

CERTIFICATE OF SURVEY

~for~ KEITH AND JAN DEHNERT
~of~ 7040 117th Street North
Grant, Minnesota 55110

VICINITY MAP
PART OF SEC. 05, TWP. 30, RNG. 21



WASHINGTON COUNTY, MINNESOTA
(NO SCALE)

PROPERTY DESCRIPTION: Per Document No. 4122495

The land referred to herein is situated in the state of Minnesota, Washington County described as follows: The Northwest Quarter of the Northwest Quarter of Section 5, Township 30 North, Range 21 West, except the following 4 parcels:

Parcel 1
Beginning at the Northeast corner of said Northwest Quarter of the Northwest Quarter; thence South 01 degree 27 minutes 46 seconds East, assumed bearing, along the East line of said Northwest Quarter of the Northwest Quarter a distance of 720.66 feet; thence South 88 degrees 49 minutes 46 seconds West 66.54 feet; thence North 58 degrees 08 minutes 24 seconds West 100.00 feet; thence North 47 degrees 35 minutes 32 seconds West 388.20 feet; thence North 01 degree 27 minutes 46 seconds East 443.33 feet to the North line of said Northwest Quarter of the Northwest Quarter; thence North 89 degrees 24 minutes 17 seconds East along said North line 430.00 feet to the point of beginning.

AND

Parcel 2
Commencing at the northeast corner of said Northwest Quarter of the Northwest Quarter; thence South 01 degree 27 minutes 46 seconds East, assumed bearing, along the east line of said Northwest Quarter of the Northwest Quarter a distance of 720.66 feet to the point of beginning; thence South 88 degrees 49 minutes 46 seconds West 66.54 feet; thence North 58 degrees 08 minutes 24 seconds West 100.00 feet; thence North 47 degrees 35 minutes 32 seconds West 388.20 feet; thence North 01 degree 27 minutes 46 seconds West; parallel with said east line, a distance of 403.39 to the north line of said Northwest Quarter of the Northwest Quarter; thence South 89 degrees 24 minutes 17 seconds West along said North line 411.00 feet; thence South 01 degree 27 minutes 46 seconds East, parallel with said east line, a distance of 383.00 feet; thence North 58 degrees 08 minutes 24 seconds East, parallel with said east line, a distance of 383.00 feet; thence South 01 degree 27 minutes 46 seconds East; thence North 01 degree 27 minutes 46 seconds West along said east line 298.69 feet to the point of beginning.

AND

Parcel 3
That part of the Northwest Quarter of the Northwest Quarter of Section 5, Township 30 North, Range 21 West, Washington County, Minnesota, lying Southeastern of the center line of County State Aid Highway 10 as presently traveled.

AND

Parcel 4
Commencing at the Northeast corner of said Northwest Quarter of the Northwest Quarter; thence South 01 degree 27 minutes 46 seconds East, assumed bearing, along the East line of said Northwest Quarter of the Northwest Quarter a distance of 1020.38 feet to the Southeast corner of PARCEL B of the tract described in Document No. 713477;

thence South 88 degrees 32 minutes 14 seconds West along the South line of said PARCEL B a distance of 0.12 feet to the center line of County State Aid Highway 7 as presently traveled;

thence continue South 88 degrees 32 minutes 14 seconds West along said south line 156.18 feet; thence North 01 degree 27 minutes 46 seconds East along said North line 722.25 feet to the East line of the West 552.00 feet of said Northwest Quarter of the Northwest Quarter; thence South 01 degree 28 minutes 43 seconds East along said East line 1099.36 feet to said center line of County State Aid Highway 7;

thence South 89 degrees 23 minutes 08 seconds East along said center line 17.29 feet; thence easterly, northeasterly and northerly along said center line and a tangential curve, concave to the northwest, having a radius of 716.20 feet and a central angle of 91 degrees 04 minutes 33 seconds a distance of 1139.44 feet to the point of beginning.

AND

Further excepting all roads and easements of record.

NOTES

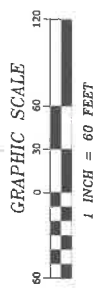
- Field survey was completed by E.G. Rud and Sons, Inc. on 10/03/19.
- Bearings shown are on Washington County datum.
- Parcel ID Number: 05-030-21-22-0001.
- Total Parcel Area: 21.03 Acres.
- Contours north of ditch area taken from Mn Topo Lيدر and supplemented with E.G. Rud and Sons field shots.
- This survey was prepared without the benefit of title work. Additional easements, restrictions and/or encumbrances may exist other than those shown hereon. Survey subject to revision upon receipt of a current title commitment or an attorney's title opinion.

BENCHMARK

MNDOT GEODETIC DATABASE STA. 9211
ELEVATION = 933.457 (N.A.V.D. 1988)

LEGEND

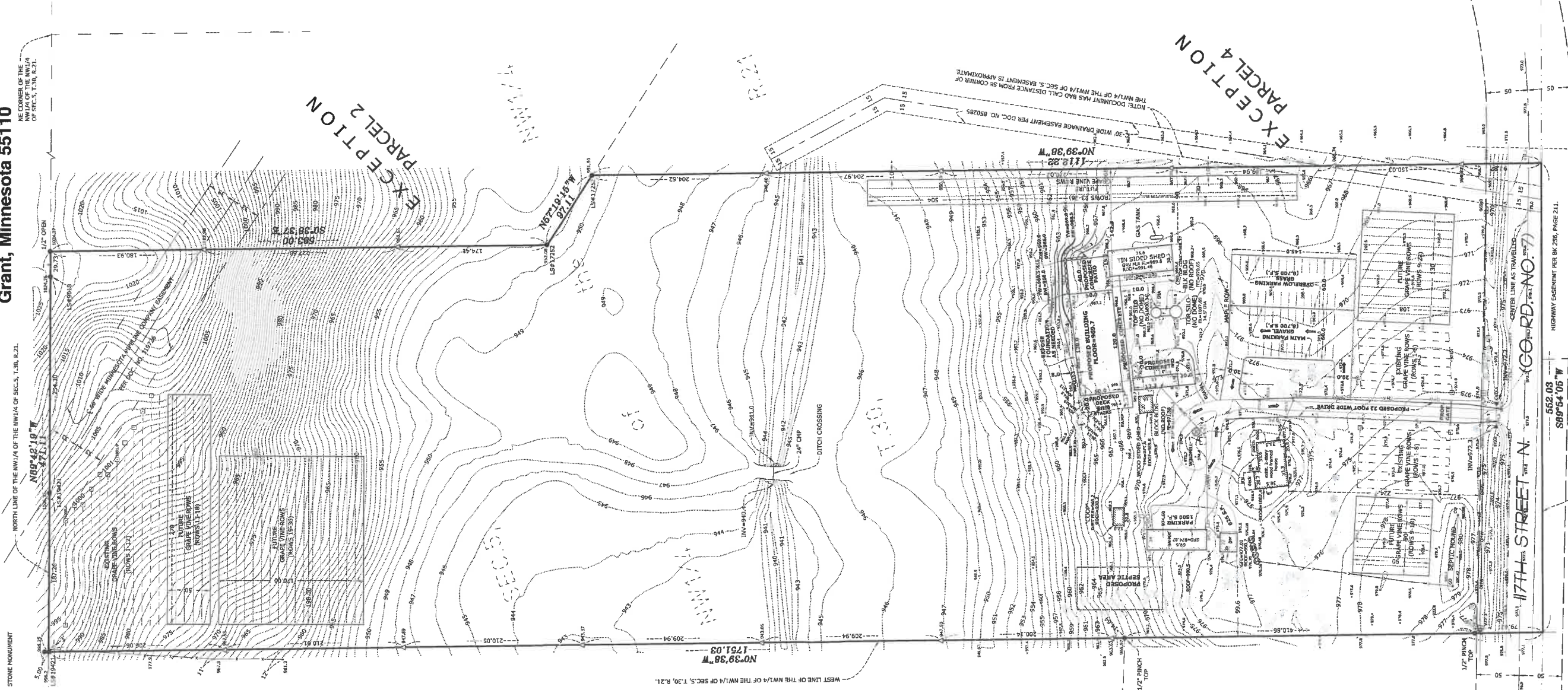
- DENOTES IRON MONUMENT FOUND AS LABELED
- DENOTES IRON MONUMENT SET, MARKED RLS# 41578
- △ DENOTES SET LARGE SPIKE
- DENOTES TELEPHONE PEDESTAL
- ⊞ DENOTES GAS SERVICE LOCATION
- DENOTES ELECTRIC METER SOCKET
- DENOTES POWER POLE
- DENOTES OVERHEAD WIRE
- DENOTES UNDERGROUND ELECTRIC LINE
- DENOTES STORM SEWER APRON
- DENOTES EXISTING SEWER LINE
- ⊙ DENOTES SEPTIC TANK MANHOLE
- ⊙ DENOTES CLEAN OUT
- ⊙ DENOTES WELL
- DENOTES EXISTING CONTOURS
- DENOTES EXISTING SPOT ELEVATION
- DENOTES WOVEN WIRE FENCE
- DENOTES RETAINING WALL
- DENOTES BITUMINOUS SURFACE
- DENOTES CONCRETE SURFACE
- DENOTES PROPOSED CONTOURS



I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

ASON E. RUD
Date: 5-29-2021 License No. 41579

18551BT



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TWO SILO FARMS WINERY/TASTING/TASTING/STORAGE BUILDING

GENERAL NOTES:

- GENERAL REQUIREMENTS
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB SITE CONDITIONS BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO EQUICOR ENGINEERS, HENCEFORTH REFERRED TO AS THE ENGINEER
- USE WRITTEN DIMENSIONS. DO NOT USE SCALED DIMENSIONS. WHERE NO DIMENSIONS PROVIDED, CONSULT THE ARCHITECT OR ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS AND LAYOUT OF THE EXISTING CONSTRUCTION AS REQUIRED TO COORDINATE THE ERECTION OF THE WORK SPECIFIED IN THESE DRAWINGS. EXISTING BUILDING ELEMENTS ARE IDENTIFIED FOR REFERENCE WITH THE PREFIX (E).
- DETAILS IN THE DRAWINGS PREFACED WITH THE TITLE "TYPICAL" MAY NOT NECESSARILY BE REFERENCED ON THE PLANS, BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE NO DETAIL IS REFERENCED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE RELEVANT TYPICAL DETAIL FROM THOSE PROVIDED.
- THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, SHORING OF EXISTING BUILDING ELEMENTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE ERECTION OF THE FRAMING AND OF THE LATERAL-LOAD-RESISTING SYSTEM IS COMPLETE.
- THE ENGINEER HOLDS NO LIABILITY FOR UNAUTHORIZED CHANGES TO THE CONSTRUCTION DOCUMENTS MADE BY THE OWNER, CONTRACTOR, BUILDING OFFICIAL, OR OTHER INVOLVED PARTY.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND FOR MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS, INCLUDING OSHA. THE CONTRACTOR SHALL EXECUTE THEIR WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY FALLING DEBRIS AND OTHER HAZARDS ASSOCIATED WITH THE WORK.
- UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS, SHOP DRAWINGS AND/OR SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION OR CONSTRUCTION RELATED TO THE FOLLOWING STRUCTURAL ITEMS:
 - CONCRETE MIX DESIGN
 - CONCRETE SLAB ON GRADE CONTROL JOINT PLANS
 - STRUCTURAL INSULATED PANELS
- DESIGN CRITERIA
 - BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE
 - GEOTECHNICAL AND GRAVITY DESIGN DATA
 - ALLOWABLE SOIL BEARING CAPACITY: 1500 PSF FOR GRAVITY LOADS, 2000 PSF FOR WIND AND SEISMIC LOADS
 - FLOOR LIVE LOAD: 40 PSF
 - GROUND SNOW LOAD, P_g : 50 PSF
 - ROOF SNOW LOAD, P_s : 40 PSF
 - SNOW EXPOSURE FACTOR, C_e : 1.0
 - SNOW LOAD IMPORTANCE FACTOR, I_s : 1.0
 - THERMAL FACTOR, C_t : 1.1
 - WIND DESIGN DATA
 - BASIC WIND SPEED: $V_{ult} = 110$ MPH, $V_{dir} = 85$ MPH
 - RISK CATEGORY: I
 - WIND EXPOSURE CATEGORY: C
 - INTERNAL PRESSURE COEFFICIENT: $GCF: +/- 0.18$
 - SEISMIC DESIGN DATA
 - RISK CATEGORY: II
 - SEISMIC IMPORTANCE FACTOR, I_p : 1.0
 - MAPPED SPECTRAL ACCELERATION, S_s : 0.049
 - MAPPED SPECTRAL ACCELERATION, S_1 : 0.046
 - SITE CLASS: D
 - DESIGN SPECTRAL ACCELERATION, S_{ds} : 0.052
 - DESIGN SPECTRAL ACCELERATION, S_{d1} : 0.074
 - SEISMIC DESIGN CATEGORY: A
- SHALLOW FOUNDATIONS
 - IF ANY OF THE FOLLOWING CONDITIONS ARE DISCOVERED DURING CONSTRUCTION AT THE BUILDING SITE, A GEOTECHNICAL INVESTIGATION SHALL BE COMMISSIONED IN ACCORDANCE WITH CHAPTER 18 OF THE IBC:
 - QUESTIONABLE SOIL
 - EXPANSIVE SOIL
 - GROUND WATER TABLE IS ABOVE OR WITHIN 5 FEET BELOW THE ELEVATION OF THE LOWEST FLOOR LEVEL WHERE SUCH FLOOR IS LOCATED BELOW THE FINISHED GROUND LEVEL ADJACENT TO THE FOUNDATION.
 - DEEP FOUNDATIONS
 - ROCK STRATA OF VARIABLE OR DOUBTFUL CHARACTERISTICS
 - EXCAVATIONS THAT WILL REMOVE THE LATERAL SUPPORT OF AN ADJACENT EXISTING FOUNDATION
 - USE OF COMPACTED FILL MATERIAL BELOW SHALLOW FOUNDATIONS IN EXCESS OF 12 INCHES IN DEPTH
 - USE OF CONTROLLED LOW-STRENGTH MATERIAL (CLSM)
 - ALTERNATE SETBACK AND CLEARANCE
 - SEISMIC DESIGN CATEGORIES C THROUGH F
 - EXCAVATION FOR ANY PURPOSE SHALL NOT REMOVE LATERAL SUPPORT FROM ANY FOUNDATION WITHOUT FIRST UNDERPINNING OR PROTECTING THE FOUNDATION AGAINST SETTLEMENT OR LATERAL TRANSLATION.
 - FOUNDATIONS SHALL BE BUILT ON UNDISTURBED SOIL OR COMPACTED FILL MATERIAL. 12 INCHES IN DEPTH. IF PROVIDED, COMPACTED FILL MATERIAL SHALL HAVE AN IN-PLACE DRY DENSITY NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D1557. IF THE COMPACTED FILL MATERIAL EXCEEDS 12 INCHES IN DEPTH OR CLEM IS USED, PLACEMENT SHALL COMPLY WITH THE PROVISIONS OF AN APPROVED GEOTECHNICAL INVESTIGATION AND REPORT.
 - THE BOTTOM OF ALL EXISTING FOOTINGS AND FOOTINGS SUSCEPTIBLE TO FROST HEAVE SHALL EXTEND A MINIMUM DEPTH BELOW LOWEST ADJACENT FINISHED GRADE OF 3'-6".
 - THE SUBGRADES OF SLABS ON GRADE SHALL BE STRIPPED, TILLED, AND RE-COMPACTED TO PRODUCE A UNIFORM SURFACE. THE SUBGRADE SHALL BE OVERLAIN WITH 6 INCHES, MINIMUM, OF CLEAN, DENSELY GRADED, CRUSHER-RUN BASE MATERIAL WITH A BALANCED FINE CONTENT THAT SATISFIES THE REQUIREMENTS OF ASTM D1241, TYPE 1 MIXTURE, GRADATION C. THE BASE MATERIAL SHALL BE COMPACTED TO A DRY DENSITY NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D1557. THE SURFACE OF THE BASE MATERIAL SHALL BE CHOKED OFF WITH SAND OR FINE GRAVEL AND COMPACTED TO PROVIDE A SMOOTH PLANAR SURFACE FOR THE CONCRETE SLAB ON GRADE.
 - PROVIDE A VAPOR RETARDER DIRECTLY BELOW THE SLAB AND ABOVE THE GRANULAR BASE MATERIAL. UNLESS NOTED OTHERWISE, THE VAPOR RETARDER SHALL COMPLY WITH ASTM E1745 AND SHALL BE 10 MILS THICK, MINIMUM.
 - THE EXCAVATION OUTSIDE THE FOUNDATION SHALL BE BACKFILLED WITH SOIL THAT IS FREE OF ORGANIC MATERIAL, CONSTRUCTION DEBRIS, COBBLES AND BOLLERS, OR WITH CLSM. THE BACKFILL SHALL BE PLACED IN 15% AND COMPACTED IN A MANNER THAT DOES NOT DAMAGE THE FOUNDATION OR THE WATERPROOFING OR DAMPROOFING MATERIAL, IF PRESENT. CLSM NEED NOT BE COMPACTED.

