SLEEVE COUPLERS.
- PIPE PILING INSPECTION SHALL BE CONTINUOUSLY PERFORMED BY THE GEOTECHNICAL ENGINEER DURING PLACEMENT TO CONFIRM THAT THE PILES ARE INSTALLED IN ACCORDANCE WITH THE PLANS AND GEOTECHNICAL REPORT. AT LEAST 3% OF THE 4 INCH PILES SHALL BE LOAD TESTED IN ACCORDANCE WITH ASTM D1143. THE MAXIMUM TEST LOADS SHALL BE 40 KIPS. MAXIMUM PILE MIS-LOCATION SHALL BE 2" LATERALLY. DRIVE A TEST ELEMENT FOR PLANNING PURPOSES TO DETERMINE REFUSAL DEPTH AND PILE LENGTH PER RECOMMENDATIONS IN GEOTECHNICAL REPORT. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO DRIVING PILES.

CONCRETE

- CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301. CONSTRUCTION TOLERANCES SHALL NOT EXCEED THOSE LISTED IN ACI 117. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF $f'_c = 3,000$ 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 (BEFORE THE ADDITION OF ADMIXTURES). THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.55 FOR FOOTINGS AND 0.45 FOR ALL SLABS AND EXPOSED CONCRETE UNLESS OTHERWISE NOTED. EXCEPT FOR FOOTINGS AND SLAB ON GRADE, AGGREGATE SIZE SHALL NOT EXCEED 3/4".

THE MINIMUM AMOUNT OF CEMENT AND THE MAXIMUM SLUMP 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 W/C RATIO LIMITS STILL APPLY). THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITIOUS MATERIAL, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 301. CHEMICAL ADMIXTURES AND FLY ASH SHALL CONFORM TO ASTM C494 AND C618 RESPECTIVELY. FLY ASH PERCENTAGE OF TOTAL CEMENTITIOUS MATERIAL SHALL NOT EXCEED 20%. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY TO CONTRACT DOCUMENTS. CONTRACTOR 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. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14 TABLE 19.3.3.1. ALL CONCRETE EXPOSED TO THE WEATHER AND ALL GARAGE SLABS-ON-GRADE SHALL OBTAIN A 28-DAY STRENGTH f'_c OF 4,500 PSI IN ACCORDANCE WITH ACI 318 TABLE 19.3.2.1 AND IBC SECTION 1904.1. ALL CONCRETE TO RECEIVE A STEEL TROWELED FINISH SHALL NOT BE AIR-ENTRAINED.

- REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, $f_y = 60,000$ PSI AND SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT 4Ø BAR DIAMETERS, 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS, LAP 2'-0" MINIMUM. PROVIDE (2) #4 MIN. U.N.O. TRIM BARS AROUND ALL OPENINGS IN CONCRETE WALLS OR SLABS EXTENDING 2'-0" PAST CORNERS, TYPICAL.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO REINFORCING BARS SHALL BE "WET-SET" INTO THE CONCRETE. PROVIDE A 20' LONG REBAR GROUND (UFER GROUND) PER ELECTRICIAN.

- CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST EARTH	3"
FORMED SURFACES EXPOSED TO EARTH (i.e. WALLS BELOW GROUND) OR WEATHER	2"
SLABS AND WALLS (INTERIOR FACE) U.O.N.	1"

- CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES, BOTH CAST-IN-PLACE AND PRECAST.

- NON-SHRINK GROUT SHALL BE NON-METALLIC CONFORMING TO ASTM C1107 AND 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 (5000 PSI MINIMUM).

ANCHORAGE

- EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2 WEDGE ANCHOR", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-3037 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAFMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.

- SCREW ANCHORS INTO CONCRETE SHALL BE "TITEN HD", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-2713 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAFMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL SCREW ANCHOR INSTALLATION.

- EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) INTO CONCRETE SHALL BE INSTALLED USING "SET-XP" ADHESIVE ANCHOR AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-2508 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAFMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED.

STEEL

- STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON THE LATEST EDITIONS OF THE A.I.S.C. SPECIFICATIONS AND CODES:

- AISC - STEEL CONSTRUCTION MANUAL, 15TH EDITION
- AISC 303-16 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- 2014 ROCS SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS.

- STRUCTURAL STEEL, WIDE FLANGE (W AND WT) SHAPES SHALL CONFORM TO ASTM A992, $F_y = 50$ KSI; ALL OTHER ROLLED SHAPES SHALL CONFORM TO ASTM A36, $F_y = 36$ KSI. STEEL PLATE SHALL CONFORM TO ASTM A36, $F_y = 36$ KSI. STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, $F_y = 35$ KSI. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE C, $F_y = 50$ KSI. CONNECTION BOLTS SHALL CONFORM TO ASTM A325. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36, $F_y = 36$ KSI.

- ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

- ALL A325 CONNECTION BOLTS SHALL BE INSTALLED TO THE SNUG-TIGHT CONDITION PER ROCS SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. ALL NUTS SHALL CONFORM TO ASTM A563. ALL WASHERS SHALL CONFORM TO ASTM F436 OR ASTM F454 TYPE 325. ALL BOLT HOLES SHALL BE STANDARD SIZE UNLESS OTHERWISE NOTED.

- ALL A307 CONNECTION BOLTS SHALL BE PROVIDED WITH LOCK WASHERS UNDER NUTS OR SELF-LOCKING NUTS. ALL BOLT HOLES SHALL BE STANDARD SIZE UNLESS OTHERWISE NOTED.

- ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND A.M.S. STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY A.M.S.) SHALL BE USED. ALL WELDING SHALL BE PERFORMED BY WELDERS WITH AWS / W.A.B.O. CERTIFICATION WITH THE MATERIAL AND METHOD REQUIRED.

WOOD

- FRAMING LUMBER: SHALL BE KILN DRIED OR MC-19 (MOISTURE CONTENT LESS THAN 19%), AND GRADED AND MARKED IN CONFORMANCE WITH N.C.L.I.B. STANDARD NO. 17 GRADING RULES FOR WEST COAST LUMBER. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

STANDARD 2X FRAMING (STUDS, PLATES, JOISTS, BUILT-UP BEAMS)	SPRUCE-PINE-FIR NO. 2
TREATED 2X FRAMING (DECK JOISTS, BUILT-UP BEAMS)	HEM-FIR NO. 2
POSTS (BUILT-UP)	SPRUCE-PINE-FIR NO. 2



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GENERAL STRUCTURAL NOTES
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GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

32. **GLUED LAMINATED MEMBERS** SHALL BE FABRICATED IN CONFORMANCE WITH ASTM D3737 AND ANSI A190.1. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE. CERTIFICATES OF CONFORMANCE MUST BE MADE AVAILABLE TO BUILDING INSPECTORS. BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8, Fb = 2,400 PSI, Fv = 240 PSI, E = 1,800 KSI. CAMBER ALL SIMPLE SPAN GLULAM BEAMS TO 5,000' RADIUS UNLESS SHOWN OTHERWISE ON THE PLANS. GLUE LAMINATED COLUMNS SHALL BE DOUGLAS FIR COMBINATION 2, Fc = 1,900 PSI, Fbj = 1,800 PSI, Fbx = 1,700 PSI, E = 1,700 KSI (4 LAMS MINIMUM DEPTH).

33. **ALASKAN YELLOW CEDAR (AYC) GLUED LAMINATED MEMBERS** SHALL BE FABRICATED IN CONFORMANCE WITH ASTM D3737 AND ANSI A190.1. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE. CERTIFICATES OF CONFORMANCE MUST BE MADE AVAILABLE TO BUILDING INSPECTORS. AYC BEAMS SHALL BE ALASKAN YELLOW CEDAR COMBINATION 20F-V13, Fb = 2,000 PSI, Fv = 240 PSI, E = 1,500 KSI. CAMBER ALL SIMPLE SPAN GLULAM BEAMS TO 5,000' RADIUS UNLESS SHOWN OTHERWISE ON THE PLANS. AYC GLUE LAMINATED COLUMNS SHALL BE ALASKAN CEDAR COMBINATION 10, Fc = 1,450 PSI, Fbj = 1,400 PSI, Fbx = 1,350 PSI, E = 1,400 KSI (4 LAMS MINIMUM DEPTH).

34. **LAMINATED STRAND LUMBER (LSL)** SHALL BE DESIGNED AND MANUFACTURED PER ASTM D5456. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, AND THE INDEPENDENT INSPECTION AGENCY'S LOGO. ALL LAMINATED STRAND LUMBER SHALL BE MANUFACTURED USING A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559. MINIMUM STRUCTURAL PROPERTIES ARE AS FOLLOWS:

RIM JOISTS AND BLOCKING (1-1/4" MINIMUM THICKNESS AT NON-SHEAR WALLS; SEE SCHEDULE FOR MINIMUM THICKNESS AT SHEAR WALLS):

Fb = 1700 PSI, E = 1.3 x 10⁶ PSI, Fv = 400 PSI

BEAMS AND HEADERS:

Fb = 2325 PSI, E = 1.55 x 10⁶ PSI, Fv = 310 PSI

DESIGN SHOWN ON PLANS IS BASED ON MATERIALS MANUFACTURED BY THE MEYERHAEUSER CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

35. **PARALLEL STRAND LUMBER (PSL)** SHALL BE DESIGNED AND MANUFACTURED PER ASTM D5456. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, AND THE INDEPENDENT INSPECTION AGENCY'S LOGO. ALL PARALLEL STRAND LUMBER SHALL BE MANUFACTURED USING DOUGLAS FIR STRANDS GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. MINIMUM STRUCTURAL PROPERTIES ARE AS FOLLOWS:

Fb = 2900 PSI, E = 2.2 x 10⁶ PSI, Fv = 290 PSI

DESIGN SHOWN ON PLANS IS BASED ON MATERIALS MANUFACTURED BY THE MEYERHAEUSER CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

36. **WOOD I-JOIST DESIGN** SHOWN ON PLANS IS BASED ON JOISTS MANUFACTURED BY THE MEYERHAEUSER CORPORATION. ALTERNATE I-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 I.C.C. OR IAPMO UES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH WOOD JOIST PROVIDED. GLUE FLOOR JOISTS TO SHEATHING AS REQUIRED BY THE JOIST MANUFACTURER.

37. **WOOD SHEATHING** SHALL BE APA RATED, EXTERIOR GLUE, EXPOSURE 1, IN CONFORMANCE WITH THE REQUIREMENTS FOR THEIR TYPE IN DOC P5-1 OR P5-2. SEE PLANS FOR THICKNESS, PANEL IDENTIFICATION INDEX AND NAILING REQUIREMENTS.

UNLESS OTHERWISE NOTED ON THE PLANS, ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH FACE GRAIN PERPENDICULAR TO 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 FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH (2) 10d-F NAILS AT EACH END, UNLESS OTHERWISE NOTED. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS PROVIDE FLAT 2X BLOCKING AT ALL UNFRAMED PANEL EDGES AND NAIL WITH EDGE NAILING SPACED PER PLANS. WHERE NOT NOTED OTHERWISE, NAIL PANEL EDGES WITH 8d NAILS @ 8" O.C. EDGES, 12" O.C. IN THE FIELD.

38. **ALL WOOD** EXPOSED TO WEATHER, OR BEARING ON UNPROTECTED CONCRETE BELOW GRADE, OR BEARING ON UNPROTECTED CONCRETE LESS THAN 8" FROM EXPOSED EARTH SHALL BE PRESSURE-TREATED, U.O.N. PRESSURE TREATMENT SHALL BE WITH AN APPROVED PRESERVATIVE CONFORMING TO AMERICAN WOOD PRESERVERS ASSOCIATION U1 AND M4 AND SHALL BE BRANDED WITH A QUALITY CONTROL AGENCY MARK BY THE AWPA OR EQUAL. ALL METAL HARDWARE IN CONTACT WITH TREATED WOOD SHALL BE PROTECTED WITH A G185 GALVANIZED COATING (ZMAX) OR BETTER. ALL NAILS IN TREATED WOOD SHALL BE HOT-DIP GALVANIZED OR BETTER. PROVIDE 2 LAYERS OF 30# ASPHALT IMPREGNATED BUILDING PAPER BETWEEN NON-PRESSURE-TREATED LEDGERS, BLOCKING, ETC., AND CONCRETE.

39. **TIMBER CONNECTORS** CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NO. C-G-2021. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE I.C.C. OR IAPMO UES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. CONNECTORS SHALL BE SIZED TO MATCH THE SIZE OF THE FRAMING MEMBERS BEING CONNECTED. 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. ALL BOLTS TIGHTENED TO SNUG TIGHT.

40. WOOD FASTENERS:

A. **NAIL SIZES** SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

DRAWING ID	NAIL NAME	NAIL DIAMETER	NAIL LENGTH
"6d"	6d Common	0.113"	2"
"8d Box"	8d Box	0.113"	2-1/2"
"8d"	8d Common	0.131"	2-1/2"
"10d-F"	10d Framer	0.131"	3"
"10d"	10d Shear	0.148"	2-1/4"
"16d"	16d Sinker	0.148"	3-1/4"

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

B. **NAILS** - SHEATHING FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED.

C. **SCREWS** SHALL BE WOOD SCREWS OF THE DIAMETER AND LENGTH NOTED ON THE DRAWINGS. SDS FASTENERS ARE SIMPSON STRONG DRIVE SCREWS.

D. **HOT DIPPED GALVANIZED NAILS, BOLTS AND METAL PLATES** - ALL NAILS, BOLTS AND METAL PLATES IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED.

41. WOOD FRAMING NOTES: THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

A. **ALL WOOD FRAMING DETAILS** NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE IBC. MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304.10.1. 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. TIGHTEN BOLTS AND LAG SCREWS SNUGLY AGAINST WOOD FRAMING AFTER WOOD HAS REACHED SPECIFIED MOISTURE CONTENT.

B. **WALL FRAMING:** ALL BEARING AND SHEAR WALLS SHOWN AND NOT OTHERWISE NOTED SHALL BE 2 x 4 STUDS @ 16" O.C. AT INTERIOR WALLS AND 2 x 6 @ 16" O.C. AT EXTERIOR WALLS. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL BEARING AND SHEAR WALLS AND AT EACH SIDE OF ALL OPENINGS. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW.

ALL BEARING STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 8" O.C. STAGGERED OR BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS WITH 3"x3"x1/4" PLATE WASHERS @ 4'-0" O.C., UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH 10d-F NAILS @ 8" 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 ATTACHED TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING WITH SCREWS AT 8" O.C. USE 1-1/4" W #6 SCREWS FOR 1/2" GNB AND 5/8" GNB WHERE OCCURS. VERIFY THE FIRE ASSEMBLY REQUIREMENTS WHERE APPLICABLE WITH THE ARCHITECT.

C. **FLOOR AND ROOF FRAMING:** PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH 10d-F NAILS @ 8" O.C. STAGGERED UNLESS OTHERWISE NOTED.

D. **POSITIVE CONNECTIONS:** PROVIDE THE POSITIVE ATTACHMENT FOR ALL FRAMING AS NOTED ON PLAN OR DETAILS. ALL CONNECTORS EXPOSED TO WEATHER OR DIRECT CONTACT WITH PRESSURE TREATED WOOD SHALL BE GALVANIZED.

STRUCTURAL OBSERVATION

AS NOTED IN IBC SECTION 1704.6, STRUCTURAL OBSERVATION IS REQUIRED FOR THIS PROJECT. STRUCTURAL OBSERVATION MEANS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, INCLUDING BUT NOT LIMITED TO, THE ELEMENTS AND CONNECTIONS AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY OF THE INSPECTIONS REQUIRED BY IBC SECTIONS 110 AND 1704.

IN OUR STRUCTURAL OBSERVATION, WE WILL SELECT PORTIONS OF WORK TO REVIEW CLOSELY AS WELL AS OBSERVE THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. SUCH REVIEW PROCEDURES WILL BE CONDUCTED IN ACCORDANCE WITH COMMONLY ACCEPTED STANDARDS OF PRACTICE. THE BUILDING OFFICIAL UNDERSTANDS THAT SUCH PROCEDURES INDICATE ACTUAL CONDITIONS ONLY WHERE THE REVIEW IS PERFORMED AND THAT THE RESULTS WILL BE INFERRED TO EXIST IN OTHER AREAS NOT REVIEWED.

THE BUILDING OFFICIAL ALSO RECOGNIZES THAT STRUCTURAL REVIEW IS A TECHNIQUE EMPLOYED TO MINIMIZE THE RISK OF PROBLEMS ARISING DURING CONSTRUCTION. STRUCTURAL OBSERVATION BY THE DESIGN PROFESSIONAL DOES NOT CONSTITUTE WARRANTY OR GUARANTEE OF ANY TYPE. IN ALL CASES, THE CONTRACTOR SHALL RETAIN RESPONSIBILITY FOR THE QUALITY OF WORK AND FOR ADHERENCE TO THE APPROVED PLANS AND SPECIFICATIONS.

ABBREVIATIONS

@	At	L	Angle
d	Penny (Nails)	LB.	Pound
φ	Diameter	LL	Live Load
°	Degrees	LLH	Long Leg Horizontal
...#	Pounds	LLV	Long Leg Vertical
#...	Number	LONGIT.	Longitudinal
		LT. WT.	Lightweight
(A)	Above	MAX.	Maximum
AB.	Anchor Bolt	MECH.	Mechanical
ADD'L	Additional	MEZZ.	Mezzanine
ALT.	Alternate	MF	Moment Frame
APPROX.	Approximate	MFR.	Manufacturer
ARCH.	Architect	MIN.	Minimum
		MISC.	Miscellaneous
(B)	Below	MK.	Mark
B/	Bottom of	(N)	New
BF	Braced Frame	N.	North
BLKG.	Blocking	N.S.	Near Side
BLDG.	Building	NOM.	Nominal
BM.	Beam	NTS	Not to Scale
BOT.	Bottom	O.C.	On Center
BRG.	Bearing	O.D.	Outside Diameter
BTVN.	Between	O.F.	Outside Face
		O.H.	Overhang
		OPNG.	Opening
		OPP.	Opposite
CL	Centerline	PAF	Powder Actuated Fastener
C	Camber	PC	Precast
CIP	Cast In Place	PERM.	Permanent
C.J.	Construction Joint or Control Joint	PERP.	Perpendicular
CJP	Complete Joint Penetration	PJP	Partial Joint Penetration
CLG.	Ceiling	PL or P	Plate
CLR.	Clear	PLF	Pounds per linear Foot
CMU	Concrete Masonry Unit	PLYWD	Plywood
COL.	Column	PREFAB.	Prefabricated
CONC.	Concrete	PSF	Pounds per Square Foot
CONN.	Connections	PSI	Pounds per Square Inch
CONST.	Construction	P.T. or PT	Post-Tensioning
CONT.	Continuous	P/T	Pressure-Treated
CSK.	Countersink	RAD.	Radius
		REF.	Reference
		REINF.	Reinforce or Reinforcement
		REQD.	Required
		REV.	Revise
		R.O.	Rough Opening
		S.	South
		SCH. or SCHED.	Schedule
		SECT.	Section
		SHT.	Sheet
		SIM.	Similar
		SOG	Slab On Grade
		SPEC.	Specification
		SQ.	Square
		SQ. FT.	Square Feet
		SQ. IN.	Square Inch(es)
		SFF	Spruce-Fine-Fir
		S.S.	Stainless Steel
		STD.	Standard
		STIFF.	Stiffener
		STL.	Steel
		STR.	Structural
		SUB.	Substitute
		SYM.	Symmetrical
		T/	Top of
		T&B	Top and Bottom
		T&G	Tongue & Groove
		TEMP.	Temporary
		THRU.	Through
		T.O.C.	Top of Concrete
		T.O.S.	Top of Steel
		T.O.W.	Top of Wall
		TRANS.	Transverse
		TS	Tube Steel
		TYP.	Typical
		U.O.N.	Unless Otherwise Noted
		VERT.	Vertical
		VIF	Verify in Field
		W.	West
		W or w/	With
		W.H.S.	Welded Headed Stud
		W/O	Without
		W.P.	Work Point
		W.T.S.	Welded Threaded Stud
		WWF	Welded Wire Fabric
		X SECT.	Cross Section
		X-STR	Extra Strong
		XX-STR	Double Extra Strong
K	Kips		
KSF	Kips per Square Foot		
KSI	Kips per Square Inch		

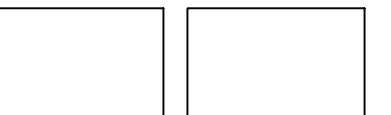


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GENERAL STRUCTURAL NOTES

Scale: AS NOTED

S1.1

FOUNDATION / BASEMENT PLAN NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR WITH LINDAL CEDAR HOME DRAWINGS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF LINDAL CEDAR HOMES AND ENGINEER IMMEDIATELY.
2. SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEET S3.0 FOR TYPICAL CONCRETE AND FOUNDATION DETAILS. SEE SHEET S4.0 FOR TYPICAL WOOD DETAILS.
3. BASEMENT SLAB-ON-GRADE SHALL BE 6" THICK CONCRETE REINFORCED PER PLAN, U.O.N. SEE LINDAL CEDAR HOME DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SUB-GRADE MOISTURE BARRIER AND ELEVATIONS, ETC. SLAB IS DESIGNED TO SPAN BETWEEN GRADE BEAMS (NO CONTROL JOINTS).
4. EXTERIOR SLAB-ON-GRADE SHALL BE 4" THICK CONCRETE REINFORCED WITH #4 @ 16" O.C. EACH WAY AT MID-DEPTH, U.O.N. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SUB-GRADE MOISTURE BARRIER AND ELEVATIONS, ETC.
5. FOR EXTERIOR SLAB-ON-GRADE JOINTS, SEE DETAIL 2/S3.0.
6. ALL WOOD BEARING ON UNPROTECTED CONCRETE, EXPOSED TO WEATHER, OR WITHIN 8" OF FINISHED GRADE SHALL BE PRESSURE-TREATED, U.O.N.
7. FOR SILL PLATE ANCHOR BOLT LAYOUT TO CONCRETE FOUNDATION WALLS AND SLABS, SEE DETAIL 1/S4.0.
8. ALL BEARING AND SHEAR WALLS SHALL BE 2x6 @ 16" O.C. INTERIOR AND 2x6 @ 16" O.C. EXTERIOR U.O.N.
9. POSTS INDICATED ARE AT THIS LEVEL. ALL POSTS NOT SPECIFIED SHALL BE (2) 2x. PROVIDE SOLID OR BUILT-UP WOOD POSTS BENEATH THE ENDS OF ALL FLOOR BEAMS AND ALL POSTS ABOVE FOR FULL BEARING. PROVIDE BLKG. AT JOISTS PER DETAIL 1/S4.1. SEE 3/S4.1 FOR TYPICAL POST BASE CONNECTION.
10. SW-x INDICATES SHEAR WALL AT THIS LEVEL. SEE SHEAR WALL SCHEDULE 8/S4.0 FOR SHEATHING, BLOCKING, NAILING, AND ANCHOR BOLT REQUIREMENTS. ALL EXTERIOR WALLS SHALL BE SHEATHED PER SW-6 CRITERIA U.O.N.
11. HDUx INDICATES HOLDOWN TO CONCRETE FOUNDATION WALLS OR GRADE BEAMS. SEE 12/S4.0 FOR HOLDOWN DETAIL. SEE 4/S3.0 FOR ADDITIONAL HOLDOWN REQUIREMENTS AT GRADE BEAMS. USE MIN. (2) 2x POST U.O.N.



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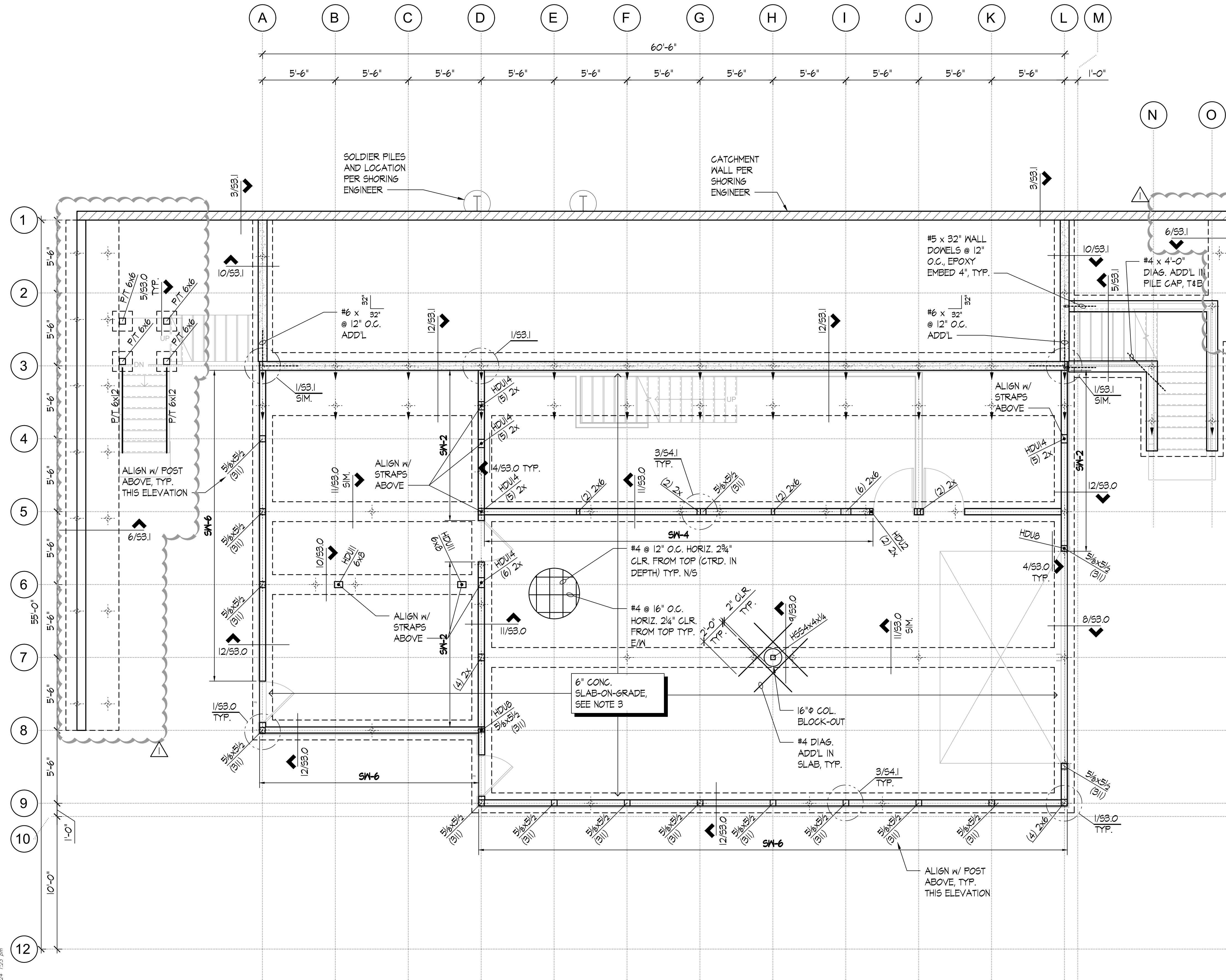
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**FOUNDATION
BASEMENT PLAN**

Scale: AS NOTED

S2.0a

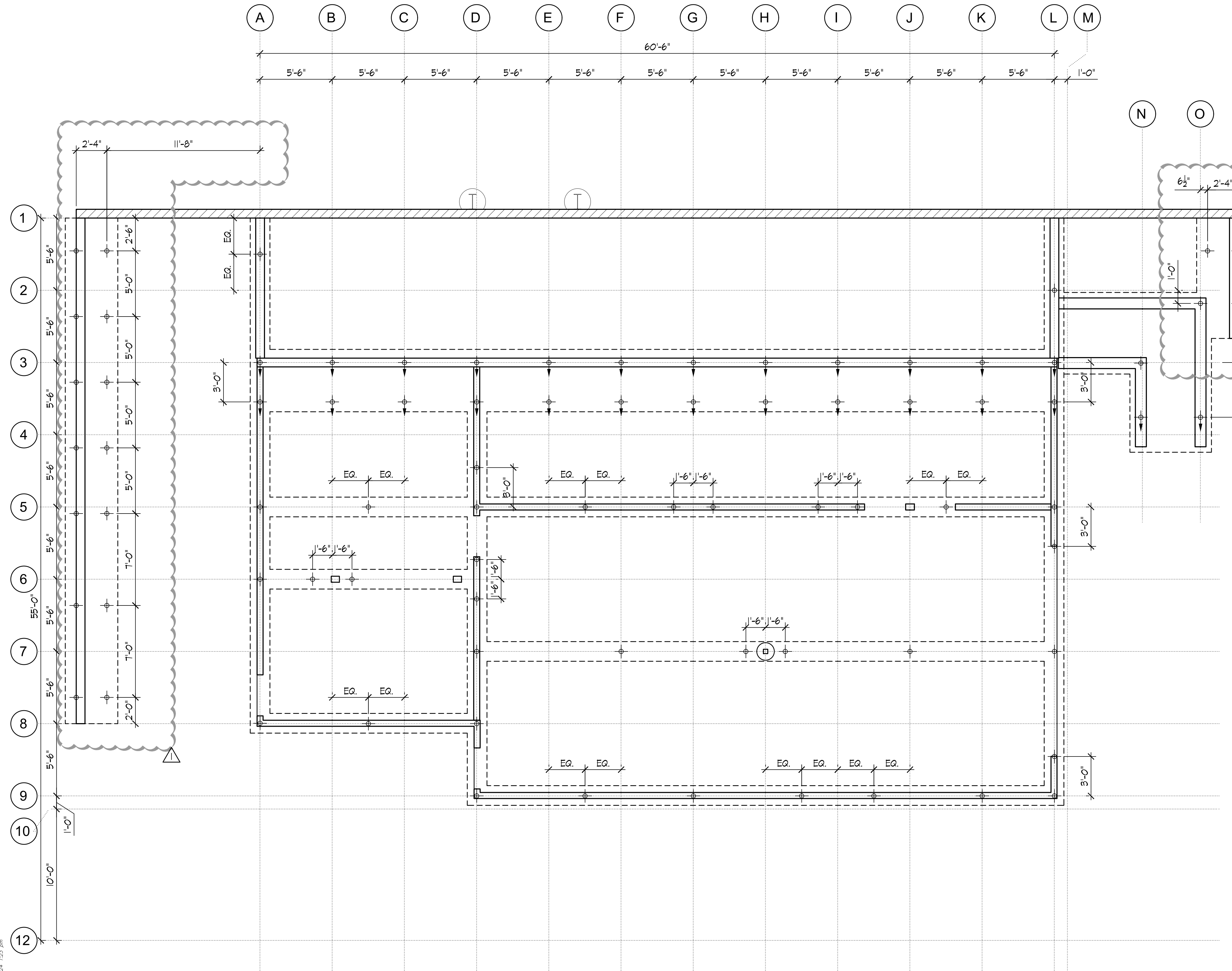


FOUNDATION / BASEMENT PLAN
SCALE: 1/4" = 1'-0"

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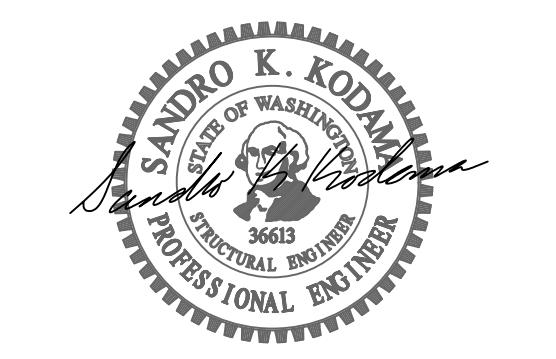
PIN PILE PLAN NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR WITH LINDAL CEDAR HOME DRAWINGS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF LINDAL CEDAR HOMES AND ENGINEER IMMEDIATELY.
2. PIPE PILES SHALL BE 4"Ø AS NOTED ON THE PLANS, GALVANIZED, SCHEDULE 80 (STD) ASTM A53 (TYPE OR S, GRADE B).
3. PILES SHALL BE DRIVEN TO REFUSAL w/ A MINIMUM 1,100 L. HAMMER. REFER TO GEOTECHNICAL REPORT FOR FINAL DRIVING RATES.
4. PIPE PILE INSTALLATION SHALL BE CONTINUOUSLY INSPECTED BY GEOTECHNICAL ENGINEER.



