NALLE 2.0 RESIDENCE

GENERAL PROJECT NOTES

OWNERSHIP AND COPYRIGH

ALL DRAWINGS, DESIGNS, AND CONCEPTS WITHIN THESE DOCUMENTS ARE THE PROPERTY OF COLLECTIVE DESIGN GROUP. THESE DOCUMENTS SHALL NOT BE REPLICATED, USED, OR DISTRIBUTED FOR ANY REASON WITHOUT CONSENT FROM COLLECTIVE DESIGN GROUP OR THE ARCHITECT.

CODE COMPLIANC

THIS PROJECT IS GOVERNED BY THE 2018 IRC AS ADOPTED AND AMENDED BY BLUE RIVER, AND/OR THE LOCAL JURISDICTIONS FOUND WITHIN BLUE RIVER. ALL WORK DONE BY THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL COMPLY WITH THE IRC, AS WELL AS ANY AND ALL OTHER APPLICABLE CODES, REQUIREMENTS, REGULATIONS, AND RESTRICTIONS. THESE DRAWINGS, SPECS, AND DETAILS DO NOT PERMIT WORK TO BE DONE THAT DOES NOT CONFORM WITH THE AFOREMENTIONED CODES, ETC. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS FOR THIS PROJECT AND TO COMPLETE THEIR SCOPE OF WORK WITHIN THE BOUNDS OF THESE APPROVALS.

EXISTING CONDITIONS, FIELD VERIFICATION, AND DISCREPANCIES

ALL DIMENSIONS, LOCATIONS, CONDITIONS, SITE GRADES, PROPERTY LINES, SETBACKS, EXISTING STRUCTURES, AND ANY OTHER INFORMATION RELATIVE TO THIS PROJECT SHALL BE VERIFIED BY THE GENERAL CONTRACTOR BEFORE STARTING WORK OR ORDERING ANY MATERIALS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO NOTIFY THE ARCHITECT, AND ADJUST THEIR WORK ACCORDINGLY, UPON THE REALIZATION OF ANY CONFLICTS, DISCREPANCIES, OR ERRORS FOUND WITHIN THESE DOCUMENTS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REQUEST AND OBTAIN ADDITIONAL DETAILS, INFORMATION, CLARIFICATION, OR INTERPRETATION IN THE EVENT THAT ANY QUESTION OR CONCERN ARISE FROM THESE DOCUMENTS. FAILURE TO NOTIFY THE ARCHITECT IMMEDIATELY, OR OBTAIN THE INFORMATION NEEDED, SHALL RELIEVE COLLECTIVE DESIGN GROUP AND/OR ARCHITECT OF ALL RESPONSIBILITY FOR ANY CONFLICTS, DISCREPANCIES, OR ERRORS. WORK RELATED TO AN AREA IN QUESTION SHALL NOT CONTINUE UNTIL THE ARCHITECT PROVIDES DIRECTION.

DIMENSION

DIMENSION CALLOUTS, OR WRITTEN DIMENSIONS, TAKE PRECEDENCE OVER THE DRAWING ITSELF. THE DRAWINGS ARE NOT MEANT TO BE SCALED FOR ANY REASON, AND WRITTEN DIMENSIONS SHALL BE VERIFIED PRIOR TO BEGINNING WORK. ALL FIELD CONDITIONS OR FIELD MEASUREMENTS SHALL SUPERSEDE WRITTEN DIMENSIONS. ALL WRITTEN DIMENSIONS ARE TO THE EDGE, FACE, TOP, OR BOTTOM OF FRAMING OR TO THE EDGE, FACE, TOP, OR BOTTOM OF CONCRETE, UNLESS NOTED OTHERWISE. DOORS, WINDOWS, & COLUMNS ARE DIMENSIONED TO CENTERLINE.