- DAMP-PROOFING AND FOUNDATION DRAINS SHALL BE PROVIDED FOR WALLS THAT RETAIN EARTH AND ENCLOSE EXTERIOR SPACES BELOW GRADE:
 - DAMP-PROOFING MATERIAL SHALL BE INSTALLED ON THE EXTERIOR SURFACE OF THE WALL, EXTENDING FROM THE TOP OF THE FOOTING TO ABOVE GROUND LEVEL. THE MATERIAL SHALL CONSIST OF A BITUMINOUS MATERIAL, 3 POUNDS PER SQUARE YARD OF ACRYLIC MODIFIED CEMENT, OR 1/8 INCH COAT OF SURFACE-BONDING MORTAR COMPLYING WITH ASTM C827. HOLES AND RECESSES IN CONCRETE WALLS RESULTING FROM THE REMOVAL OF FORM TIES SHALL BE SEALED PRIOR TO APPLYING DAMPROOFING.
 - THE FOUNDATION DRAIN SHALL BE PLACED AROUND THE PERIMETER OF THE FOUNDATION CONSISTING OF CRUSHER-RUN MATERIAL AND EXTENDING A MINIMUM OF 12 INCHES BEYOND THE OUTSIDE EDGE OF THE FOOTING. THE THICKNESS SHALL BE SUCH THAT THE BOTTOM OF THE DRAIN IS NOT HIGHER THAN THE BOTTOM OF THE BASE UNDER THE FLOOR, AND THAT THE TOP OF THE DRAIN IS NOT LESS THAN 6 INCHES ABOVE THE TOP OF THE FOOTING. THE TOP OF THE DRAIN SHALL BE COVERED WITH A FILTER MEDIUM MATERIAL.
 - WHERE THE GROUND-WATER TABLE IS ABOVE OR WITHIN 5 FEET OF THE BASEMENT FLOOR OR RETAINING WALL FOUNDATION, PROVISIONS FOR WATERPROOFING THE FLOOR AND WALLS SHALL BE COMMISSIONED OR A GROUND-WATER CONTROL SYSTEM SHALL BE PROVIDED, TO BE DESIGNED BY OTHERS.
 - COLD-WEATHER CONSTRUCTION
 - THE CONTRACTOR SHALL PRACTICE STANDARD COLD-WEATHER CONCRETE METHODS AS PER ACI 308.
 - CALCIUM CHLORIDE SHALL NOT BE USED AS AN ACCELERATING ADMIXTURE. CONCRETE DELIVERED TO THE SITE SHALL MEET THE TEMPERATURE REQUIREMENTS OF ASTM C94.
 - CONCRETE SHALL NOT BE PLACED UPON FROZEN SOILS OR SOILS WHICH CONTAIN FROZEN MATERIAL.
 - CONCRETE SHALL BE PROTECTED FROM FREEZING UNTIL THE SPECIFIED STRENGTH IS ATTAINED.
 - SOLE:
 - ALL SNOW AND ICE SHALL BE REMOVED FROM CUT AND FILL AREAS PRIOR TO ANY SITE WORK.
 - NO FOUNDATIONS OR FILL MATERIAL SHALL BE PLACED UPON SOILS WHICH ARE FROZEN OR CONTAIN FROZEN MATERIAL.
 - FILL OR FILL BEHIND SHALL BE COMPACTED IN AN UNFROZEN STATE, WHICH SUBSEQUENTLY BECOMES FROZEN, SHALL BE RE-COMPACTED AT THE SURFACE (AFTER THAWING), BEFORE PLACING ADDITIONAL LIFTS.
 - EXPOSED NATIVE SURFACES THAT BECOME FROZEN SHALL BE THAWED AND COMPACTED IN PLACE PRIOR TO FOOTING PLACEMENT.
 - NO FROZEN SOILS SHOULD BE USED AS FILL.
 - FOLLOWING PLACEMENT OF FOUNDATIONS, AND BEFORE PLACEMENT OF FILL THAT WILL PROVIDE FROST PROTECTION, FROST SHALL NOT BE PERMITTED TO PENETRATE BELOW FOUNDATIONS.
 - CAST-IN-PLACE CONCRETE
 - CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 301, UNLESS OTHERWISE NOTED.
 - REQUIRED COMPRESSIVE STRENGTH, f_c :
 - CONCRETE ELEMENTS EXPOSED TO THE EXTERIOR GROUND AND WEATHER OR UNCONDITIONED SPACE OF THE BUILDING: 5000 PSI AT 28 DAYS, NORMAL WEIGHT; MAXIMUM WATER TO CEMENT RATIO = 0.48.
 - CONCRETE ELEMENTS WITHIN THE CONDITIONED SPACE OF THE BUILDING: 4500 PSI AT 28 DAYS, NORMAL WEIGHT.
 - IF THE CONTRACTOR ELECTS TO REPLACE THE CEMENT IN THE CONCRETE MIX WITH HIGH-VOLUME FLY ASH, IT IS PERMISSIBLE TO ESTABLISH AT 28 DAYS. THE CONTRACTOR SHALL COORDINATE THE DURATION OF SHORING AND TEMPORARY BRACING ACCORDINGLY.
 - DURABILITY REQUIREMENTS:
 - CONCRETE ELEMENTS EXPOSED TO THE EXTERIOR GROUND AND WEATHER OR UNCONDITIONED SPACE OF THE BUILDING: PROVIDE TOTAL AIR CONTENT IN ACCORDANCE WITH EXPOSURE CLASS F1 IN ACCORDANCE WITH CHAPTER 19 OF THE IBC FOR THE FOLLOWING TABLE TOLERANCE ON AIR CONTENT AS DELINEATED SHALL BE $\pm 1.5\%$.

NOMINAL MAXIMUM AGGREGATE SIZE	TOTAL AIR CONTENT	
	EXPOSURE CLASS	F1
3/4"	5.5%	5.5%
1"	4.5%	4.5%
1 1/2"	4.5%	4.5%

 - ALL OTHER CONCRETE: NO REQUIREMENTS.
 - THE CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF CONSTRUCTION OR POUR JOINTS TO THE ARCHITECT AND ENGINEER FOR REVIEW.
 - ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS AND AT LOCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING CONCRETE TO 1/4" AMPLITUDE AND CLEAN OF LANTAGE, FOREIGN MATTER, AND LOOSE PARTICLES.
- REINFORCING STEEL:
 - TYPICAL REINFORCING: ASTM A615 GRADE 40 FOR #3 BARS, ASTM A615 GRADE 60 FOR #4 BARS TO #7 BARS, AND ASTM A706 GRADE 60 FOR #8 BARS AND LARGER.
 - REINFORCING TO BE WELDED: ASTM A706 GRADE 60 DEFORMED BAR ANCHORS: ASTM A1084, $F_y = 70$ KSI.
 - PROVIDE CLEARANCE AND COVER OF REBAR AS FOLLOWS, UNLESS OTHERWISE NOTED:
 - CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
 - FORMED SURFACES EXPOSED TO EARTH OR WEATHER, #3 BARS AND SMALLER: 1 1/2 INCHES
 - FORMED SURFACES EXPOSED TO EARTH OR WEATHER, #6 BARS AND LARGER: 2 INCHES
 - INTERIOR SLABS, WALLS, AND JOISTS: 3/4 INCHES
 - BEAMS AND COLUMNS: 1 1/2 INCHES TO TRANSVERSE REINFORCING
 - UNLESS OTHERWISE NOTED, REINFORCING BARS SHALL BE SPLICED WITH 50-BAR-DIAMETER LAPS, MINIMUM.
 - REINFORCING SHALL BE SUPPORTED PRIOR TO CONCRETING IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE, MSP-1.
 - REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 318.
 - WELDING OF REINFORCING IS PERMITTED ONLY WHERE SHOWN IN THE DRAWINGS. WELDING SHALL CONFORM TO AWS D1.4, STRUCTURAL WELDING CODE - STEEL.
- SLAB ON GRADE CONTROL JOINTS:
 - THE CONTRACTOR SHALL INSTALL TOoled OR SAWCUT CONTROL JOINTS IN THE CONCRETE SLABS ON GRADE. THE JOINTS SHALL BE 1/2" WIDE AND 1/4" DEEP, WHERE IT EQUALS THE SLAB THICKNESS.
 - THE JOINTS SHALL SUB-DIVIDE THE SLAB INTO PANELS WITH THE LONGER SIDE NO GREATER THAN 1.5 TIMES THE LENGTH OF THE SHORTER SIDE.
 - JOINTS IN INTERIOR SLABS SHALL BE SPACED AT NO FURTHER THAN 12'-0" APART AND JOINTS IN EXTERIOR SLABS SHALL BE SPACED AT NO FURTHER THAN 8'-0".
 - THE CONTRACTOR SHALL SUBMIT THEIR CONTROL JOINT PLAN TO THE ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO THE FIRST SLAB ON GRADE CONCRETE POUR.
 - WELDED WIRE REINFORCEMENT: ASTM A1084, SHEETS ONLY
 - FIBER-REINFORCED CONCRETE: ASTM C1118 TYPE B 4.1.1, 100% HOMOPOLYMER POLYPROPYLENE NO FIBERLATED FIBERS, 1.5 POUND PER CUBIC YARD, MINIMUM APPLICATION RATE

- POST-INSTALLED ANCHORS
 - ADHESIVE ANCHORS AND DOWELS IN CONCRETE: SET-UP (ICC-ES ESR-2508) OR AT-XP (APMO UES ESR-253) BY SIMPSON STRONG-TIE OR HT-47 200 (ICC-ES ESR-3187) BY HLT.
 - EXPANSION ANCHORS IN CONCRETE: STRONG-BOLT 2 (ICC-ES ESR-3037) BY SIMPSON STRONG-TIE OR KWIK-BOLT TZ (ICC-ES ESR-1917) BY HLT.
 - SCREW ANCHORS IN CONCRETE: TITEN HD (ICC-ES ESR-2713) BY SIMPSON STRONG-TIE OR KWIK-HUS-EZ (ICC-ES ESR-3072) BY HLT.
 - FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ALL POST-INSTALLED ANCHORS.
 - PROVIDE STAINLESS STEEL FASTENERS FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE ELECTROPLATED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS NOTED OTHERWISE.
 - IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF (2) ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOLID CONCRETE OR MASONRY BETWEEN THE ANCHOR AND THE ANCHORED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, SEEK GUIDANCE FROM THE ENGINEER.
 - LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH POST-INSTALLED ANCHORS.
 - SUBSTITUTIONS: SUBSTITUTE PRODUCTS SHALL HAVE AN ASSOCIATED ICC-ES OR IAPMO EVALUATION REPORT AND THE CONTRACTOR MUST DEMONSTRATE PERFORMANCE IS EQUIVALENT TO THE SPECIFIED PRODUCTS. SUBSTITUTIONS WILL NOT BE CONSIDERED UNLESS THIS INFORMATION IS SUBMITTED.
- WOOD FRAMING MEMBERS
 - SAWN LUMBER: NO. 2 DOUGLAS FIR/LARCH, WYPA GRADING RULES
 - ALL LUMBER SHALL BE KILN DRIED WITH A MOISTURE CONTENT LESS THAN 19%.
 - SLIS AND PLATES IN CONTACT WITH MASONRY OR CONCRETE, AND WITHIN 6" OF GRADE, SHALL BE PRESSURE-TREATED DOUGLAS FIR/LARCH. MUD SILL SHALL BE 2x MINIMUM THICKNESS OF THE SAME OR EQUAL LUMBER BEHIND MEMBERS. SHALL NOT EXCEED ONE SIXTH THE DEPTH OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.
 - WALL FRAMING SHALL BE 2x6 STUDS @ 16" O.C. UNLESS OTHERWISE NOTED. PROVIDE DOUBLE 2x6 TOP PLATE WITH MINIMUM 48" LAP SPLICE WITH (8) #16 COMMON NAILS MINIMUM, STAGGERED, UNLESS OTHERWISE NOTED.
 - PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITION WALLS, UNLESS OTHERWISE NOTED.
 - JOISTS AND RAFTERS SHALL HAVE A 1/2" MINIMUM BEARING OR SHALL BE SEATED IN METAL HANGERS.
 - BLOCKING SHALL BE SOLID 2x MATERIAL WITH THE SAME DEPTH AS THE JOIST OR RAFTER AND SHALL BE TIGHTLY FITTED BETWEEN JOISTS OR RAFTERS.
 - FASTEN BEAMS, COLUMNS, TRIMMER STUDS, AND KING STUDS COMPOSED OF MULTIPLE 2x MEMBERS WITH TWO ROWS OF 100 NAILS @ 12" ON CENTER THROUGH LENGTH OR HEIGHT, STAGGERED TO PREVENT SPLITTING, BETWEEN EACH PLY.
 - BUILT-UP 2x LUMBER BEAMS SHALL NOT BE SUBSTITUTED FOR SOLID TIMBER BEAMS.
 - TIMBERS: NO. 1 DOUGLAS FIR/LARCH, WYPA GRADING RULES
 - ALL TIMBERS USED IN THIS CONSTRUCTION SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 12 PERCENT BEFORE ASSEMBLING THE TRUSS.
 - GLUED LAMINATED TIMBER:
 - GLUED LAMINATED TIMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AITC A190.1 AND ASTM D3272.
 - GLUED LAMINATED TIMBER SHALL BE OF THE FOLLOWING GRADES, UNLESS NOTED OTHERWISE:
 - SINGLE SPAN MEMBERS: COMBINATION 24F-V4
 - MULTI-SPAN & CANTILEVERED MEMBERS: COMBINATION 24F-V8
 - ALL LAMINATED MEMBERS SHALL BE INDUSTRIAL APPEARANCE GRADE, UNLESS NOTED OTHERWISE.
 - ENGINEERED LUMBER
 - LAMINATED VENEER LUMBER (LVL):
 - MINIMUM DESIGN PROPERTIES FOR 1 3/4" WIDE MEMBERS: $F_b = 2,800$ PSI, $E = 2,000,000$ PSI, $F_v = 285$ PSI
 - MINIMUM DESIGN PROPERTIES FOR 3 1/2" WIDE MEMBERS: $F_b = 3100$ PSI, $E = 2,000,000$ PSI, $F_v = 310$ PSI
 - LVL MEMBERS SHALL NOT BE USED IN EXTERIOR APPLICATIONS OR AS MULTISPLANS.
 - FASTEN MULTIPLY LVL BEAMS OR JOISTS TOGETHER WITH TWO ROWS OF 100 NAILS @ 12" ON CENTER THROUGH LENGTH, STAGGERED TO PREVENT SPLITTING, BETWEEN EACH PLY. PROVIDE (9) ADDITIONAL 100 NAILS BETWEEN EACH PLY, DISTRIBUTED CLOSELY TO THE VICINITY OF CONCENTRATED LOADS ON MEMBERS FROM FLUSH-SUPPORTED BEAMS OR JOISTS.
 - PARALLEL STRAND LUMBER (PSL):
 - MINIMUM DESIGN PROPERTIES: $F_b = 2500$ PSI, $E = 2,000,000$ PSI, $F_v = 290$ PSI
 - PSL MEMBERS USED IN EXTERIOR APPLICATIONS, OR AGAINST CONCRETE, SHALL BE APPROVED BY THE MANUFACTURER FOR USE IN THE EXPOSURE CONDITION TO WHICH THEY ARE SUBMITTED.
 - LAMINATED STRAND LUMBER (LSL):
 - MINIMUM DESIGN PROPERTIES: $F_b = 2325$ PSI, $E = 1,500,000$ PSI, $F_v = 310$ PSI
 - PREFABRICATED WOOD JOISTS:
 - WOOD JOISTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM D6658.
 - JOIST TYPES AND SIZES SHALL BE AS INDICATED ON THE PLANS, OR WRITTEN APPROVED EQUALS.
 - JOISTS SHALL HAVE LOAD-CARRYING CAPACITY IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED LOAD TABLES. INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AS DETAILED; USE THE MORE STRINGENT CONDITION.
 - FLOOR SHEATHING SHALL BE GLEUED AND NAILED CONTINUOUSLY TO THE TOP FLANGE OF ALL JOISTS AS SPECIFIED ON THE PLANS AND IN THESE NOTES.
 - SUBMIT SHOP DRAWINGS OF LAYOUT AND REQUIRED CONNECTION DETAILS FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION.
 - PREFABRICATED WOOD TRUSSES:
 - TRUSS LOADS UNLESS NOTED OTHERWISE ON DRAWINGS:
 - TOP CHORD SNOW LOAD = 40 PSF
 - TOP CHORD DEAD LOAD = 18 PSF
 - BOTTOM CHORD LIVE LOAD = 0 PSF
 - BOTTOM CHORD DEAD LOAD = 5 PSF
 - NET WIND UPLIFT (FOR LOAD COMBINATION 0.6 x DEAD - 0.8 x WIND) = 0 PSF AT INTERIOR REGIONS, 18 PSF WITHIN 10 FEET OF AND PARALLEL TO ROOF EDGES, AND 23.5 PSF WITHIN 10 FEET IN ANY DIRECTION FROM ROOF CORNERS.
 - REVIEW THE PLANS AND DETAILS FOR SPECIAL LOADS INCLUDING, BUT NOT LIMITED TO, REACTIONS FROM PARAPET WALLS, MECHANICAL UNITS, AND AXIAL LOADS FROM SEISMIC CROSS-TIES AND DRAG STRUTS.
 - TRUSSES TO BE FABRICATED BY A CERTIFIED MEMBER OF THE TRUSS PLATE INSTITUTE. DESIGN, FABRICATION, AND ERECTION TO CONFORM TO ANSI/TPI 1.
 - TRUSS SUBMITTAL PACKAGE: THE TRUSS SUBMITTAL PACKAGE PROVIDED BY