LEGEND:

- ⊕ INDICATES 4" PIPE PILE PER GENERAL NOTES
- ⊕→ INDICATES 4" BATTERED PIPE PILE (3V:1H) AND DIRECTION



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PIN PILE PLAN
Scale: AS NOTED

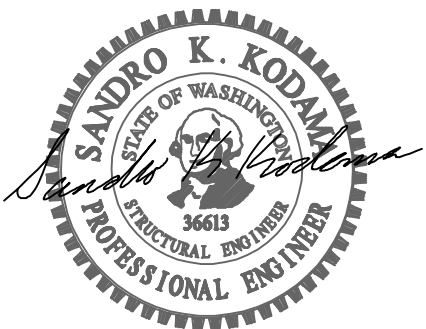
S2.0b

PIN PILE PLAN
SCALE: 1/4" = 1'-0"

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FIRST FLOOR FRAMING PLAN NOTES:

- ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR WITH LINDAL CEDAR HOME DRAWINGS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF LINDAL CEDAR HOMES AND ENGINEER IMMEDIATELY.
- SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEETS S4.0 THRU S4.3 FOR TYPICAL WOOD DETAILS.
- TYPICAL FLOOR FRAMING CONSISTS OF 23/32" APA RATED T&G SHEATHING (INDEX 48/24), LAID FACE GRAIN PERPENDICULAR OVER 11-7/8" TJI 110 (540A) JOISTS AT 16" O.C. HANG TJI JOISTS WITH ITS1.81/11.88 (T80-210) TOP FLANGE HANGERS TYPICAL AT FLUSH BEAMS, U.O.N.
- TYPICAL DECK FRAMING CONSISTS OF DECK BOARDS PER LINDAL CEDAR HOMES, OVER 23/32" APA RATED T&G SHEATHING (INDEX 48/24), LAID FACE GRAIN PERPENDICULAR OVER 2x10 (419-W) JOISTS AT 16" O.C. HANG JOISTS WITH LUS28 (T80-209) FACE MOUNT HANGERS TYPICAL AT FLUSH BEAMS, U.O.N.
- NAIL FLOOR SHEATHING TO FRAMING WITH 8d NAILS (0.131"φ x 2.5" LONG) AT 6" O.C. AT ALL PANELS EDGES AND 8d NAILS AT 12" O.C. AT INTERMEDIATE FRAMING MEMBERS, BLOCK PANEL EDGES WHERE INDICATED. SEE DETAIL 6/54.0.
- ALL BEARING AND SHEAR WALLS SHALL BE 2x6 @ 16" O.C. INTERIOR AND 2x6 @ 16" O.C. EXTERIOR U.O.N.
- POSTS INDICATED ARE AT THIS LEVEL. ALL POSTS NOT SPECIFIED SHALL BE (2) 2x. PROVIDE SOLID OR BUILT-UP WOOD POSTS BENEATH THE ENDS OF ALL FLOOR BEAMS AND ALL POSTS ABOVE FOR FULL BEARING. PROVIDE BLKG. AT JOISTS PER DETAIL 7/54.1. SEE 3/54.1 FOR TYPICAL POST BASE CONNECTION.
- ALL HEADERS NOT SHOWN ON PLAN SHALL BE 3/2x9 1/2 LSL (532) FOR EXTERIOR BEARING WALLS AND 3/2x9 1/2 LSL (532) FOR INTERIOR BEARING WALLS. SEE 10/54.1 FOR HEADER DETAIL. HANG HEADERS W/ HUC410 (T80-410) WHERE HANGERS ARE INDICATED ON PLAN.
- FOR TOP PLATE SPLICE SEE DETAIL 6/54.1.
- ALIGN A JOIST OR JOIST BLOCKING OVER THE FULL LENGTH OF ALL BEARING/SHEAR WALLS. SEE 8/54.0 FOR SPECIAL SHEAR WALL BLOCKING REQUIREMENTS.
- SW-x INDICATES SHEAR WALL AT THIS LEVEL. SEE SHEAR WALL SCHEDULE 8/54.0 FOR SHEATHING, BLOCKING, NAILING, AND ANCHOR BOLT REQUIREMENTS. ALL EXTERIOR WALLS SHALL
- HDUX INDICATES HOLDOWN TO CONCRETE FOUNDATION WALLS OR FOOTINGS. SEE 12/54.0 FOR HOLDOWN DETAIL. USE MIN. (2) 2x POST U.O.N.
- CMSTxx INDICATES HOLDOWN STRAP TO FRAMING BELOW WALL. SEE 10/54.0 FOR STRAP HOLDOWN DETAIL AT FLOOR-TO-FLOOR AND BEAM SUPPORTING SHEAR WALL END. USE MIN. (2) 2x POST U.O.N.



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LEGEND:

- ↑ INDICATES FRAMING DIRECTION
- INDICATES CONCRETE FOUNDATION, WOOD BEARING WALL, OR SHEAR WALL BELOW
- SW-x INDICATES SHEAR WALL TYPE AT THIS LEVEL. SEE PLAN NOTE II
- INDICATES WOOD BEARING OR SHEAR WALL AT THIS LEVEL. SEE PLAN NOTES 6 & 11
- INDICATES BLOCKED DIAPHRAGM PER 6/54.0
- INDICATES EXTENT OF FRAMING
- INDICATES NON-BEARING/NON-SHEAR WALL AT THIS LEVEL
- INDICATES HEADER MEMBER. SEE PLAN NOTE 8
- INDICATES HANGER PER SCHEDULE

HANGER SCHEDULE			
MEMBER	LINDAL PART NO.	HANGER	LINDAL PART NO.
11 7/8" TJI 110	540A	ITS1.81/11.88	T80-210
2x10	419-W	LUS28	T80-209
3 1/2x11 7/8 LSL	542	HUC412	T80-412
5 1/4x11 7/8 PSL	546	-	-
6 3/4x16 1/2 GL	ZZZ	MGU7.00	008-01
5 1/8x18 GL	KK	-	-

FIRST FLOOR FRAMING PLAN

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

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FIRST FLOOR FRAMING PLAN

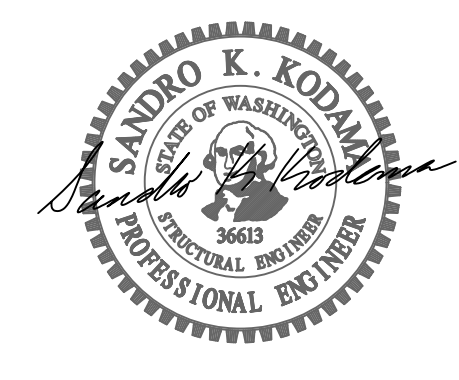
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S2.1

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SECOND FLOOR FRAMING PLAN NOTES:

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- SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEETS S4.0 THRU S4.4 FOR TYPICAL WOOD DETAILS. SEE S5.0 FOR TYPICAL WOOD/STEEL DETAILS.
- TYPICAL FLOOR FRAMING CONSISTS OF 1-1/8" AFA RATED T&G SHEATHING (INDEX 48/24), LAID FACE GRAIN PERPENDICULAR OVER 11-7/8" TJI 110 (540A) JOISTS AT 16" O.C., U.O.N. HANG TJI JOISTS WITH ITS1.81/11.88 (180-210) TOP FLANGE HANGERS TYPICAL AT FLUSH BEAMS, U.O.N.
- NAIL FLOOR SHEATHING TO FRAMING WITH 8d NAILS (0.131" φ x 2.5" LONG) AT 6" O.C. AT ALL PANELS EDGES AND 8d NAILS AT 12" O.C. AT INTERMEDIATE FRAMING MEMBERS, BLOCK PANEL EDGES WHERE INDICATED. SEE DETAIL 6/54.0.
- ALL BEARING AND SHEAR WALLS SHALL BE 2x4 @ 16" O.C. INTERIOR AND 2x6 @ 16" O.C. EXTERIOR U.O.N.
- POSTS INDICATED ARE AT THIS LEVEL. ALL POSTS NOT SPECIFIED SHALL BE (2) 2x. PROVIDE SOLID OR BUILT-UP WOOD POSTS BENEATH THE ENDS OF ALL FLOOR BEAMS AND ALL POSTS ABOVE FOR FULL BEARING. PROVIDE BLKG. AT JOISTS PER DETAIL 1/54.1. SEE 3/54.1 FOR TYPICAL POST BASE CONNECTION.
- ALL HEADERS NOT SHOWN ON PLAN SHALL BE 3/2x9 1/2 LSL (532) FOR EXTERIOR BEARING WALLS AND 3/2x9 1/2 LSL (532) FOR INTERIOR BEARING WALLS. SEE 10/54.1 FOR HEADER DETAIL. HANG HEADERS w/ HUC410 (180-410) WHERE HANGERS ARE INDICATED ON PLAN.
- FOR TOP PLATE SPLICE SEE DETAIL 6/54.1.
- ALIGN A JOIST OR JOIST BLOCKING OVER THE FULL LENGTH OF ALL BEARING/SHEAR WALLS. SEE 8/54.0 FOR SPECIAL SHEAR WALL BLOCKING REQUIREMENTS.
- SW-x INDICATES SHEAR WALL AT THIS LEVEL. SEE SHEAR WALL SCHEDULE 8/54.0 FOR SHEATHING, BLOCKING, NAILING, AND ANCHOR BOLT REQUIREMENTS. ALL EXTERIOR WALLS SHALL
- CS16 INDICATES HOLDOWN STRAP TO FRAMING BELOW WALL. SEE 10/54.0 FOR STRAP HOLDOWN DETAIL AT FLOOR-TO-FLOOR AND BEAM SUPPORTING SHEAR WALL END. USE MIN. (2) 2x POST U.O.N.



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LEGEND:

- INDICATES FRAMING DIRECTION
- INDICATES EXTENT OF FRAMING
- SW-x INDICATES SHEAR WALL TYPE AT THIS LEVEL. SEE PLAN NOTE 10
- INDICATES WOOD BEARING OR SHEAR WALL AT THIS LEVEL. SEE PLAN NOTES 5 & 10
- INDICATES WOOD BEARING WALL, OR SHEAR WALL BELOW
- INDICATES NON-BEARING/ NON-SHEAR WALL AT THIS LEVEL
- INDICATES HEADER MEMBER. SEE PLAN NOTE 7
- INDICATES HANGER PER SCHEDULE
- INDICATES BLOCKED DIAPHRAGM PER 6/54.0

HANGER SCHEDULE			
MEMBER	LINDAL PART NO.	HANGER	LINDAL PART NO.
11 7/8" TJI 110	540A	ITS1.81/11.88	180-210
11 7/8" TJI 560	540E	MIT411/11.88	180-211
3/2x11 7/8 LSL	542	HUC412	180-412
5/4x11 7/8 PSL	546	HUCQ612-SD5	160-612
7x11 7/8 PSL	547	H6U5T.25/12	008-02

SECOND FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

42255
HOME SERIES
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SECOND FLOOR FRAMING PLAN
Scale: AS NOTED

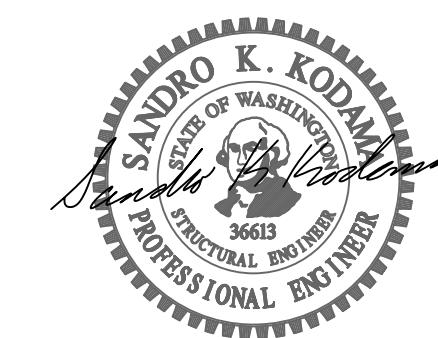
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ROOF FRAMING PLAN NOTES:

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- SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEETS S4.0, S4.1 AND S4.4 FOR TYPICAL WOOD DETAILS.
- TYPICAL ROOF FRAMING CONSISTS OF 19/32" APA RATED SHEATHING (INDEX 40/20), LAID FACE GRAIN PERPENDICULAR OVER 11-7/8" I-JOISTS @ 16" O.C., U.O.N.
- TYPICAL ROOF JOIST SHALL BE 11-7/8" TJI 110 (540A) @ 24" O.C., U.O.N. HANG JOISTS w/ ITS1.81/11.88 (T80-270) TOP FLANGE HANGERS TYPICAL AT FLUSH BEAMS.
- NAIL ROOF SHEATHING TO FRAMING WITH 8d NAILS (0.131"Ø x 2.5" LONG) AT 6" O.C. AT ALL PANELS EDGES AND 8d NAILS AT 12" O.C. AT INTERMEDIATE FRAMING MEMBERS (UNBLOCKED). SEE DETAIL 6/S4.0.
- PROVIDE SOLID BLOCKING BETWEEN EACH ROOF JOIST AT SUPPORTS. PROVIDE AN H2.5A (T80-5) CLIP AT EVERY MEMBER TO TOP PLATE, U.O.N.
- ALL HEADERS NOT SHOWN ON PLAN SHALL BE 3/2x9 1/2 LSL (532) FOR EXTERIOR BEARING WALLS AND 3/2x9 1/2 LSL (532) FOR INTERIOR BEARING WALLS. SEE 10/S4.1 FOR HEADER DETAIL. HANG HEADERS w/ HUC410 (T80-410) WHERE HANGERS ARE INDICATED ON PLAN.
- PROVIDE SOLID OR BUILT-UP WOOD POSTS BENEATH THE ENDS OF ALL ROOF BEAMS FOR FULL BEARING.
- FOR TOP PLATE SPLICE SEE DETAIL 6/S4.1.



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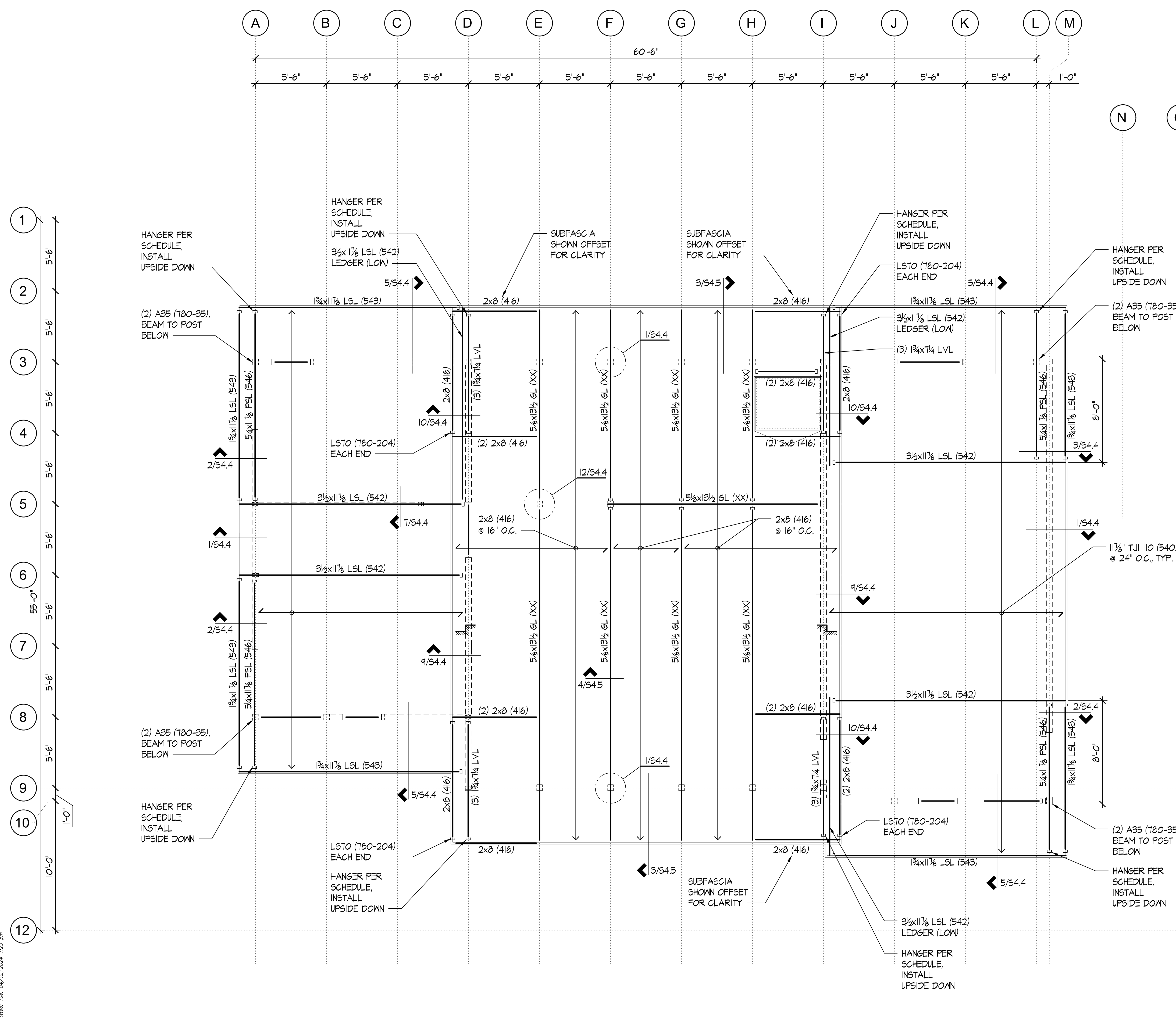
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HANGER SCHEDULE			
MEMBER	LINDAL PART NO.	HANGER, U.O.N.	LINDAL PART NO.
2x8	416	LUS28	T80-209
(3) 1 3/4x7 1/4 LVL	-	HUC68	T80-608
1 1/8" TJI 110	540A	ITS1.81/11.88	T80-270
1 3/4x1 1/8 LSL	543	HUCQ1.81/11-SD5	008-06
3/2x1 1/8 LSL	542	HUC412	T80-412
5/4x1 1/8 PSL	546	HUC612	T80-612
5/8x18 GL	KK	M6U5.25	008-05



ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

ROOF FRAMING PLAN

Scale: AS NOTED

S2.3

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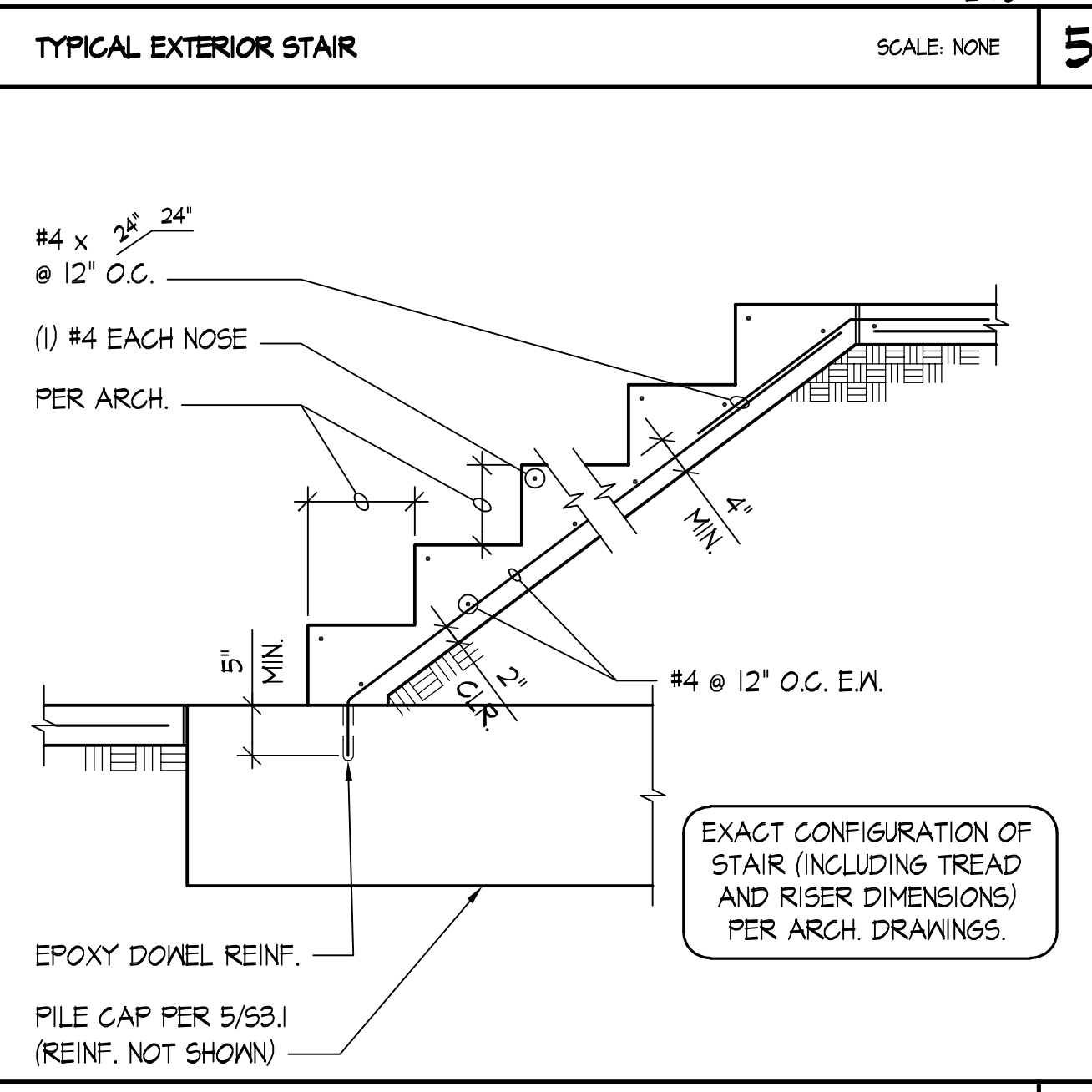
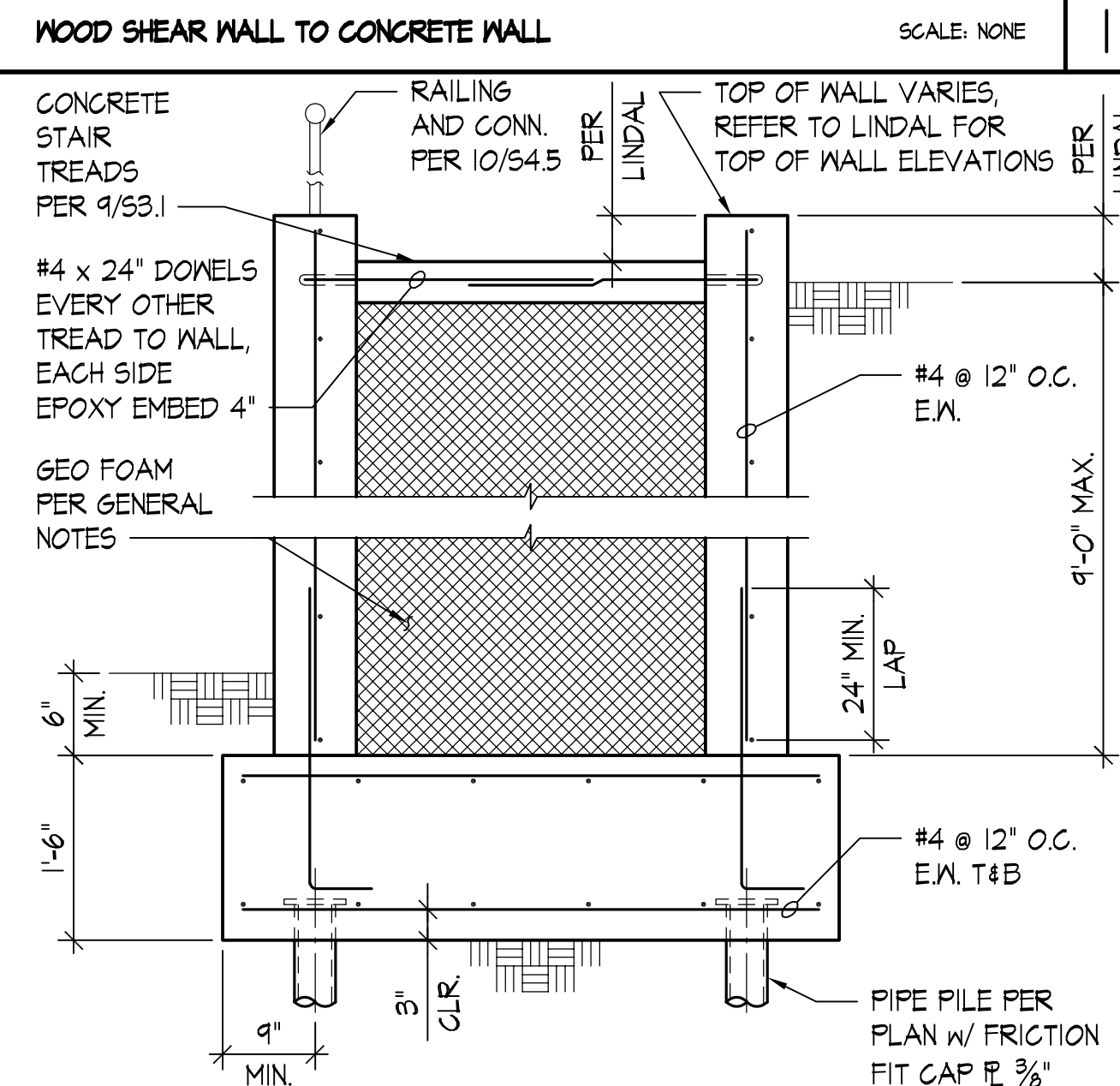
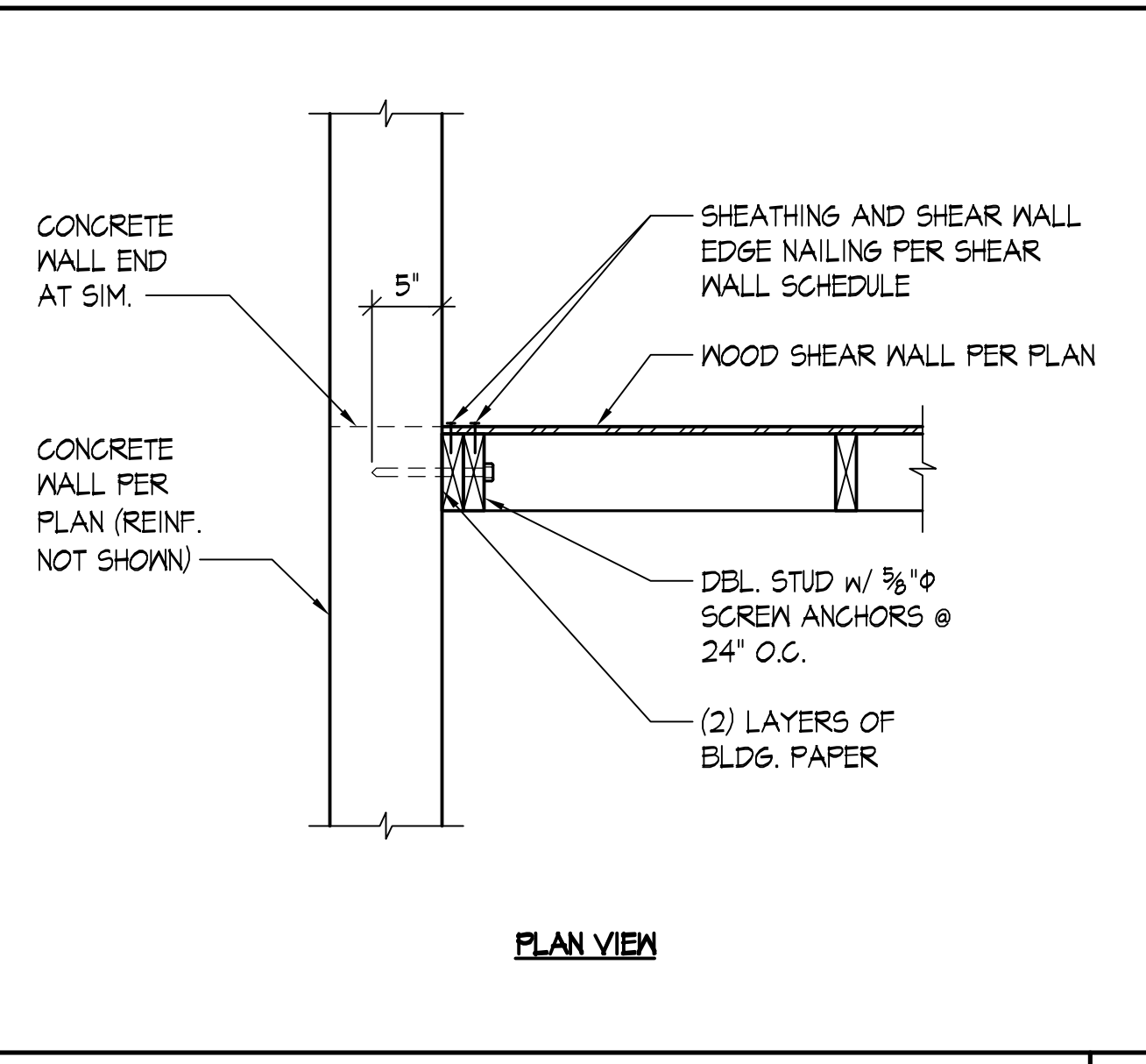
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**FOUNDATION
DETAILS**