CONTRACTOR'S WORK

IT IS THE INTENT THAT ALL WORK SHOWN WITHIN THESE DOCUMENTS IS TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR AND SUBCONTRACTORS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PROVIDE ALL LABOR, MATERIALS, SUPPLIES, EQUIPMENT, ETC. TO THE POINT OF PROJECT COMPLETION. THE GENERAL CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE FOR FOLLOWING ALL MANUFACTURER RECOMMENDATIONS, SPECIFICATIONS, AND INSTRUCTIONS. ALL WORK SHALL BE COMPLETED, TO THE RECOGNIZED STANDARDS OF THE INDUSTRY, AS SHOWN WITHIN THESE DOCUMENTS UNLESS OTHERWISE NOTED OR CONSIDERED TO BE "NOT IN CONTRACT". IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE A SAFE PROJECT SITE AND TO COMPLY WITH ALL STATE, FEDERAL, AND LOCAL SAFETY REGULATIONS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL EXISTING GRADES, SURROUNDING LANDSCAPE AND ENVIRONMENT, ETC. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL EXISTING GRADES, TO PROVIDE STAKING AT BUILDING CORNERS AND AT THE DRIVEWAY, AND TO PROVIDE AN ADEQUATE AND PROTECTIVE SITE FENCE THAT MEETS THE REQUIREMENTS SPECIFIC TO THE PROJECT SITE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE A MATERIAL MOCK-UP FOR REVIEW BY THE OWNER AND THE ARCHITECT (AND BY THE DESIGN REVIEW BOARD OR HOA WHEN APPLICABLE). THIS MATERIAL MOCK-UP SHALL BE APPROVED BY THE OWNER, OR BY THE ARCHITECT ON THE OWNER'S BEHALF, PRIOR TO PROCEEDING WITH THE ORDER OF, OR INSTALLATION OF, ANY MATERIALS. THIS MATERIAL MOCK-UP SHALL REMAIN ON THE PROJECT SITE UNTIL THE COMPLETION OF THE PROJECT.

WEATHER AND HIGH ALPINE ENVIRONMENT CONDITIONS

IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN ROOF AND DECKING SURFACES. THIS MAINTENANCE INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL OF ICE AND SNOW, THE OPERATION OF HEAT TAPE OR OTHER HEATING ELEMENTS, INSPECTION OF ROOF AND DECK, INSPECTION OF ALL WATERPROOF ELEMENTS, THE REPLACEMENT OF ANY ELEMENT AS NEEDED, ETC. IT IS NOT THE RESPONSIBILITY OF THE ARCHITECT NOR CONTRACTOR TO MAINTAIN ANY ROOF, DECK, OR WATERPROOF ELEMENT AFTER THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

CHANGES AND SUBSTITUTIONS

NO PORTION OF WORK SHALL DIFFER FROM THESE DRAWINGS AND DOCUMENTS. IN THE CASE THAT THE GENERAL CONTRACTOR INTENDS TO MAKE A CHANGE OR SUBSTITUTION OF "EQUAL" PRODUCTS, NOTICE MUST BE GIVEN TO THE ARCHITECT, AND APPROVAL MUST BE RECEIVED FROM THE ARCHITECT. CHANGES OR SUBSTITUTIONS MADE FROM THESE PLANS OR DOCUMENTS WITHOUT ARCHITECT APPROVAL SHALL RELIEVE THE ARCHITECT OF ANY AND ALL RESPONSIBILITY FOR ANY AND ALL DAMAGES, COST, CONSEQUENCES, ETC. RESULTING FROM THESE CHANGES OR SUBSTITUTIONS

PROJECT VICINITY MAP



PROPERTY DESCRIPTION

OWNER: OWEN AND ASHLEY NALLE OWENNALLE@YAHOO.COM

P.O. BOX 2137 BRECKENRIDGE, CO 80424 512-689-7996

BLUE RIVER, CO 80424

PROJECT 0135 MOUNT ARGENTINE RD (CR 598)
ADDRESS: LOT 43 SPRUCE VALLEY RAINCH #2

CONTACT INFORMATION

ARCHITECT: COLLECTIVE DESIGN GROUP

114 BASECAMP WAY PO BOX 1000 FRISCO, CO 80443 970-453-0727

ZANE@THECOLLECTIVEDESIGN.COM

PINNACLE MOUNTAIN HOMES

114 BASECAMP WAY PO BOX 1000 FRISCO, CO 80443

970-453-0727 TYLER@PINNACLEMTNHOMES.COM

STRUCTURAL SUNDQUIST DESIGN GROUP ENGINEER: P.O. BOX 249

P.O. BOX 249 TARPON SPRINGS, FL 34688

303-838-2222

JOE@SUNDQUISTDESIGN.COM

THEOBALD ENGINEERING &

P.O. BOX 589

CONSTRUCTION 1000 AIRPORT RD

BRECKENRIDGE, CO 80424 ROBTHEOBALD@YAHOO.COM

SURVEYOR: RANGE WEST

SOIL/SEPTIC

ENGINEER:

SILVERTHORNE, CO 80498
JESSICA@RANGEWESTINC.COM

OI35 MOUNT ARGENTINE RD (CR 598)

BUILDING AREA CALCS

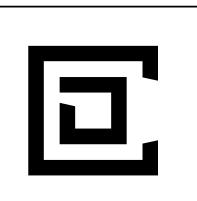
SQUARE FOOTAGE NUMBER ARE APPROXIMATE AND CALCULATED FOR CODE PURPOSES. NUMBERS ARE SUBJECT TO CHANGE THROUGHOUT THE COURSE OF THE PROJECT. UNFINISHED SQUARE FOOTAGE INCLUDES GARAGE, DETACHED GARAGE, MECHANICAL, AND SIMILAR UNFINISHED SPACES.