- FASTENERS AND FRAMING ANCHORS AND CONNECTORS:
 - NAILS: COMMON WIRE NAILS
 - 8d = 0.131" DIA. x 2 1/2" LONG
 - 10d = 0.148" DIA. x 3" LONG
 - 16d = 0.182" DIA. x 3 1/2" LONG
 - LAG BOLTS AND THRU-BOLTS: ASTM A307
 - THRU-BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT DIAMETER.
 - PROVIDE STANDARD CUT WASHER UNDER ALL HEAD AND NUTS FOR BOLTS BEARING ON WOOD.
 - INSTALL LAG BOLTS IN DRILLED PILOT HOLES EQUAL TO 3/4 TIMES THE BOLT SHANK DIAMETER. DO NOT HAMMER OR OVERDRIVE BOLTS. PROVIDE STANDARD CUT WASHER UNDER ALL LAG BOLT HEADS BEARING ON WOOD.
 - WOOD SCREWS: AS SPECIFIED ON PLANS
 - FRAMING ANCHORS AND CONNECTORS: SIMPSON STRONG-TIE, ICC-ES ESR 2523, OR APPROVED EQUAL.
 - METAL CONNECTORS AND TREATED LUMBER:
 - ALL METAL CONNECTORS IN CONTACT WITH TREATED LUMBER SHALL BE STAINLESS STEEL, BATCHPOST HOT-DIP GALVANIZED PER ASTM A123 OR A153, OR PROPRIETARY EQUIVALENT.
 - FASTENERS ARE TO MATCH THE FINISH AND MATERIAL OF THE CONNECTORS.
 - CUTTING, BORING, AND NOTCHING OF WOOD MEMBERS:
 - STUDS:
 - IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD MAY BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40 PERCENT OF THE WIDTH OF THE STUD IS PERMITTED IN NON-BEARING PARTITIONS SUPPORTING NO LOADS OTHER THAN THE WEIGHT OF THE PARTITION.
 - A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH MAY BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60 PERCENT OF THE WIDTH OF THE STUD IS PERMITTED IN NON-BEARING PARTITIONS OR IN ANY WALL WHERE EACH BORED STUD IS DOUBLED. PROVIDED NOT MORE THAN TWO SUCH SUCCESSIVE DOUBLED STUDS ARE 90 BORED. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 50 BORED TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.
 - JOISTS AND RAFTERS:
 - NOTCHES AT THE ENDS OF JOISTS AND RAFTERS SHALL NOT EXCEED ONE FOURTH THE DEPTH. NOTCHES IN THE TOP OR BOTTOM OF JOISTS OR RAFTERS SHALL NOT EXCEED ONE SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE ONE THIRD OF THE SPAN, EXCEPT THAT A NOTCH NOT EXCEEDING ONE THIRD OF THE DEPTH IS PERMITTED IN THE TOP OF A RAFTER OR CEILING JOIST NOT FURTHER FROM THE FACE OF THE SUPPORT THAN THE DEPTH OF THE MEMBER.
 - HOLE BORED IN JOISTS OR RAFTERS SHALL NOT BE WITHIN 2 INCHES OF THE TOP AND BOTTOM AND THEIR DIAMETER SHALL NOT EXCEED ONE THIRD THE DEPTH OF THE MEMBER.
 - BEAMS:
 - NOTCHES ARE NOT PERMITTED UNLESS APPROVED OR DETAILED BY THE ENGINEER. SUBJECT TO THE FOLLOWING LIMITATIONS, NOTCHES IN SAWS LUMBER BEHIND MEMBERS SHALL NOT EXCEED ONE SIXTH THE DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. WHERE MEMBERS ARE NOTCHED AT THE ENDS, THE NOTCH DEPTH SHALL NOT EXCEED ONE FOURTH THE BEAM DEPTH. THE TENSION SIDE OF SAWS LUMBER BEHIND MEMBERS OF 4 INCHES IN NOMINAL THICKNESS SHALL NOT BE NOTCHED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
 - HOLE FOR PIPES, ETC. SHALL NOT BE BORED IN SAWS LUMBER BEHIND MEMBERS OF 4 INCHES OR GREATER WITHOUT SPECIFIC DETAILS FROM THE ENGINEER.
 - ENGINEERED LUMBER AND PREFABRICATED WOOD JOISTS: CONFORM TO MANUFACTURER'S RESTRICTIONS FOR CUTTING, BORING, AND NOTCHING.
- GENERAL:
 - FOR CONNECTIONS FOR WOOD MEMBERS NOT SHOWN ON THESE DRAWINGS OR IN THESE NOTES, USE THE IBC FASTENING SCHEDULE, TABLE 2304.10.1.
 - ALL EXTERIOR WOOD SHALL BE PRESSURE TREATED, PAINTED OR STAINED. MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE OWNER. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR EXTERIOR APPLICATIONS.
 - ALL NON-BEARING WALLS BELOW FLOOR FRAMING AND PREFABRICATED TRUSSES SHALL BE SLP CONNECTED TO ALLOW FOR POTENTIAL FRAMING DEFLECTION.
- STRUCTURAL INSULATED PANELS
 - PANEL TYPES AND SIZES SHALL BE AS INDICATED ON THESE DRAWINGS AS MANUFACTURED BY ENERCEPT, INC. CONFORMING TO ICC-ES ESR-688.
 - PANEL INSTALLATION AND PANEL TO PANEL CONNECTIONS SHALL CONFORM TO THE ICC-ES REPORT OR SPECIFIC DETAILS ON THESE DRAWINGS, WHICHEVER IS MORE STRINGENT.
 - TYPICAL FLOOR OR ROOF PANEL ATTACHMENT SPACING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE: 12" O.C. TO ALL SUPPORTING FRAMING MEMBERS.
 - SUBSTITUTIONS: SUBSTITUTE PANELS SHALL HAVE AN ASSOCIATED ICC-ES OR IAPMO EVALUATION REPORT AND THE CONTRACTOR MUST DEMONSTRATE PANEL PERFORMANCE IS EQUIVALENT TO THE SPECIFIED PRODUCT.
- STATEMENT OF SPECIAL INSPECTIONS
 - SPECIAL INSPECTION OF CONCRETE CONSTRUCTION
 - ALL CONCRETE CONSTRUCTION IS MINOR IN NATURE, THEREFORE STRUCTURAL TEST AND SPECIAL INSPECTION ARE NOT REQUIRED.
 - SPECIAL INSPECTION OF WOOD AND SP CONSTRUCTION
 - ALL WOOD AND SP CONSTRUCTION IS MINOR IN NATURE, THEREFORE STRUCTURAL TEST AND SPECIAL INSPECTION ARE NOT REQUIRED.
- DEFERRED SUBMITTALS
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED FOR THE FOLLOWING DEFERRED DESIGN ITEMS. UPON REVIEW AND ACCEPTANCE OF THE SUBMITTAL, THE ENGINEER AND ARCHITECT WILL FORWARD THE DOCUMENTS TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
 - PREFABRICATED WOOD TRUSSES - (MAIN BUILDING - STARWOOD RAFTERS)
 - PREFABRICATED WOOD TRUSSES - (GLDO. ENTRANCE TRUSSES)
 - STRUCTURAL INSULATED PANELS
 - ANCHORAGE OF MECHANICAL ELECTRICAL, PLUMBING, OR MISCELLANEOUS EQUIPMENT WEIGHING MORE THAN 400 POUNDS

NUMBER	DESCRIPTION
(A1)	ELEVATIONS
(A2)	ELEVATIONS
(A3)	MAIN FLOOR PLAN
(A4)	DECK PLANS & CAPACITY NUMBERS
(A5)	FINISH PLAN & CAPACITY NUMBERS
(A6)	INTERIOR ELEVATIONS AND SCHEDULES
(A7)	BUILDING SECTIONS
(E1)	ELECTRICAL PLAN
(S1)	FOUNDATION PLAN
(S2)	MAIN FLOOR FRAMING PLAN
(S3)	DECK FOUNDATION & FRAMING PLAN
(S4)	SHEAR WALL PLAN
(S5)	CEILING FRAMING PLAN
(S6)	DETAILS

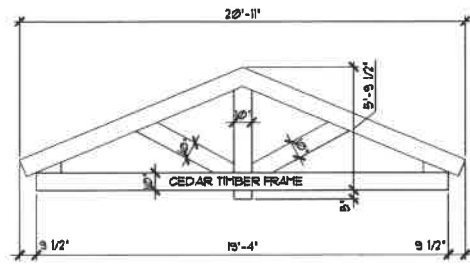
PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: TROY LEISTICO
Signature: [Signature]
Date: 8/11/2021 License # 26322
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Digitally signed by Troy Leistico
DN: cn=Troy Leistico, o=Equicor Engineers, Inc., email=Troy.Leistico@equicor.com, c=US
Date: 2021.08.11 18:26:17-0500

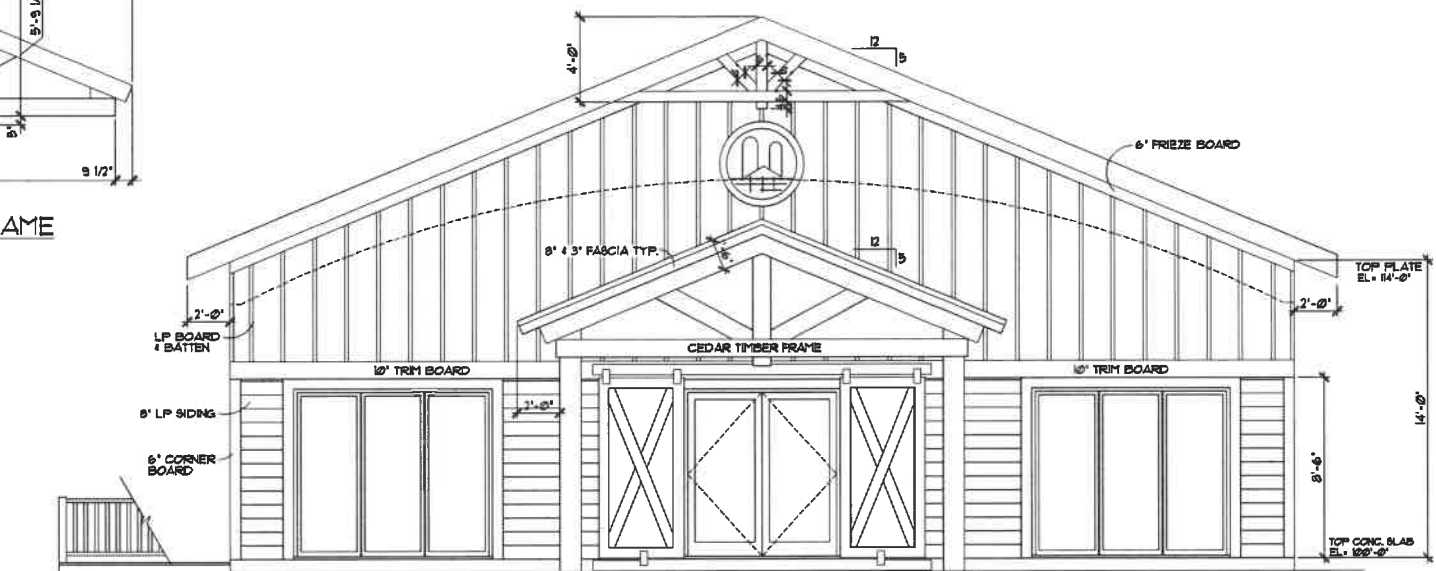
TWO SILO WINE TASTING & STORAGE BUILDING
TWO SILO WINERY 4 VINEYARD 10-40 11TH STREET, WHITE BEAR LAKE MN 55401

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8/10/21

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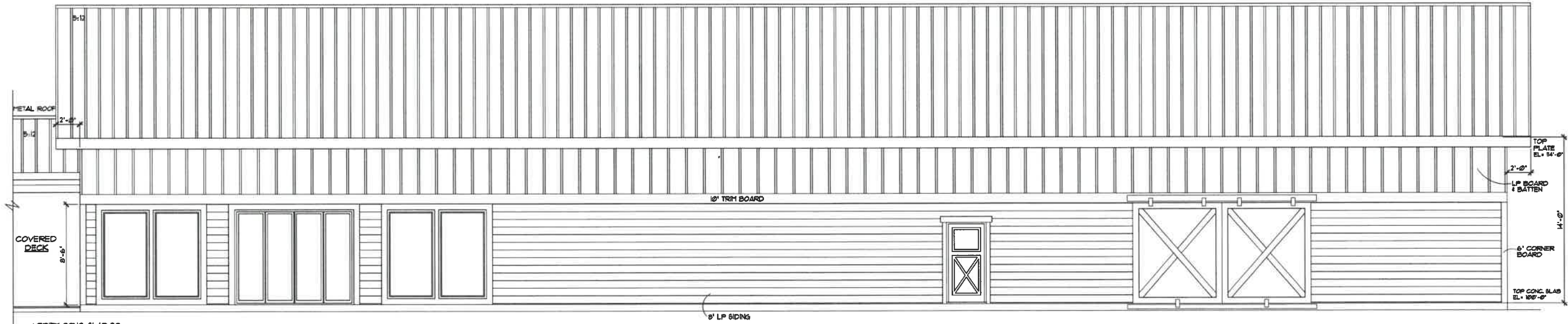
CEDAR TIMBER FRAME
1/4"=1'-0"



FRONT ELEVATION
1/4"=1'-0"

- EXTERIOR NOTES**
* ELEVATIONS ARE DESIGNER'S INTERPRETATION AND FINAL ELEVATIONS MAY VARY FROM DRAWING.
- FLASHING NOTES**
- KICKOUT FLASHING TO BE INSTALLED AS NEEDED BY ROOFING CONTRACTOR
 - EXTERIOR WALL FINISHER TO VERIFY THAT KICKOUT FLASHING IS INSTALLED PRIOR TO FINISHING
 - CARPENTER TO FLASH ALL EXTERIOR WINDOWS & DOORS PER MINNESOTA & 2018 IRC CODE REQUIREMENTS
- WINDOW NOTES**
- GENERIC WINDOW SIZES/R/O ARE SHOWN ON PLAN (OWNER/CONTRACTOR TO VERIFY WINDOW BRAND FOR CORRECT ROUGH OPENINGS)
- CODE MIN U VALUE = 0.32 MIN. STIC = 0.35
 - SUBMITTER TO PROVIDE WINDOW ORDER LIST WITH U FACTOR, SGC, & STC RATING FOR EACH WINDOW & EXTERIOR DOOR
 - SUBMITTER TO VERIFY ALL WINDOW, DOOR & OPENING HEADER HEIGHTS.
- EXT. FINISHING NOTES**
- LP SMART BOARD LAP SIDING AND BOARD & BATTEN SIDING
 - ALUMINUM SOFFIT AND FASCIA UNLESS NOTED OTHERWISE
 - 6" LP SMART BOARD DOOR & WINDOW TRIM
 - METAL ROOF

PROFESSIONAL ENGINEER
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Signature: *[Signature]*
Date: **8/11/2021** License # **26322**
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RIGHT ELEVATION
1/4"=1'-0"

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XX/XXXX 0000 BY:XX

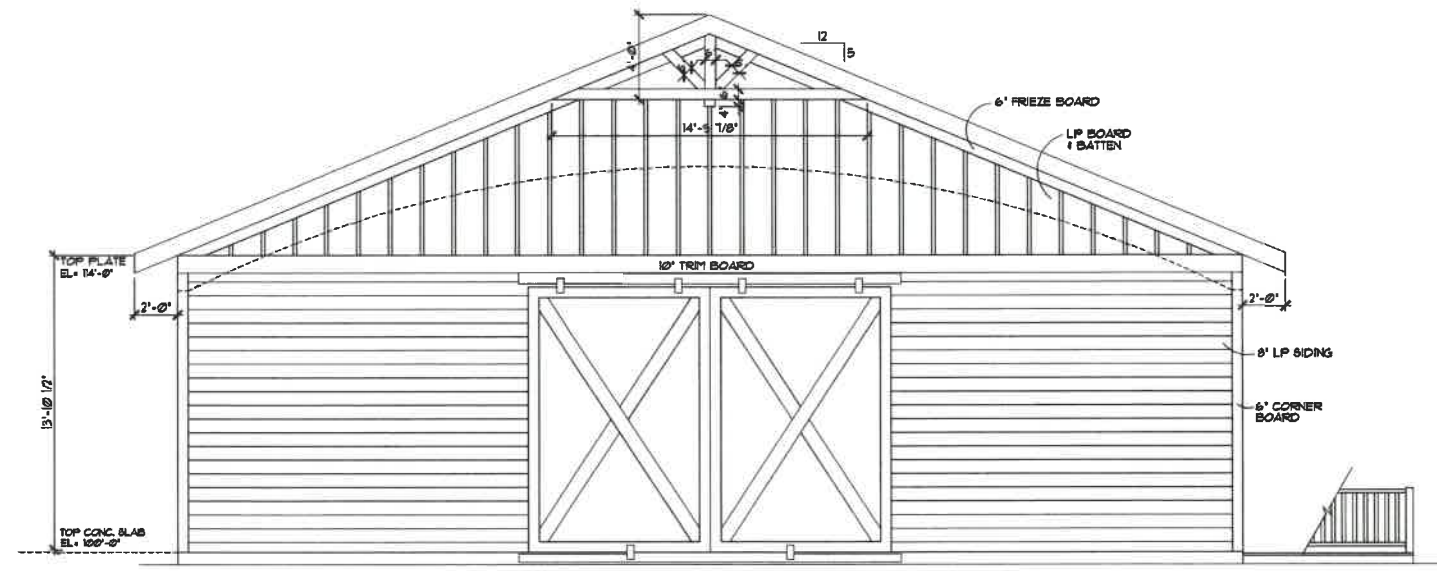
TWO SILO WINE TASTING & STORAGE BUILDING
 TWO SILO WINERY & VINEYARD, 10440 11TH STREET, WHITE BEAR LAKE MN 55110

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(A1)
 OF 9
 DATE:
 08/10/21

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LEFT ELEVATION
1/4"=1'-0"



REAR ELEVATION
1/4"=1'-0"