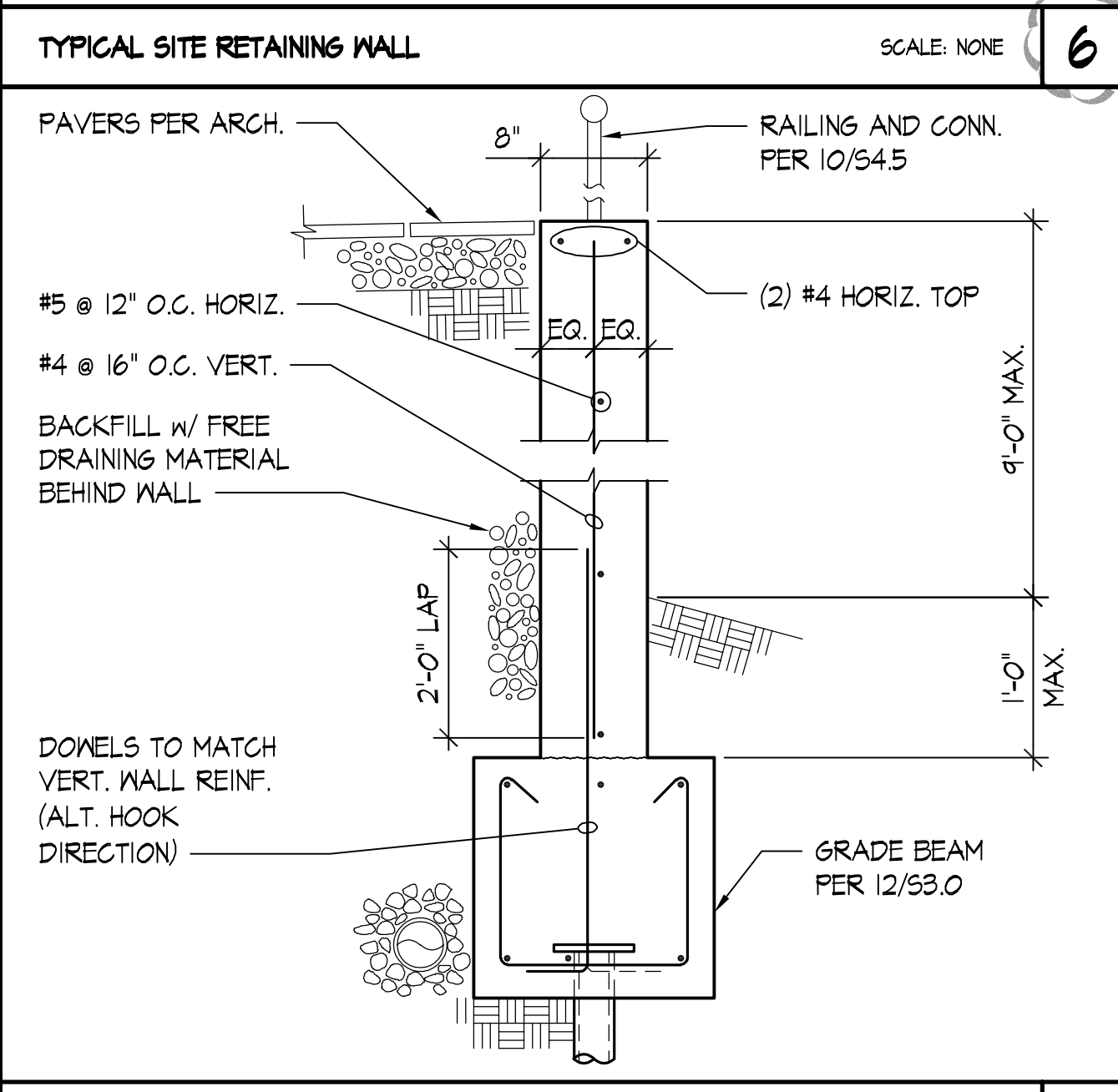
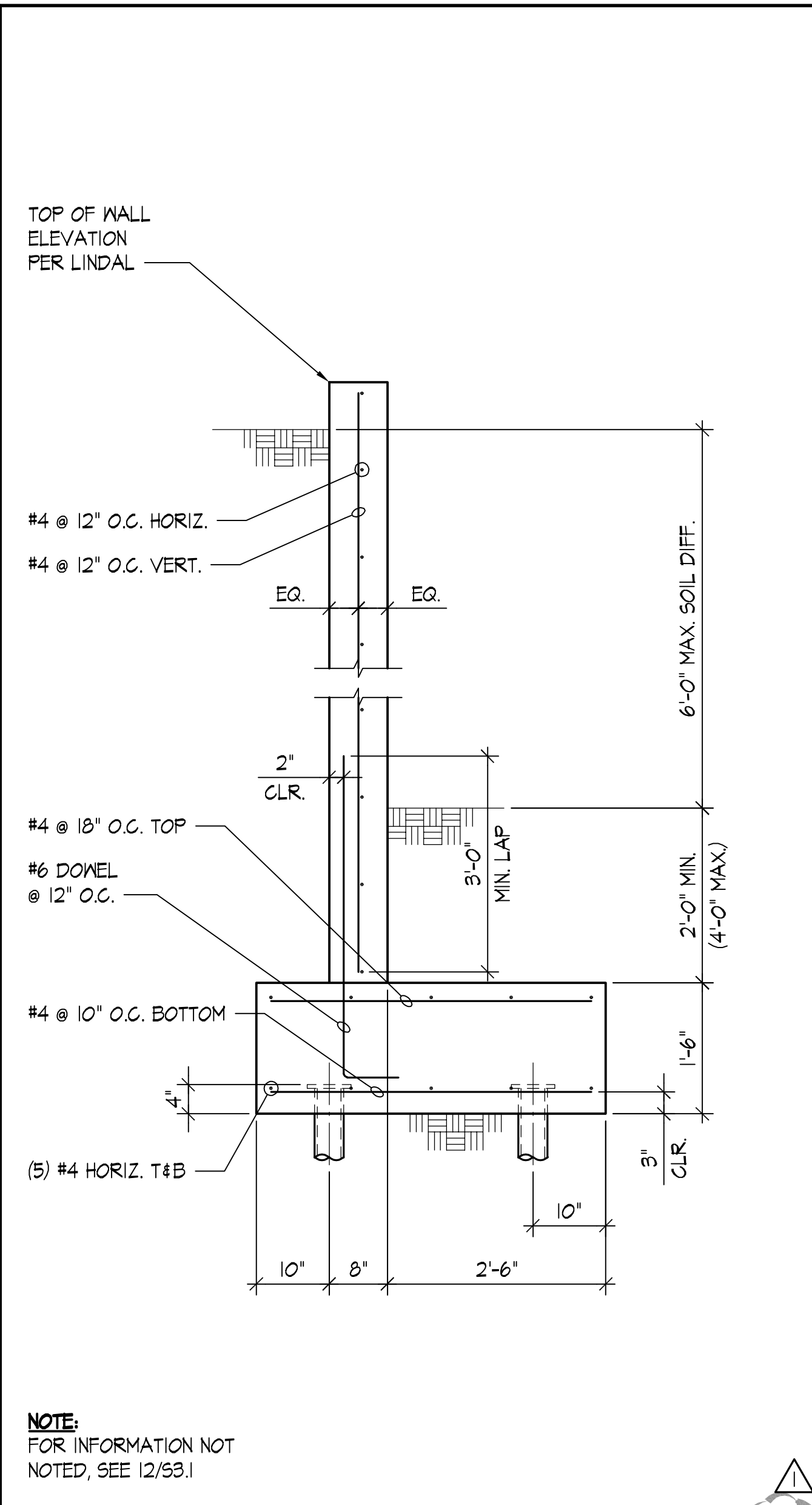
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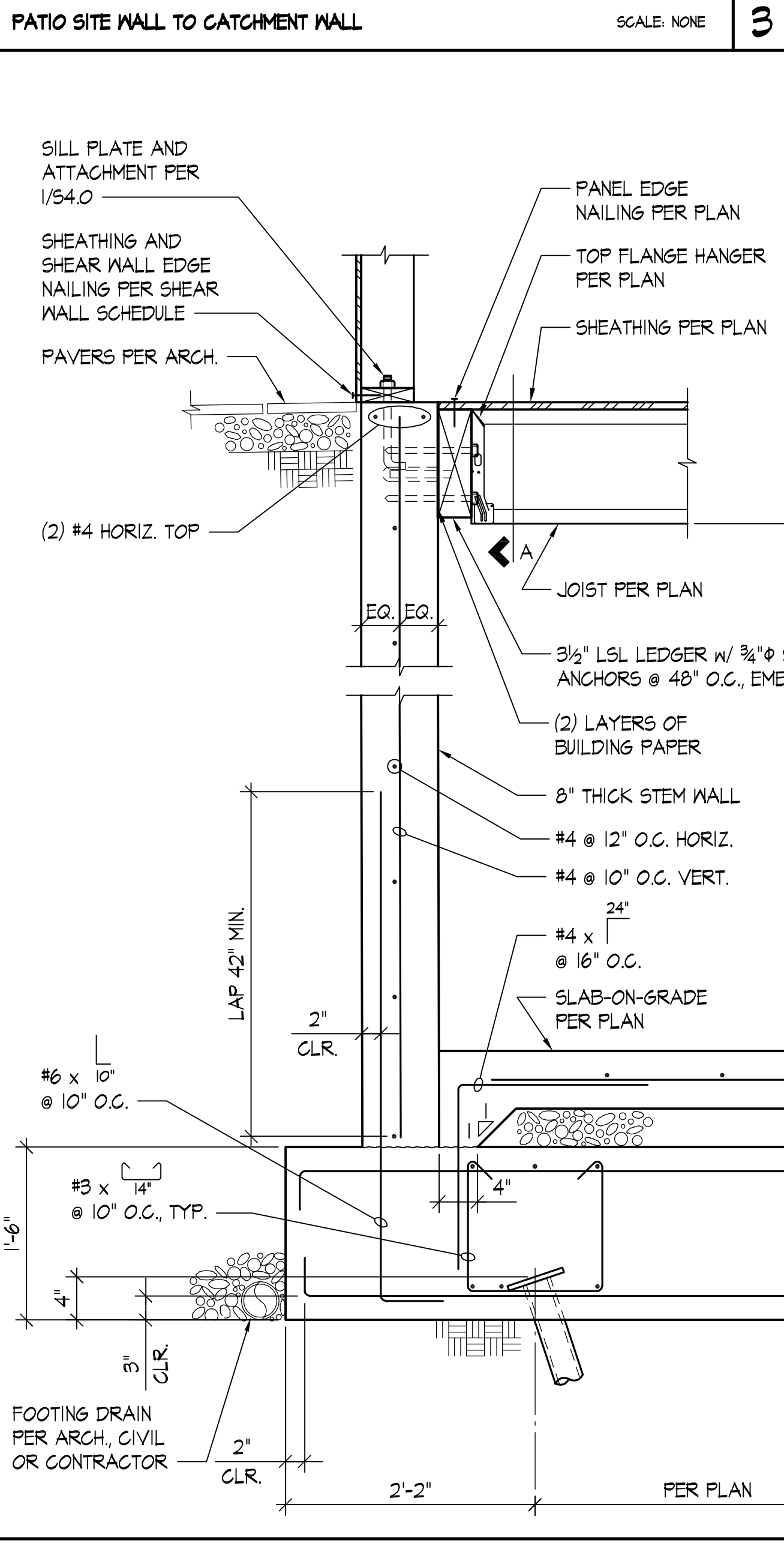
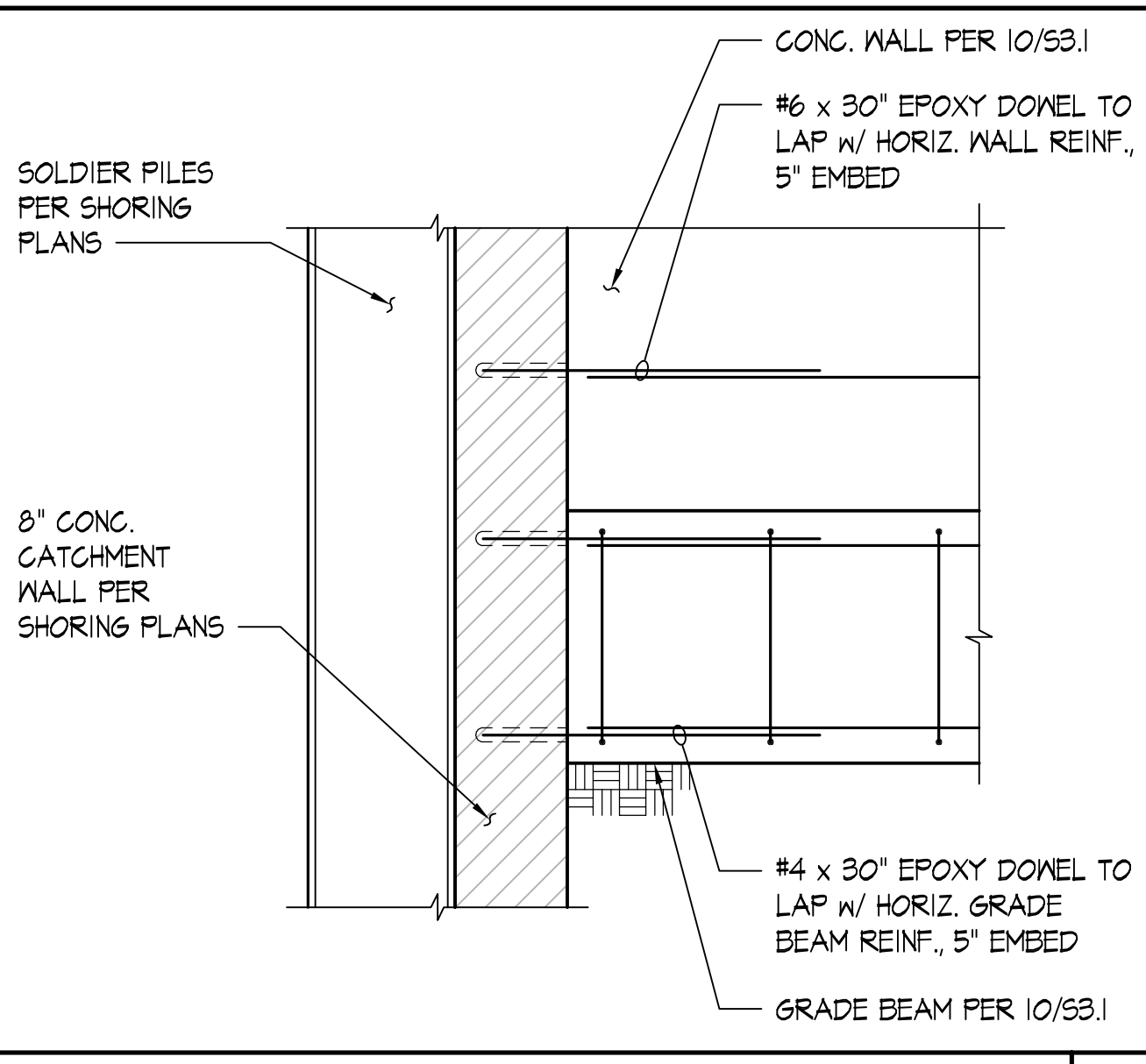
<p>PLAN VIEW</p>	<p>CONTROL JOINT (EXTERIOR SLAB ONLY)</p> <p>1/2" x 1/2" PREMOLDED CONT. MASTIC JOINT STRIP. (JOINT MAY BE SAW-CUT AT CONTRACTOR'S OPTION.)</p> <p>PROVIDE CONTROL OR CONSTRUCTION JOINTS IN EXTERIOR SLABS-ON-GRADE TO BREAK UP SLAB-ON-GRADE INTO SMALL SQUARE OR APPROXIMATELY RECTANGULAR AREAS. NO ACUTE ANGLES. THE RATIO OF LONG TO SHORT SIDE DIMENSION SHALL NOT EXCEED 15. MAXIMUM JOINT SPACING SHALL NOT EXCEED 36 TIMES THE SLAB-ON-GRADE THICKNESS IN EACH DIRECTION. CONTRACTOR SHALL SUBMIT JOINT LAYOUT PLAN TO ARCHITECT FOR APPROVAL.</p> <p>KEYED COLD JOINT</p> <p>CONTINUE REINF. THROUGH JOINT</p> <p>PLASTIC VAPOR BARRIER (WHERE OCCURS) AND COMPACTED GRANULAR FILL PER GEOTECHNICAL REPORT</p> <p>2'-0"</p> <p>SEE PLAN FOR SLAB THICKNESS AND REINFORCING (TYP.)</p> <p>SECOND POUR</p> <p>FIRST POUR</p> <p>CONSTRUCTION JOINT</p>	<p>TYPICAL HOLDDOWN ANCHOR AT GRADE BEAM</p>	<p>TYPICAL EXTERIOR POST FOOTING</p>
<p>TYPICAL INTERIOR GRADE BEAM W/ POST</p>	<p>TYPICAL INTERIOR GRADE BEAM FOUNDATION</p>	<p>TYPICAL PERIMETER GRADE BEAM FOUNDATION AT OPENING</p> <p>NOTE: FOR INFORMATION NOT NOTED, SEE 12/53.0</p>	<p>STEEL COLUMN BASE PLATE AT GRADE BEAM</p>
<p>TYPICAL PERIMETER GRADE BEAM FOUNDATION</p>	<p>TYPICAL EXTERIOR POST FOOTING</p>	<p>TYPICAL PERIMETER GRADE BEAM FOUNDATION</p>	<p>TYPICAL EXTERIOR POST FOOTING</p>



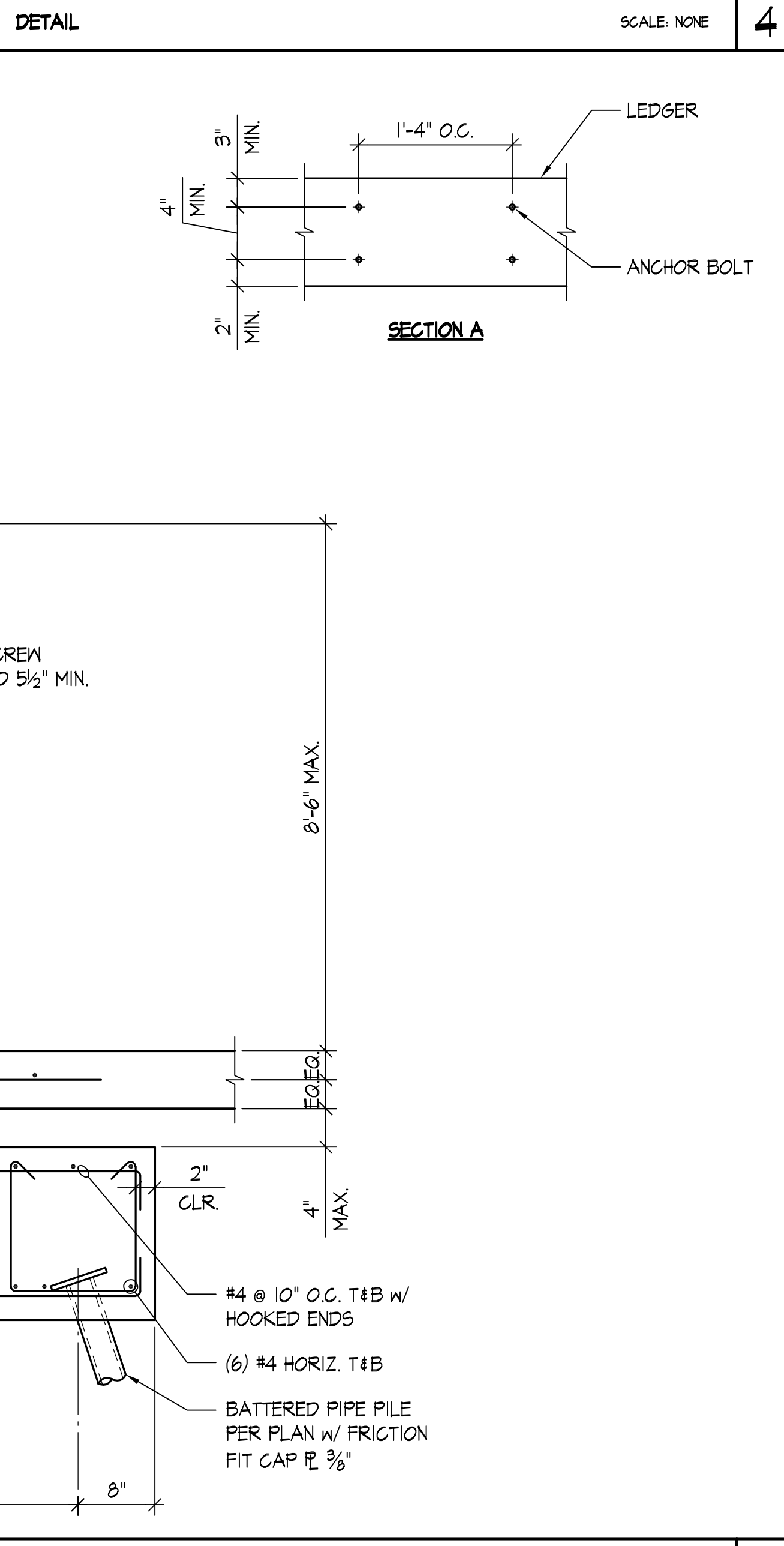
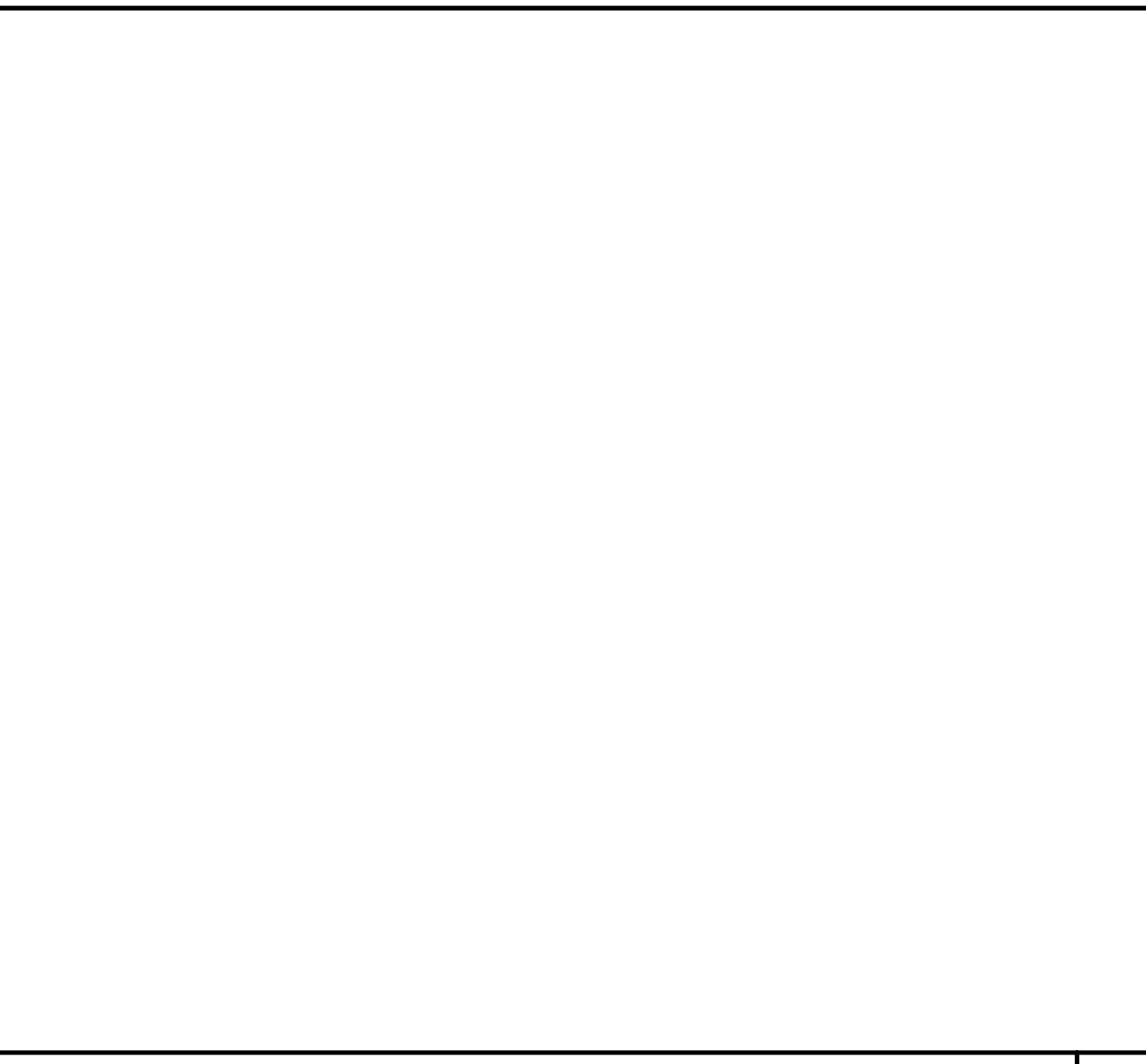
TYPICAL STAIR ON GRADE SCALE: NONE



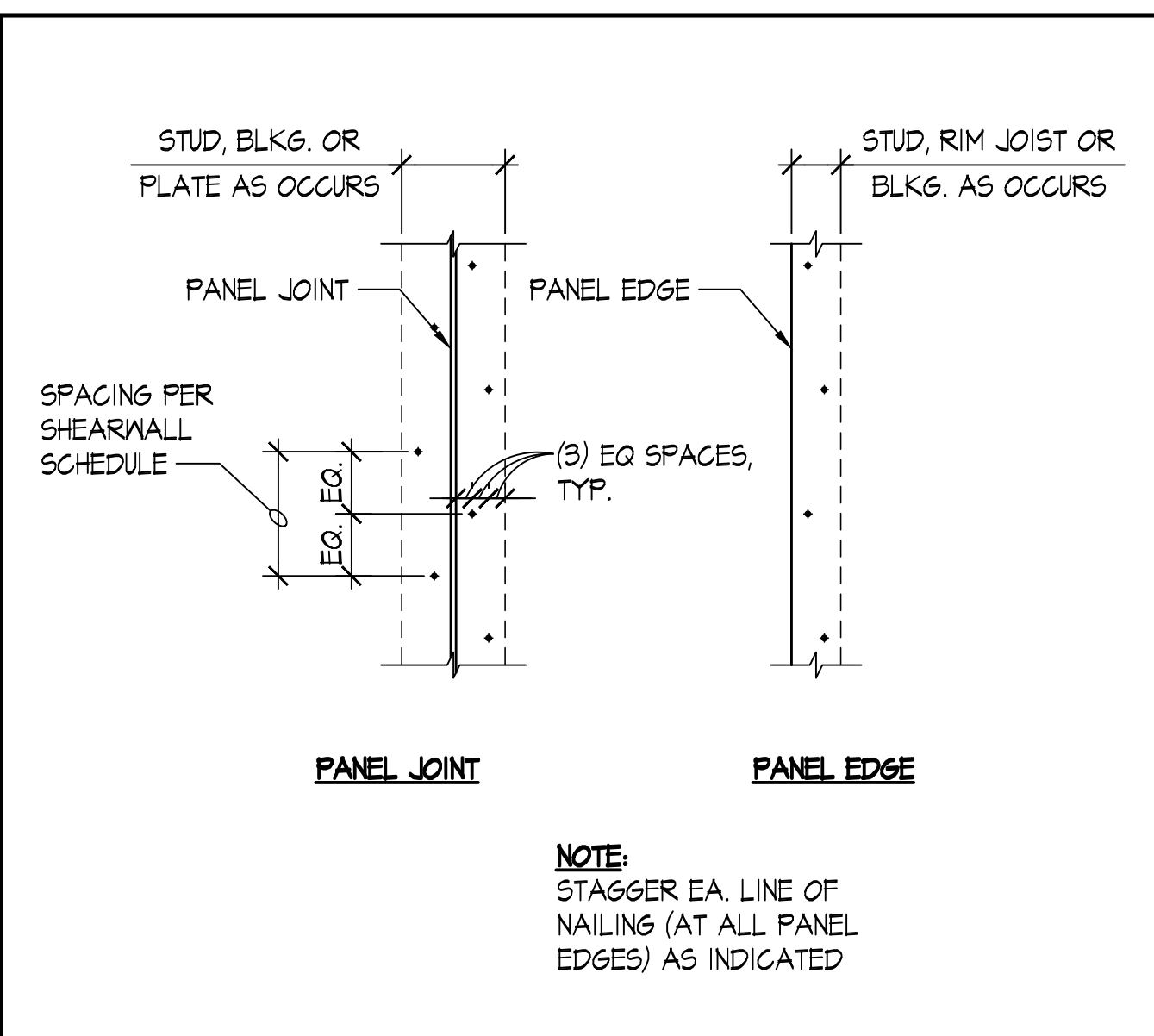
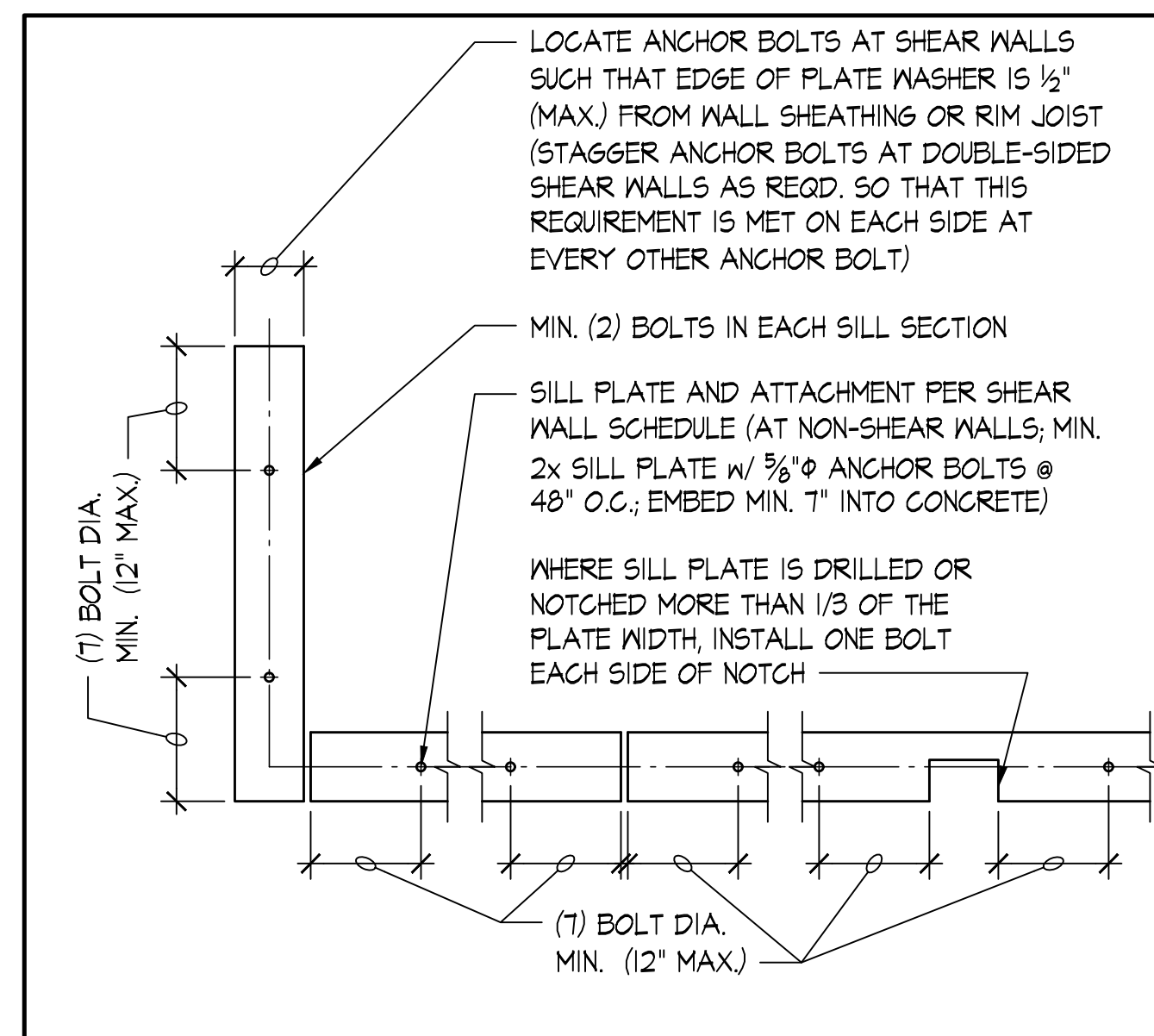
PATIO SITE WALL SCALE: NONE



TYPICAL BASEMENT WALL - I-JOIST PARALLEL SCALE: NONE

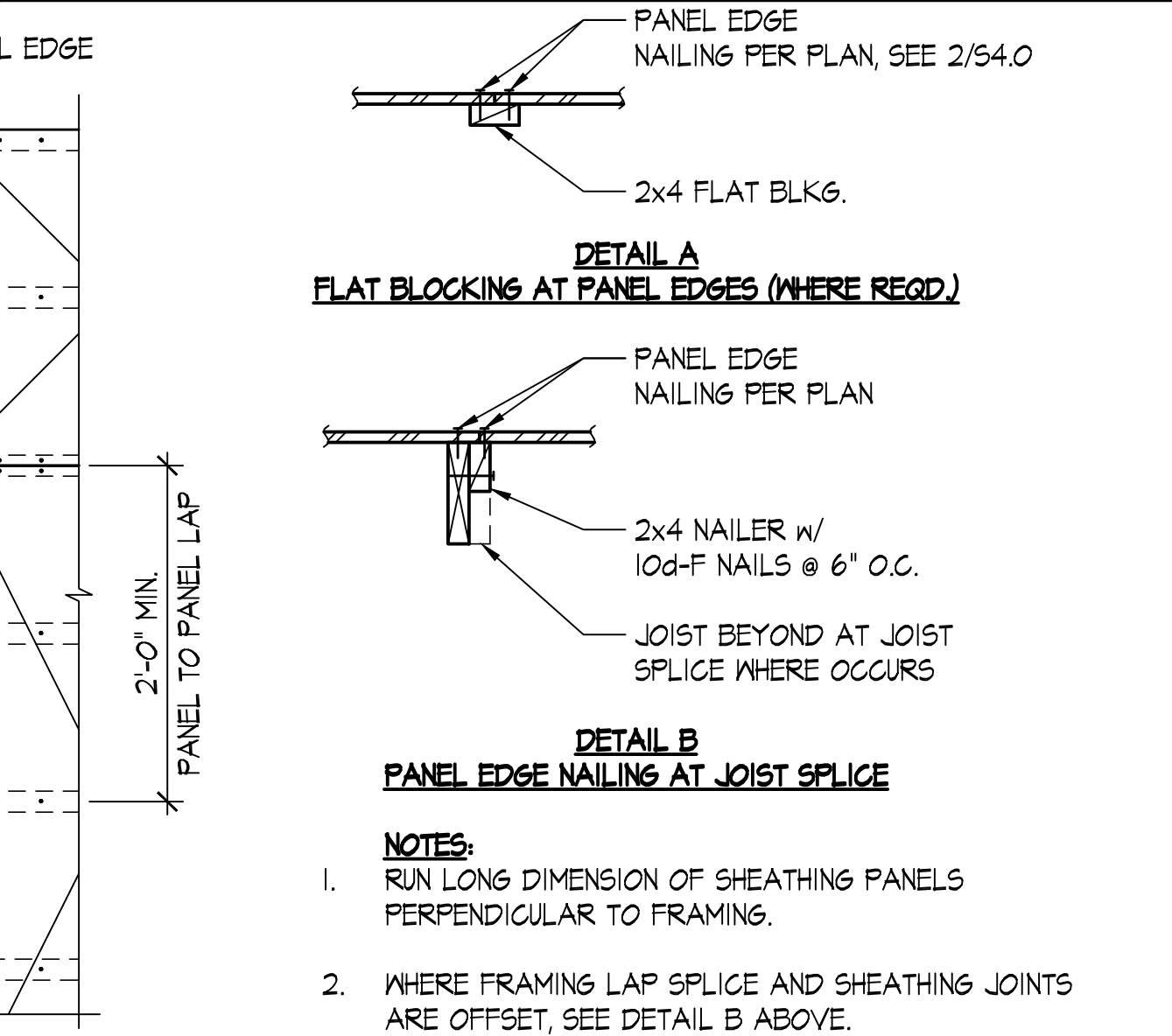
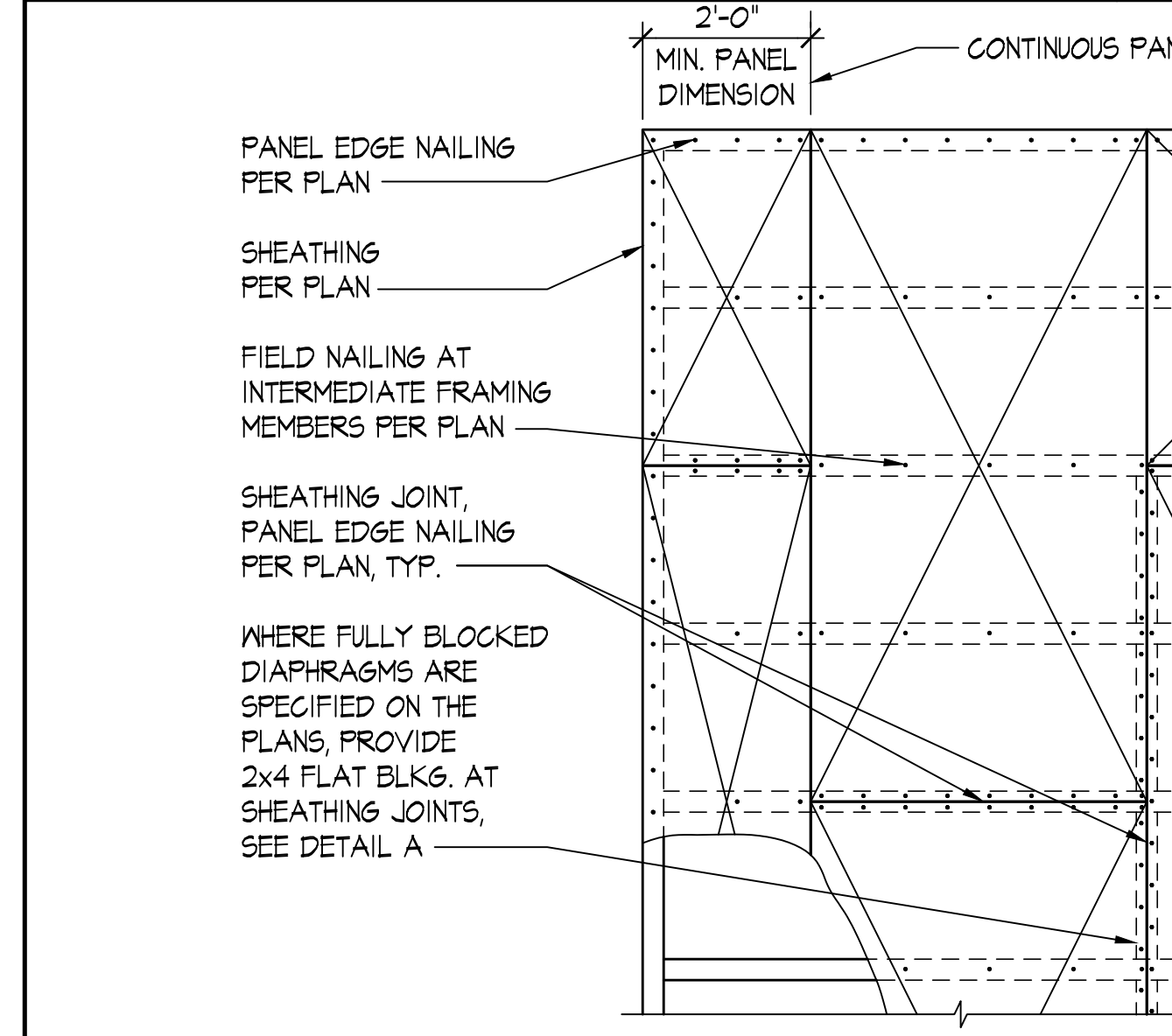