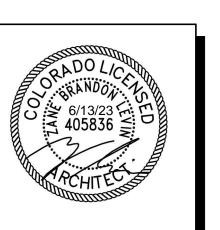
USGS BENCHMARKS

LOWER LEVEL = ARCH 100'-0" = USGS 10237'
MAIN LEVEL = ARCH 111'-0" = USGS 10248'

		•	3.1221 B11(23131()		
G1.01	COVER SHEET	A2.04	BUILDING ELEVATION		
		A2.05	BUILDING ELEVATION	S1.1	GENERAL NOTES
SV	SURVEY	A2.06	BUILDING ELEVATION	S2.1A	PARTIAL FOUNDATION PLAN
		A2.07	BUILDING ELEVATION	S2.1B	PARTIAL FOUNDATION PLAN
SP1.01	OVERALL SITE PLAN	A2.08	BUILDING ELEVATION	S2.2	MAIN LEVEL FRAMING PLAN
SP1.02	SITE AND GRADING PLAN	A2.09	GARAGE ELEVATIONS	S2.3A	PARTIAL ROOF FRAMING PLAN
SP1.03	LANDSCAPE PLAN	A2.10	BUILDING PERSPECTIVES	S2.3B	PARTIAL ROOF FRAMING PLAN
		A2.11	GARAGE PERSPECTIVES	S2.4	DETACHED GARAGE
A1.01	OVERALL LOWER LEVEL FLOOR PLAN			S3.1	FOUNDATION DETAILS
A1.02	OVERALL MAIN LEVEL FLOOR PLAN	A3.01	BUILDING SECTION	S3.2	FOUNDATION DETAILS
A1.03	OVERALL ROOF PLAN	A3.02	BUILDING SECTION	S3.3	FRAMING DETAILS
A1.04	LOWER LEVEL PLAN	A3.03	BUILDING SECTION	S3.4	FRAMING DETAILS
A1.05	MAIN LEVEL WEST	A3.04	BUILDING SECTION	S3.5	FRAMING DETAILS
A1.06	MAIN LEVEL EAST	A3.05	BUILDING SECTION		
A1.07	HIGH WINDOW WEST	A3.06	BUILDING SECTION	M1.01	LOWER LEVEL MECHANICAL PLAN
A1.08	HIGH WINDOW EAST			M1.02	MAIN LEVEL MECHANICAL PLAN WEST
A1.09	ROOF PLAN WEST	A4.01	ARCHITECTURAL & CONSTRUCTION DETAILS	M1.03	MAIN LEVEL MECHANICAL PLAN EAST
A1.10	ROOF PLAN EAST	A4.02	ARCHITECTURAL & CONSTRUCTION DETAILS		
A1.11	DETACHED GARAGE PLANS				
		A5.01	DOOR SCHEDULE		
A2.01	OVERALL BUILDING ELEVATIONS	A5.02	WINDOW SCHEDULE		
A2.02	OVERALL BUILDING ELEVATIONS				
A2.03	BUILDING ELEVATION	A6.0	LOWER LEVEL ELECTRICAL PLAN		
		A7.0	UPPER LEVEL ELECTRICAL PLAN		