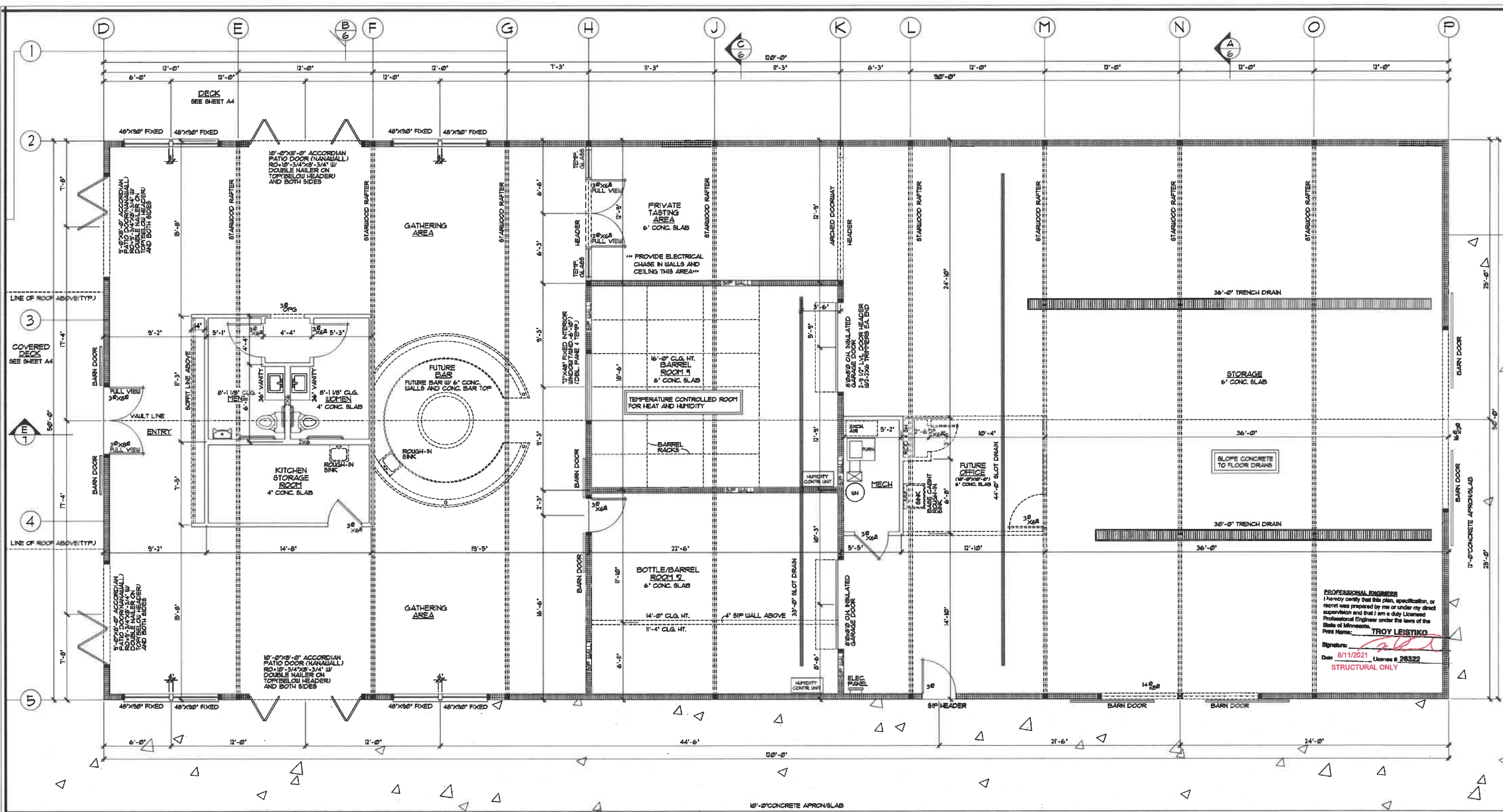
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EXTERIOR NOTES	
* ELEVATIONS ARE DESIGNERS INTERPRETATION AND FINAL ELEVATIONS MAY VARY FROM DRAWING.	
FLASHING NOTES	
• KICKOUT FLASHING TO BE INSTALLED AS NEEDED BY ROOFING CONTRACTOR	
• EXTERIOR WALL FINISHER TO VERIFY THAT KICKOUT FLASHING IS INSTALLED PRIOR TO FINISHING	
• CARPENTER TO FLASH ALL EXTERIOR WINDOWS & DOORS PER MINNESOTA & 2018 IRC CODE REQUIREMENTS	
WINDOW NOTES	
GENERIC WINDOW SIZES/RLD ARE SHOWN ON PLAN (OWNER/CONTRACTOR TO VERIFY WINDOW BRAND FOR CORRECT ROUGH OPENINGS)	
•• CODE MIN. U VALUE = 0.32 MIN. STIC = 0.35	
• BUILDER TO PROVIDE WINDOW ORDER LIST WITH U FACTOR, SGHC, & STC RATING FOR EACH WINDOW & EXTERIOR DOOR	
• BUILDER TO VERIFY ALL WINDOW, DOOR & OPENING HEADER HEIGHTS	
EXT. FINISHING NOTES	
• LP SMART BOARD LAP SIDING AND BOARD & BATTEN SIDING	
• ALUMINUM SOFFIT AND FASCIA UNLESS NOTED OTHERWISE	
• 6" LP SMART BOARD DOOR & WINDOW TRIM	
• METAL ROOF	

TWO SILO WINE TASTING & STORAGE BUILDING
TWO SILO WINERY & VINEYARD 1040 11TH STREET, WHITE BEAR LAKE MN 55110

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OF 9
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08/10/21

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Date: **8/11/2021** License # **26322**
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MAIN FLOOR WINERY TASTE TESTING/STORAGE FLOOR PLAN
1/4" = 1'-0"
6000 SQ. FT.

WALL TYPE LEGEND	
	SIP WALL
	2x WALLS

MAIN FLOOR PLAN

SCALE: 1/4" = 1'-0"
EXTERIOR DIMENSIONS ARE SHEATHING TO SHEATHING

MAIN FLOOR FINISHED 6000 SQ. FT.

- WINDOW & DOOR NOTES**
- GENERIC WINDOW SIZES/R.O. ARE SHOWN ON PLAN (OWNER/CONTRACTOR TO VERIFY WINDOW BRAND FOR CORRECT ROUGH OPENINGS)
 - CODE MIN. U VALUE = 0.32 MIN. SHGC = 0.35
 - ALL TOP OF WINDOWS SET @ 7'-0" UNLESS NOTED OTHERWISE
 - BUILDER TO PROVIDE WINDOW ORDER LIST WITH U FACTOR, SHGC, & STC RATING FOR EACH WINDOW & EXTERIOR DOOR
 - BUILDER TO VERIFY ALL WINDOW, DOOR & OPENING HDR. HITS
 - FP = PROVIDE FALL PROTECTION @ OPERATING WINDOWS
 - ALL DOORS ARE 6'-0" TALL UNLESS NOTED OTHERWISE

- GUARDRAIL NOTES**
- GUARDRAIL REQUIRED ON OPEN SIDE OF ANY STAIR MORE THAN 30" ABOVE FLOOR
 - ALL SPACES/OPENINGS MUST BE LESS THAN 4" AT ALL GUARDRAILS

FRAMING NOTES

- EXTERIOR WALLS ARE TO BE ENERGETIC NOMINAL 6" SIPS
- PROVIDE LVL/SOL SOLID BLOCKING AT ALL POINT LOADS, SUPPORT BEAMS, BRACINGS, AND CROSS TRUSSES TO FOUNDATION
- PROVIDE FIREBLOCKING VERTICALLY @ CEILING & FLOORS & HORIZONTALLY @ INTERVALS NOT EXCEEDING 10'-0" (CONCEALED SPACES @ SOFFITS, DROPPED CEILING, BETWEEN STAIR STRINGERS & BETWEEN STORES)
- PROVIDE DRAFT STOPPING BETWEEN STORES DIVIDED INTO APPROXIMATELY EQUAL SPACES NOT EXCEEDING 1,000 SQ. FT.
- ALL SPRAY FOAM INSULATION MUST BE COVERED BY MIN. 1" GYP. BD AT HABITABLE AREAS

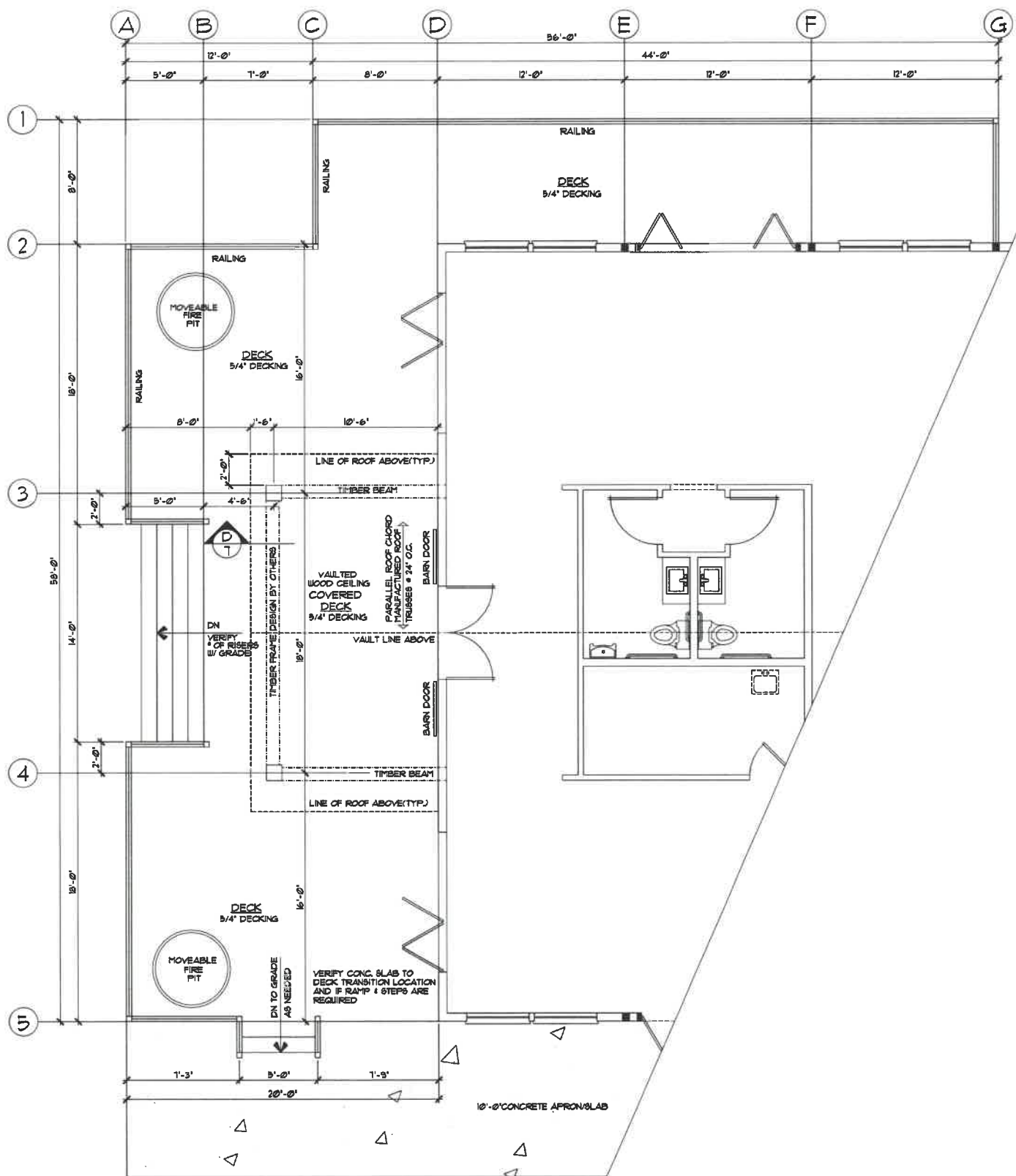
SMOKE AND CARBON MONOXIDE DETECTORS

- PROVIDE SMOKE DETECTORS IN EVERY BEDROOM & ANY CORRIDOR PROVIDING ACCESS TO BEDROOMS ON EACH FLOOR INCLUDING THE BASEMENT, & IN ANY ROOM THAT HAS A CEILING HEIGHT MORE THAN 24" HIGHER THAN A CORRIDOR PROVIDING ACCESS TO THE BEDROOMS
- PROVIDE CARBON MONOXIDE DETECTORS WITHIN 10'-0" OF ALL BEDROOMS

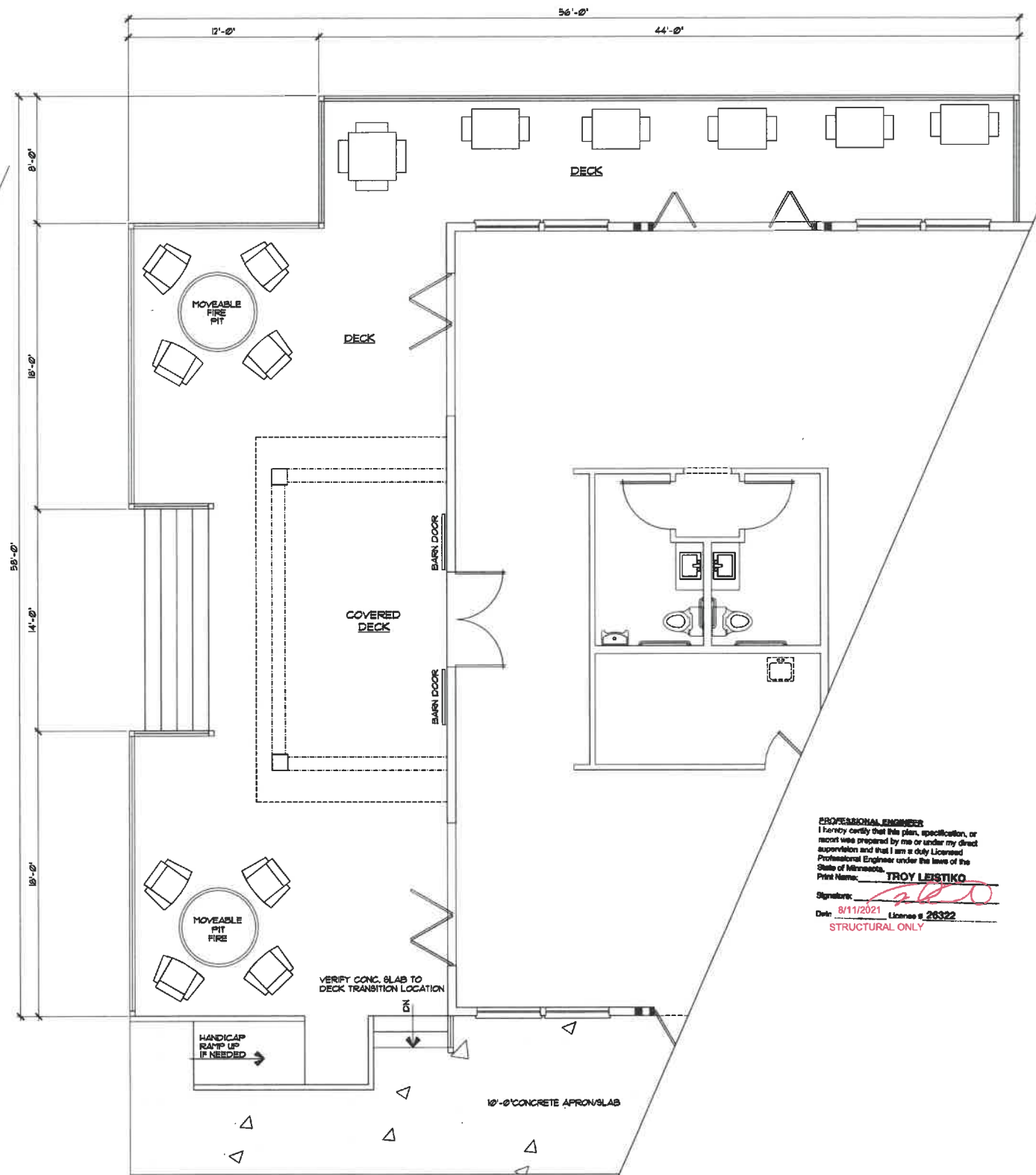
TWO SILO WINE TASTING & STORAGE BUILDING
TWO SILO WINERY & VINEYARD 1040 11TH STREET, WHITE BEAR LAKE MN 55980

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OF 9
DATE:
8/10/21

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



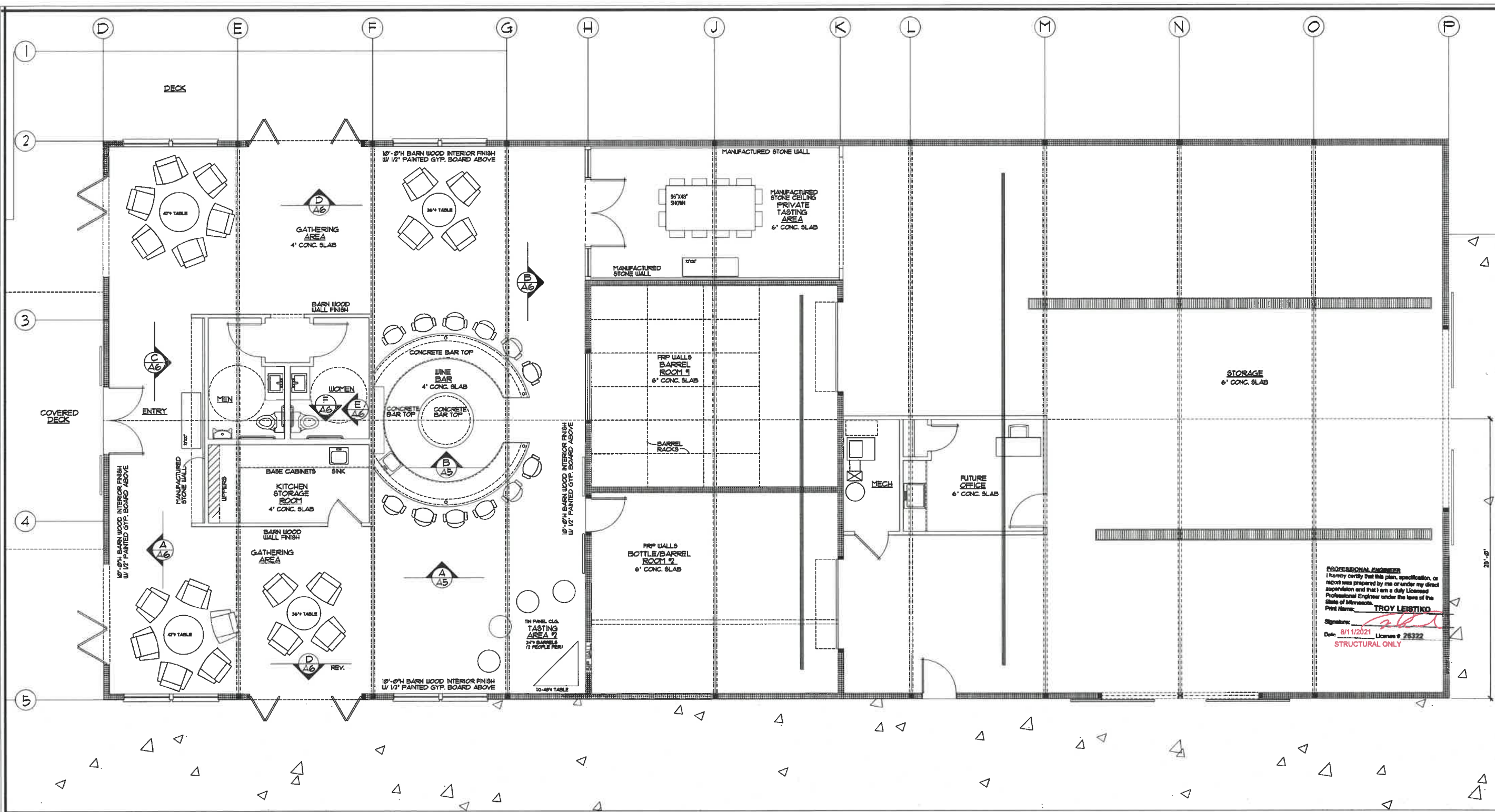

OCCUPANCY = 22 PEOPLE
FINISHED DECK PLAN
 1/4"=1'-0"