TYPICAL STAIR ON GRADE SCALE: NONE



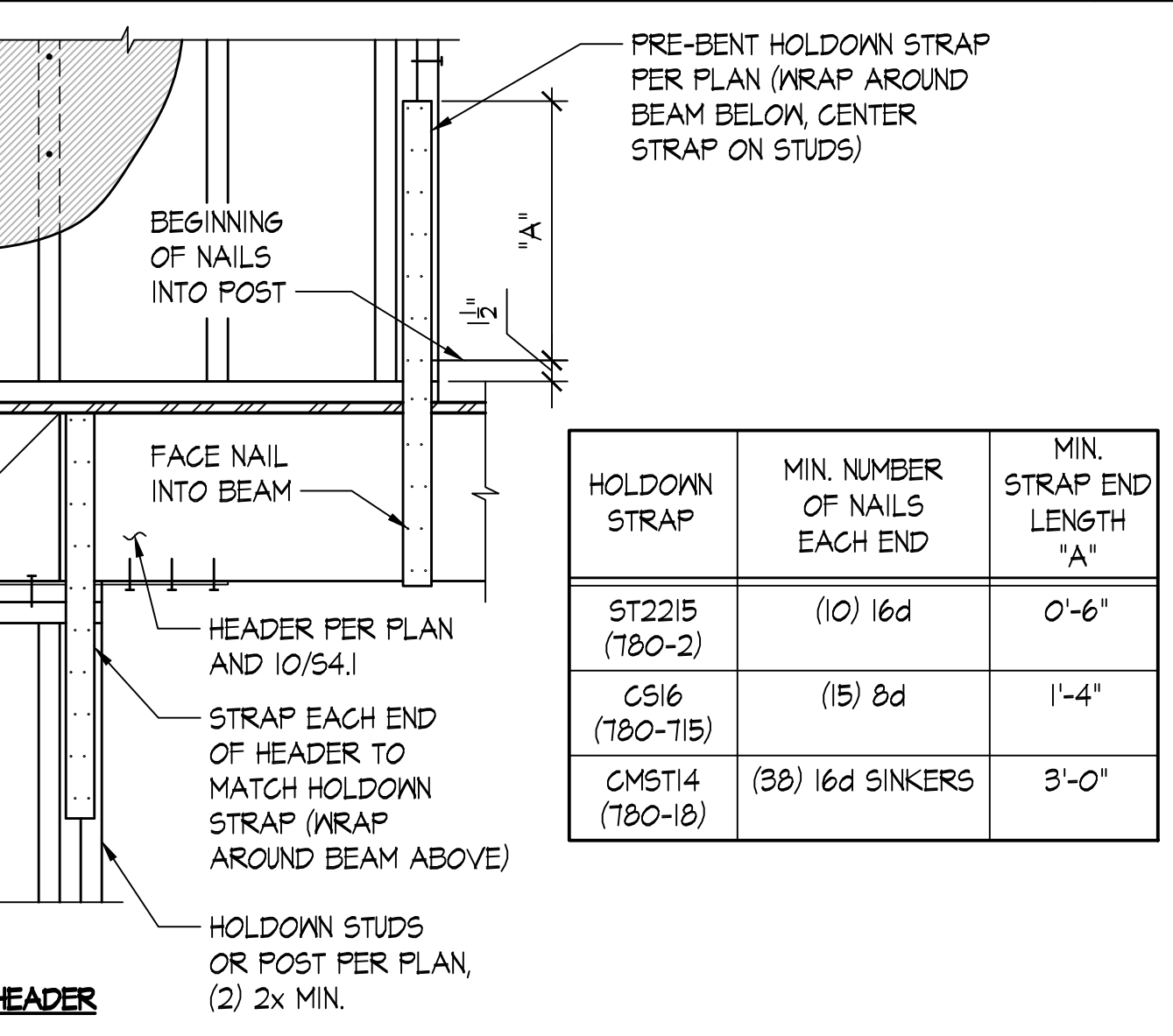
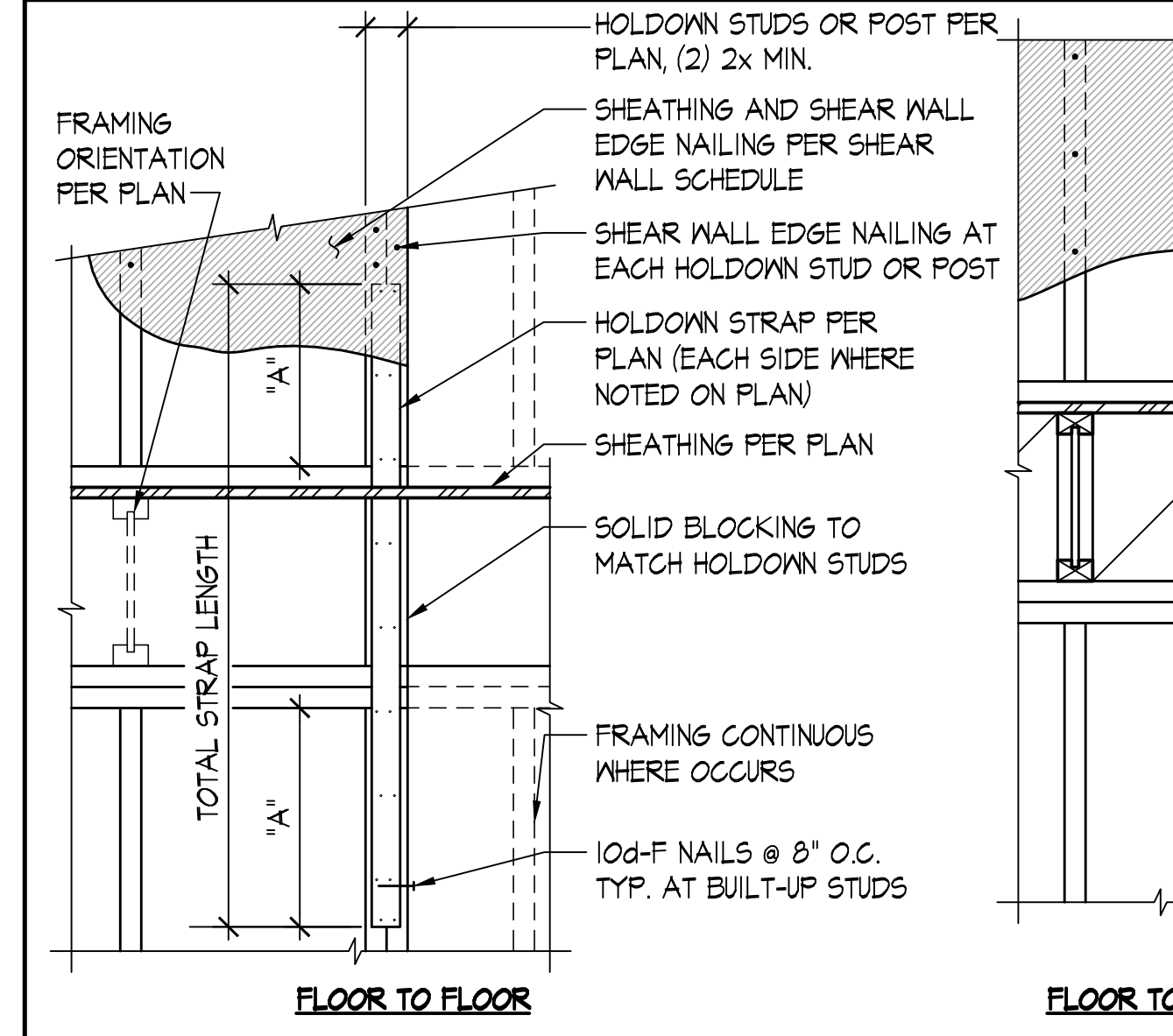
TYPICAL SILL PLATE BOLTING - PLAN VIEW SCALE: NONE

TYPICAL STAGGERED NAILING SCALE: NONE



TYPICAL ROOF AND FLOOR DIAPHRAGM SHEATHING SCALE: NONE

TYPICAL STAGGERED NAILING SCALE: NONE



TYPICAL FLOOR TO FLOOR HOLDDOWN STRAP & FLOOR TO HEADER HOLDDOWN STRAP SCALE: NONE

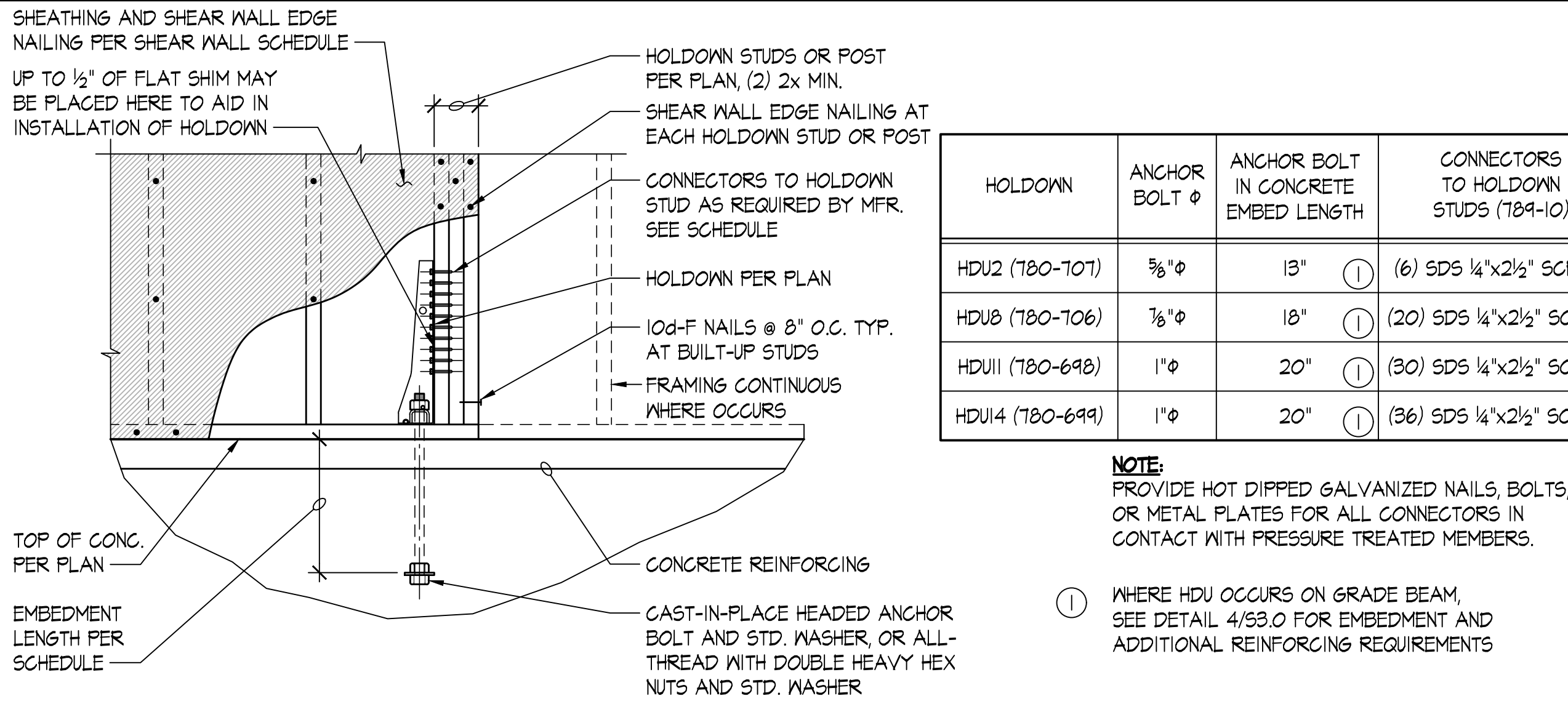
TYPICAL HOLDDOWN TO CONCRETE SCALE: NONE

SHEAR WALL SCHEDULE

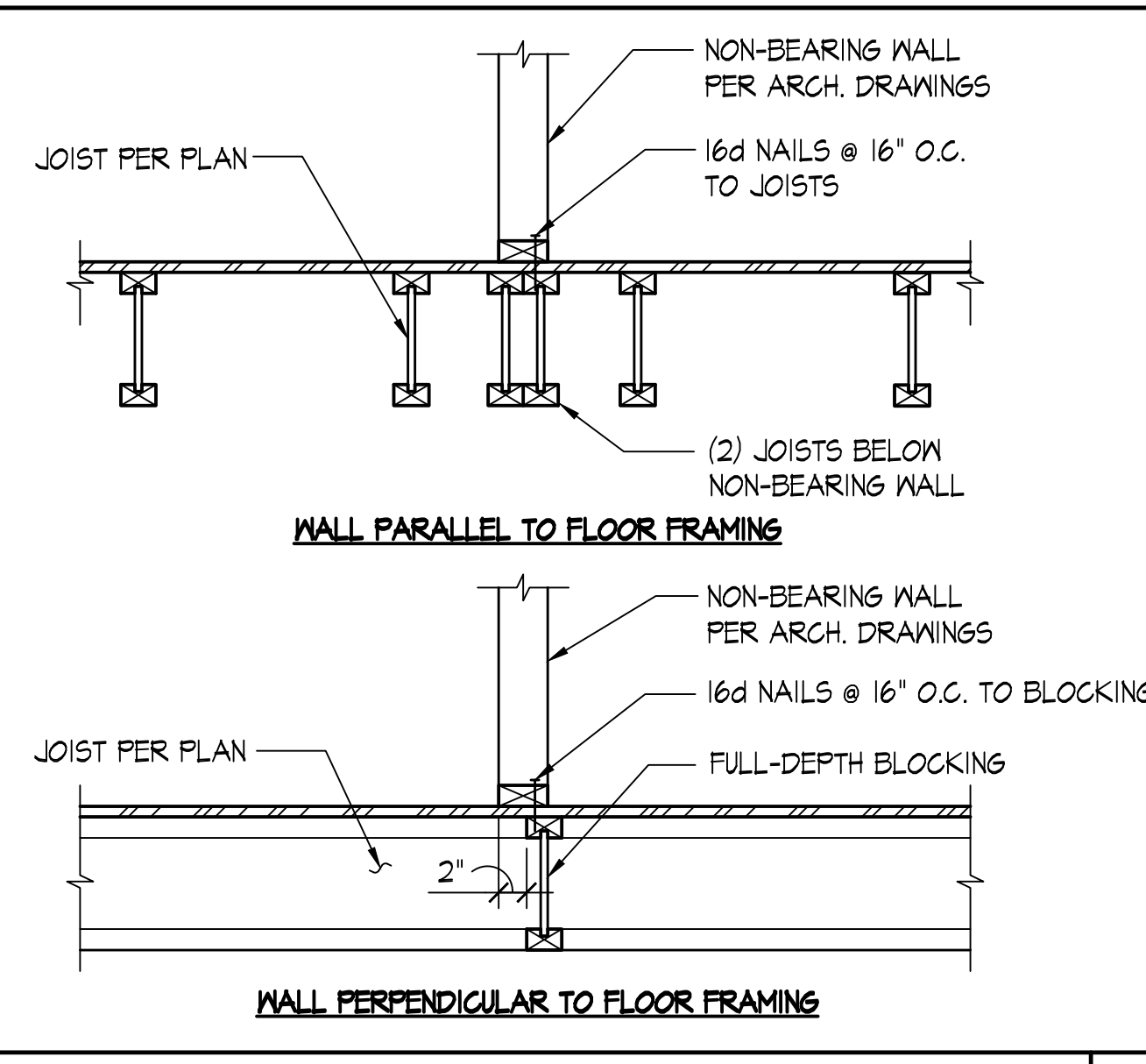
SHEAR WALL TYPE	SHEAR WALL SHEATHING ①	PANEL EDGE FRAMING ②	PANEL EDGE NAILING ③	BOTTOM PLATE ATTACHMENT		TOP PLATE ATTACHMENT		
				2x BOTTOM PLATE CONNECTION TO RIM JOIST OR BLOCKING BELOW	ANCHOR BOLTING OF SILL PLATE TO CONCRETE BELOW ④⑤	RIM JOIST OR BLOCKING CONNECTION TO TOP PLATE ⑥		
					3x PLATE	2x PLATE	INTERIOR WALL	EXTERIOR WALL
SW-6	1/32" APA ONE-SIDE SHTG.	2x	0.131"φx2 1/2" @ 6" O.C.	0.148"φx3 1/4" @ 6" O.C. ⑨	5/8"φ @ 48" O.C.	5/8"φ @ 48" O.C.	A35 (180-35) @ 16" O.C.	LTP4 (180-31) @ 16" O.C.
SW-4	1/32" APA ONE-SIDE SHTG.	3x OR (2) 2x	0.131"φx2 1/2" @ 4" O.C. ⑥	0.148"φx3 1/4" @ 4" O.C. ⑨	5/8"φ @ 48" O.C.	5/8"φ @ 32" O.C.	A35 (180-35) @ 16" O.C.	LTP4 (180-31) @ 16" O.C.
SW-2	1/32" APA ONE-SIDE SHTG.	3x OR (2) 2x	0.131"φx2 1/2" @ 2" O.C. ⑥	(2) ROWS 0.148"φx3 1/4" @ 4" O.C. STAGGERED ⑩	5/8"φ @ 24" O.C.	5/8"φ @ 16" O.C.	A35 (180-35) @ 8" O.C.	LTP4 (180-31) @ 8" O.C.
2SW-2	1/32" APA TWO-SIDES SHTG. ⑪	3x	0.148"φx3 1/4" @ 2" O.C. ⑥	(2) ROWS 0.148"φx3 1/4" @ 2" O.C. ⑩	5/8"φ @ 16" O.C. ⑫	N/A	A35 (180-35) @ 6" O.C.	LTP4 (180-31) @ 6" O.C.

- NOTES:**
- INSTALL PANEL SHEATHING EITHER HORIZONTALLY OR VERTICALLY FOR THE ENTIRE LENGTH OF THE WALL PER PLAN. WALL STUD SPACING SHALL BE 16" O.C. MAXIMUM.
 - ALL INTERMEDIATE WALL STUDS SHALL BE PER PLAN. PROVIDE BACKING FRAMING AT ALL PANEL EDGES INCLUDING HORIZONTAL BLOCKING PER THE SCHEDULE.
 - PROVIDE NAILING TO ALL PANEL EDGES, TOP & BOTTOM PLATES AND HORIZONTAL BLOCKING. PROVIDE THE SAME NAILING PATTERN TO EACH MULTIPLE STUD OF THE BUILT-UP HOLD DOWN POST. NAIL PANEL TO INTERMEDIATE FRAMING MEMBERS w/ 0.131"φ x 2 1/2" @ 12" O.C.
 - EMBED CAST-IN-PLACE 5/8"φ ANCHOR BOLTS 1" MIN. (OR EMBED ADHESIVE ANCHOR BOLTS 5 1/2" IN (E) CONCRETE; SEE STRUCTURAL NOTES). PROVIDE PLATE WASHER 3" x 3" x 1/4" AT EACH ANCHOR BOLT. SILL PLATES SHALL BE TREATED PER GENERAL NOTES, AND SHALL BE 2x OR 3x PER THE SCHEDULE. SEE DETAIL 1/54.0 FOR OTHER REQUIREMENTS.
 - PROVIDE HOT DIPPED GALVANIZED NAILS, BOLTS, OR METAL PLATES FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED MEMBERS.
 - PROVIDE 0.131"φ x 1-1/2" LONG NAILS FOR CLIPS DIRECTLY ATTACHED TO FRAMING MEMBERS; PROVIDE 0.131"φ x 2-1/2" LONG NAILS FOR CLIPS INSTALLED OVER FLOOR OR WALL SHEATHING ON FRAMING MEMBERS. SEE 6/54.1 FOR TOP PLATE SPLICE.
 - ALTERNATIVE TO 3x STUDS AND 3x HORIZ. BLOCKING IS (2) 2x STUDS/BLKG. NAILED TOGETHER WITH 0.148"φ x 3" LONG NAILS WITH THE SAME SPACING AS THE PANEL EDGE NAILING PER THE SCHEDULE (STAGGER).
 - STAGGER NAILS PER 2/54.0.
 - RIM JOIST/BLOCKING MINIMUM WIDTH OF 1 1/2". STAGGER NAILS PER 2/54.0 WHERE SPACING IS LESS THAN 6" O.C.
 - RIM JOIST/BLOCKING MINIMUM WIDTH OF 3". STAGGER NAILS PER 2/54.0.
 - STAGGER PANEL EDGE JOINTS AT DOUBLE-SIDED SHEAR WALLS SO THAT JOINTS ON OPPOSITE SIDES ARE NOT AT THE SAME STUD.
 - STAGGER ANCHOR BOLTS ON EITHER SIDE OF SILL PLATE AS NOTED ON 1/54.0.

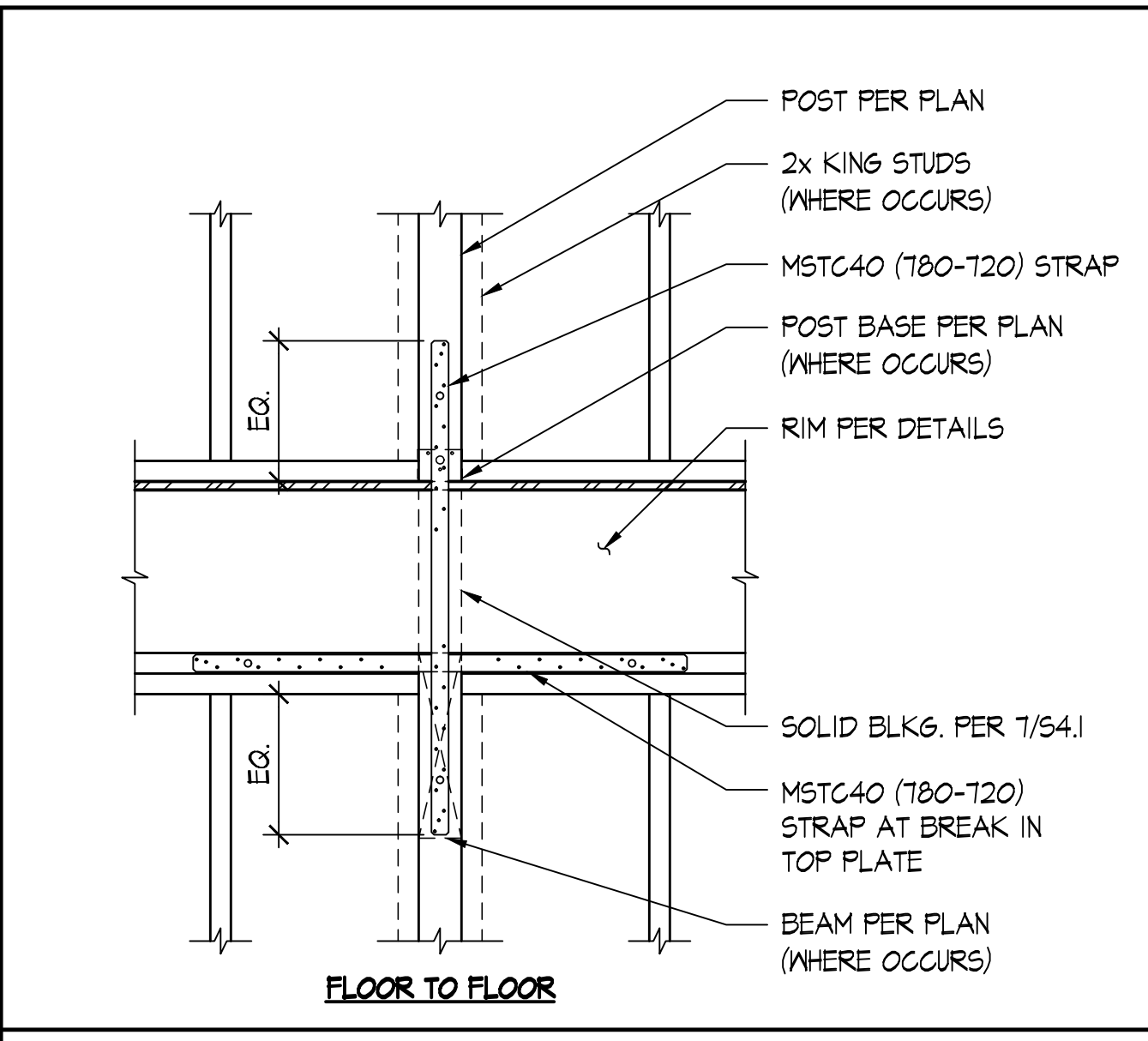
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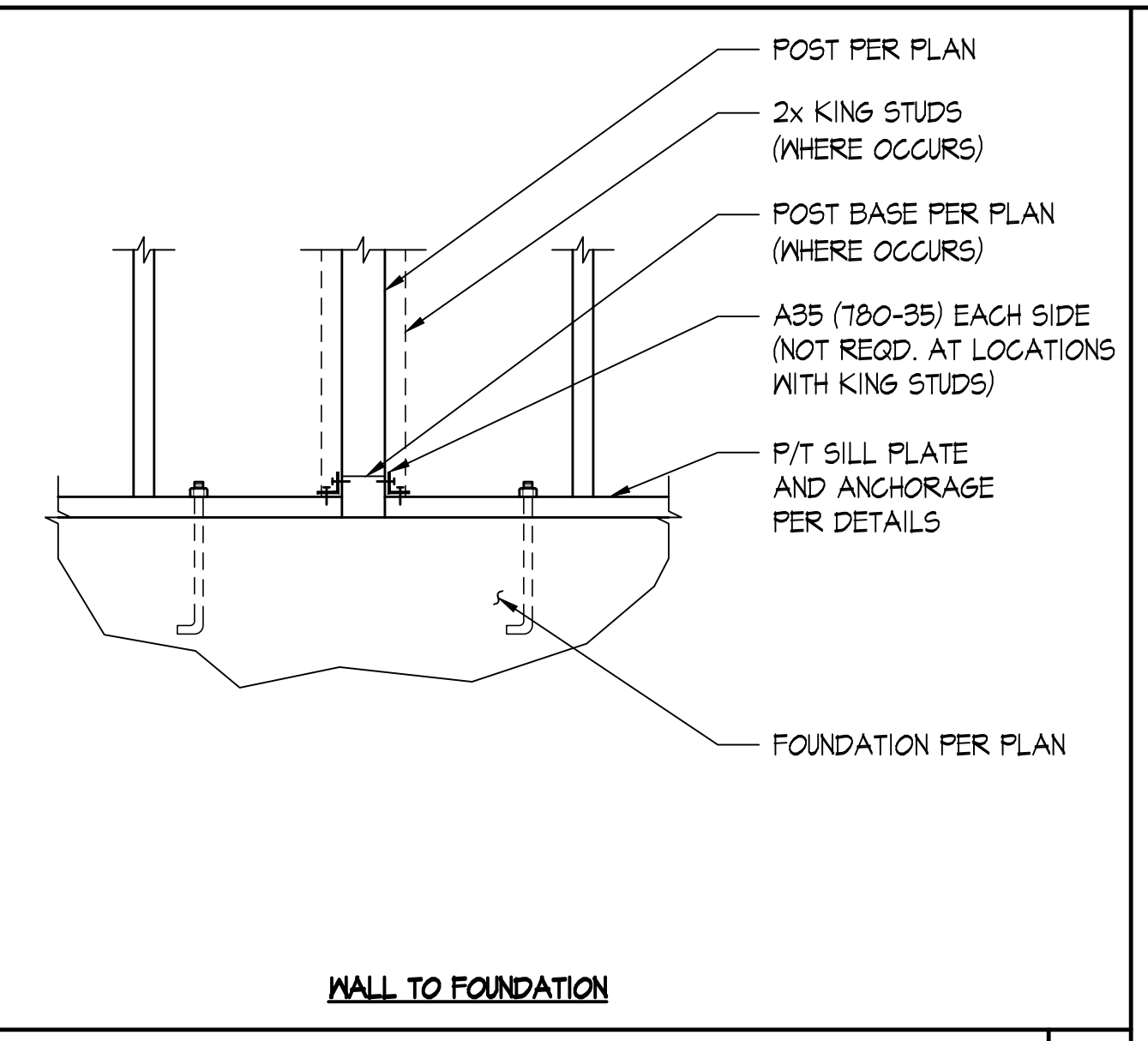
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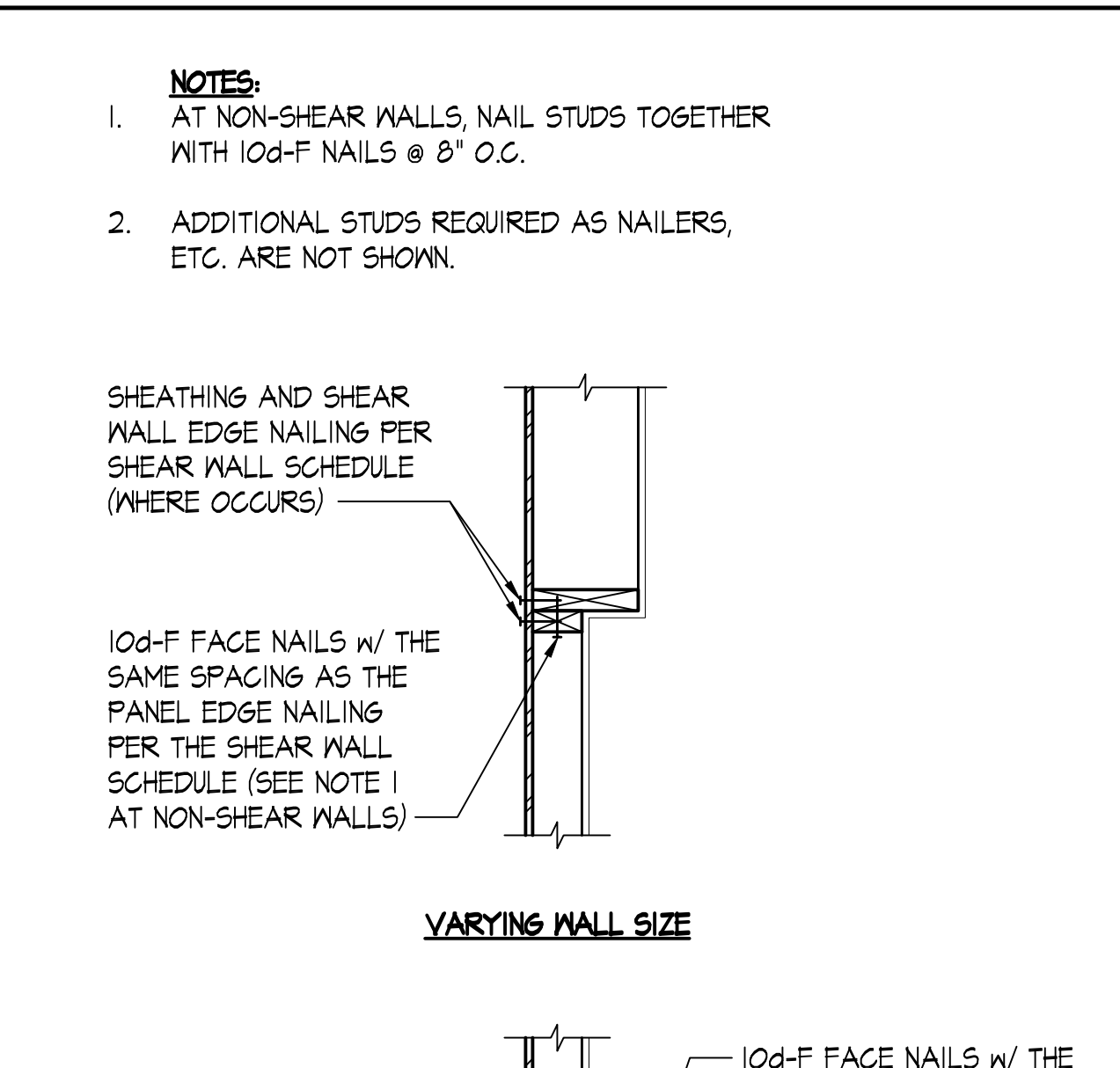
TYPICAL NON-STRUCTURAL WALL SUPPORT (BOTTOM) - 1-JOIST SCALE: NONE



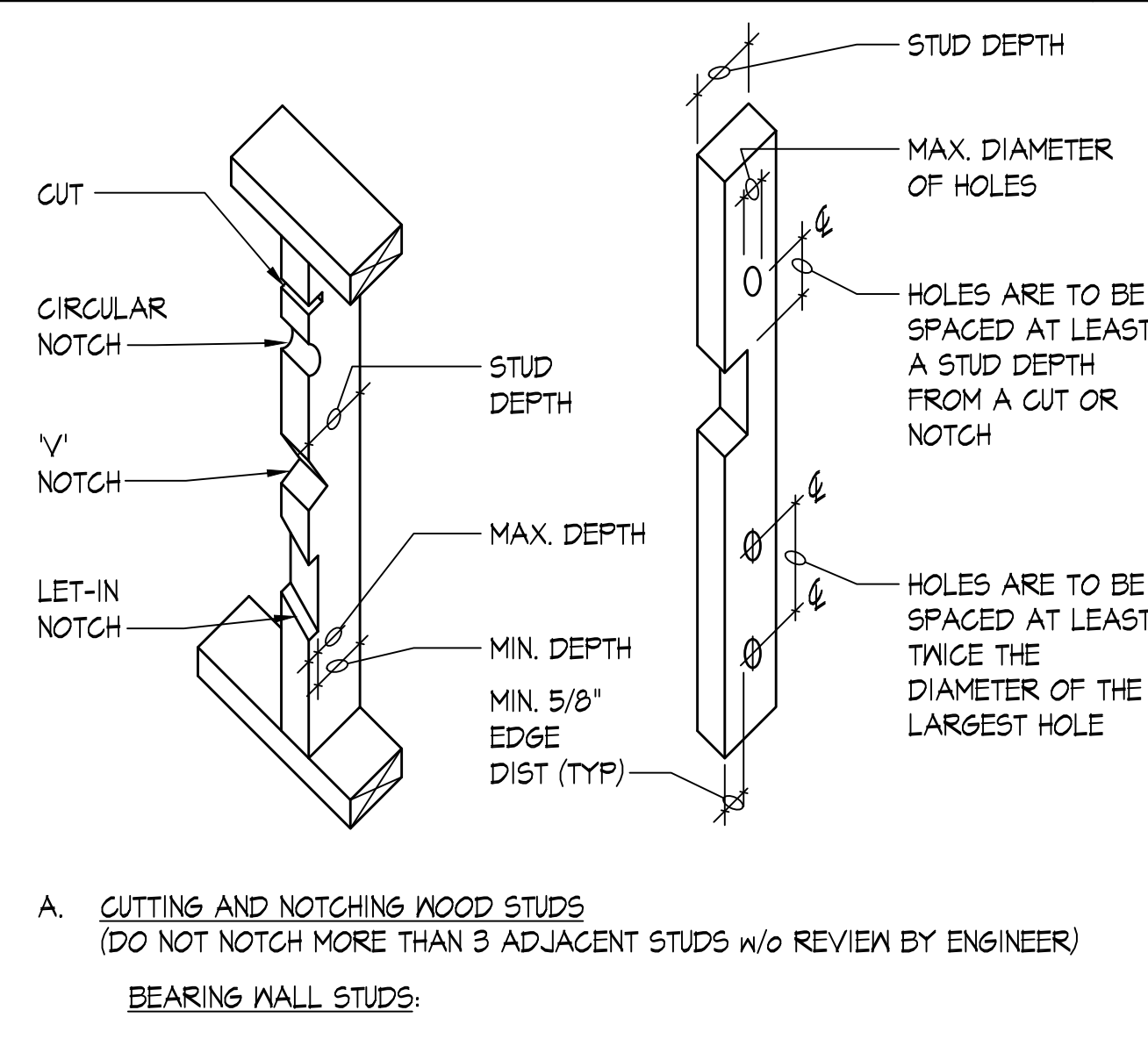
TYPICAL POST BASE CONNECTION SCALE: NONE



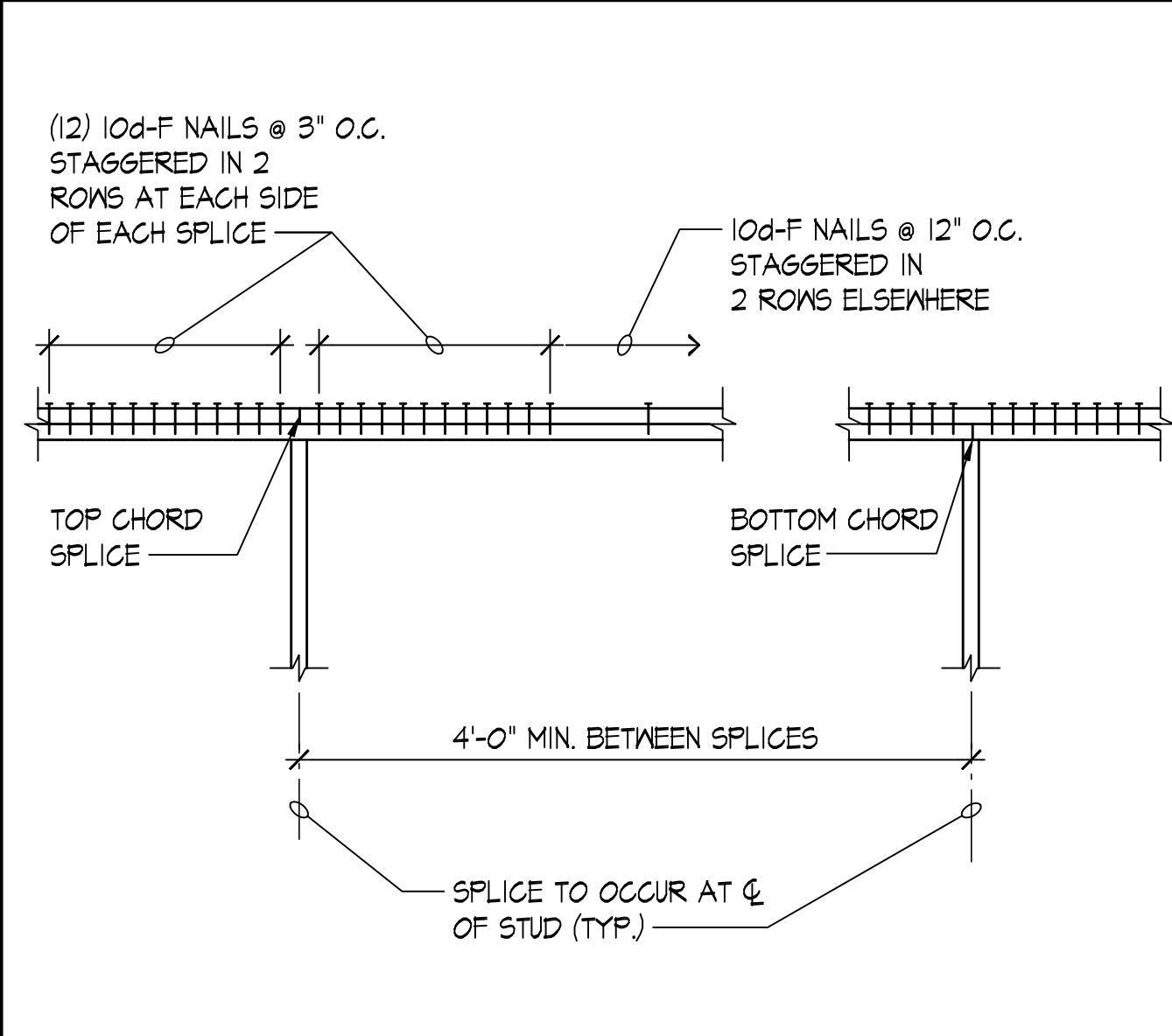
TYPICAL WALL TO FOUNDATION SCALE: NONE



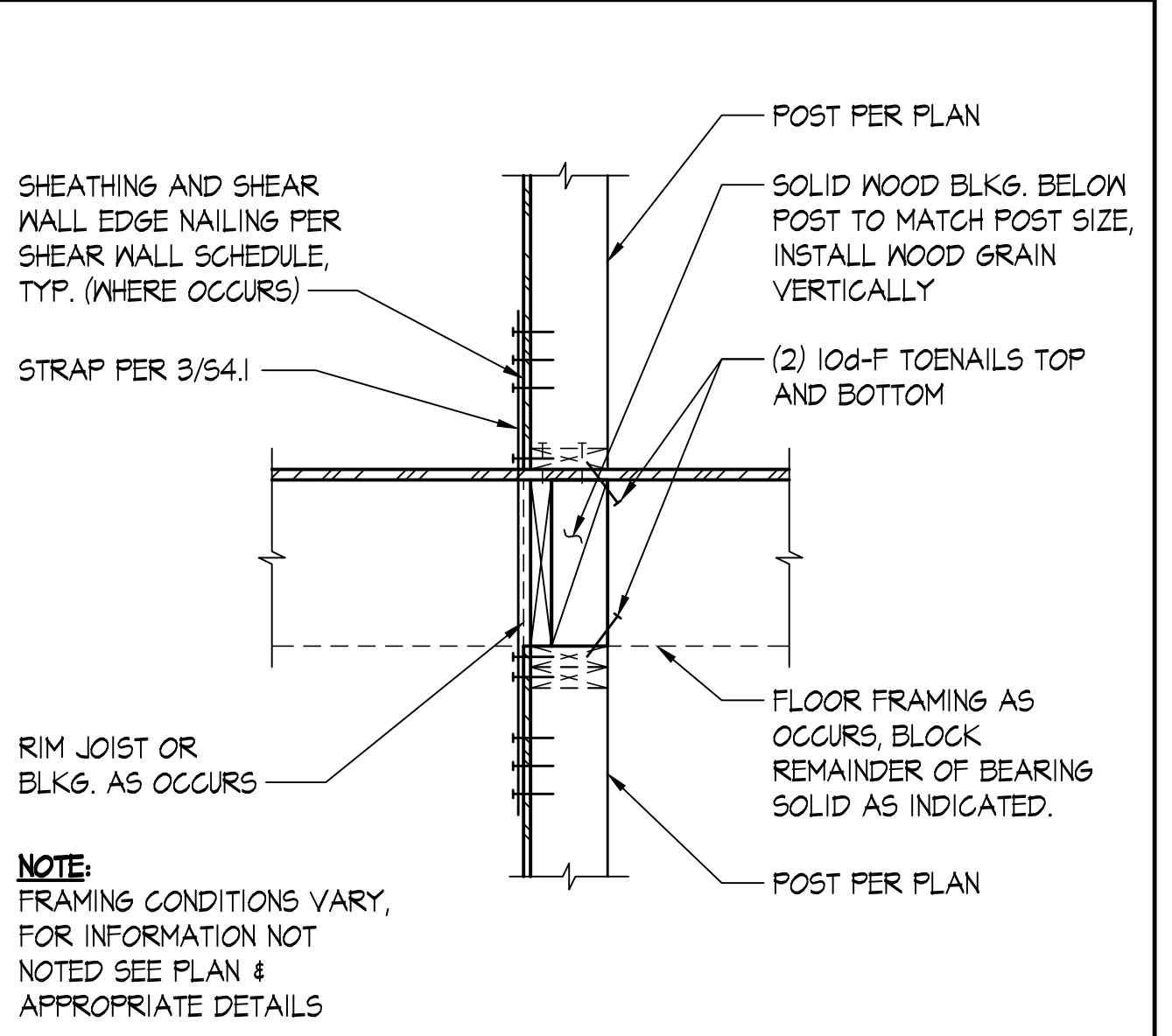
TYPICAL WALL INTERSECTIONS SCALE: NONE



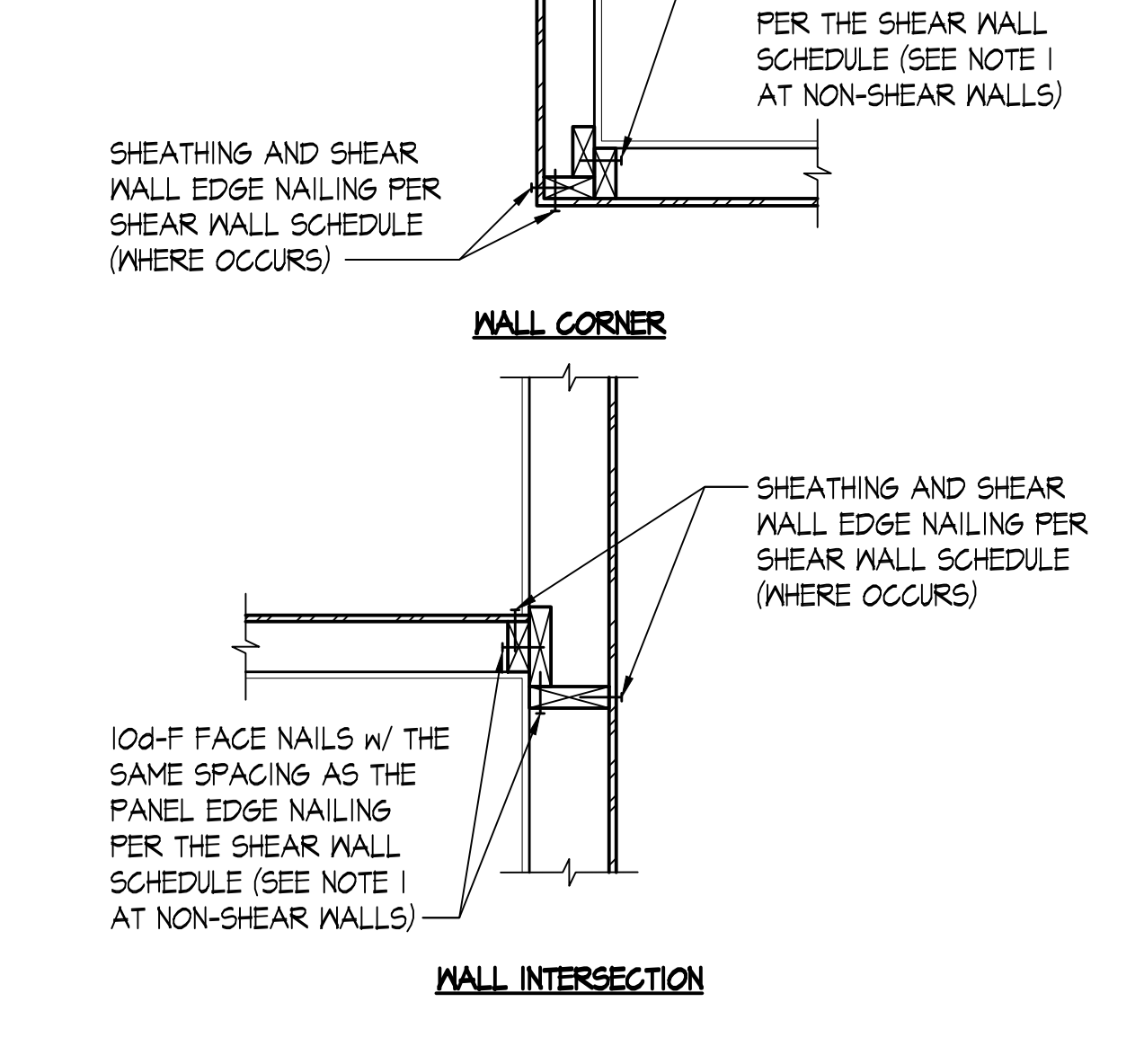
TYPICAL ALLOWABLE HOLES AND NOTCHES IN STUDS SCALE: NONE



TYPICAL TOP PLATE SPLICE SCALE: NONE



TYPICAL POST AT FLOOR SCALE: NONE



TYPICAL WALL INTERSECTIONS SCALE: NONE

A. CUTTING AND NOTCHING WOOD STUDS
(DO NOT NOTCH MORE THAN 3 ADJACENT STUDS w/o REVIEW BY ENGINEER)

BEARING WALL STUDS:

STUD SIZE	MAX. DEPTH OF SAW CUT OR NOTCH	MIN. DEPTH REMAINING AFTER CUT OR NOTCH
2x4	7/8"	2-3/8"
2x6	1-3/8"	4-1/8"
2x8	1-7/8"	5-3/8"

NON-BEARING WALL STUDS:

STUD SIZE	MAX. DEPTH OF SAW CUT OR NOTCH	MIN. DEPTH REMAINING AFTER CUT OR NOTCH
2x4	1-1/2"	2"
2x6	2-3/8"	3-1/8"
2x8	3"	4-1/4"

B. HOLES IN WOOD STUDS

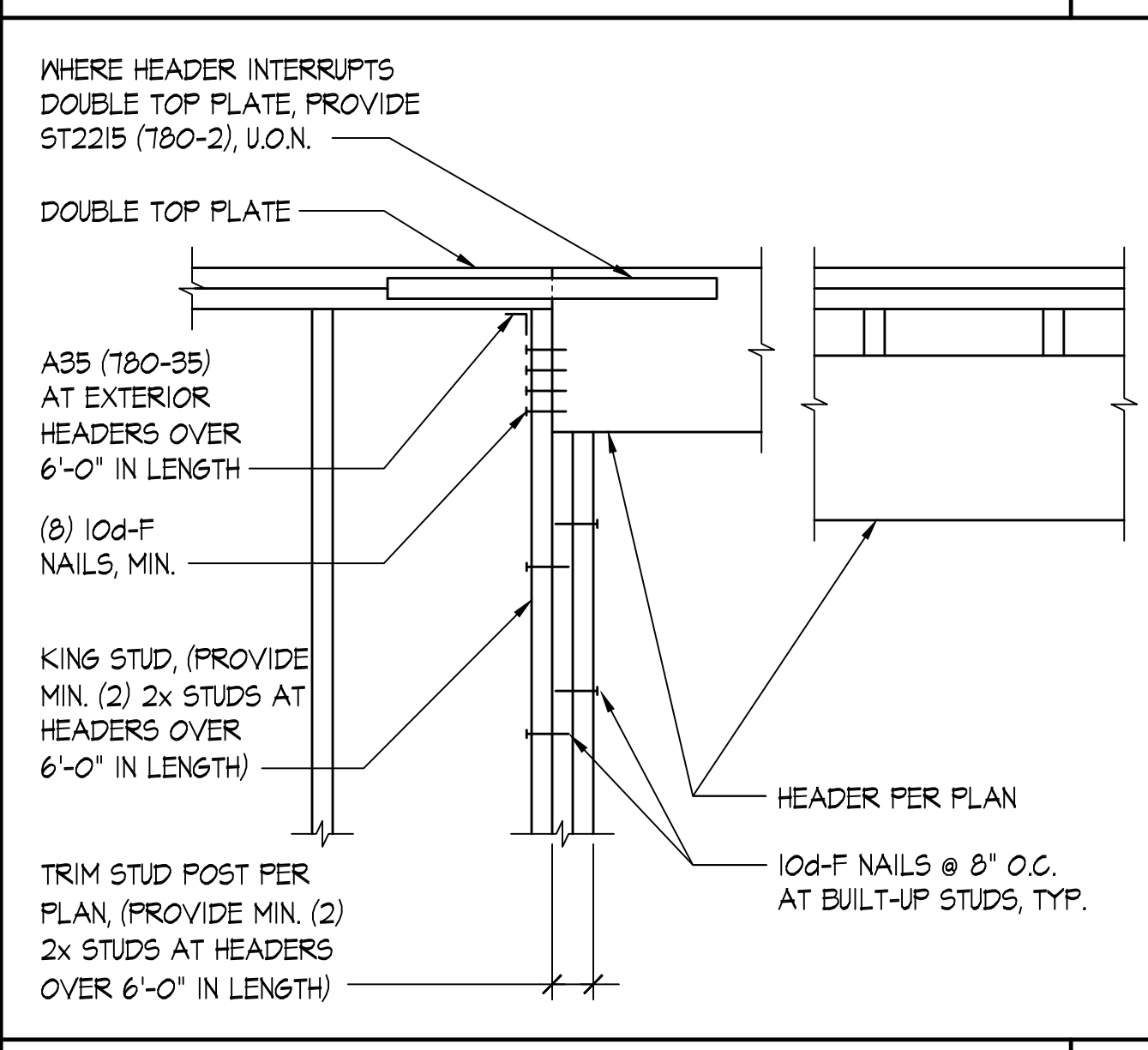
BEARING WALL:

STUD SIZE	MAX. DIAMETER OF HOLE
2x4	1-1/2"
2x6	2-3/8"
2x8	3"

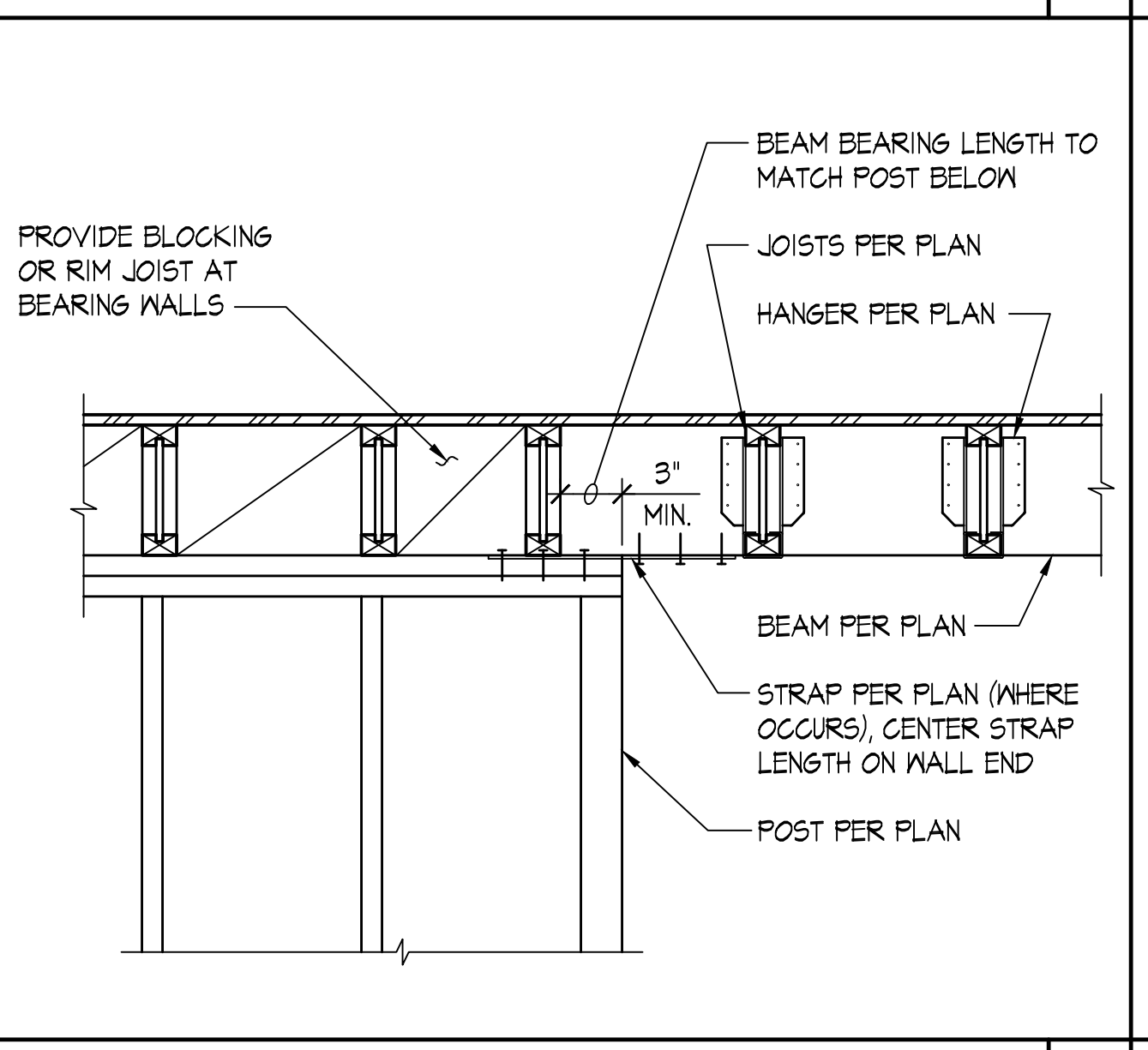
NON-BEARING WALL:

STUD SIZE	MAX. DIAMETER OF HOLE
2x4	2-1/4"
2x6	3-3/8"
2x8	4-1/2"

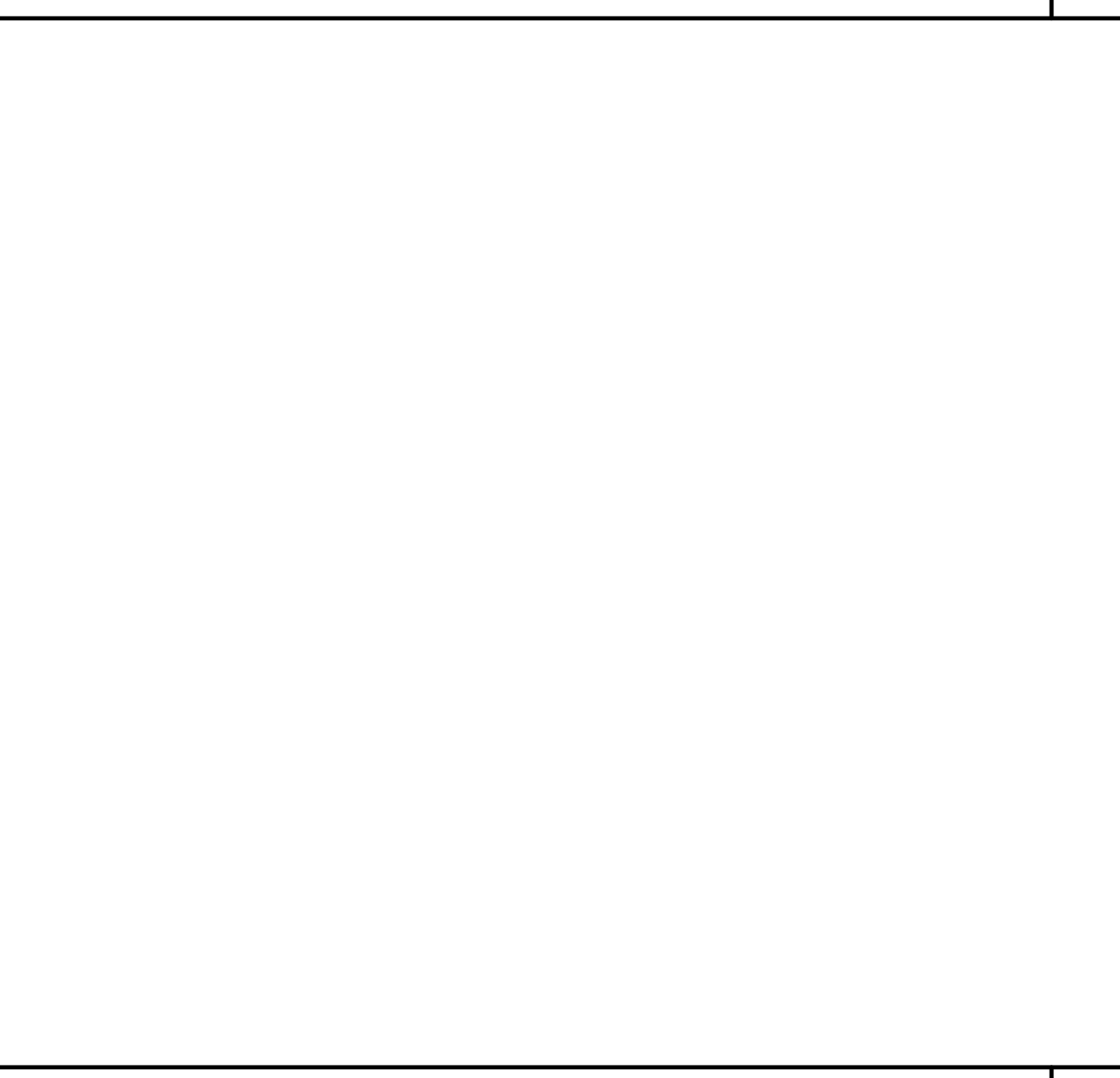
TYPICAL ALLOWABLE HOLES AND NOTCHES IN STUDS SCALE: NONE