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 Print Name: **TROY LEISTIKO**
 Signature: 
 Date: 8/11/2021 License # 26322
 STRUCTURAL ONLY

TWO SILO WINE TASTING & STORAGE BUILDING
 TWO SILO WINERY • VINEYARD 1040 11TH STREET, WHITE BEAR LAKE MN 55110

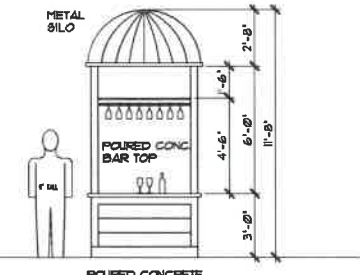
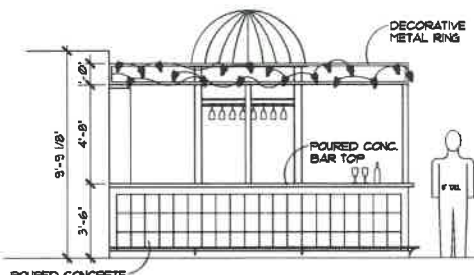
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 OF 9
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 08/10/21

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XX/XX/XX BY:XX
XX/XX/XX BY:XX



PROFESSIONAL ENGINEER
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Signature: *[Signature]*
Date: 8/11/2021 License # 26322
STRUCTURAL ONLY

TWO SILO WINE TASTING & STORAGE BUILDING
TWO SILO WINERY • VINEYARD: 1040 11TH STREET, WHITE BEAR LAKE MN 55110



OCCUPANCY = 52 PEOPLE
FINISHED WINERY TASTE TESTING/STORAGE FLOOR PLAN
1/4" = 1'-0" 6200 SQ. FT.

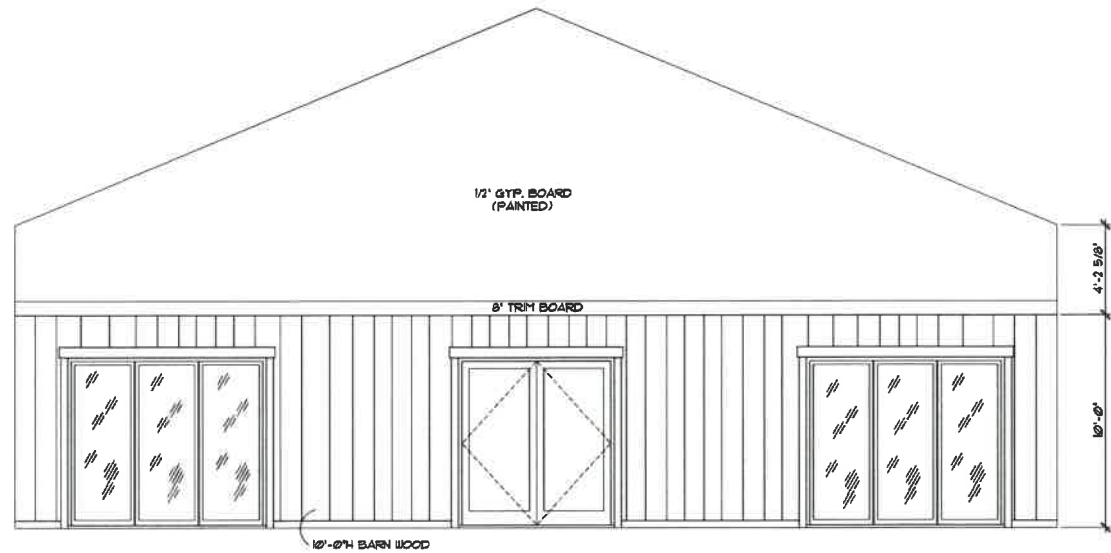


NORTH

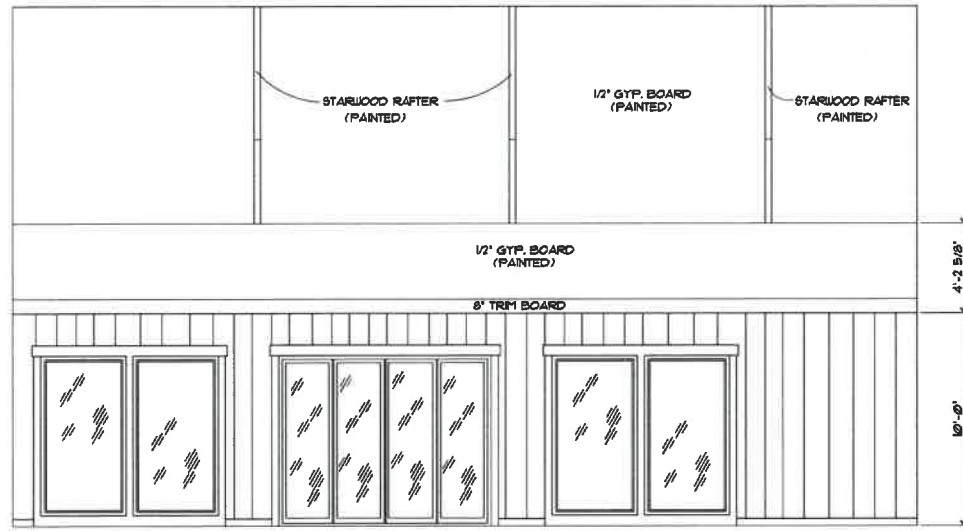
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A FUTURE WINE BAR

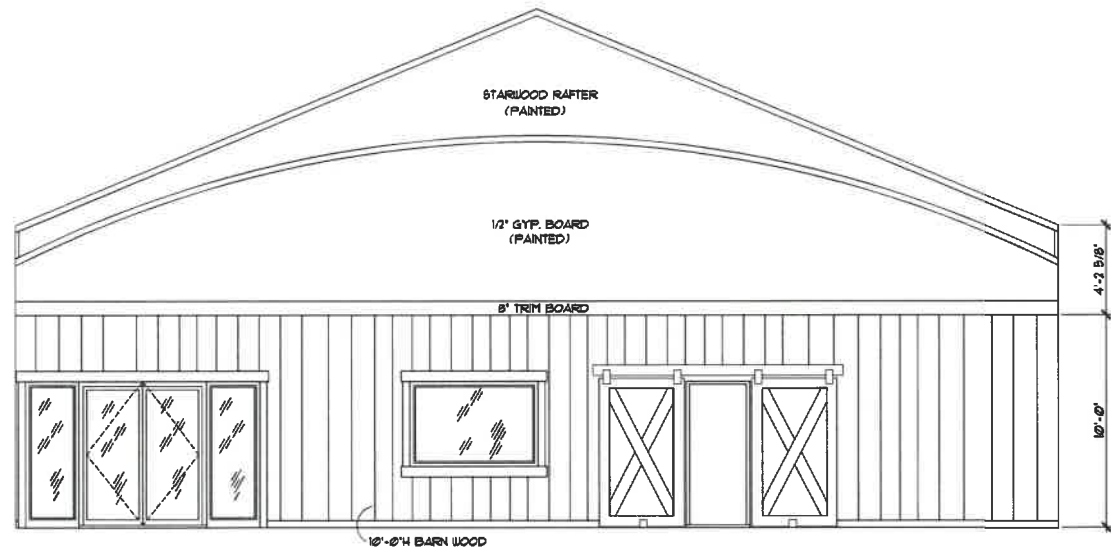
B FUTURE CENTER SILO



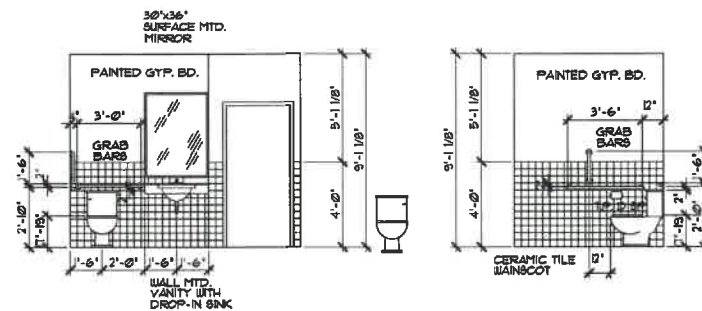
A FRONT INTERIOR WALL ELEVATION @ GRID D
1/4" = 1'-0"



D GATHERING SPACE WALL ELEVATION @ GRID 2 & 5
1/4" = 1'-0"

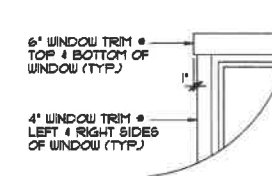


B INTERIOR WALL ELEVATION @ GRID H
1/4" = 1'-0"

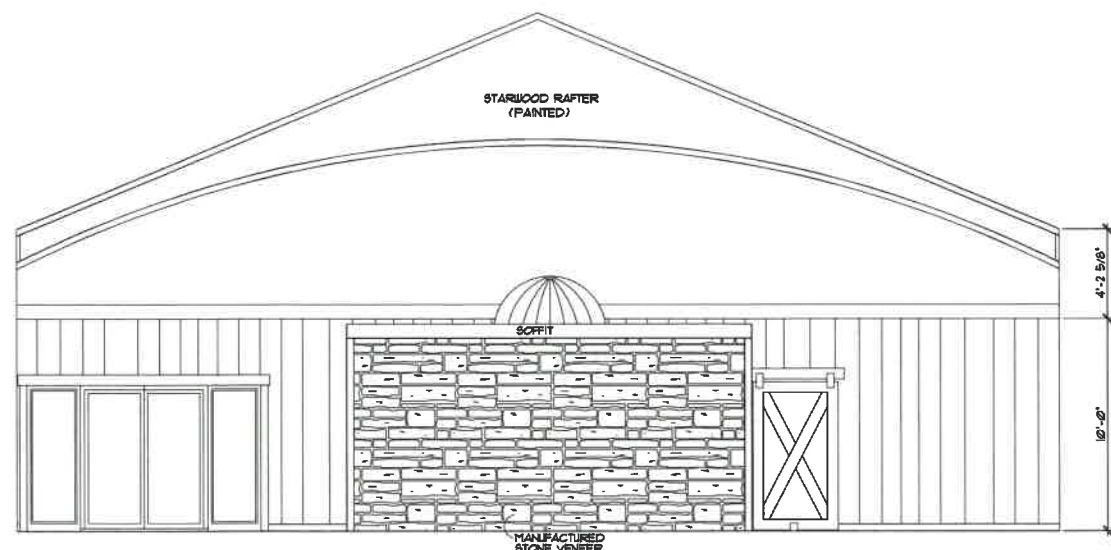


E FRONT BATHROOM WALL
1/4" = 1'-0"

F SIDE BATHROOM WALL
1/4" = 1'-0"



OPTIONAL INTERIOR WINDOW & DOOR TRIM DETAIL
1/2" = 1'-0"



C INTERIOR FOYER WALL ELEVATION
1/4" = 1'-0"

ROOM FINISH SCHEDULE

ROOM	FLOOR	WALL	CEILING
ENTRY	POLISHED CONCRETE	GYP. BOARD BARN WOOD MANUF. STONE	PAINTED OSB
MEN'S ROOM	CERAMIC TILE	C. TILE WAINSCOT PAINTED GYPSUM BOARD ABOVE	ACOUSTICAL TILE
WOMEN'S ROOM	CERAMIC TILE	C. TILE WAINSCOT PAINTED GYPSUM BOARD ABOVE	ACOUSTICAL TILE
STORAGE ROOM	POLISHED CONCRETE	PAINTED GYPSUM BOARD	ACOUSTICAL TILE
FUTURE WINE BAR	POLISHED CONCRETE FLOOR	POLISHED CONCRETE BAR TOP	CIRCULAR POURED CONCRETE
GATHERING AREA	POLISHED CONCRETE	10'-0" BARN WOOD PAINTED GYPSUM BOARD ABOVE	PAINTED OSB
PRIVATE TASTING ROOM	POLISHED CONCRETE	MANUF. STONE	MANUF. STONE
TASTING AREA #2	POLISHED CONCRETE	10'-0" BARN WOOD PAINTED GYPSUM BOARD ABOVE	TIN PANELS PAINTED TRUSSES
BARREL ROOM #1	EPOXY COATED CONCRETE	FRP	PAINTED OSB
BARREL ROOM #2	EPOXY COATED CONCRETE	FRP	PAINTED OSB
FUTURE OFFICE	SEALED CONCRETE	PAINTED GYPSUM BOARD	ACOUSTICAL TILE
MECHANICAL ROOM	SEALED CONCRETE	PAINTED GYPSUM BOARD	ACOUSTICAL TILE
WAREHOUSE/STORAGE	SEALED CONCRETE	PAINTED OSB	PAINTED OSB
FOYER WALL	POLISHED CONCRETE	MANUF. STONE	PAINTED OSB

EQUIPMENT LIST (TBD)

APPLIANCE	MAKE	MODEL	# UNITS
WINE REFRIGERATION			
HAND WASHING SINK			
WARE WASHER			

PROFESSIONAL ENGINEER
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Print Name: **TROY LEISTIKO**
Signature: *[Signature]*
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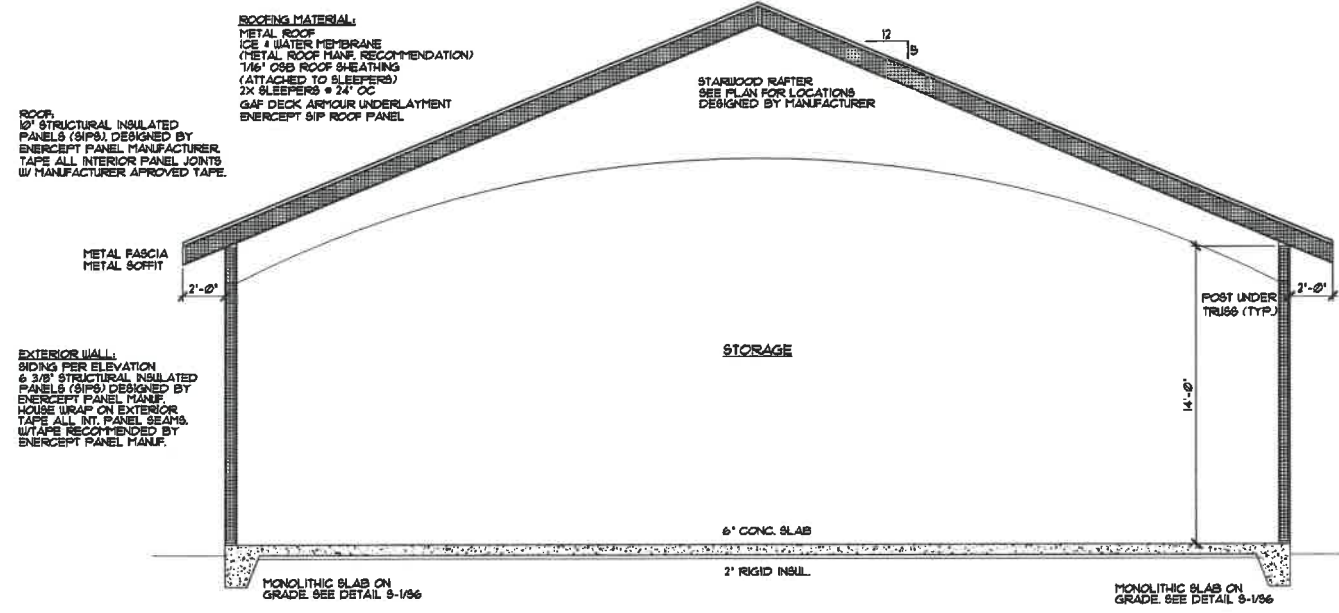
TWO SILO WINE TASTING & STORAGE BUILDING
TWO SILO WINERY, 4 VINEYARD TOWN 11TH STREET, WHITE BEAR LAKE MN 55110