TYPICAL HEADER SCALE: NONE



TYPICAL FLUSH BEAM SCALE: NONE



DETAIL SCALE: NONE



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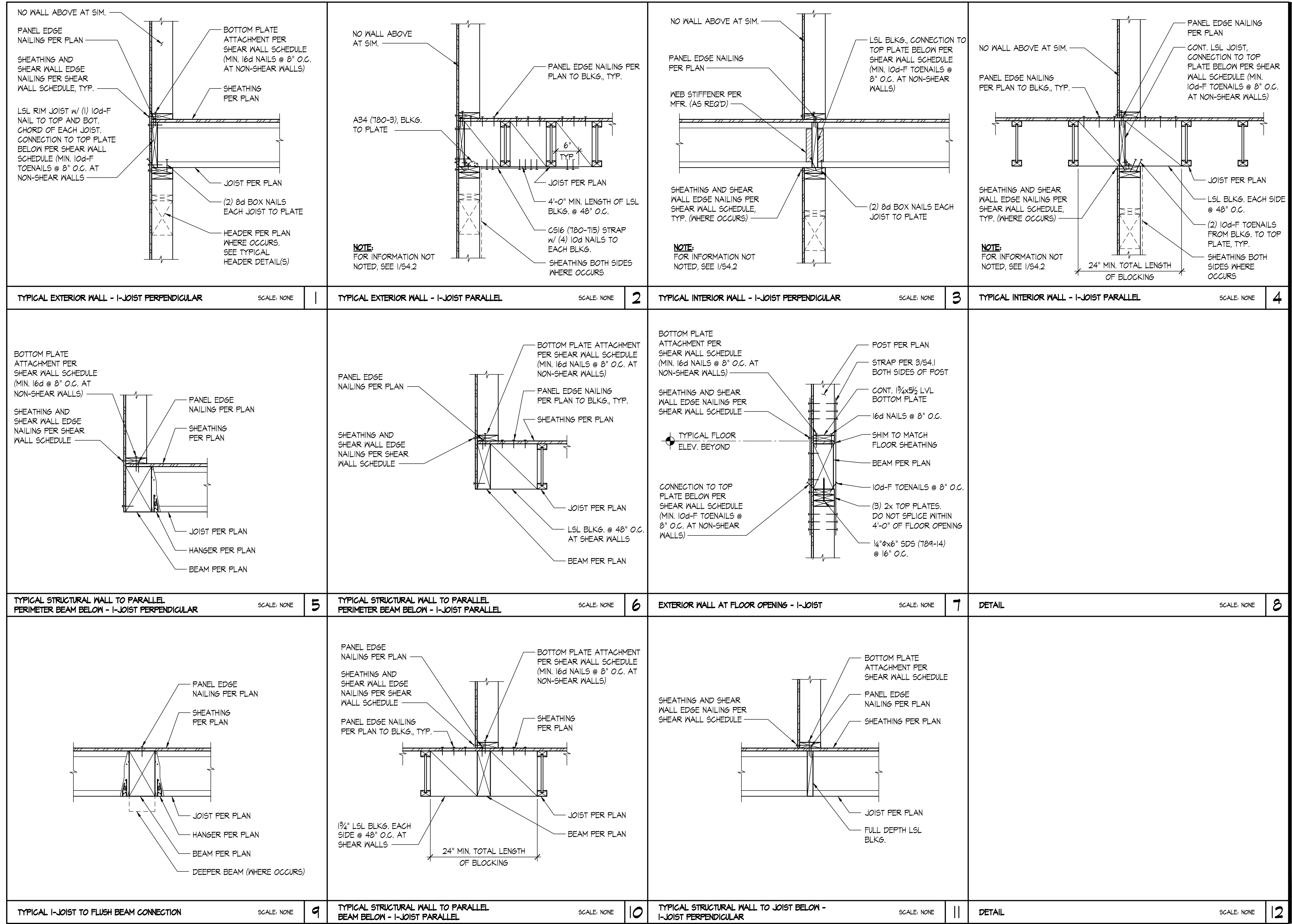
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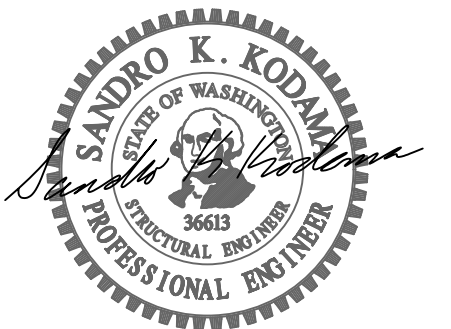
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Scale: AS NOTED

S4.2





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DETAILS**

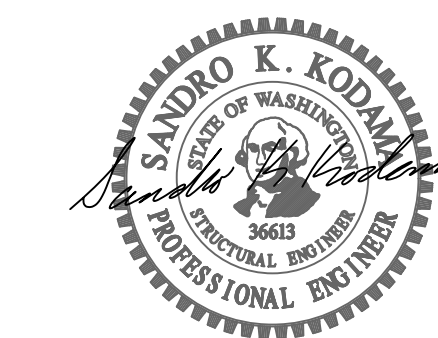
Scale: AS NOTED

S4.3

<p>NOTE: FOR INFORMATION NOT NOTED, SEE 5/54.2</p> <p>TYPICAL EXTERIOR WALL AT DECK - JOISTS PERPENDICULAR SCALE: 1"=1'-0"</p>	<p>NOTE: FOR INFORMATION NOT NOTED, SEE 6/54.2</p> <p>TYPICAL EXTERIOR WALL AT DECK - JOISTS PARALLEL SCALE: 1"=1'-0"</p>	<p>NOTE: FOR INFORMATION NOT NOTED, SEE 5/54.2</p> <p>NOTE: FOR INFORMATION NOT NOTED, SEE 5/54.2</p>	<p>NOTE: FOR INFORMATION NOT NOTED, SEE 6/54.2</p> <p>NOTE: FOR INFORMATION NOT NOTED, SEE 6/54.2</p>
<p>RAILING AND CONNECTION PER 10/54.5</p> <p>PANEL EDGE NAILING PER PLAN</p> <p>2x RIM JOIST w/ (2) 10d-F NAILS TO EACH JOIST. CONNECTION TO TOP PLATE BELOW PER SHEAR WALL SCHEDULE (MIN. 10d-F TOENAILS @ 8\"/> <p>SHEAR WALL EDGE NAILING PER SHEAR WALL SCHEDULE, TYP.</p> <p>JOIST PER PLAN (RIP TO SLOPE PER ARCH.)</p> <p>A34 (180-3) AT EACH JOIST TO PLATE</p> <p>DECKING AND WATERPROOFING MEMBRANE PER LINDAL</p> <p>CS16 (180-115) x 2'-0\"/> <p>SHEATHING PER PLAN</p> <p>NOTE: FOR INFORMATION NOT NOTED, SEE 5/54.3</p> </p></p>	<p>PANEL EDGE NAILING PER PLAN TO BEAM</p> <p>CS16 (180-115) x 2'-0\"/> <p>PANEL EDGE NAILING PER PLAN TO BLKG.</p> <p>(3) BAYS OF 2x BLKG. @ 48\"/> <p>CS16 (180-115) STRAP w/ (4) 10d NAILS TO EACH BLKG.</p> <p>RIP JOISTS TO SLOPE PER ARCH.</p> <p>NOTE: FOR INFORMATION NOT NOTED, SEE 4/54.2 & 4/54.3</p> </p></p>	<p>NOTE: FOR INFORMATION NOT NOTED, SEE 4/54.2 & 4/54.3</p> <p>NOTE: FOR INFORMATION NOT NOTED, SEE 4/54.2 & 4/54.3</p>	<p>NOTE: FOR INFORMATION NOT NOTED, SEE 4/54.2 & 4/54.3</p> <p>NOTE: FOR INFORMATION NOT NOTED, SEE 4/54.2 & 4/54.3</p>
<p>HANGER PER PLAN</p> <p>SHEATHING PER PLAN</p> <p>2x FRAMING PER PLAN</p> <p>BEAM PER PLAN</p> <p>(2) SDWC15450 SCREWS AT EACH BEAM</p> <p>CBT22 AT EACH POST</p> <p>DROPPED BEAM PER PLAN</p> <p>POST PER PLAN</p> <p>METAL ROOFING PER LINDAL</p> <p>2x RIPPER OVER JOISTS w/ 10d NAILS @ 6\"/> <p>PANEL EDGE NAILING PER PLAN, TYP.</p> <p>HANGER PER PLAN</p> <p>2x LEDGER w/ 1/4"x4 1/2\"/> <p>SDS (189-12) @ 16\"/> <p>STAGGERED</p> <p>CJT4Z HANGER</p> <p>POST PER PLAN</p> <p>NOTE: FOR INFORMATION NOT NOTED, SEE 1/54.2</p> </p></p></p>	<p>HANGER PER PLAN</p> <p>SHEATHING PER PLAN</p> <p>2x FRAMING PER PLAN</p> <p>BEAM PER PLAN</p> <p>(2) SDWC15450 SCREWS AT EACH BEAM</p> <p>CBT22 AT EACH POST</p> <p>DROPPED BEAM PER PLAN</p> <p>POST PER PLAN</p> <p>METAL ROOFING PER LINDAL</p> <p>2x RIPPER OVER JOISTS w/ 10d NAILS @ 6\"/> <p>PANEL EDGE NAILING PER PLAN, TYP.</p> <p>HANGER PER PLAN</p> <p>2x LEDGER w/ 1/4"x4 1/2\"/> <p>SDS (189-12) @ 16\"/> <p>STAGGERED</p> <p>CJT4Z HANGER</p> <p>POST PER PLAN</p> <p>NOTE: FOR INFORMATION NOT NOTED, SEE 1/54.2</p> </p></p></p>	<p>HL53 (180-81-INT) HEAVY ANGLE</p> <p>BEAM PER PLAN</p> <p>(4) 1/2"x3\"/> <p>LAG SCREWS (189-43)</p> <p>(2) 1/2\"/> <p>THRU BOLTS</p> <p>POST PER PLAN</p> <p>NOTE: FOR INFORMATION NOT NOTED, SEE 1/54.2</p> </p></p>	<p>HL53 (180-81-INT) HEAVY ANGLE</p> <p>BEAM PER PLAN</p> <p>(4) 1/2"x3\"/> <p>LAG SCREWS (189-43)</p> <p>(2) 1/2\"/> <p>THRU BOLTS</p> <p>POST PER PLAN</p> <p>NOTE: FOR INFORMATION NOT NOTED, SEE 1/54.2</p> </p></p>
<p>TRELLIS ENTRY ROOF ATTACHMENT SCALE: NONE</p>	<p>TRELLIS ENTRY ROOF ATTACHMENT SCALE: NONE</p>	<p>TYPICAL EXPOSED POST TO BEAM CONNECTION SCALE: NONE</p>	<p>TYPICAL EXPOSED POST TO BEAM CONNECTION SCALE: NONE</p>



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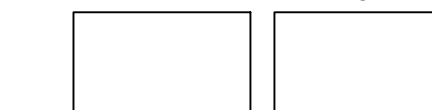


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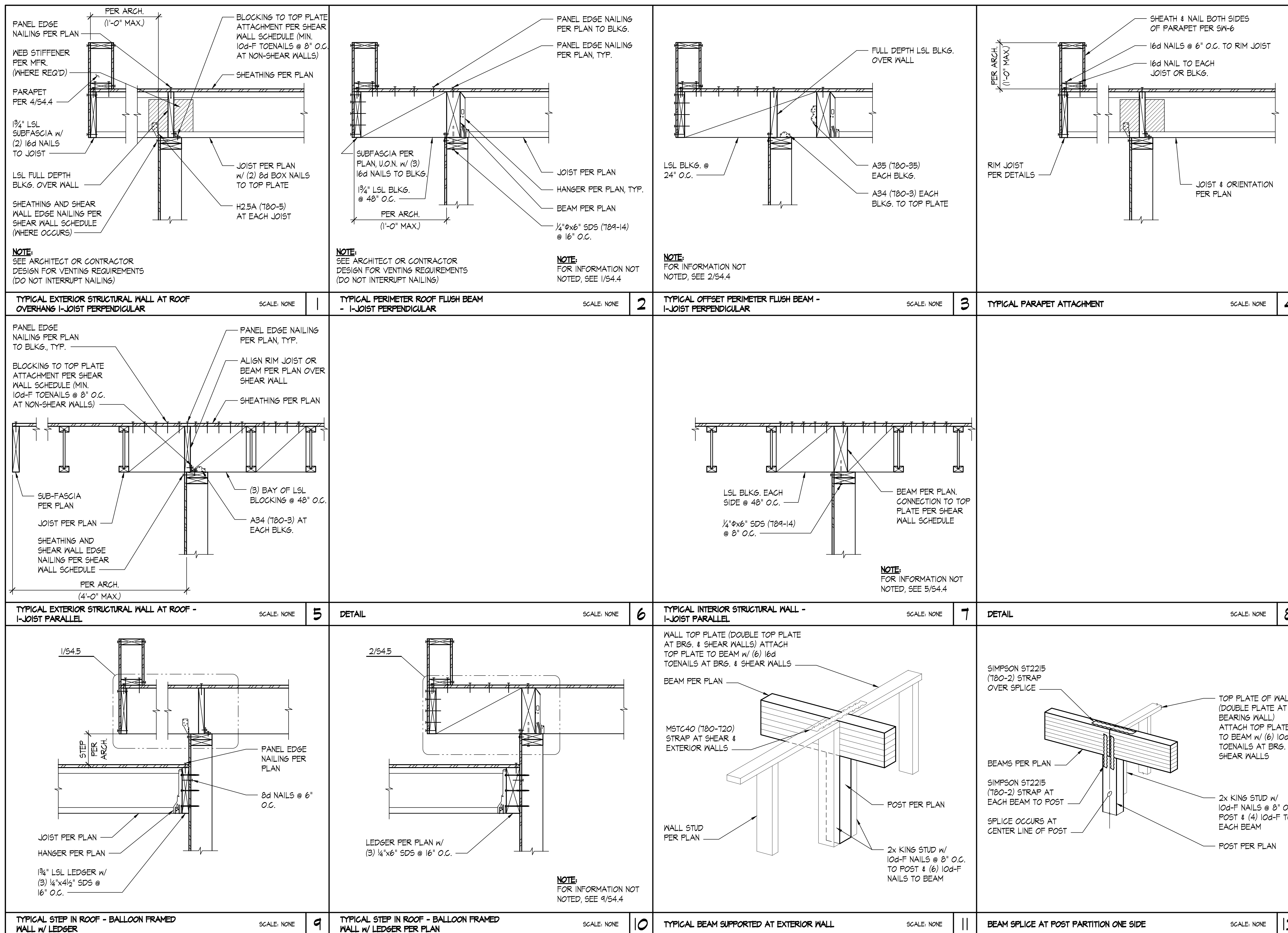
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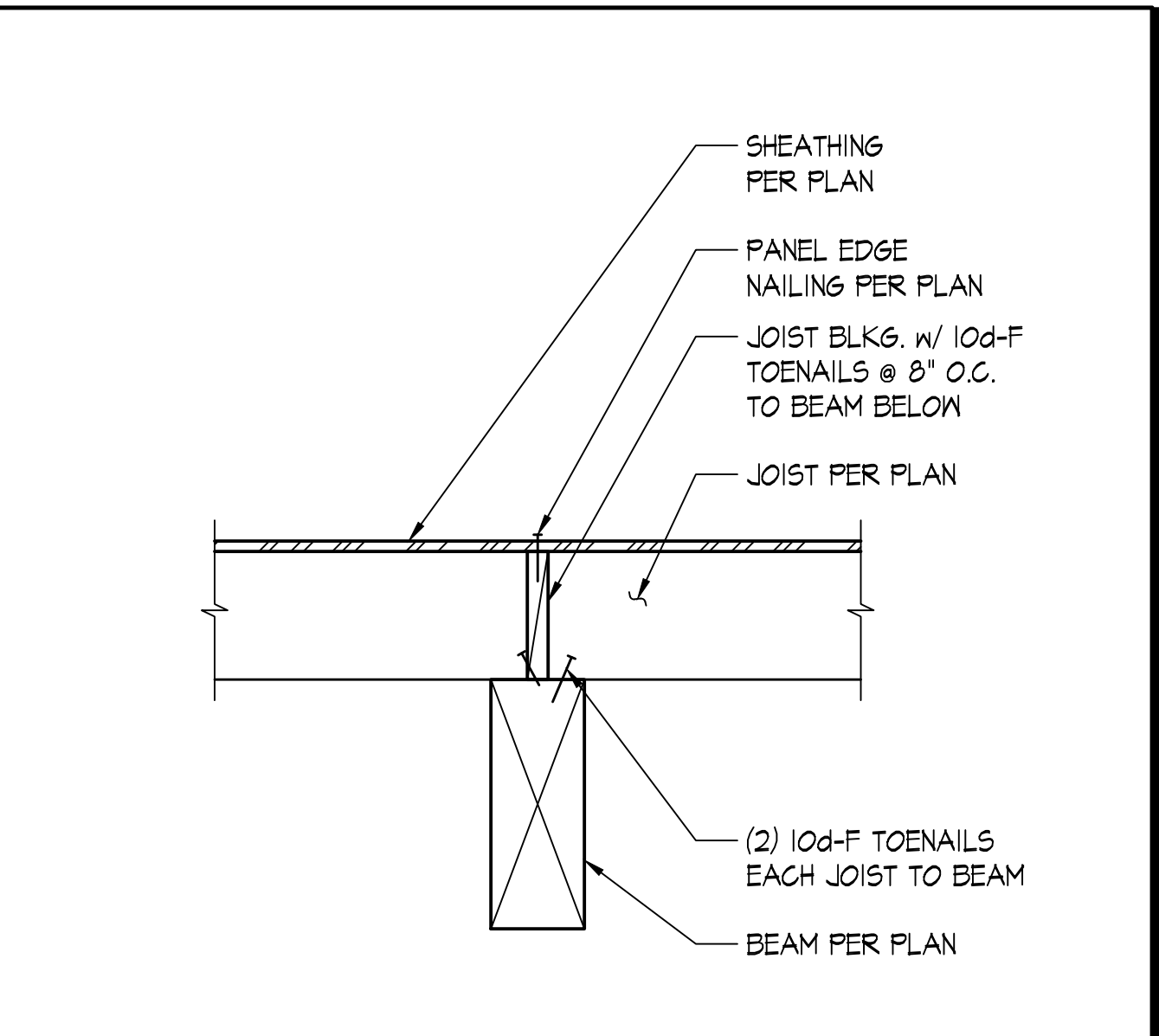
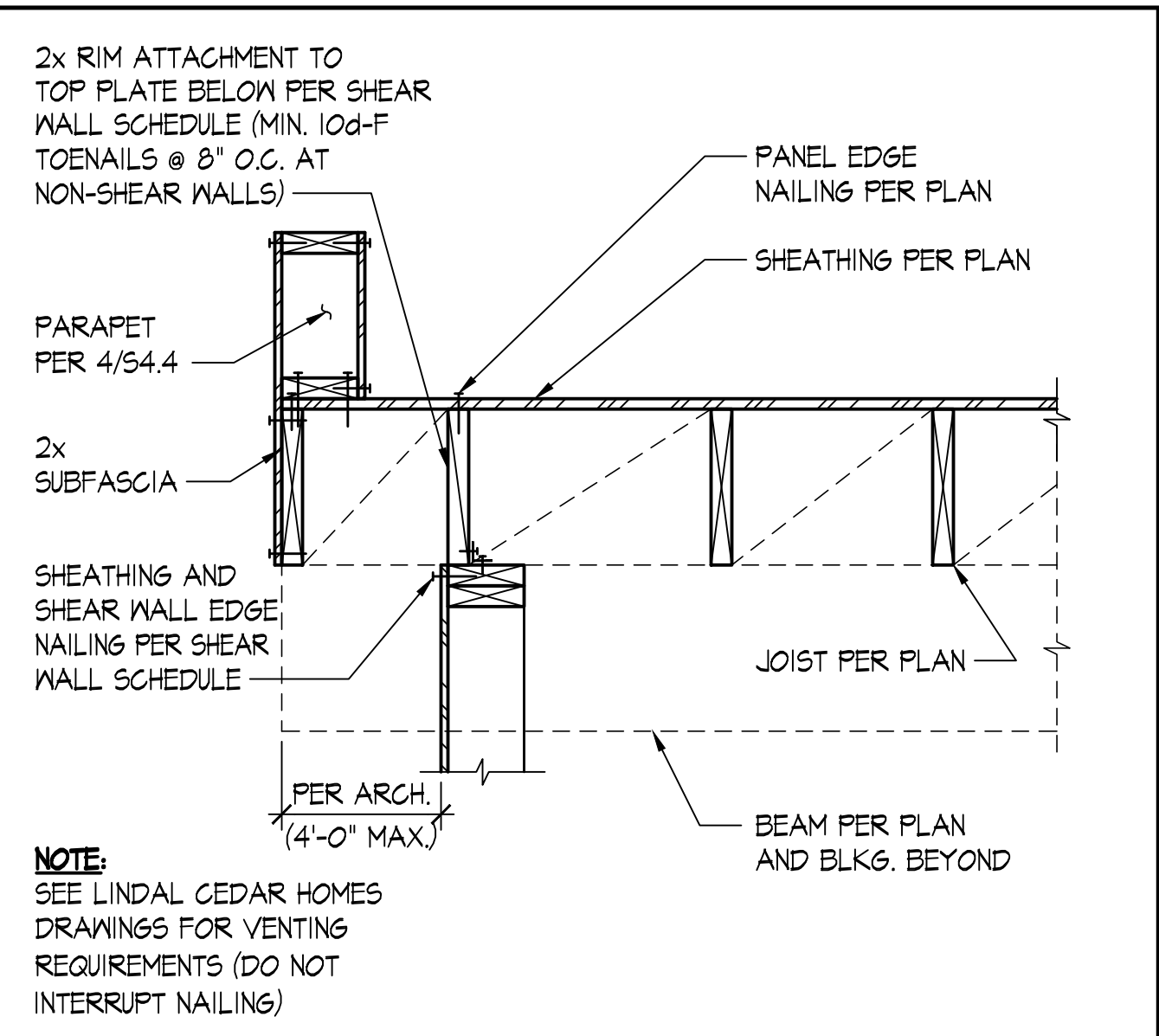
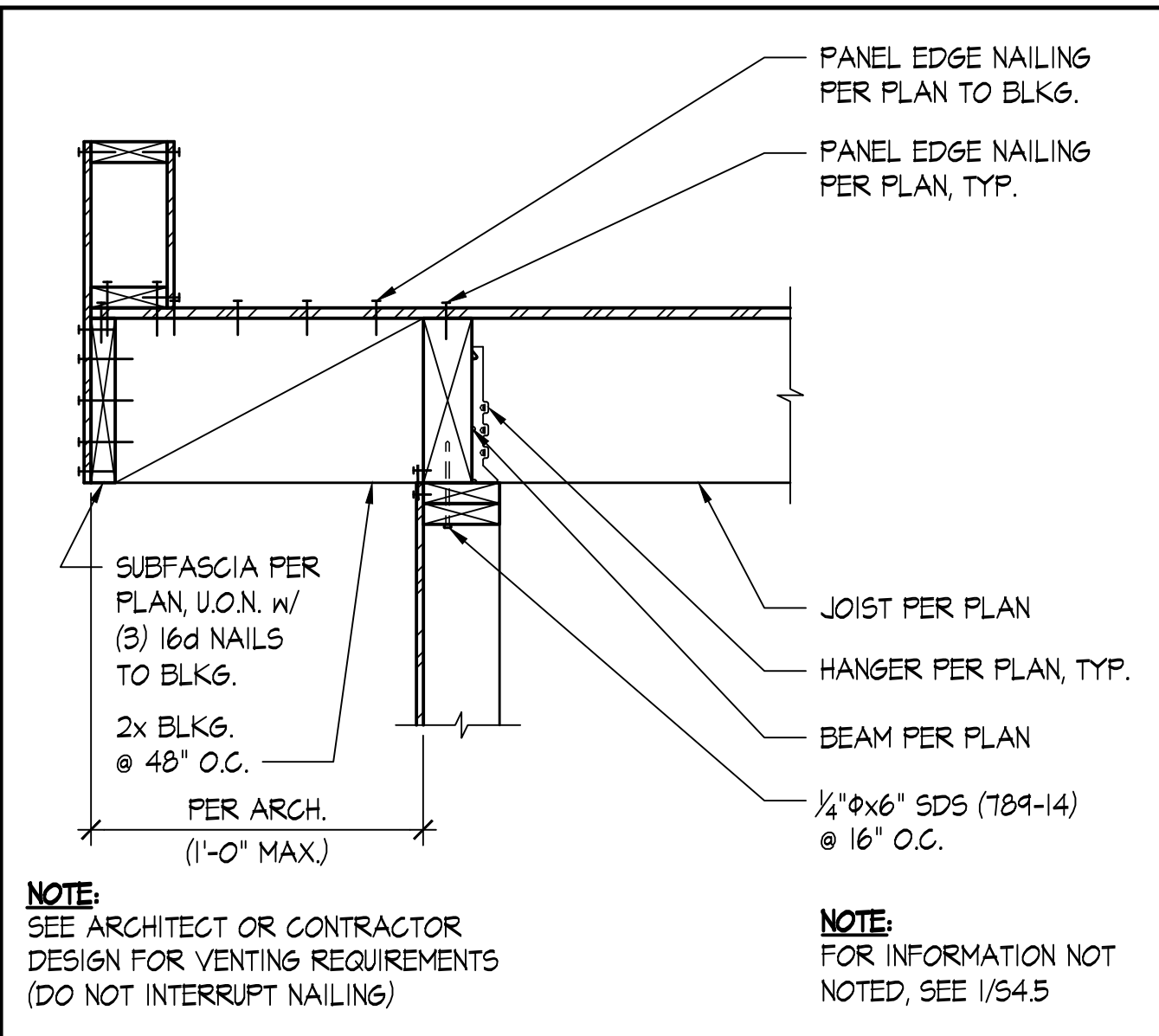
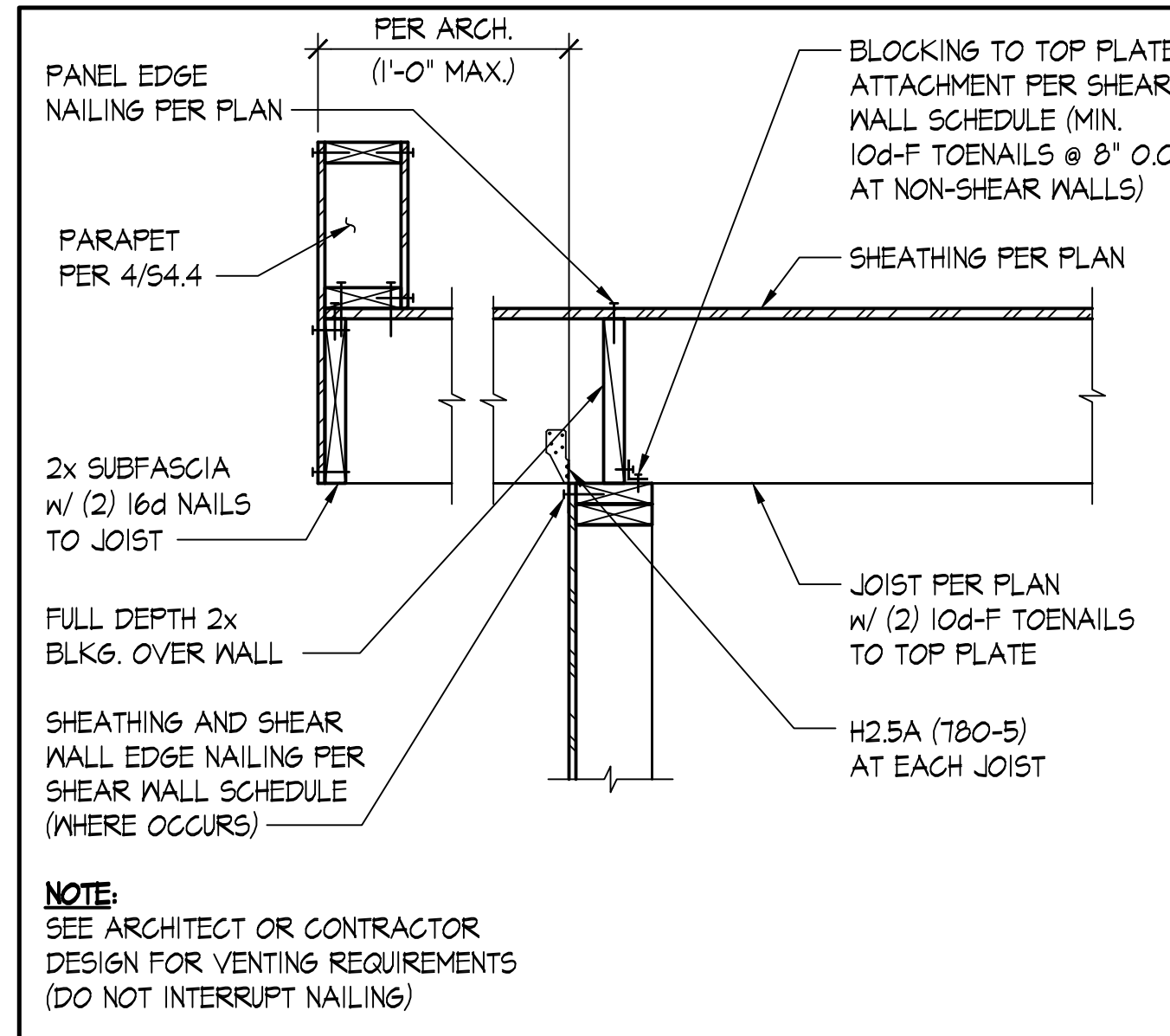
ROOF DETAILS

Scale: AS NOTED

S4.4



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TYPICAL EXTERIOR STRUCTURAL WALL AT ROOF OVERHANG 2x FRAMING PERPENDICULAR SCALE: NONE |

TYPICAL PERIMETER ROOF FLUSH BEAM - 2x FRAMING PERPENDICULAR SCALE: NONE | 2

TYPICAL EXTERIOR WALL TO 2x OUTLOOKER - JOIST PARALLEL SCALE: NONE | 3

TYPICAL 2x JOIST TO DROP BEAM CONNECTION SCALE: NONE | 4

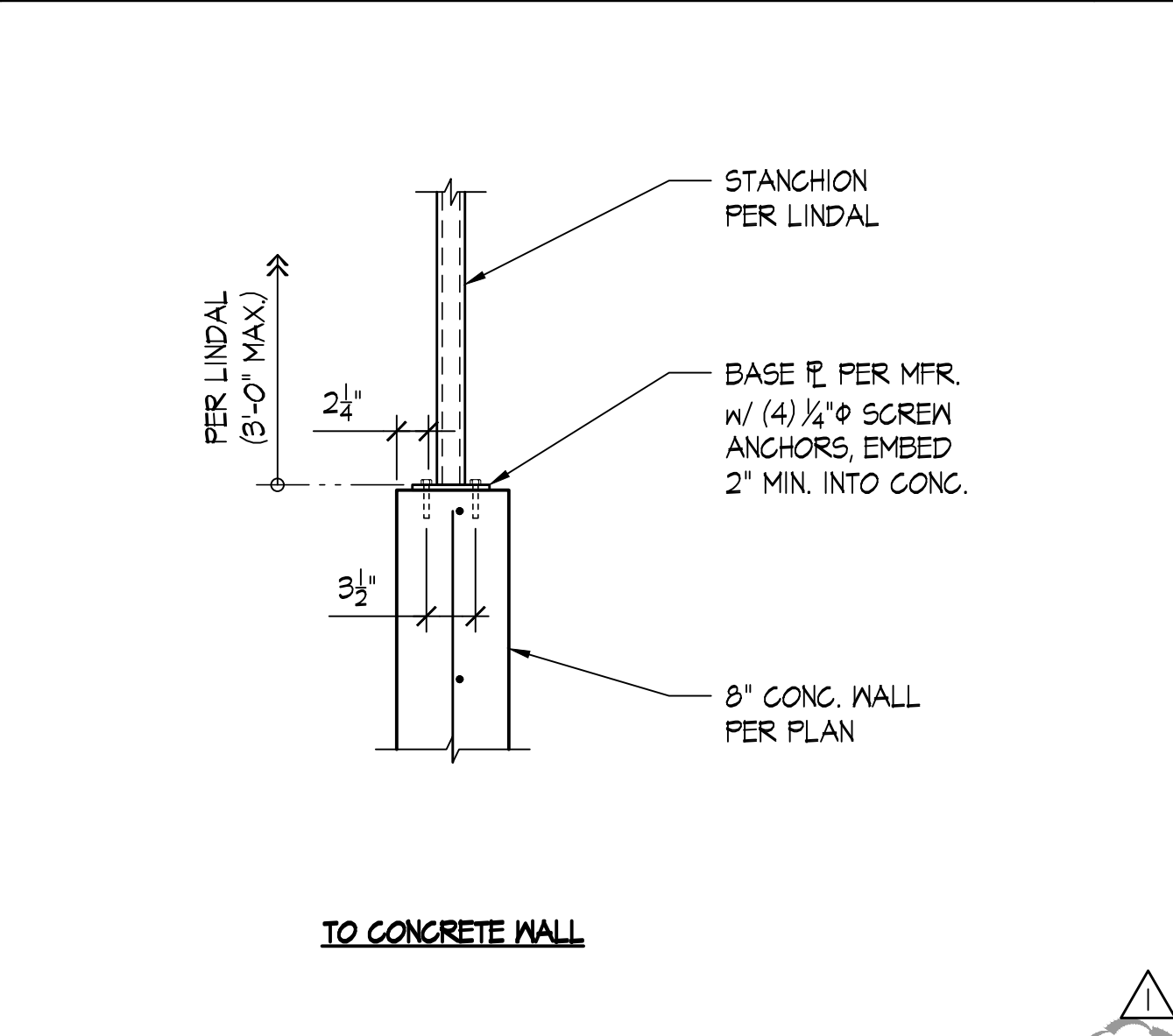
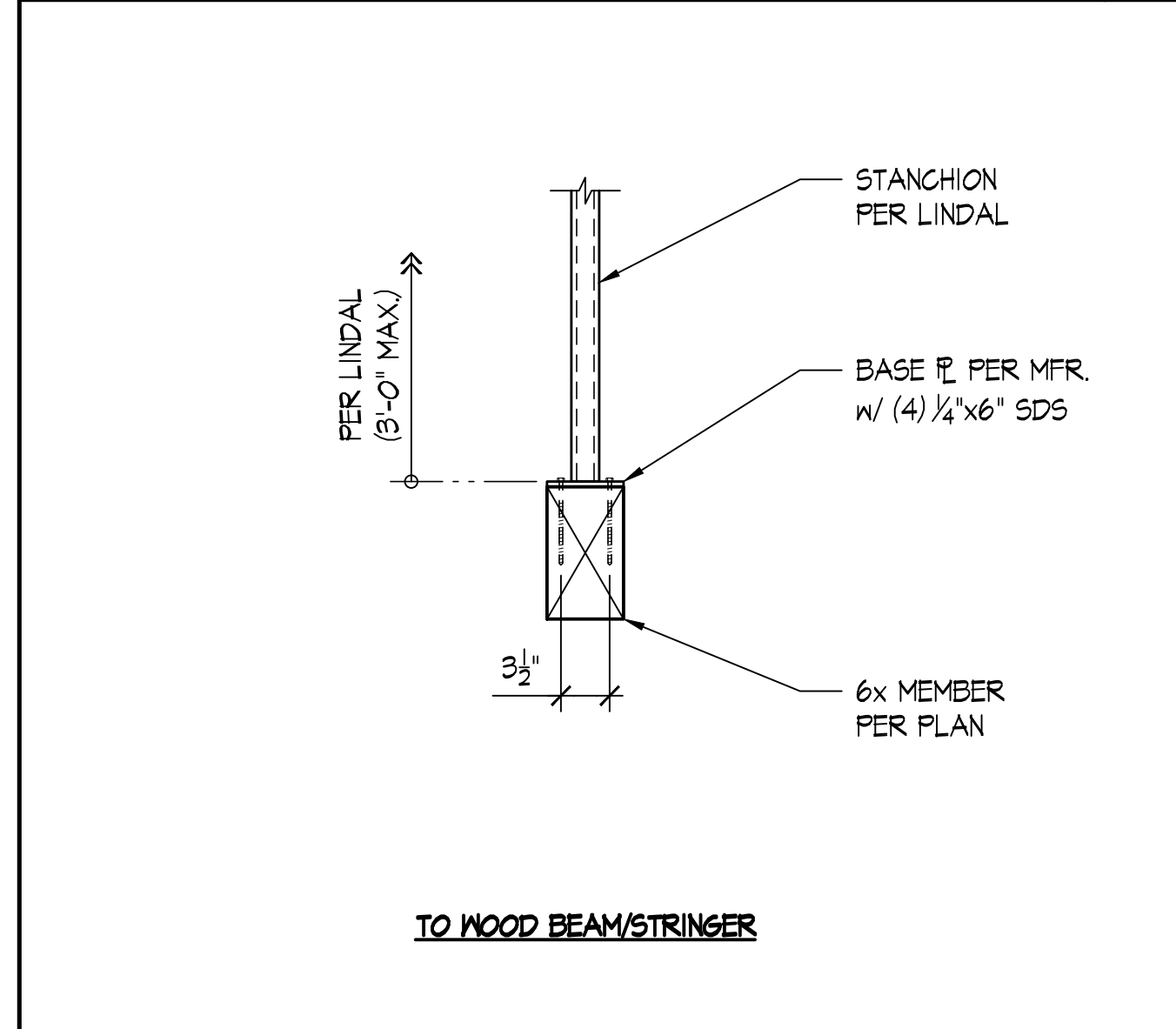


DETAIL SCALE: NONE | 5

DETAIL SCALE: NONE | 6

DETAIL SCALE: NONE | 7

DETAIL SCALE: NONE | 8

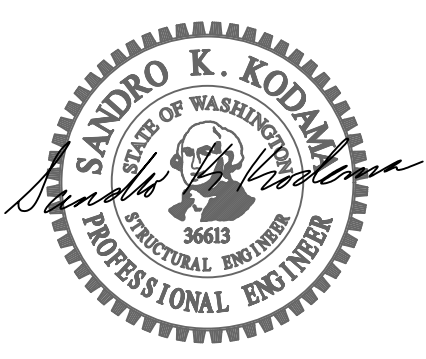


TYPICAL RAILING ATTACHMENT SCALE: NONE | 9

DETAIL SCALE: NONE | 10

DETAIL SCALE: NONE | 11

DETAIL SCALE: NONE | 12



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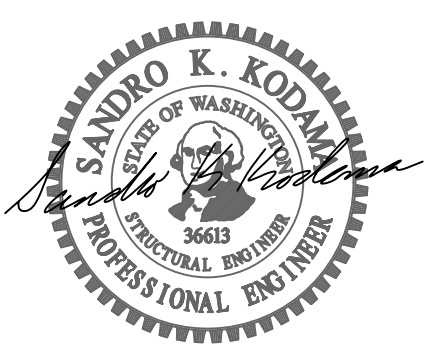
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DATE	PLAN SET	INITIAL
11/27/23	PERMIT SET	
4/3/24	PERMIT RESUBMITTAL	

42255
HOME SERIES
CUSTOM
HOME MODEL
CUSTOM

DETAILS
Scale: AS NOTED

S4.5



LINDAL DISTRIBUTOR
WARM MODERN LIVING
CLIENT
TUANHÒA V. HOANG & MAILE D. INTRACHAT
7929 EAST MERCER WAY,
MERCER ISLAND, WA 98040

BY INITIALING THE BLOCKS
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INFORMATION CONTAINED
ON THIS PAGE HAS BEEN
REVIEWED AND APPROVED.

DATE PLAN SET INITIAL
11/27/23 PERMIT SET
4/3/24 PERMIT RESUBMITTAL

42255
HOME SERIES
CUSTOM
HOME MODEL
CUSTOM
**WOOD/STEEL
DETAILS**
Scale: AS NOTED
S5.0

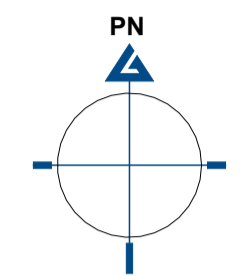
<p>SECTION A</p> <p>ST2215 (180-2) STRAP</p> <p>DOUBLE TOP PLATE</p> <p>A35 (180-35)</p> <p>STEEL BEAM PER PLAN</p> <p>POST PER PLAN</p> <p>SCALE: NONE</p>	<p>WALL SHEATHING PER PLAN WHERE OCCURS</p> <p>STEEL BEAM CONTINUOUS WHERE OCCURS</p> <p>MSTAB6 HORIZ. AT BREAK IN TOP PLATE</p> <p>PROVIDE SNUG BEARING ON POST</p> <p>POST PER PLAN (NO POST ABOVE AT SIM.)</p> <p>KERF $\frac{1}{4} \times 2\frac{1}{2}$" CENTERED IN POST W/ (2) $\frac{3}{4}$" THRU-BOLTS (OMIT AT SIM.)</p> <p>SOLID DF WEB FILLER x 2'-0" (BOTH SIDES) W/ $\frac{5}{8}$" THRU-BOLT EA. END</p> <p>STEEL BEAM PER PLAN</p> <p>POST PER PLAN</p> <p>SCALE: NONE</p>	<p>SHEATHING AND SHEAR WALL EDGE NAILING PER SHEAR WALL SCHEDULE, TYP.</p> <p>WASHER $\frac{1}{2}$" PER SHEAR WALL SCHEDULE</p> <p>$\frac{5}{8}$" W.T.S. SEE SHEAR WALL SCHEDULE FOR SPACING</p> <p>LSL BLKG. @ 48" O.C.</p> <p>NOTE: FOR INFORMATION NOT NOTED, SEE 4/55.0</p> <p>SCALE: NONE</p>	<p>2x PLATE, RIP TO MATCH BEAM WIDTH T&B</p> <p>WEB STIFFENER PER MFR. AS REQD.</p> <p>JOIST & HANGER PER PLAN</p> <p>STEEL BEAM PER PLAN</p> <p>$\frac{5}{8}$" W.T.S. @ 32" O.C., COUNTERSINK NUT & WASHER $\frac{3}{4}$" MAX. T&B</p> <p>SHEATHING PER PLAN</p> <p>\emptysetdx$\frac{1}{2}$" NAILS @ 6" O.C.</p> <p>SCALE: NONE</p>
<p>SIDE $\frac{1}{4}$" BOTH SIDES</p> <p>CAP $\frac{1}{2}$"</p> <p>COL. PER PLAN</p> <p>BEAM PER PLAN, TYP.</p> <p>$\frac{1}{2}$" MAX. GAP.</p> <p>(2) $\frac{3}{4}$" BOLTS AT EACH BEAM</p> <p>SCALE: NONE</p>	<p>END $\frac{1}{2}$"</p> <p>SIDE $\frac{1}{4}$" BOTH SIDES W/ (2) $\frac{3}{4}$" THRU-BOLTS</p> <p>BASE $\frac{1}{2}$" DAP BEAM AS REQD.</p> <p>BEAM PER PLAN</p> <p>POST PER PLAN</p> <p>(4) $\frac{1}{4} \times 3$" SDS AT WORKABLE GAGE</p> <p>SCALE: NONE</p>	<p>BLKG. AS REQD. BUILT UP W/ 2x PLATES</p> <p>BEAM & HANGER PER PLAN</p> <p>LSL BLKG. PER PLAN RIPPED TO FIT, BEAR ON BOTTOM FLANGE</p> <p>(4) $\frac{3}{4}$" THRU BOLTS</p> <p>SCALE: NONE</p>	<p>DETAIL</p> <p>SCALE: NONE</p>
<p>DETAIL</p> <p>SCALE: NONE</p>	<p>DETAIL</p> <p>SCALE: NONE</p>	<p>DETAIL</p> <p>SCALE: NONE</p>	<p>DETAIL</p> <p>SCALE: NONE</p>

LOWER LEVEL POST AND PARTITION OVERLAY

- SCALE: 1/4"=1'-0"
- ALL POSTS TO BE JOB CUT TO FIT UNDER BEAMS. POSTS LABELED RECUT ARE JOB CUT FROM A POST WITH AN INDICATED LENGTH ALSO LABELED RECUT.
 - GLULAM BEAMS VARY IN SIZE. MEASURE BEAM DEPTH AT POST LOCATION TO DETERMINE EXACT POST LENGTH BEFORE CUTTING POST.
 - ALL INTERIOR WALL STUDS UNDER FIRST FLOOR ARE #412, 2x4 @ 24" O.C. UNLESS NOTED OTHERWISE.
 - ALL EXTERIOR WALL STUDS AT LOWER LEVEL FLOOR ARE #414, 2x6 @ 16" O.C. UNLESS NOTED OTHERWISE.
 - ALL FURRING WALLS STUDS AT THE LOWER LEVEL ARE #412, 2X4 @ 24" O.C. UNLESS NOTED OTHERWISE.
 - WHEN PLANS ARE ON 12"x18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSIONS.



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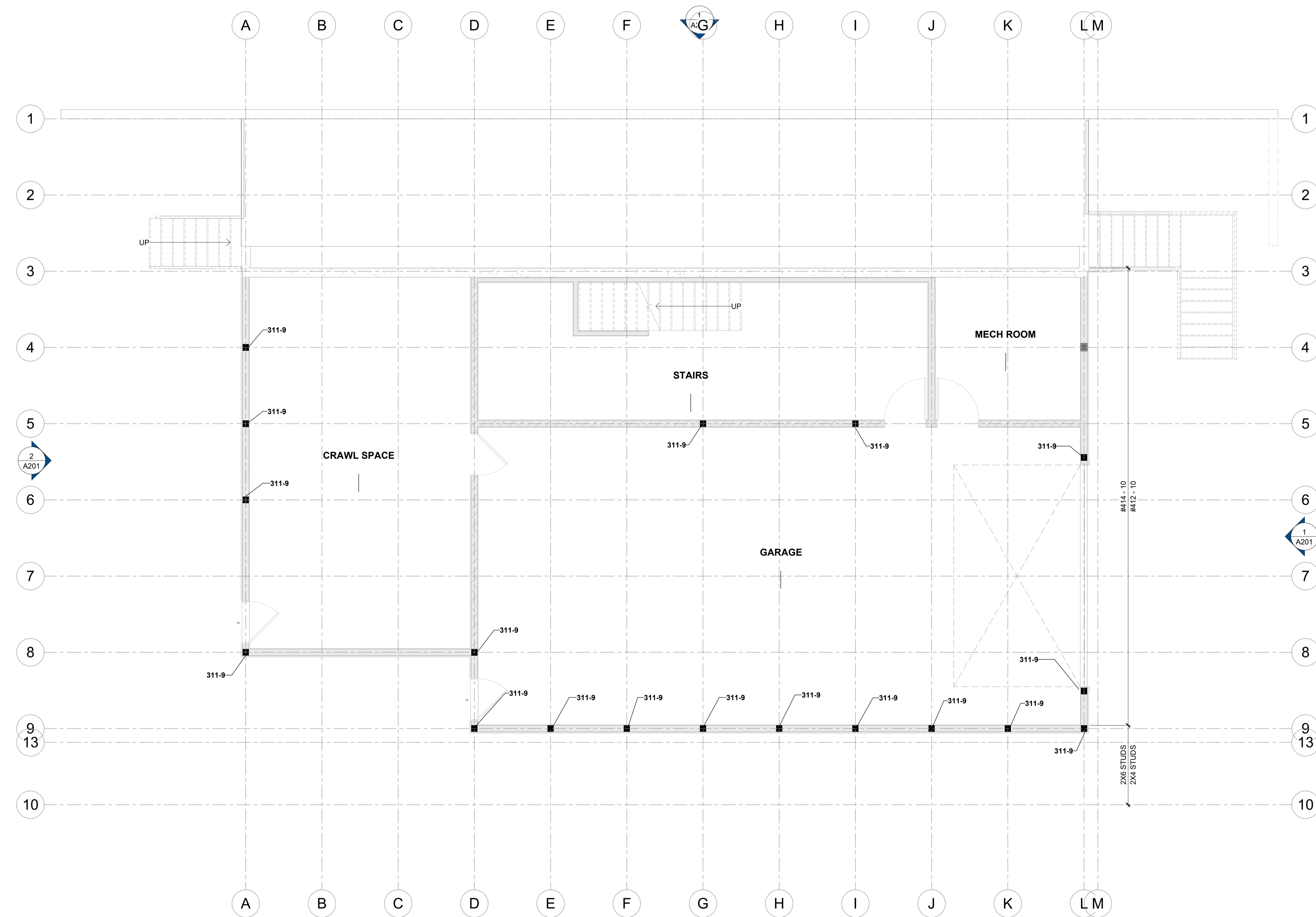


PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

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HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040



REVISION	NO.	DESCRIPTION	ISSUED BY	DATE
1	ES	7/18/2023		
2	ES	10/18/2023		
1	ES	4/3/2024		
1	ES	11/27/2023		

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL
CUSTOM ELEMENT HOME

OVERLAY - LOWER LEVEL

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

MT00

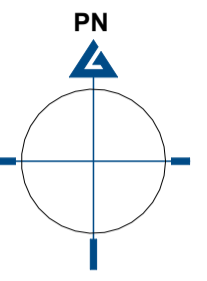
LOWER LEVEL POST SCHEDULE					
PART #	APPLICATION	DIMENSIONS	MATERIAL	DESIGN LENGTH	
				CUT	PRE-CUT
311-4	NON-EXPOSED	5 1/8" x 5 1/2"	ALASKAN YELLOW CEDAR	3' - 5 3/8"	4' - 0"
311-5	NON-EXPOSED	5 1/8" x 5 1/2"	ALASKAN YELLOW CEDAR	4' - 5 7/8"	5' - 0"
311-9	NON-EXPOSED	5 1/8" x 5 1/2"	DOUG-FIR #2	8' - 1 1/2"	9' - 0"

1 FIRST FLOOR OVERLAY
MT00 1/4" = 1'-0"

FIRST FLOOR POST AND PARTITION OVERLAY

- SCALE: 1/4"=1'-0"
- ALL POSTS TO BE JOB CUT TO FIT UNDER BEAMS. POSTS LABELED RECUT ARE JOB CUT FROM A POST WITH AN INDICATED LENGTH ALSO LABELED RECUT.
 - POST ATTACHMENT TO CONCRETE SLABS, DESIGN AND MATERIALS, ARE BY OTHERS.
 - GLULAM BEAMS VARY IN SIZE. MEASURE BEAM DEPTH AT POST LOCATION TO DETERMINE EXACT POST LENGTH BEFORE CUTTING POST.
 - ALL INTERIOR WALL STUDS UNDER SECOND FLOOR ARE #412 (2x4) OR #414 (2x6) @ 24" O.C. UNLESS NOTED OTHERWISE.
 - ALL EXTERIOR WALL STUDS AT FIRST FLOOR ARE #414, 2x6 @ 16" O.C. UNLESS NOTED OTHERWISE.
 - WHEN PLANS ARE ON 12"x18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSIONS.

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PROJECT NORTH

LINDAL DEALER

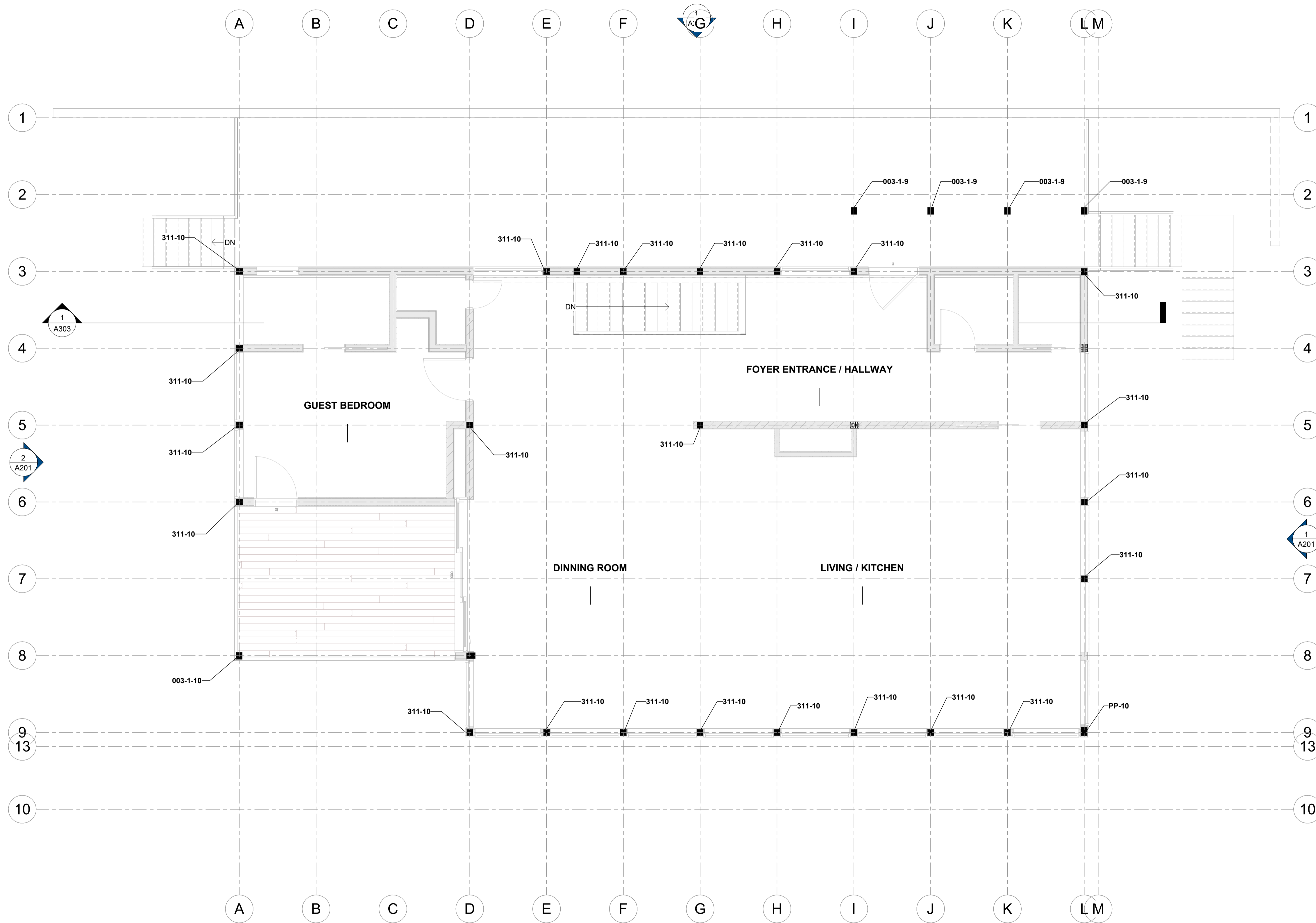
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HOANG INTRACHAT

PROJECT ADDRESS

7929 EAST MERCER WAY
MERCER ISLAND WA 98040



REVISION NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/27/2023
2	CITY COMMENT 2	ES	4/3/2024

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL

CUSTOM ELEMENT HOME

OVERLAY - FIRST
FLOOR PLAN

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

MT01

1ST FLOOR POST SCHEDULE

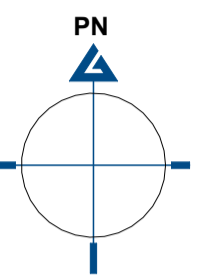
PART #	APPLICATION	DIMENSIONS	MATERIAL	DESIGN LENGTH	
				CUT	PRE-CUT
003-1-9	EXPOSED	CUSTOM	ALASKAN YELLOW CEDAR	8' - 9"	9' - 0"
311-10	NON-EXPOSED	5 1/8" x 5 1/2"	DOUG-FIR #2	9' - 6"	10' - 0"
PP-10	EXPOSED	5 1/8" x 7 1/2"	DOUG-FIR #2	9' - 6"	10' - 0"
003-1-10	EXPOSED	CUSTOM	ALASKAN YELLOW CEDAR	9' - 6"	10' - 0"
311-10	NON-EXPOSED	5 1/8" x 5 1/2"	DOUG-FIR #2	9' - 6"	10' - 0"

SECOND FLOOR POST AND PARTITION OVERLAY

- SCALE: 1/4"=1'-0"
- ALL POSTS TO BE JOB CUT TO FIT UNDER BEAMS. POSTS LABELED RECUT ARE JOB CUT FROM A POST WITH AN INDICATED LENGTH ALSO LABELED RECUT.
 - GLULAM BEAMS VARY IN SIZE, MEASURE BEAM DEPTH AT POST LOCATION TO DETERMINE EXACT POST LENGTH BEFORE CUTTING POST.
 - ALL INTERIOR STUDS ARE #412 (2x4) OR #414 (2x6) @ 24" O.C. UNLESS NOTED OTHERWISE.
 - ALL EXTERIOR WALL STUDS @ SECOND FLOOR ARE #414, 2x6 @ 16" O.C. UNLESS NOTED OTHERWISE.
 - WHEN PLANS ARE ON 12"x18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSIONS.



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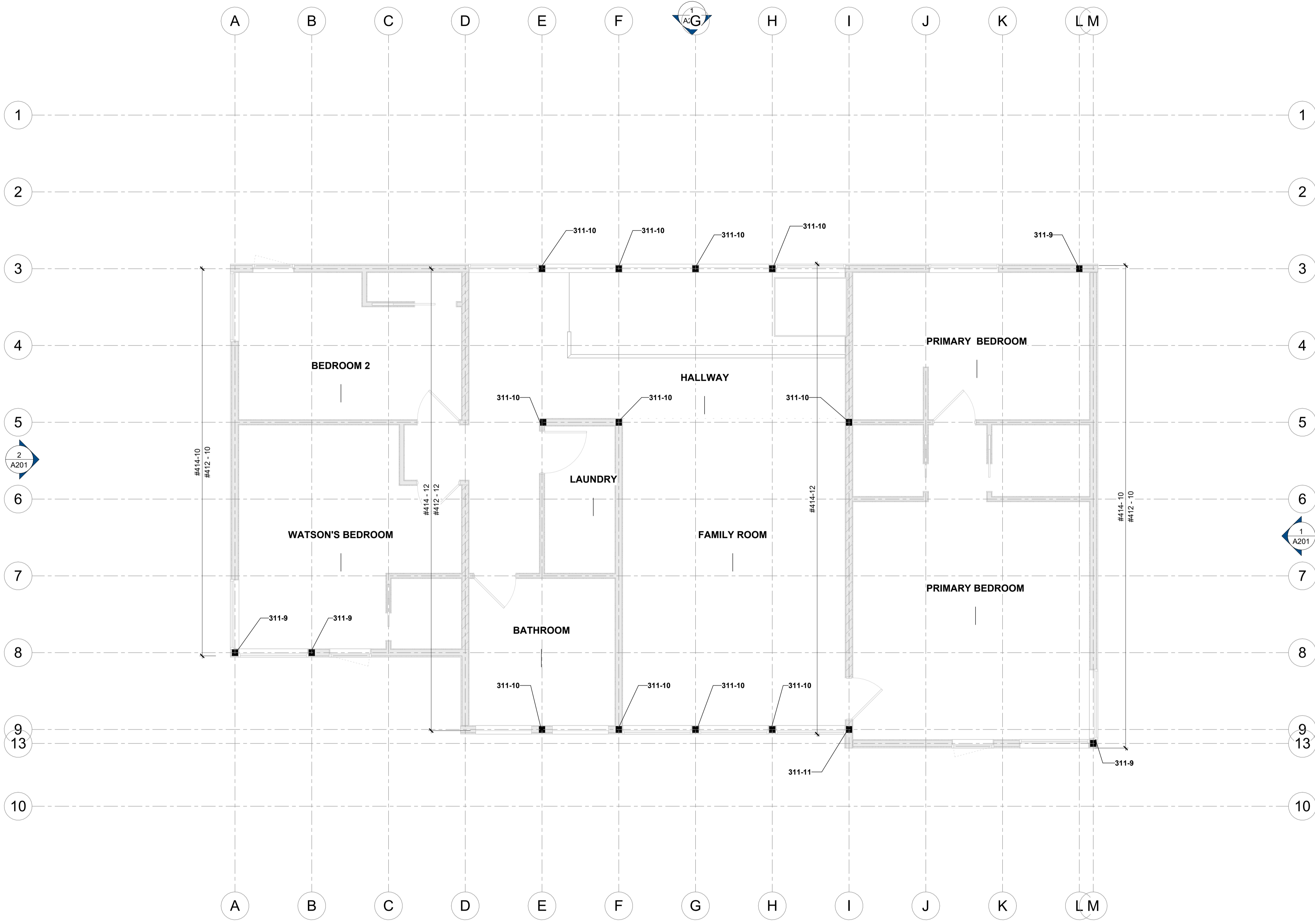


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MERCER ISLAND WA 98040



PART #	APPLICATION	STRUCTURAL MEMBER DESCRIPTION	DIMENSIONS	MATERIAL	DESIGN LENGTH	
					CUT	PRE-CUT
311-9	NON-EXPOSED	5 1/8" x 5 1/2"	DOUG-FIR #2	8' - 0"	9' - 0"	
311-10	NON-EXPOSED	5 1/8" x 5 1/2"	DOUG-FIR #2	8' - 10 3/4"	10' - 0"	
311-11	NON-EXPOSED	5 1/8" x 5 1/2"	DOUG-FIR #2	10' - 0 1/4"	11' - 0"	

REVISION NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/27/2023
2	CITY COMMENT 2	ES	4/3/2024
2	ISSUED FOR CD	ES	10/18/2023
1	REVISION DD	ES	7/18/2023

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL
CUSTOM ELEMENT HOME

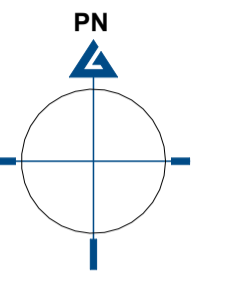
OVERLAY - SECOND FLOOR PLAN

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

MT02

1 02 - SECOND FLOOR OVERLAY
MT02 1/4" = 1'-0"

ARCHD: 24" x 36" LAST PLOT DATE: 4/10/2024 12:21:13 PM



PROJECT NORTH

LINDAL DEALER

WARM MODERN LIVING

CLIENT

HOANG INTRACHAT

PROJECT ADDRESS

7929 EAST MERCER WAY
MERCER ISLAND WA 98040

1ST FLOOR FRAMING NOTES

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

- VERIFY ACTUAL BEAM DIMENSIONS PRIOR TO CUTTING POSTS.
- ALL DESIGN AND MATERIALS BELOW L.C.H. SUPPLIED FLOOR SYSTEM ARE BY OTHERS N.I.C., UNLESS NOTED OTHERWISE.
- POSTS AND FOOTINGS MUST BE DESIGNED TO SUPPORT LOADS INDICATED.
- TYPICAL FLOOR JOISTS ARE
 - #540A, 11.7/8" TJI (110 SERIES) at 16" o.c., UNLESS NOTED OTHERWISE. USE (3) 8d GALV. BOX NAILS at SILL PLATE and at EACH BEAM, TYPICAL.
 - #540E, 11.7/8" TJI (110 SERIES) at 16" o.c., UNLESS NOTED OTHERWISE. USE (3) 8d GALV. BOX NAILS at SILL PLATE and at EACH BEAM, TYPICAL.
- BLOCKING SHALL BE
 - #541-RL, 11.7/8" LSL SOLID BLOCKING BELOW ALL POSTS FROM ABOVE, UNLESS NOTED OTHERWISE.
 - #419, 2x10 SOLID BLOCKING BELOW ALL POSTS FROM ABOVE AND STAGGERED BLOCKING OVER EACH SUPPORT, UNLESS NOTED OTHERWISE.
- PROVIDE FLOOR JOIST OR BLOCKING BELOW ALL INTERIOR NON-LOAD BEARING PARTITIONS PARALLEL TO JOISTS. PROVIDE DOUBLE FLOOR JOISTS OR BLOCKING BELOW LANDING POINT OF STAIR STRINGERS.
- FLOOR SHEATHING IS #697, 3/4" T&G PLYWOOD with #753 ADHESIVE and #8 x 2" FLAT HEAD SCREWS (BY OTHERS) at 6" o.c. at EDGES and 10" o.c. at INTERMEDIATE SUPPORTS. RUN PLYWOOD LONG DIRECTION PERPENDICULAR TO FLOOR JOISTS.
- DECK SHEATHING IS #697-OSB, 23/32" T&G OSB UNDERLAYMENT SHEATHING. APPLY with CONSTRUCTION ADHESIVE (#753) and #8 x 2" FLAT HEAD SCREWS (BY OTHERS) at 6" o.c. at EDGES and 10" o.c. at INTERMEDIATE SUPPORTS. RUN SHEATHING LONG DIRECTION PERPENDICULAR TO FLOOR JOISTS.
- WHEN PLANS ARE ON 12"x18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSIONS.

1ST FLOOR DESIGN LOADS:

1ST FLOOR LIVE LOAD	40 PSF
1ST FLOOR DEAD LOAD	12 PSF
TOTAL LOAD	52 PSF

STRUCTURAL CONNECTION

PART#	MNF PART#	MNF	QTY
780-270	1TS1.81/11.88	SIMPSON STRONG TIE	249
CBT4Z	CBT4Z	SIMPSON STRONG TIE	1
008-02	HGUS7.5/12	SIMPSON STRONG TIE	3
008-04	HTS30-C	SIMPSON STRONG TIE	2
780-516	HUC5.125/16	SIMPSON STRONG TIE	1
780-608	HUC68	SIMPSON STRONG TIE	8
780-412	HUC412	SIMPSON STRONG TIE	28
008-06	HUCQ1.81/11SDS	SIMPSON STRONG TIE	8
760-612	HUCQ612-SDS	SIMPSON STRONG TIE	16
780-204	LS70	SIMPSON STRONG TIE	8
780-206	LUS26	SIMPSON STRONG TIE	22
780-208	LUS28-2	SIMPSON STRONG TIE	4
780-207Z	LUS210	SIMPSON STRONG TIE	12
780-271	MIT411/11.88	SIMPSON STRONG TIE	69

1ST FLOOR BEAM SCHEDULE

PART #	DIMENSIONS	MATERIAL	DESIGN LENGTH	
			CUT	PRE-CUT
BEAM				
542-12	3 1/2" x 11 7/8"	LSL	11' - 0"	12' - 0"
542-13	3 1/2" x 11 7/8"	LSL	12' - 4"	13' - 0"
546-12	5 1/4" x 11 7/8"	PSL	11' - 0"	12' - 0"
BEAM				
KK-18	5 1/8" x 18"	DOUG-FIR #2	17' - 3 3/4"	18' - 0"
FLOOR BEAM				
ZZZ-23	5 1/8" x 16"	DOUG-FIR #2	<varies>	23' - 0"
546-17	5 1/4" x 11 7/8"	PSL	16' - 7 1/2"	17' - 0"
HEADER				
532-4	3 1/2" x 9 1/2"	LSL	<varies>	4' - 0"
532-9	3 1/2" x 9 1/2"	LSL	8' - 5"	9' - 0"

DECK FRAMING NOTES

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

- DECK JOISTS ARE #419-C, 2x10 SPF AT 24" o.c., UNLESS NOTED OTHERWISE.
- ALL SUPPORT POSTS, BRACING, POST BASES, POST CAPS and FOOTINGS ARE N.I.C., UNLESS NOTED OTHERWISE.
- WHEN PLANS ARE ON 12"x18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSIONS.