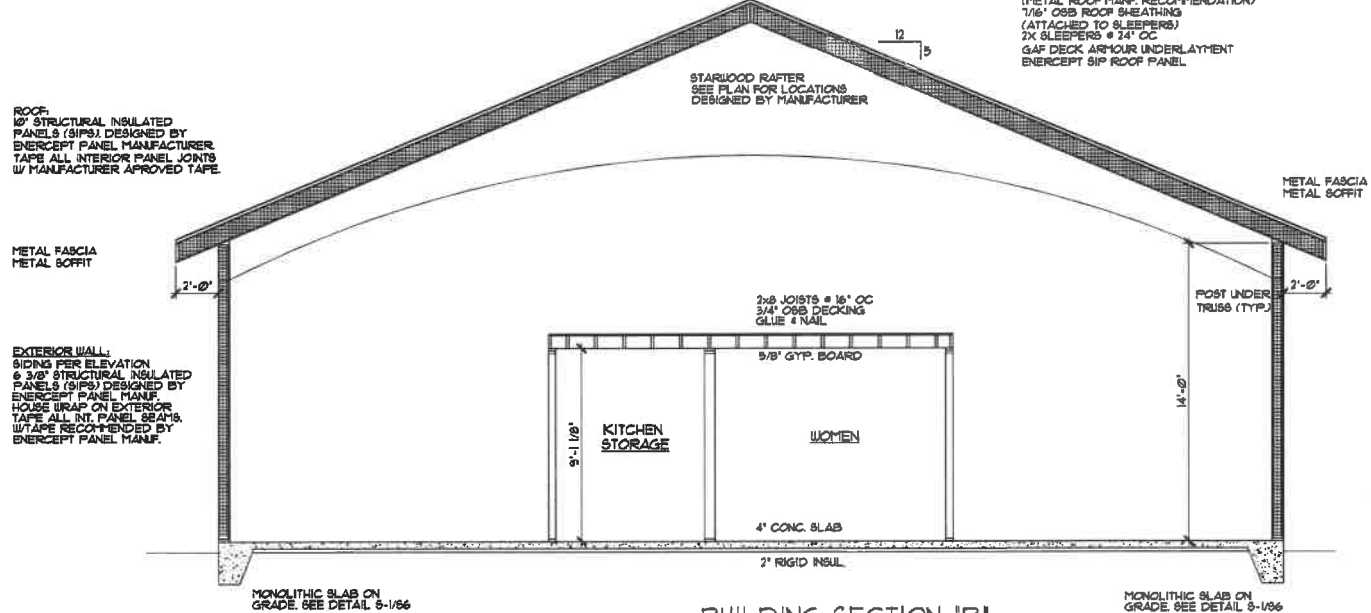
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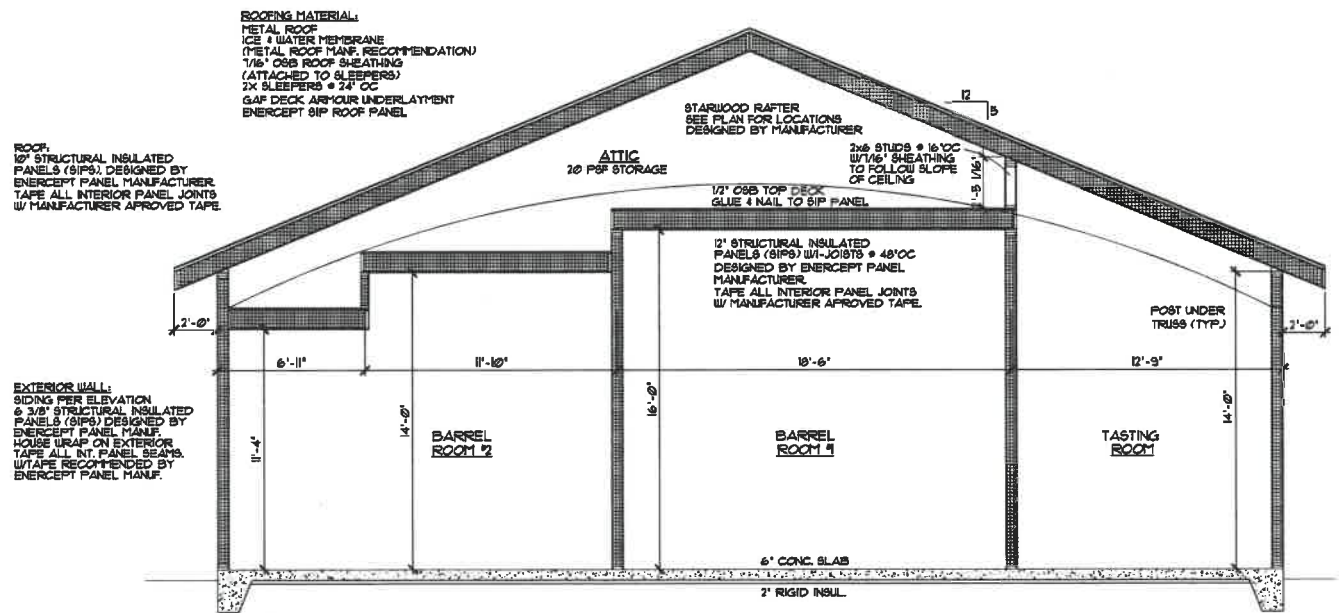
BUILDING SECTION 'A'
1/4"=1'-0"



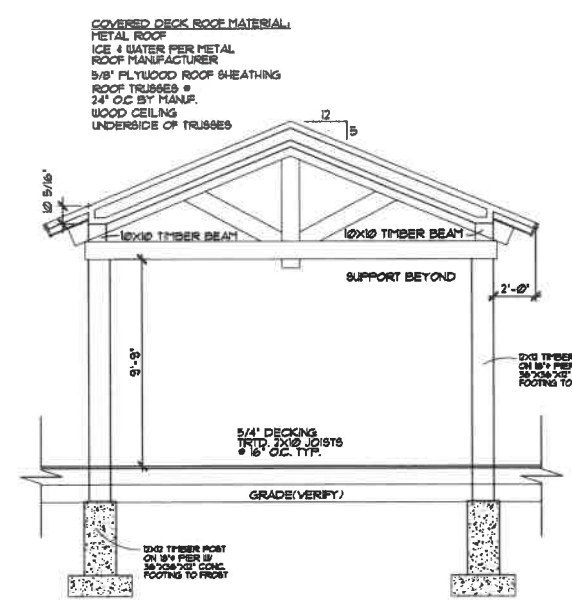
BUILDING SECTION 'B'
1/4"=1'-0"

ROOFING MATERIAL:
METAL ROOF
ICE & WATER MEMBRANE
(METAL ROOF MANF. RECOMMENDATION)
1/8" OSB ROOF SHEATHING
(ATTACHED TO SLEEPERS)
2X SLEEPERS @ 24" OC
GAF DECK ARMOUR UNDERLAYMENT
ENERCEPT SIP ROOF PANEL

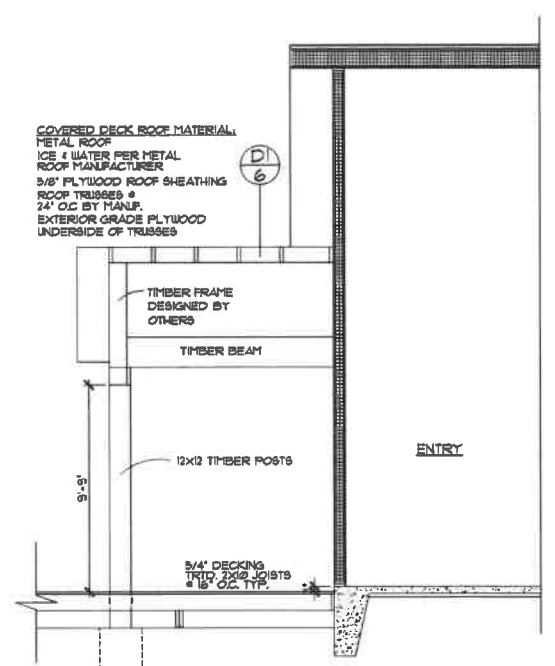
PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: **TROY LEISTIKO**
Signature: *[Signature]*
Date: **8/11/2021** License # **26322**
STRUCTURAL ONLY



BUILDING SECTION 'C'
1/4"=1'-0"



COVERED DECK 'D'
1/4"=1'-0"



BUILDING SECTION 'D'
1/4"=1'-0"

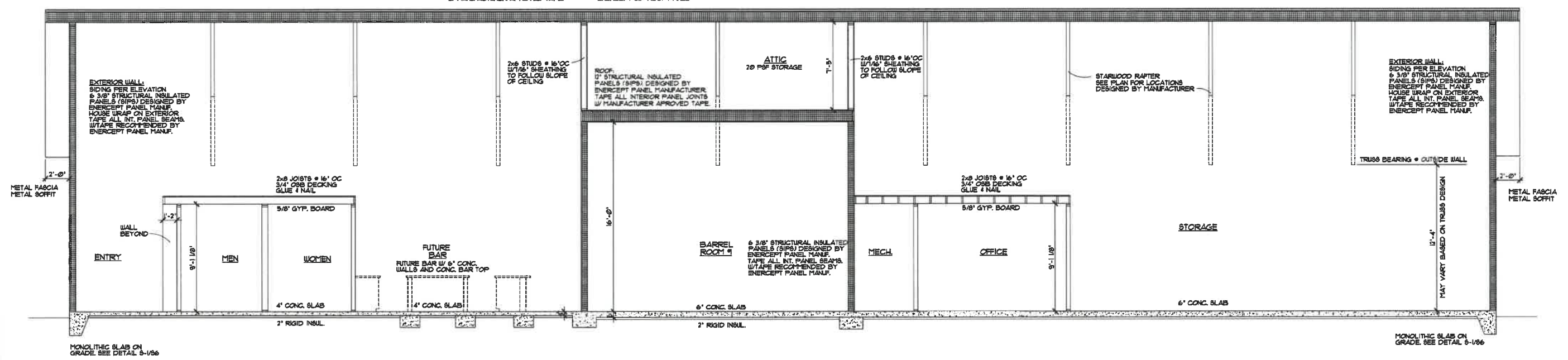
TWO SILO WINE TASTING & STORAGE BUILDING
TWO SILO WINERY & VINEYARD 1046 11TH STREET, WHITE BEAR LAKE, MN 55110

REVISIONS
XX/XX/XX BY:XX
XX/XX/XX BY:XX

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STRUCTURAL ONLY

ROOFING MATERIAL:
METAL ROOF
ICE & WATER MEMBRANE
(METAL ROOF MANF. RECOMMENDATION)
1/4" OSB ROOF SHEATHING
(ATTACHED TO SLEEPERS)
2X SLEEPERS @ 24" OC
GAF DECK ARMOUR UNDERLAYMENT
ENERCEPT SIP ROOF PANEL

ROOF:
12" STRUCTURAL INSULATED
PANELS (SIP) DESIGNED BY
ENERCEPT PANEL MANUFACTURER.
TAPE ALL INTERIOR PANEL JOINTS
W/ MANUFACTURER APPROVED TAPE.

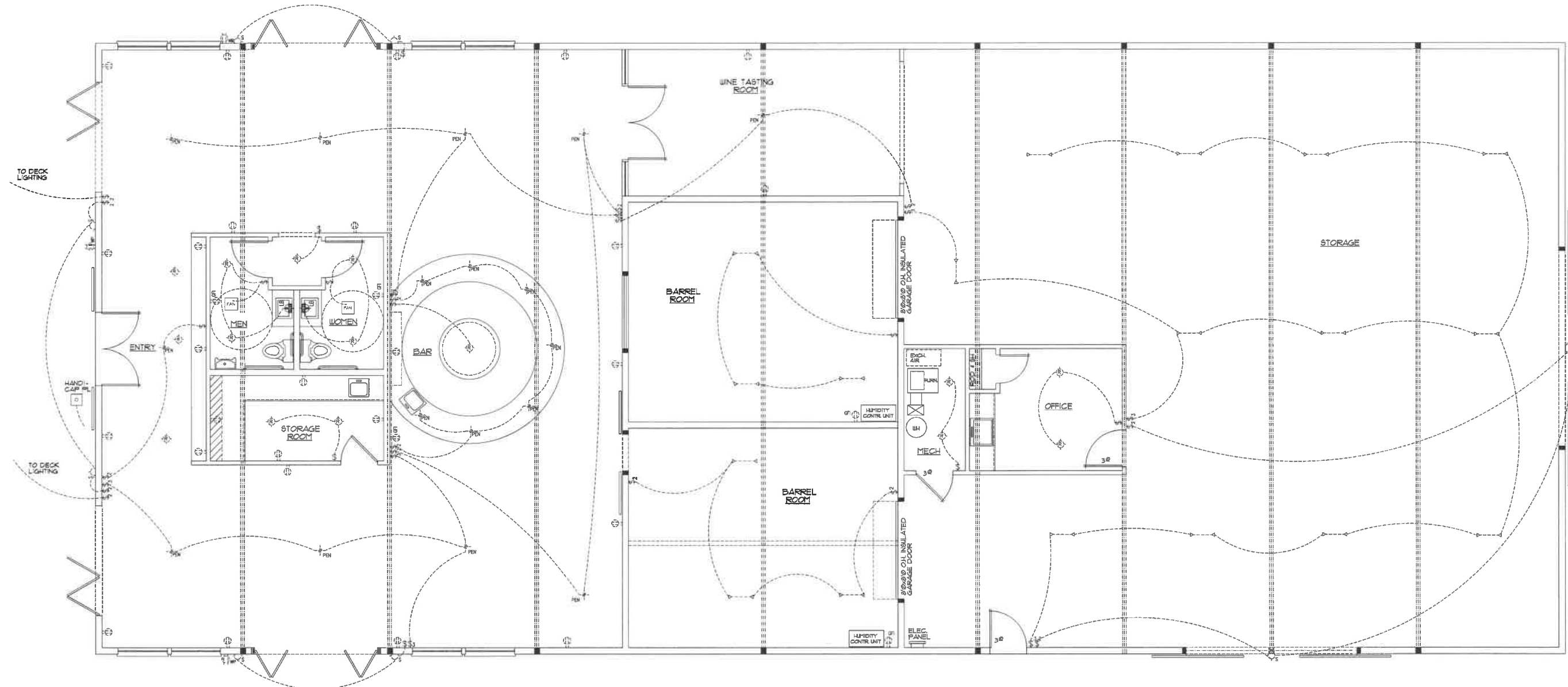


BUILDING SECTION 'E'
1/4" = 1'-0"

TWO SILO WINE TASTING & STORAGE BUILDING
TWO SILO WINERY • VINEYARD • 1040 11TH STREET, WHITE BEAR LAKE TN 38110

SHEET
(A8)
OF 9
DATE: 08/10/21

REVISIONS	
XXXXXX	0000
BY:XX	
XXXXXX	0000
BY:XX	



OWNER TO VERIFY FIXTURE TYPES & SWITCH LOCATIONS
ELECTRICAL PLAN
 1/4" = 1'-0"

LIGHT, OUTLET AND SWITCH LOCATIONS ARE REPRESENTATION ONLY AND TO BE VERIFIED BY THE OWNER AND ELECT. CONTRACTOR. ALL OUTLETS TO BE PLACED PER CODE REQUIREMENT

MECHANICAL & ELECTRICAL NOTES:

- PLACEMENT OF MECHANICAL COMPONENTS WILL BE DETERMINED BY BUILDING CODES AND BY INSTALLATION CONTRACTOR. LOCATION MAY VARY FROM LOCATIONS SHOWN ON PLAN.
- ELECTRICAL TO BE INSTALLED TO CODE. LOCATIONS OF OUTLETS AND SWITCHES MAY VARY AS SHOWN. UPGRADES AND ADDITIONS MUST BE SPECIFIED ON PLANS OR WITH ELECTRICAL CONTR.
- SMOKE DETECTORS TO BE INTERCONNECTED, HARDWIRED AND HAVE BATTERY BACK-UP.

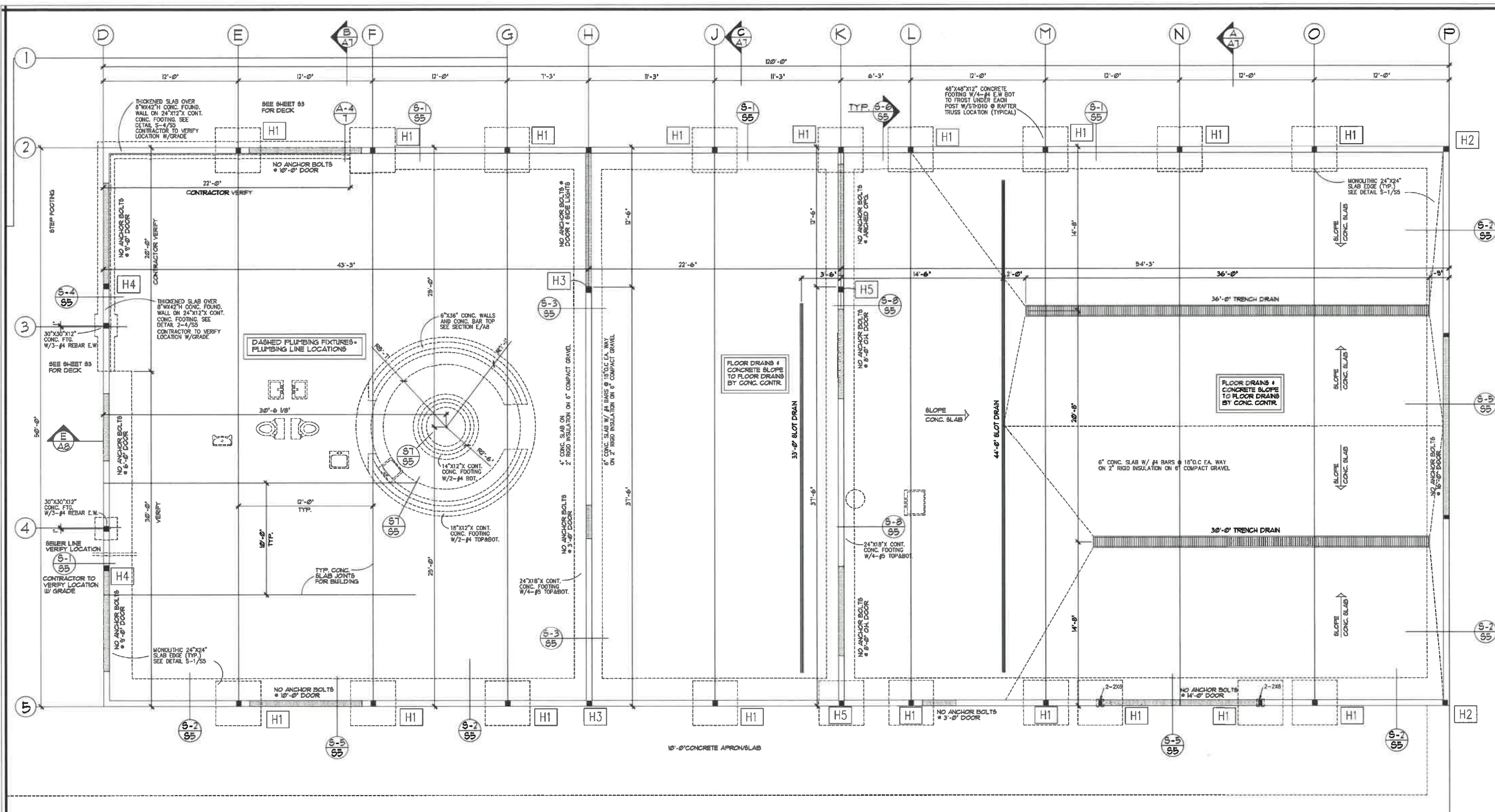
ELECTRICAL and MECHANICAL SYMBOLS			
☎	TELEPHONE JACK	☎	EXHAUST FAN
▼	DATA (COMPUTER) JACK	☎	LIGHT - CEILING FIXTURE
S	SWITCH - SINGLE	☎	LIGHT - RECESSED FIXTURE
S ₃	SWITCH - THREE WAY	☎	LIGHT - RECESSED DIRECTIONAL
S ₄	SWITCH - FOUR WAY	☎	LIGHT - PENDANT
S _d	SWITCH - DIMMER	☎	LIGHT - TRACK
S _f	SWITCH - FAN CONTROLS	☎	LIGHT - FLUORESCENT
Ⓛ	OUTLET - DUPLEX	☎	LIGHT - WALL MOUNTED/SCONCE
Ⓛ	OUTLET - DUPLEX SWITCHED	☎	FLOOR DRAIN
Ⓛ	OUTLET - GROUND FAULT	☎	HOSE BIBB
Ⓛ	OUTLET - WEATHERPROOF	☎	GAS OUTLET
Ⓛ	OUTLET - FLOOR/SOFFIT MOUNT	☎	HVAC - SUPPLY VENT
Ⓛ	OUTLET - RANGE OR DRYER	☎	HVAC - RETURN VENT
Ⓛ	OUTLET - QUAD		
☎	SMOKE DETECTOR		



TWO SILO WINE TASTING & STORAGE BUILDING
 TWO SILO WINERY & VINEYARD, 1040 11TH STREET, WHITE BEAR LAKE TN, 38110

SHEET
 E1
 OF 1
 DATE:
 08/10/21

NO.	DESCRIPTION	DATE
1	XXXXXXXXXX BY:XXX	
2	XXXXXXXXXX BY:XXX	




HOLD DOWN SCHEDULE				
NUMBER	HOLD DOWN	MIN. STUDS	ANCHOR BOLTS	ANCHOR EMBEDMENT
H1	STHD10	2-2X	N/A	10"
H2	HDU4	2-2X	PAB5	6"
H3	HDU5	2-2X	PAB5	6"
H4	HDU8	3-2X	PAB7	9"
H5	HDU11	3-2X	PAB8	11"

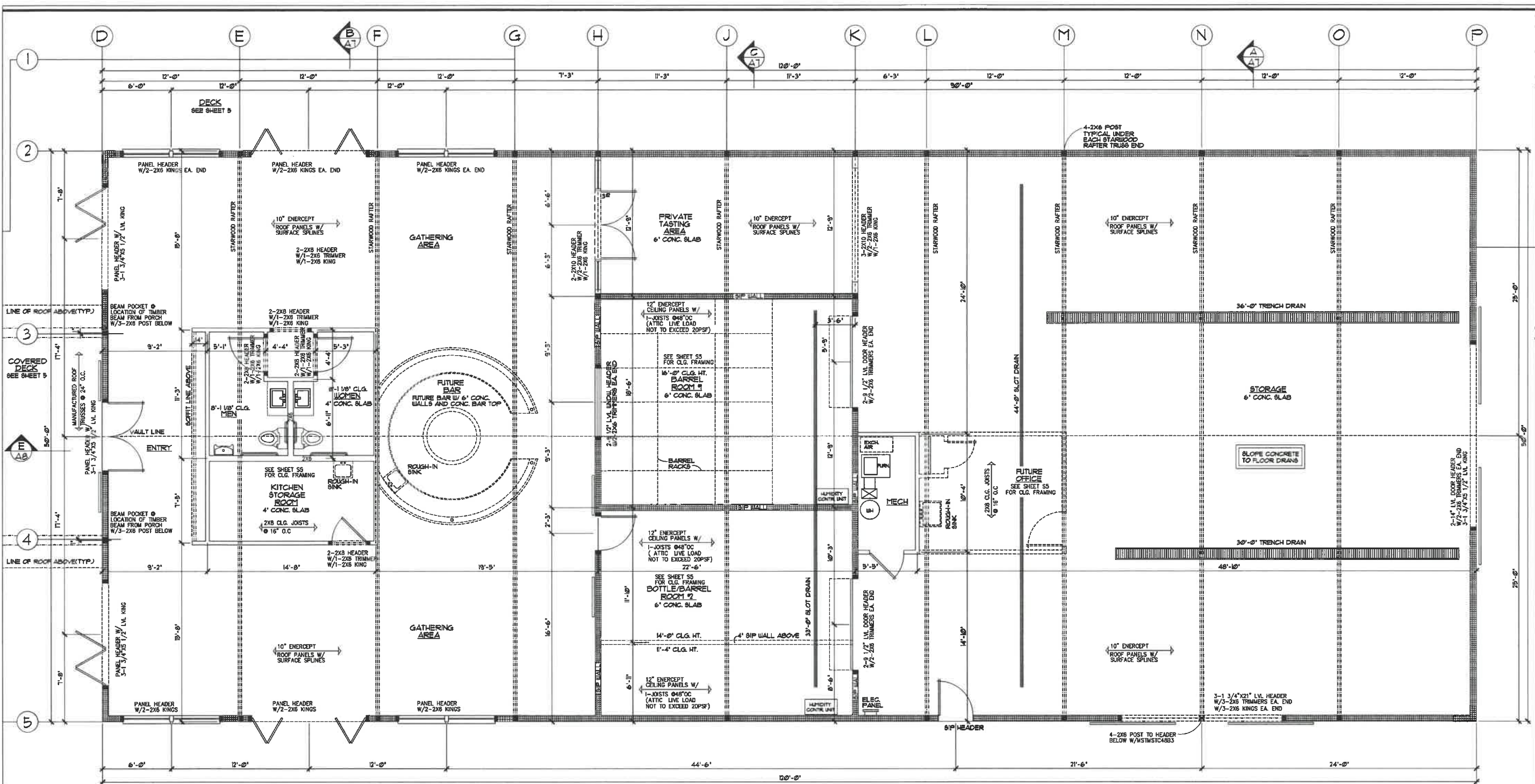

 NORTH
FOUNDATION PLAN
 1/4"=1'-0"

PROFESSIONAL ENGINEER
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 Print Name: **TROY LEISTIKO**
 Signature: 
 Date: 8/11/2021 License # 26322
STRUCTURAL ONLY

TWO SILO WINE TASTING & STORAGE BUILDING
 TWO SILO UNDRY & VINEYARD 1040 11TH STREET, WHITE BEAR LAKE MN 55110

SHEET

 6
 DATE:
 08/10/21

NO.	DESCRIPTION	DATE	BY	CHK
000000	BY:XX			
000000	BY:XX			



10'-0" CONCRETE APRON SLAB



MAIN FLOOR FRAMING PLAN
1/4" = 1'-0"

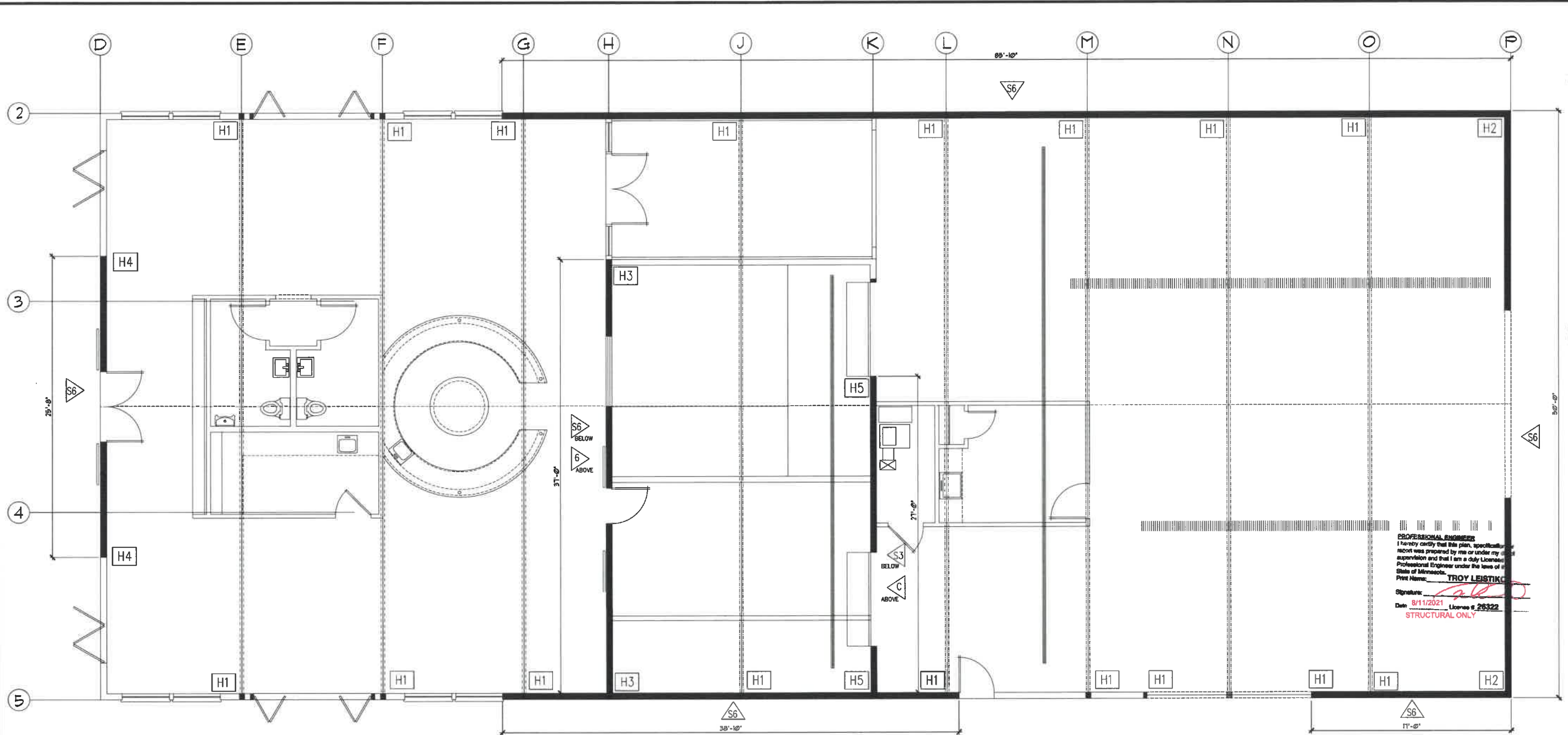
WALL TYPE LEGEND	
	SIP WALL
	2x WALLS

PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: **TROY LEHTIKO**
Signature: *Troy Lehtiko*
Date: 8/11/2021 License # 26322
STRUCTURAL ONLY

TWO SILO WINE TASTING & STORAGE BUILDING
 TWO SILO WINERY & VINEYARD, 1040 11TH STREET, WHITE BEAR LAKE MN 55120

SHEET
S2
 OF 6
 DATE:
 06/10/21

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XXXXXX 00000 BY:XX



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Print Name: **TROY LEISTIK**
Signature: *[Signature]*
Date: **8/11/2021** License # **26322**
STRUCTURAL ONLY

NUMBER	HOLD DOWN	MIN. STUDS	ANCHOR BOLTS	ANCHOR EMBEDMENT
H1	STHD10	2-2X	N/A	10"
H2	HDU4	2-2X	PAB5	6"
H3	HDU5	2-2X	PAB5	6"
H4	HDU8	3-2X	PAB7	9"
H5	HDU11	3-2X	PAB8	11"

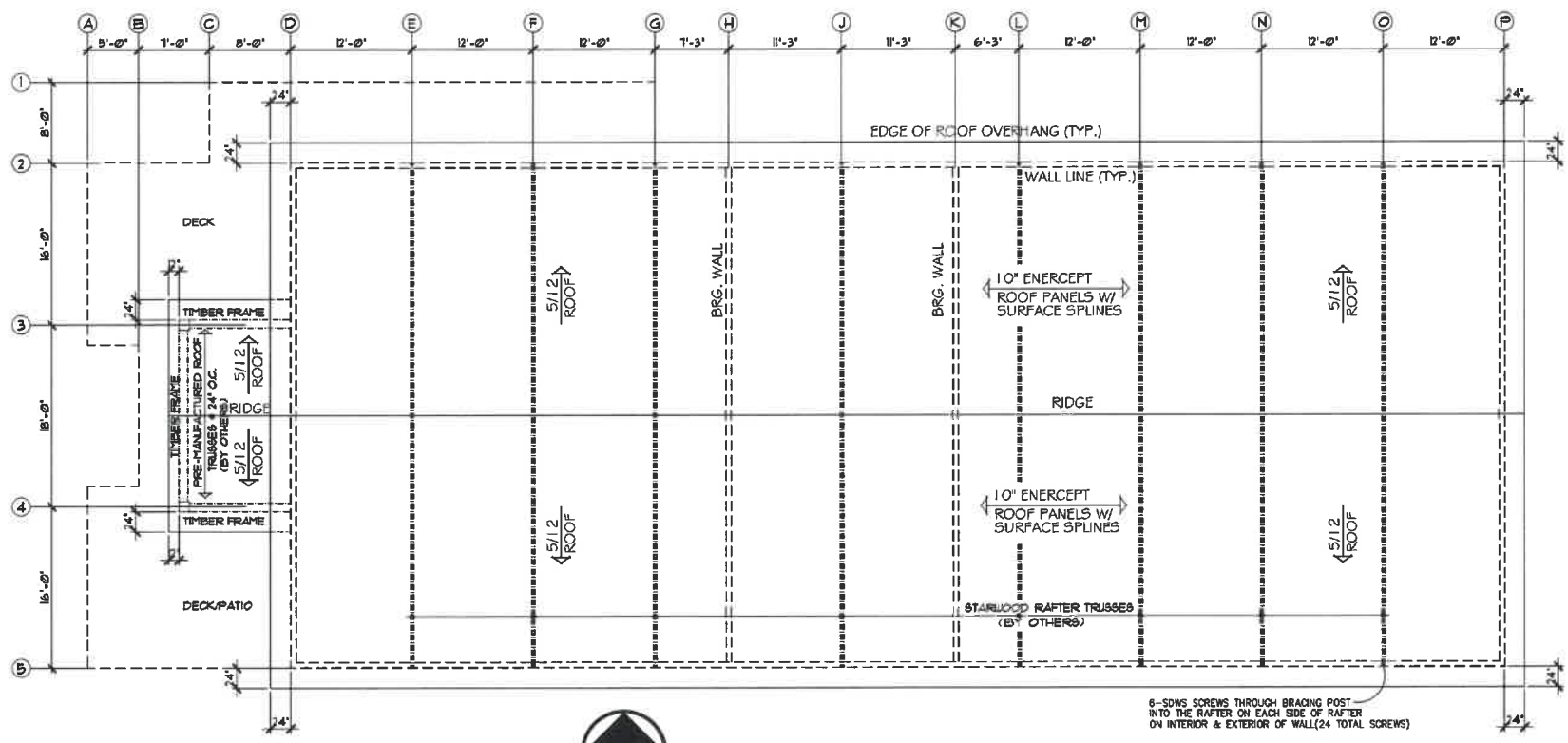
 **SHEAR WALL PLAN**
1/4"=1'-0"

NUMBER	WALL TYPE/SHEATHING	EDGE SPLINE NAILING	SILL NAILING	SILL ANCHOR BOLTS	RIM BOARD OR BLOCKING
U	7/16" OSB (UB)	8d @ 6"O.C	1/4" SDS @ 18"O.C	1/2" @ 48"O.C	10d TN @ 6"O.C
A	7/16" OSB	8d @ 6"O.C	1/4" SDS @ 12"O.C	1/2" @ 36"O.C	10d TN @ 4"O.C
B	7/16" OSB	8d @ 4"O.C	1/4" SDS @ 9"O.C	1/2" @ 24"O.C	10d TN @ 2"O.C
C	7/16" OSB	8d @ 3"O.C	1/4" SDS @ 6"O.C	1/2" @ 16"O.C	A35 @ 8"O.C
CC	7/16" OSB BOTH SIDES	8d @ 3"O.C	1/4" SDS @ 3"O.C	1/2" @ 12"O.C	A35 @ 6"O.C
S6	SIP PER PLAN	8d @ 6"O.C	16d @ 4"O.C	1/2" @ 36"O.C	10d TN @ 4"O.C
S4	SIP PER PLAN	8d @ 4"O.C	16d @ 6"O.C	1/2" @ 20"O.C	10d TN @ 2"O.C
S3	SIP PER PLAN	8d @ 3"O.C	16d @ 3"O.C	1/2" @ 16"O.C	A35 @ 8"O.C
S2	SIP PER PLAN	8d @ 2"O.C	16d @ 2"O.C	1/2" @ 12"O.C	A35 @ 6"O.C

NOTES:
 • STUDS SHALL BE PLACED @ 16"O.C MAXIMUM
 • SPACE NAILS @ 12"O.C ALONG INTERMEDIATE FRAMING MEMBERS
 • ALL UNSUPPORTED PANEL MEMBERS SHALL BE BLOCKED AND EDGE NAILS(EN) UNLESS NOTED OTHERWISE
 • ALL WALLS TO BE TYPE S6 AND A FOR SIP WALLS AND STICK FRAMED WALLS UNLESS NOTED OTHERWISE