DECK DESIGN LOADS:

DECK LIVE LOAD	60 PSF
DECK DEAD LOAD	10 PSF
TOTAL LOAD	70 PSF

CRAWL SPACE VENTILATION CALCS.

CRAWL VENTILATION CALCULATION WITH APPROVED CLASS 1 VAPOR RETARDER PER R408.2

474 SQ. FT. UNDER FLOOR AREA/ 300 S.F. = 1.58 S.F.
1.58 x 144 = 227.52 SQ. IN. REQUIRED

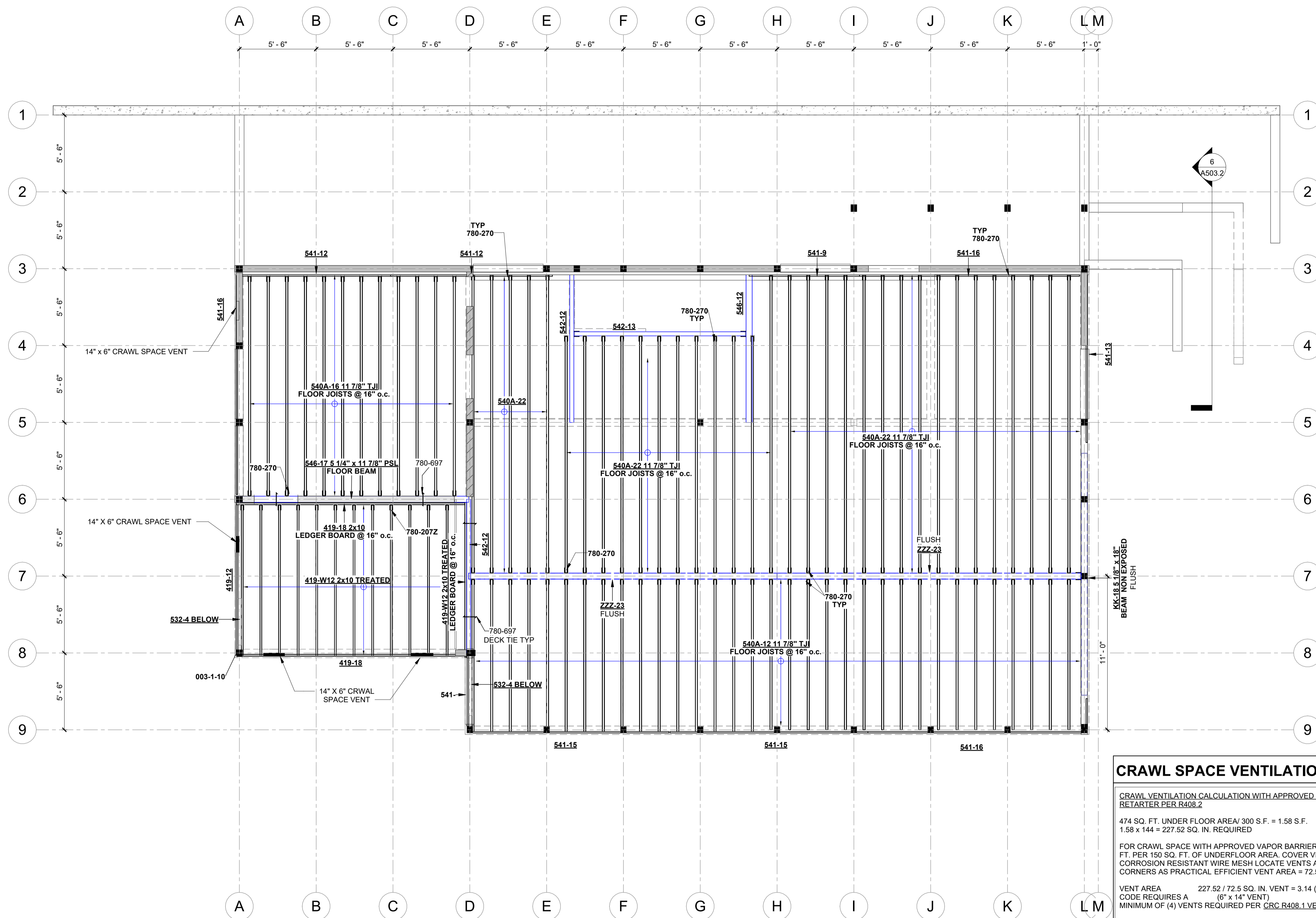
FOR CRAWL SPACE WITH APPROVED VAPOR BARRIER PROVIDE 1 SQ. FT. PER 150 SQ. FT. OF UNDERFLOOR AREA. COVER VENTS WITH 1/4" CORROSION RESISTANT WIRE MESH LOCATE VENTS AS CLOSE TO CORNERS AS PRACTICAL EFFICIENT VENT AREA = 72.5 SQ. IN

VENT AREA 227.52 / 72.5 SQ. IN. VENT = 3.14 (4) (VENTS)
CODE REQUIRES A (6" x 14" VENT)
MINIMUM OF (4) VENTS REQUIRED PER CRC R408.1 VENTILATION

- (4) VENTS MINIMUM REQUIRED
- (4) CRC APPROVED VENTS PROVIDED

CRAWL SPACE REQ. NOTES

- 18" MIN CLEARANCE UNDER JOIST
- 12" MIN CLEARANCE UNDER BEAMS
- 6 MIL VAPOR BARRIER
- 12" MIN LAP SEAMS



1 FIRST FLOOR FRAMING
MT03 1/4" = 1'-0"

REVISION	NO.	DESCRIPTION	ISSUED BY	DATE
1	1	CITY COMMENTS	ES	11/27/2023
2	2	CITY COMMENT 2	ES	4/3/2024
3	3	CITY COMMENT 3	ES	11/27/2023

ISSUANCES

WARRANTY NUMBER

42255

SERIES



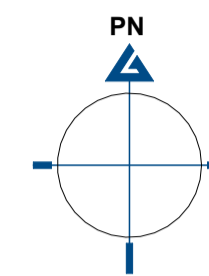
MODEL

CUSTOM ELEMENT HOME

FIRST FLOOR FRAMING

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

MT03



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HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

2ND FLOOR FRAMING NOTES

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

- VERIFY ACTUAL BEAM DIMENSIONS PRIOR TO CUTTING POSTS.
- ALL DESIGN AND MATERIALS BELOW L.C.H. SUPPLIED FLOOR SYSTEM ARE BY OTHERS N.I.C., UNLESS NOTED OTHERWISE.
- POSTS AND FOOTINGS MUST BE DESIGNED TO SUPPORT LOADS INDICATED.
- TYPICAL FLOOR JOISTS ARE
 - #540A, 11.7/8" TJI (110 SERIES) at 16" o.c., UNLESS NOTED OTHERWISE. USE (3) 8d GALV. BOX NAILS at SILL PLATE and at EACH BEAM, TYPICAL.
 - #540E, 11.7/8" TJI (110 SERIES) at 16" o.c., UNLESS NOTED OTHERWISE. USE (3) 8d GALV. BOX NAILS at SILL PLATE and at EACH BEAM, TYPICAL.
- BLOCKING SHALL BE
 - #541-RL, 11.7/8" LSL SOLID BLOCKING BELOW ALL POSTS FROM ABOVE, UNLESS NOTED OTHERWISE.
 - #419, 2x10 SOLID BLOCKING BELOW ALL POSTS FROM ABOVE AND STAGGERED BLOCKING OVER EACH SUPPORT, UNLESS NOTED OTHERWISE.
- PROVIDE FLOOR JOIST or BLOCKING BELOW ALL INTERIOR NON-LOAD BEARING PARTITIONS PARALLEL TO JOISTS. PROVIDE DOUBLE FLOOR JOISTS or BLOCKING BELOW LANDING POINT OF STAIR STRINGERS.
- FLOOR SHEATHING IS #696 1 1/8" T&G PLYWOOD with #753 ADHESIVE and #8 x 2" FLAT HEAD SCREWS (BY OTHERS) at 6" o.c. at EDGES and 10" o.c. at INTERMEDIATE SUPPORTS. RUN PLYWOOD LONG DIRECTION PERPENDICULAR TO FLOOR JOISTS.
- FLOOR SHEATHING IS #697 OSB, 23/32" T&G OSB UNDERLAYMENT SHEATHING. APPLY with CONSTRUCTION ADHESIVE (#753) and #8 x 2" FLAT HEAD SCREWS (BY OTHERS) at 6" o.c. at EDGES and 10" o.c. at INTERMEDIATE SUPPORTS. RUN SHEATHING LONG DIRECTION PERPENDICULAR TO FLOOR JOISTS.
- WHEN PLANS ARE ON 12"x18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSIONS.

2ND FLOOR DESIGN LOADS:

2ND FLOOR LIVE LOAD	40 PSF
2ND FLOOR DEAD LOAD	12 PSF
TOTAL LOAD	52 PSF

STRUCTURAL CONNECTION

PART#	MNF PART#	MNF	QTY
780-270	1TS1.81/11.88	SIMPSON STRONG TIE	249
CB14Z	CB14Z	SIMPSON STRONG TIE	1
008-02	HGUS7.5/12	SIMPSON STRONG TIE	3
008-04	HTS30-C	SIMPSON STRONG TIE	2
780-516	HUCS.125/16	SIMPSON STRONG TIE	1
780-608	HUC68	SIMPSON STRONG TIE	8
780-412	HUC412	SIMPSON STRONG TIE	28
008-06	HUCQ1.81/11SDS	SIMPSON STRONG TIE	8
760-612	HUCQ612-SDS	SIMPSON STRONG TIE	16
780-204	LS70	SIMPSON STRONG TIE	8
780-206	LUS26	SIMPSON STRONG TIE	22
780-208	LUS28-2	SIMPSON STRONG TIE	4
780-207Z	LUS210	SIMPSON STRONG TIE	12
780-271	MIT411/11.88	SIMPSON STRONG TIE	69

2ND FLOOR BEAM SCHEDULE

PART #	DIMENSIONS	MATERIAL	DESIGN LENGTH	
			CUT	PRE-CUT
BEAM				
542-13	3 1/2" x 11 7/8"	LSL	12' - 3"	13' - 0"
546-12	5 1/4" x 11 7/8"	PSL	11' - 3"	12' - 0"
546-17	5 1/4" x 11 7/8"	PSL	16' - 8 3/4"	17' - 0"
BEAM				
QQ-6	5 1/8" x 9"	ALASKAN YELLOW CEDAR	5' - 3 1/4"	6' - 0"
QQ-19	5 1/8" x 9"	ALASKAN YELLOW CEDAR	18' - 6 1/4"	19' - 0"
NIC-12	W10x26	STEEL	10' - 11"	12' - 0"
NIC-24	W10x39	STEEL	22' - 9 1/4"	24' - 0"
FLOOR BEAM				
542-6	3 1/2" x 11 7/8"	LSL	<varies>	6' - 0"
542-11	3 1/2" x 11 7/8"	LSL	<varies>	11' - 0"
542-12	3 1/2" x 11 7/8"	LSL	<varies>	12' - 0"
542-13	3 1/2" x 11 7/8"	LSL	12' - 5"	13' - 0"
542-17	3 1/2" x 11 7/8"	LSL	<varies>	17' - 0"
542-18	3 1/2" x 11 7/8"	LSL	<varies>	18' - 0"
542-21	5 1/4" x 11 7/8"	PSL	19' - 11 3/8"	21' - 0"
546-12	5 1/4" x 11 7/8"	PSL	11' - 7 1/2"	12' - 0"
546-17	5 1/4" x 11 7/8"	PSL	16' - 5"	17' - 0"
546-21	5 1/4" x 11 7/8"	PSL	19' - 10 7/8"	21' - 0"
547-12	7" x 11 7/8"	PSL	11' - 7 1/2"	12' - 0"
547-18	7" x 11 7/8"	PSL	17' - 8"	18' - 0"

REVISION NO.	DESCRIPTION	ISSUED BY	DATE
1	CITY COMMENTS	ES	11/21/2023
2	CITY COMMENT 2	ES	4/3/2024
3	CITY COMMENT 3	ES	11/21/2023

ISSUANCES

WARRANTY NUMBER

42255

SERIES



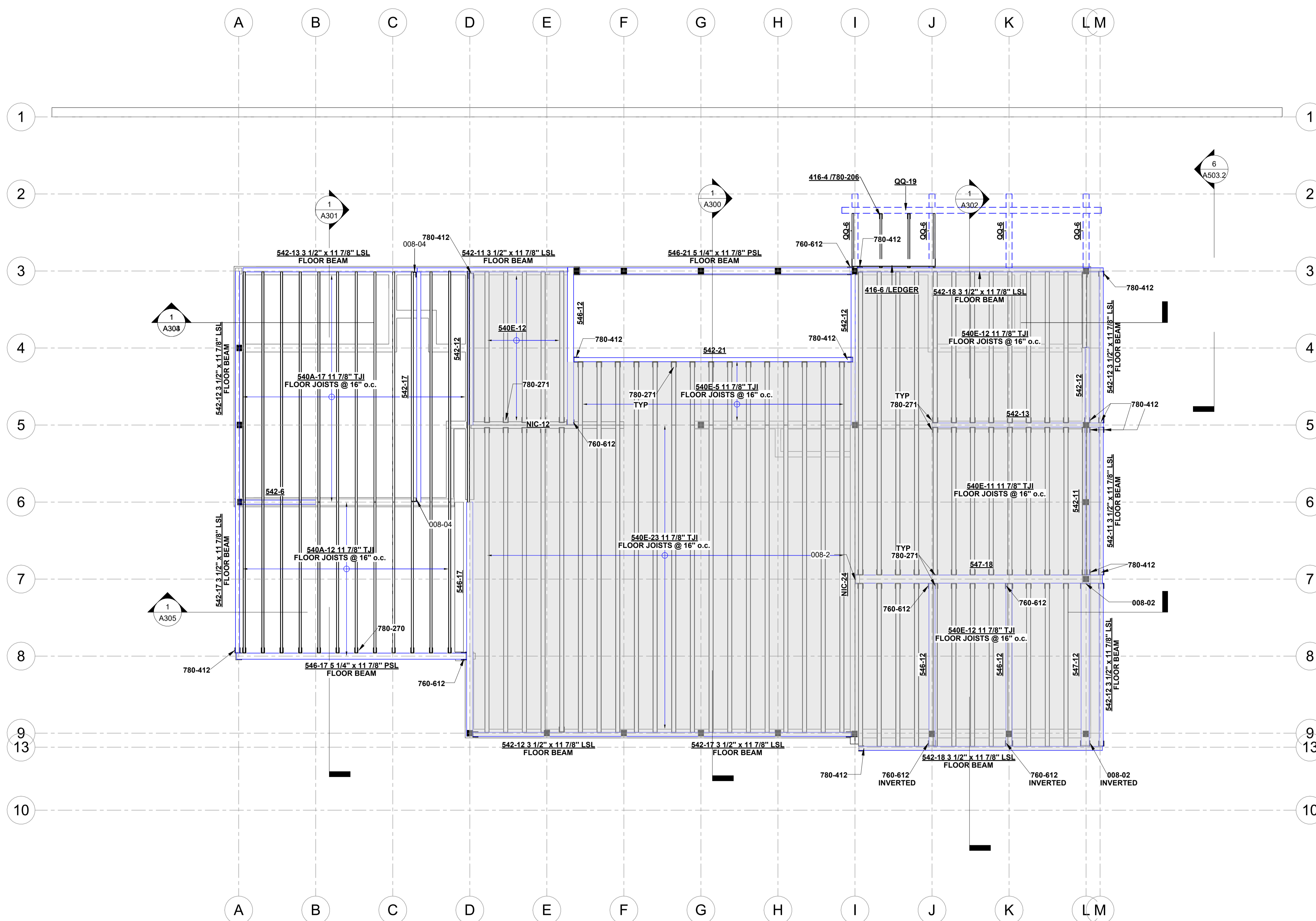
MODEL

CUSTOM ELEMENT HOME

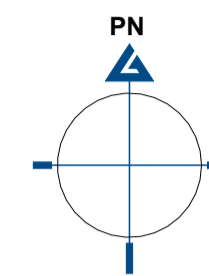
SECOND FLOOR FRAMING

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

MT04



1 02 - SECOND FLOOR FRAMING PLAN
MT04 1/4" = 1'-0"



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

REVISION NO.	ES	7/18/2023
ISSUED FOR CD	ES	10/18/2023
2 CITY COMMENT 2	ES	4/3/2024
1 CITY COMMENTS	ES	11/27/2023
NO. DESCRIPTION	ISSUED BY	DATE

ISSUANCES

WARRANTY NUMBER

42255

SERIES



MODEL
CUSTOM ELEMENT HOME

LOWER ROOF FRAMING

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

MT05

ROOF FRAMING NOTES

- SCALE: 1/4"=1'-0"
- VERIFY ACTUAL BEAM DIMENSIONS PRIOR TO CUTTING POSTS.
 - TYPICAL ROOF RAFTERS ARE
 - #540A, 11.7/8" TJI (110 SERIES) at 24" o.c., UNLESS NOTED OTHERWISE.
 - ARE #481, 2x12 RAFTERS at 24" o.c., UNLESS NOTED OTHERWISE.
 - ROOF SHEATHING IS
 - #700-059, 15/32" OSB SHEATHING with 8d GALV. BOX NAILS at 6" o.c. at EDGES and 12" o.c. at INTERMEDIATE SUPPORTS. USE #739-15/32 "H" CLIPS AT UNSUPPORTED EDGES. RUN SHEATHING LONG DIRECTION PERPENDICULAR TO ROOF RAFTERS.
 - ATTACH FASCIA W/ #770, 6d GALV. (BROWN) SIDING NAILS AT EACH RAFTER OR BLOCKING SUPPORT. USE TWO NAILS AT PER FASCIA BOARD AT EACH RAFTER.
 - #014 TRUSS PACKAGE INCLUDES ALL REQUIRED BLOCKING AND PERMANENT BRACING TO BE SUPPLIED BY TRUSS MANUFACTURER.
 - ALL TEMPORARY BRACING AND SHORING TO BE SUPPLIED BY OTHERS.
 - WHEN PLANS ARE ON 12"x18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSIONS.

ROOF DESIGN LOADS:

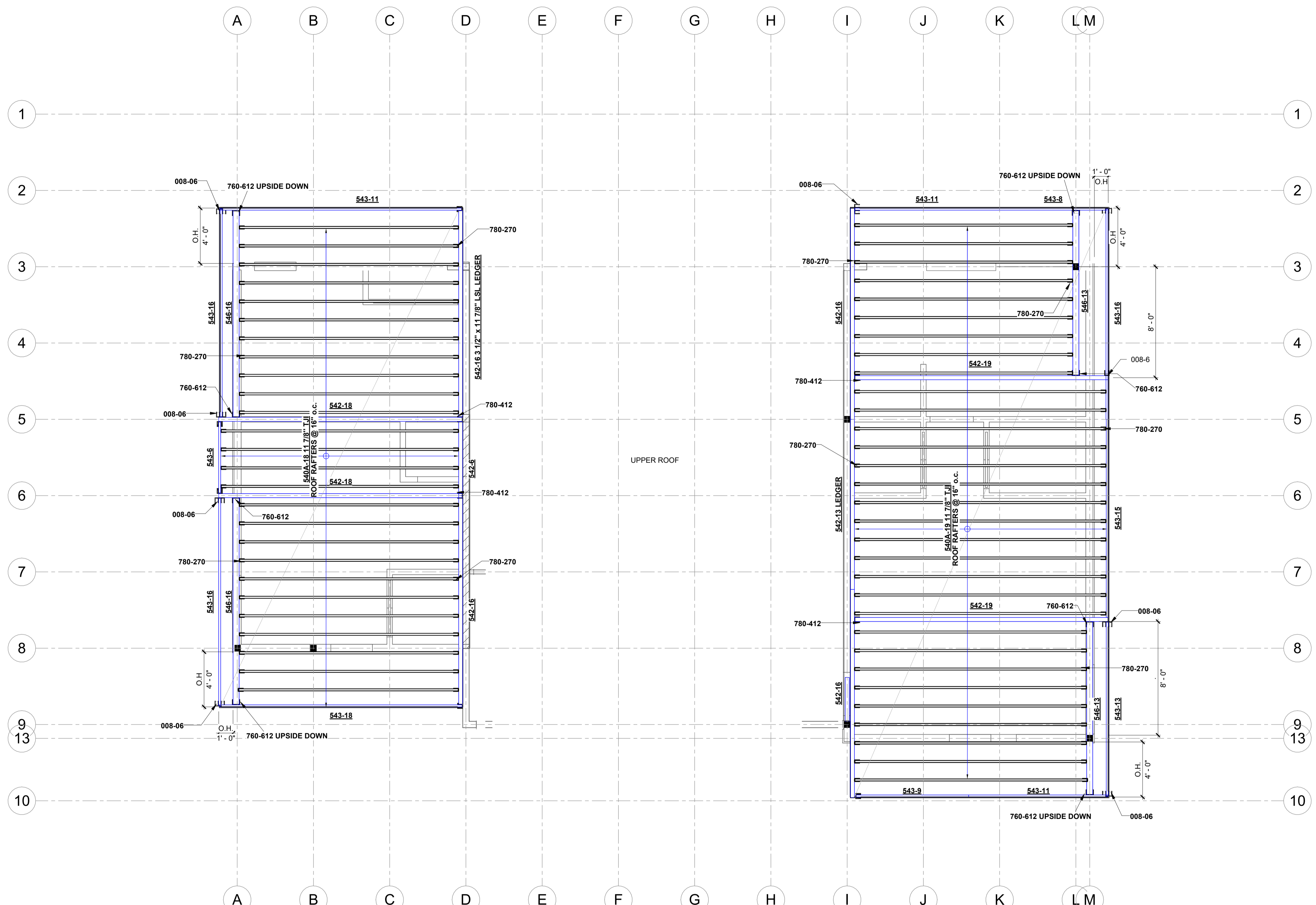
GROUND SNOW LOAD	40 PSF
ROOF DEAD LOAD	16 PSF
TOTAL LOAD	56 PSF

STRUCTURAL CONNECTION

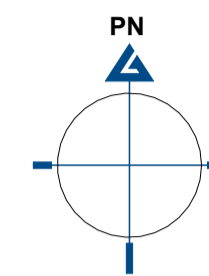
PART#	MNF PART#	MNF	QTY
780-270	1TS1.81/11.88	SIMPSON STRONG TIE	249
CBT4Z	CBT4Z	SIMPSON STRONG TIE	1
008-02	HGUS7.5/12	SIMPSON STRONG TIE	3
008-04	HTS30-C	SIMPSON STRONG TIE	2
780-516	HUC5.125/16	SIMPSON STRONG TIE	1
780-608	HUC68	SIMPSON STRONG TIE	8
780-412	HUC412	SIMPSON STRONG TIE	28
008-06	HUCQ1.81/11SDS	SIMPSON STRONG TIE	8
780-612	HUCQ612-SDS	SIMPSON STRONG TIE	16
780-204	LS70	SIMPSON STRONG TIE	8
780-206	LUS26	SIMPSON STRONG TIE	22
780-208	LUS26-2	SIMPSON STRONG TIE	4
780-207Z	LUS210	SIMPSON STRONG TIE	12
780-271	MIT411/11.88	SIMPSON STRONG TIE	69

ROOF BEAM SCHEDULE

PART #	DIMENSIONS	DESCRIPTION	DESIGN LENGTH	
			CUT	PRE-CUT
BEAM				
(3)-???-10	(3)-1 3/4" x 7 1/4"	LVL	9' - 7"	10' - 0"
(3)-???-11	(3)-1 3/4" x 7 1/4"	LVL	9' - 10"	11' - 0"
BEAM				
XX-16	5 1/8" x 13 1/2"	DOUG-FIR #2	<varies>	16' - 0"
XX-17	5 1/8" x 13 1/2"	DOUG-FIR #2	16' - 8 3/4"	17' - 0"
XX-27	5 1/8" x 13 1/2"	DOUG-FIR #2	<varies>	27' - 0"
BU ROOF BEAM				
(2)-416-6	(2)-2x8	SPF #2	<varies>	6' - 0"
(2)-416-8	(2)-2x8	SPF #2	<varies>	8' - 0"



1 04 - LOW ROOF FRAMING PLAN
MT05 1/4" = 1'-0"



PROJECT NORTH

LINDAL DEALER
WARM MODERN LIVING

CLIENT
HOANG INTRACHAT

PROJECT ADDRESS
7929 EAST MERCER WAY
MERCER ISLAND WA 98040

ROOF FRAMING NOTES

- SCALE: 1/4"=1'-0"
- VERIFY ACTUAL BEAM DIMENSIONS PRIOR TO CUTTING POSTS.
 - TYPICAL ROOF RAFTERS ARE
 - #540A, 11.7/8" TJI (110 SERIES) at 24" o.c., UNLESS NOTED OTHERWISE.
 - ARE #481, 2x12 RAFTERS at 24" o.c., UNLESS NOTED OTHERWISE.
 - ROOF SHEATHING IS
 - #700-OSB, 15/32" OSB SHEATHING with 8d GALV. BOX NAILS at 6" o.c. at EDGES and 12" o.c. at INTERMEDIATE SUPPORTS. USE #739-15/32 "H" CLIPS AT UNSUPPORTED EDGES. RUN SHEATHING LONG DIRECTION PERPENDICULAR TO ROOF RAFTERS.
 - ATTACH FASCIA W/ #770, 6d GALV. (BROWN) SIDING NAILS AT EACH RAFTER OR BLOCKING SUPPORT. USE TWO NAILS AT PER FASCIA BOARD AT EACH RAFTER.
 - #014 TRUSS PACKAGE INCLUDES ALL REQUIRED BLOCKING AND PERMANENT BRACING TO BE SUPPLIED BY TRUSS MANUFACTURER.
 - ALL TEMPORARY BRACING AND SHORING TO BE SUPPLIED BY OTHERS.
 - WHEN PLANS ARE ON 12"x18" SHEETS, REDUCE SCALE BY HALF FOR PROPER DIMENSIONS.

ROOF DESIGN LOADS:

GROUND SNOW LOAD	40 PSF
ROOF DEAD LOAD	16 PSF
TOTAL LOAD	56 PSF

STRUCTURAL CONNECTION

PART#	MNF PART#	MNF	QTY
780-270	1TS1.81/11.88	SIMPSON STRONG TIE	249
CBT4Z	CBT4Z	SIMPSON STRONG TIE	1
008-02	HGUS7.5/12	SIMPSON STRONG TIE	3
008-04	HTS30-C	SIMPSON STRONG TIE	2
780-516	HUCS.125/16	SIMPSON STRONG TIE	1
780-608	HUC68	SIMPSON STRONG TIE	8
780-412	HUC412	SIMPSON STRONG TIE	28
008-06	HUCQ1.81/11SDS	SIMPSON STRONG TIE	8
780-612	HUCQ612-SDS	SIMPSON STRONG TIE	16
780-204	LS70	SIMPSON STRONG TIE	8
780-206	LUS26	SIMPSON STRONG TIE	22
780-208	LUS26-2	SIMPSON STRONG TIE	4
780-207Z	LUS210	SIMPSON STRONG TIE	12
780-271	MIT411/11.88	SIMPSON STRONG TIE	69

ROOF BEAM SCHEDULE

PART #	DIMENSIONS	MATERIAL	DESIGN LENGTH	
			CUT	PRE-CUT
BEAM				
(3)-???-10	(3)-1 3/4" x 7 1/4"	LVL	9' - 7"	10' - 0"
(3)-???-11	(3)-1 3/4" x 7 1/4"	LVL	9' - 10"	11' - 0"
BEAM				
XX-16	5 1/8" x 13 1/2"	DOUG-FIR #2	<varies>	16' - 0"
XX-17	5 1/8" x 13 1/2"	DOUG-FIR #2	16' - 8 3/4"	17' - 0"
XX-27	5 1/8" x 13 1/2"	DOUG-FIR #2	<varies>	27' - 0"
BU ROOF BEAM				
(2)-416-6	(2)-2x8	SPF #2	<varies>	6' - 0"
(2)-416-8	(2)-2x8	SPF #2	<varies>	8' - 0"

REVISION NO.	DESCRIPTION	ISSUED BY	DATE
1	ISSUED FOR CD	ES	7/18/2023
2	CITY COMMENT 2	ES	10/18/2023
1	CITY COMMENTS	ES	4/3/2024
NO.	DESCRIPTION	ISSUED BY	DATE

ISSUANCES

WARRANTY NUMBER

42255

SERIES



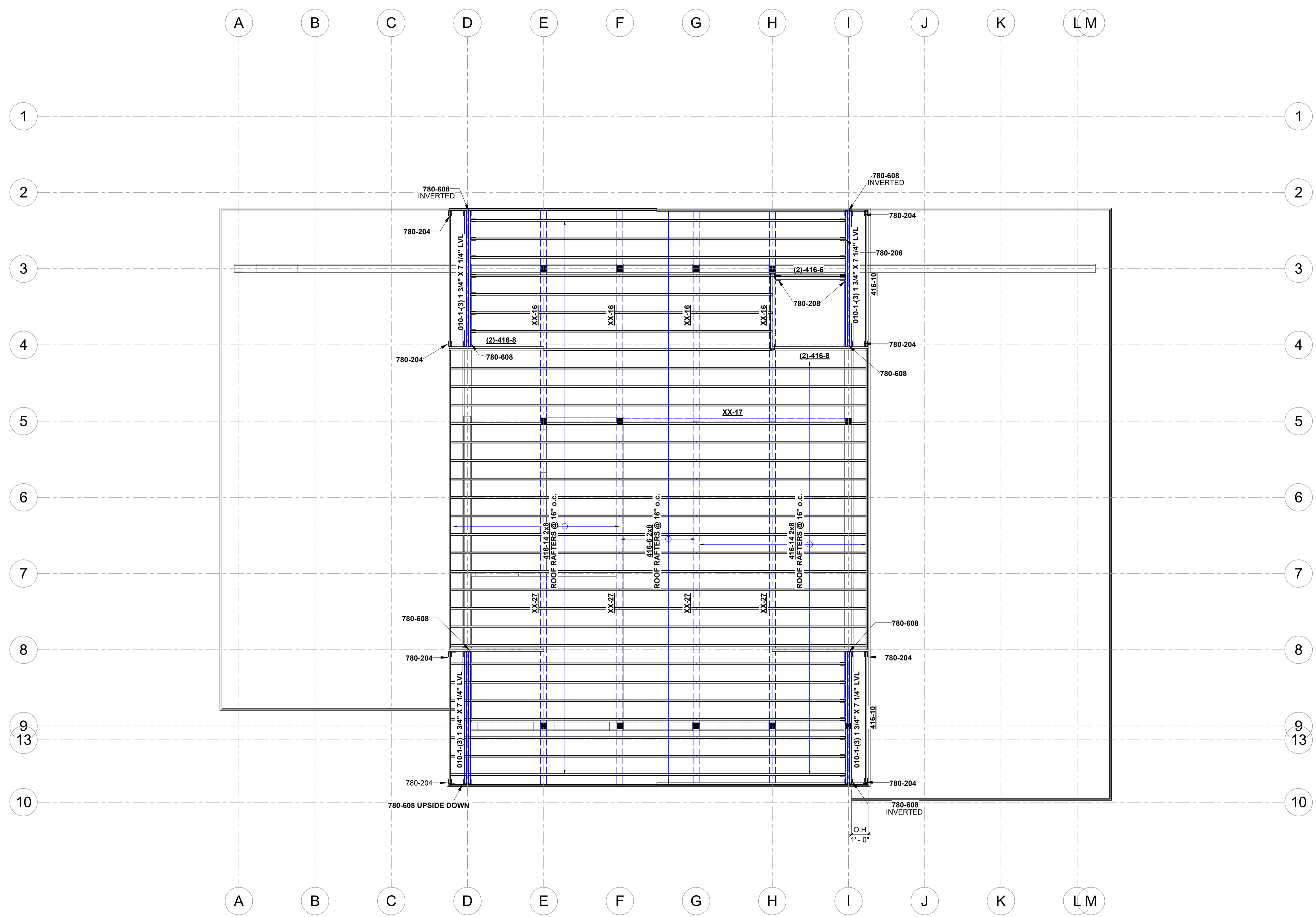
MODEL

CUSTOM ELEMENT HOME

UPPER ROOF FRAMING

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

MT06



1 05 - HIGH ROOF FRAMING PLAN
MT06 1/4" = 1'-0"