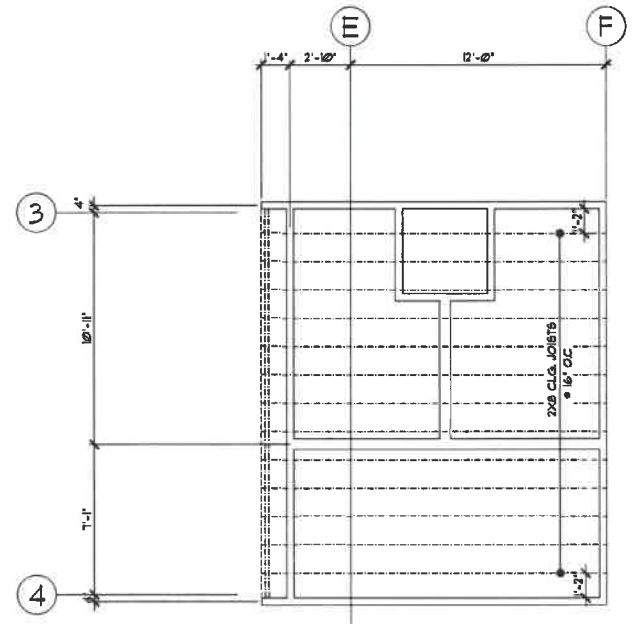
TWO SILO WINE TASTING & STORAGE BUILDING
 TWO SILO WINERY & VINEYARD 10445 11TH STREET, WHITE BEAR LAKE MN 55110

REVISIONS
XXXXXX 00000 BY:XX
XXXXXX 00000 BY:XX

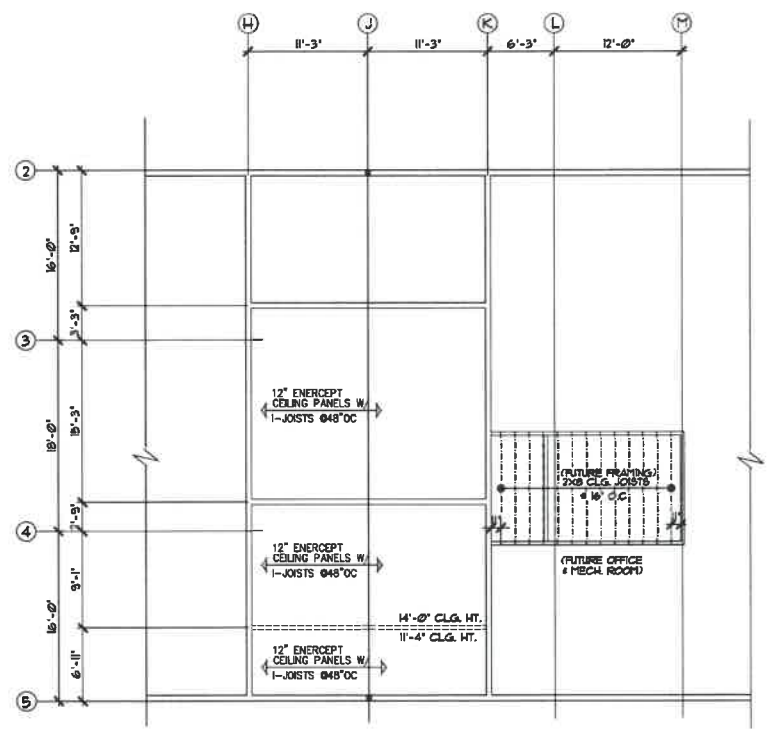


ROOF FRAMING PLAN
1/8"=1'-0"

6-SDWS SCREWS THROUGH BRACING POST INTO THE RAFTER ON EACH SIDE OF RAFTER ON INTERIOR & EXTERIOR OF WALL (24 TOTAL SCREWS)



KITCHEN STORAGE & RESTROOM CEILING FRAMING
1/4"=1'-0"



BARREL ROOM CEILING & SHEAR WALL FRAMING
1/8"=1'-0"

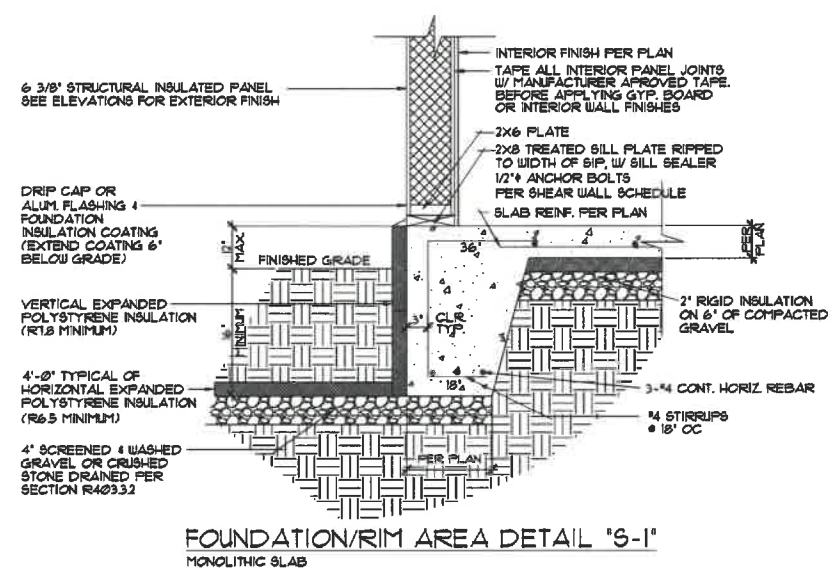
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Print Name: **TROY LEISTIKO**
Signature: *[Signature]*
Date: **8/11/2021** License # **26322**
STRUCTURAL ONLY

NOTE:
FOR HEADER INFORMATION
SEE FLOOR FRAMING PLAN
ON SHEET S2

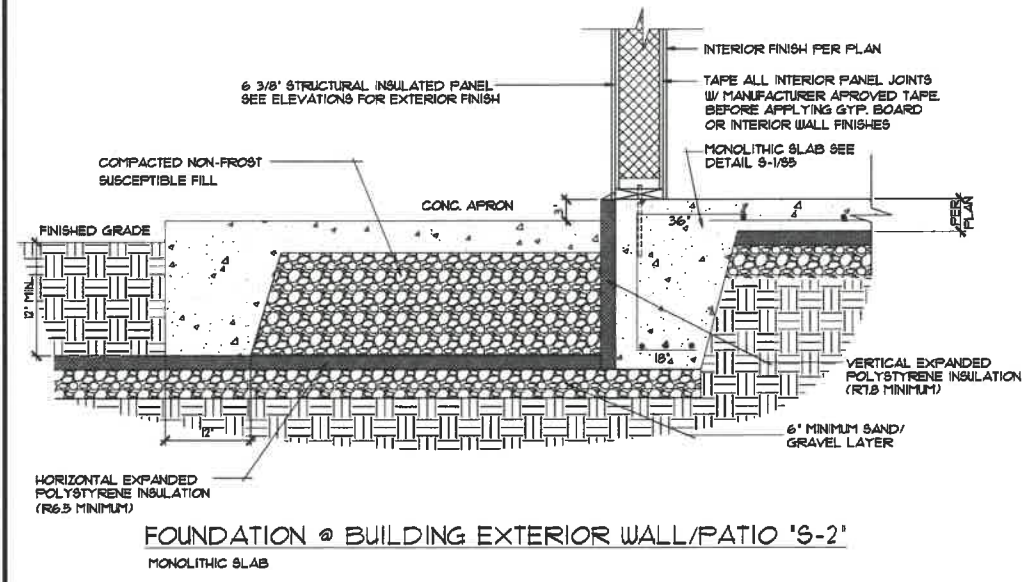
TWO SILO WINE TASTING & STORAGE BUILDING
TWO SILO WINERY & VINEYARD 10440 11TH STREET, WHITE BEAR LAKE MN 55110

SHEET
S5
OF
6
DATE:
08/10/21

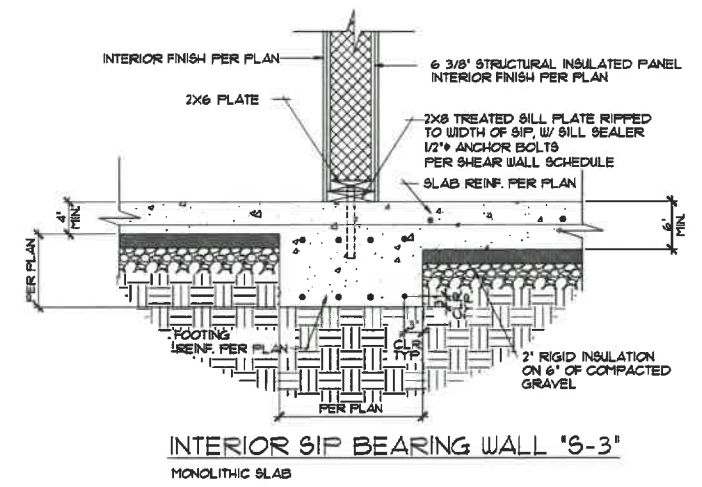
REVISIONS
XXXXXX 00000 BY:XX
XXXXXX 00000 BY:XX



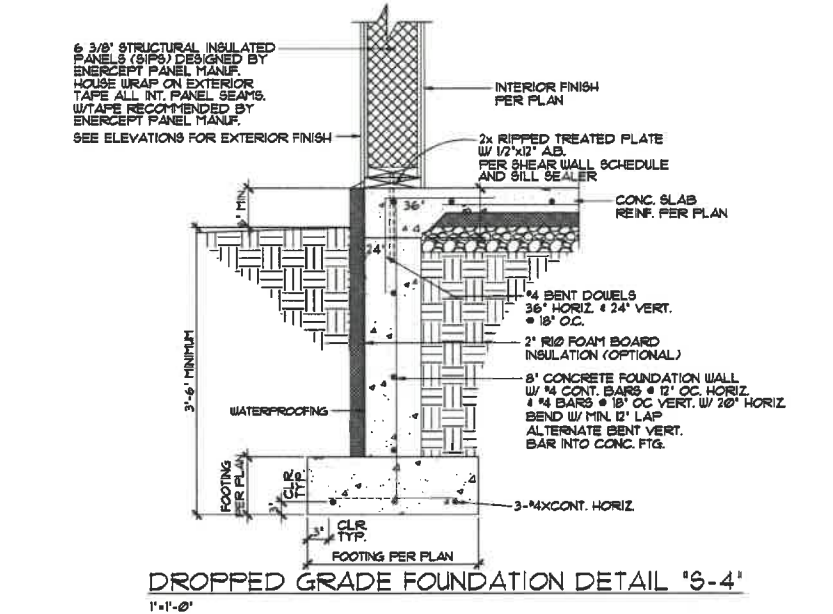
FOUNDATION/RIM AREA DETAIL 'S-1'
MONOLITHIC SLAB



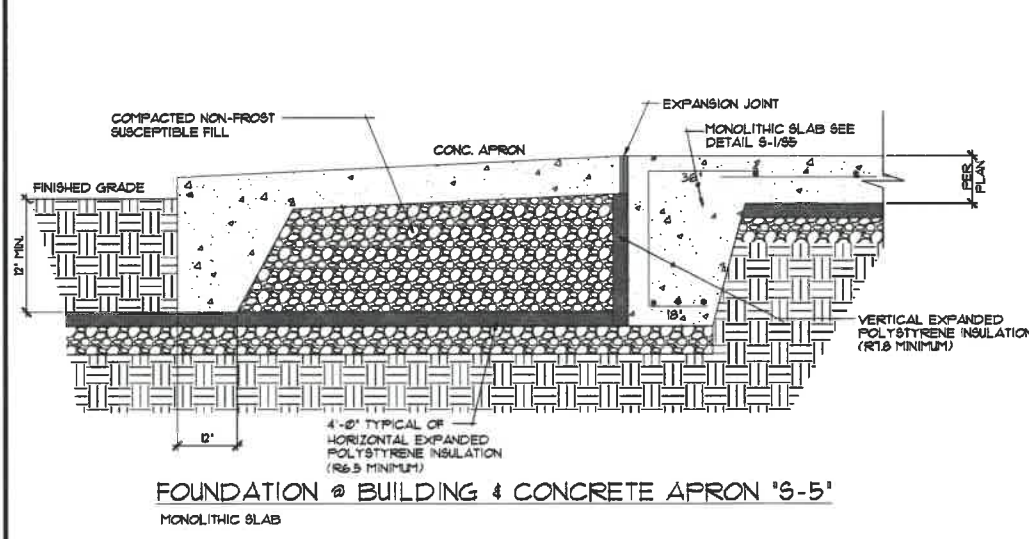
FOUNDATION @ BUILDING EXTERIOR WALL/PATIO 'S-2'
MONOLITHIC SLAB



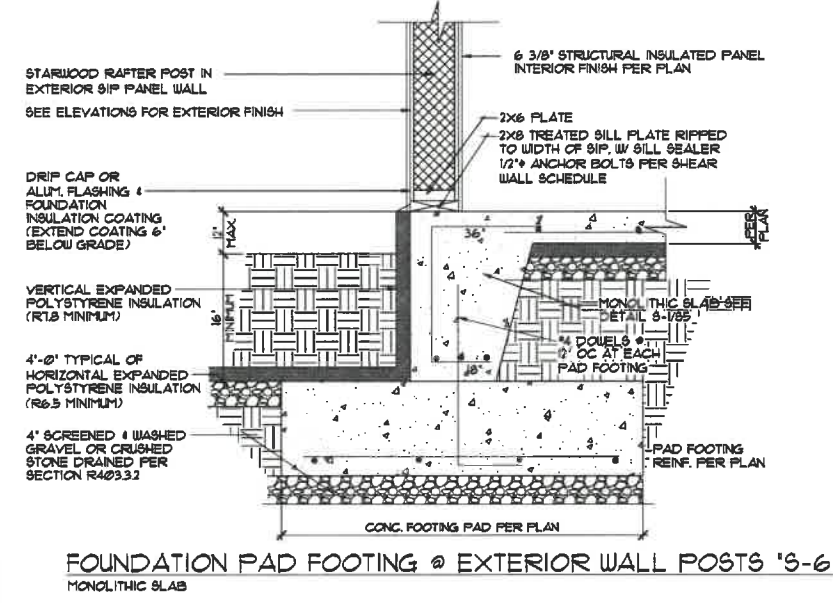
INTERIOR SIP BEARING WALL 'S-3'
MONOLITHIC SLAB



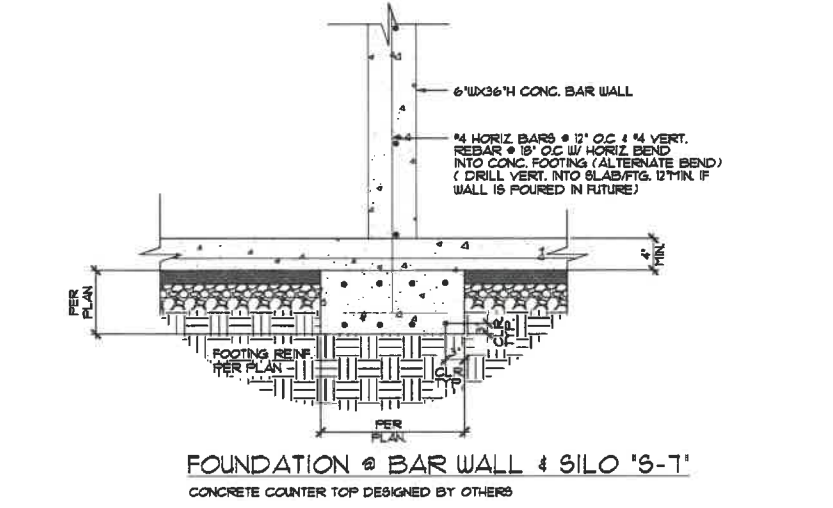
DROPPED GRADE FOUNDATION DETAIL 'S-4'
1'-1'-0"



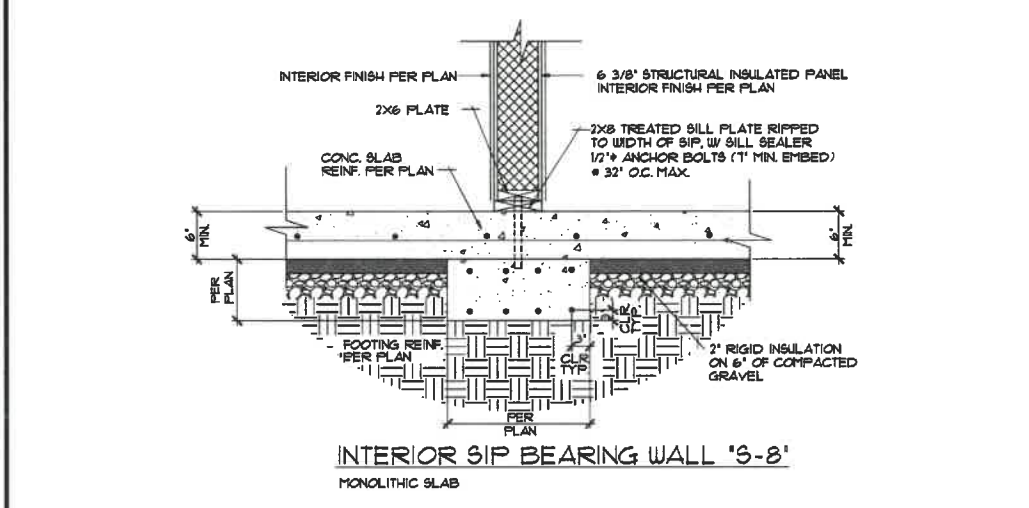
FOUNDATION @ BUILDING & CONCRETE APRON 'S-5'
MONOLITHIC SLAB



FOUNDATION PAD FOOTING @ EXTERIOR WALL POSTS 'S-6'
MONOLITHIC SLAB



FOUNDATION @ BAR WALL & SILO 'S-7'
CONCRETE COUNTER TOP DESIGNED BY OTHERS



INTERIOR SIP BEARING WALL 'S-8'
MONOLITHIC SLAB

PROFESSIONAL ENGINEER
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STRUCTURAL ONLY

TWO SILO WINE TASTING & STORAGE BUILDING
TWO SILO WINERY & VINEYARD 1040 11TH STREET, WHITE BEAR LAKE VT 05510