SHEET DIRECTORY



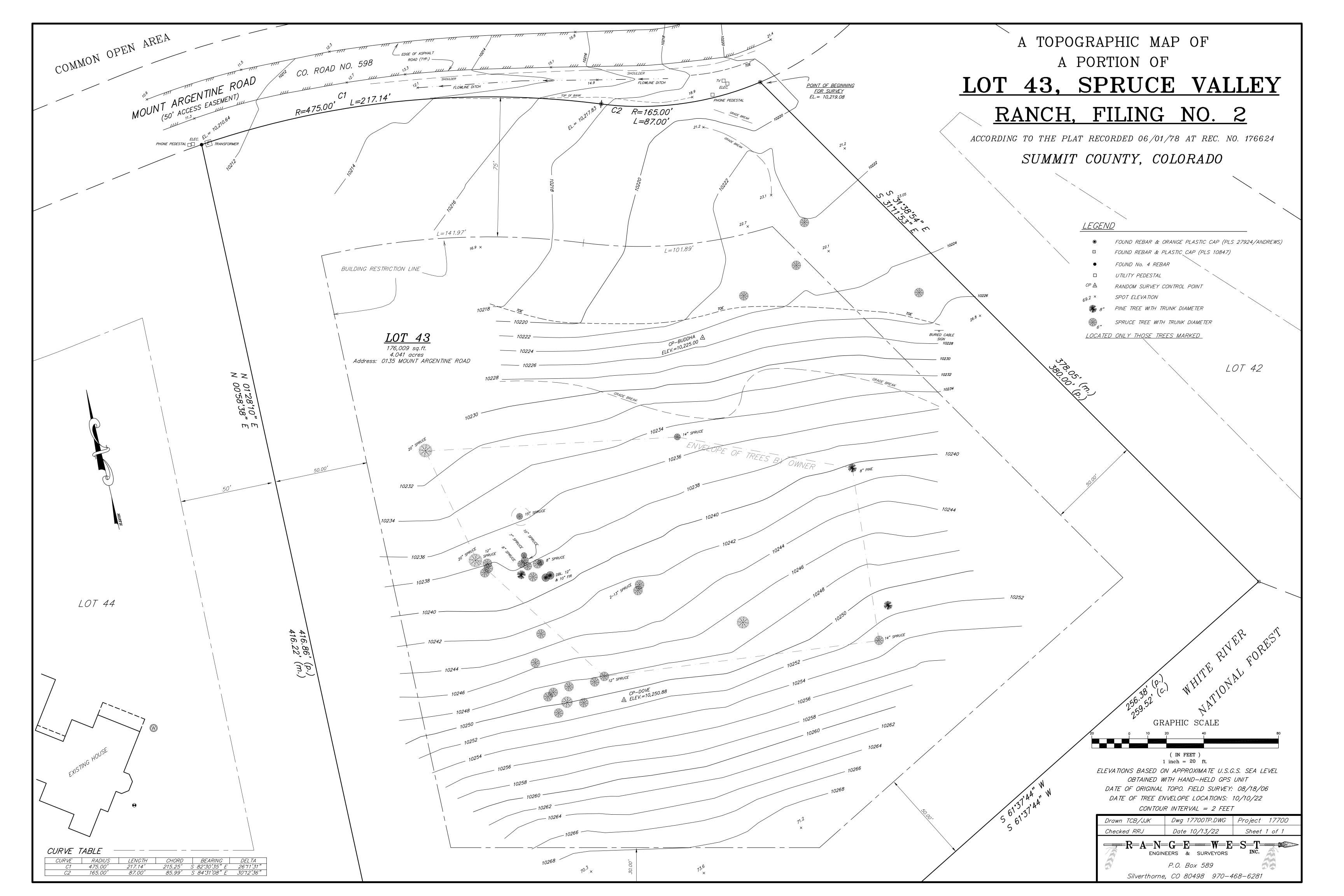


NALLE 2.0 RESIDENCE O 80424 O135 MOUNT ARGENTINE RD (CR 598) BRECKENRIDGE, CO 80424

ISSUE		
Permit Set	06/13/2023	
JOB #:	262	
DRAWN BY:	MI	
CHECKED BY:	JM	

COVER SHEET

G1.01



GENERAL SITE NOTES

UTILITY LOCATIONS

ALL UTILITY LOCATIONS ARE TO BE VERIFIED IN FIELD BY CONTRACTOR BEFORE STARTING WORK. IT IS THE DUTY OF THE CONTRACTOR TO COORDINATE EXACT UTILITY ROUTING WITH THE APPROPRIATE UTILITY PROVIDER, OR UTILITY INSTALLATION COMPANY.

TOPOGRAPHIC INFORMATION

TOPOGRAPHIC INFORMATION DEPICTED ON THE SITE PLAN IS ONLY A REPRESENTATION OF THE TOPOGRAPHIC INFORMATION PROVIDED WITHIN THE STAMPED SURVEY. THE STAMPED SURVEY SHALL BE REFERENCED FOR ALL TOPOGRAPHIC VERIFICATIONS BEFORE STARTING WORK

POSITIVE DRAINAGE

POSITIVE DRAINAGE SHALL BE CREATED AROUND THE ENTIRE BUILDING PERIMETER TO SLOPE WATER AWAY FROM THE FOUNDATION. THIS POSITIVE DRAINAGE SHALL NOT HEIGHTEN GRADE ABOVE WHAT IS APPROPRIATE GIVEN THE FOUNDATION HEIGHTS AT THE BUILDING PERIMETER. THE GENERAL CONTRACTOR SHALL COORDINATE WITH AND INFORM THE STRUCTURAL ENGINEER, AND NOTIFY THE ARCHITECT, OF ANY GRADE / FOUNDATION CONFLICTS.

STAKING AND SURVEYING

THE LOCATION OF THE HOUSE, DRIVEWAY, AND OTHER RELEVANT ITEMS SHALL BE STAKED BY A CERTIFIED SURVEYOR PRIOR TO BEGINNING WORK. ADDITIONAL STAKING REQUIREMENTS MAY EXIST PER THE HOA, REVIEW BOARD, LOCAL JURISDICTION, ETC. AND IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MEET THESE ADDITIONAL REQUIREMENTS BEFORE STARTING WORK.

SITE LEGEND

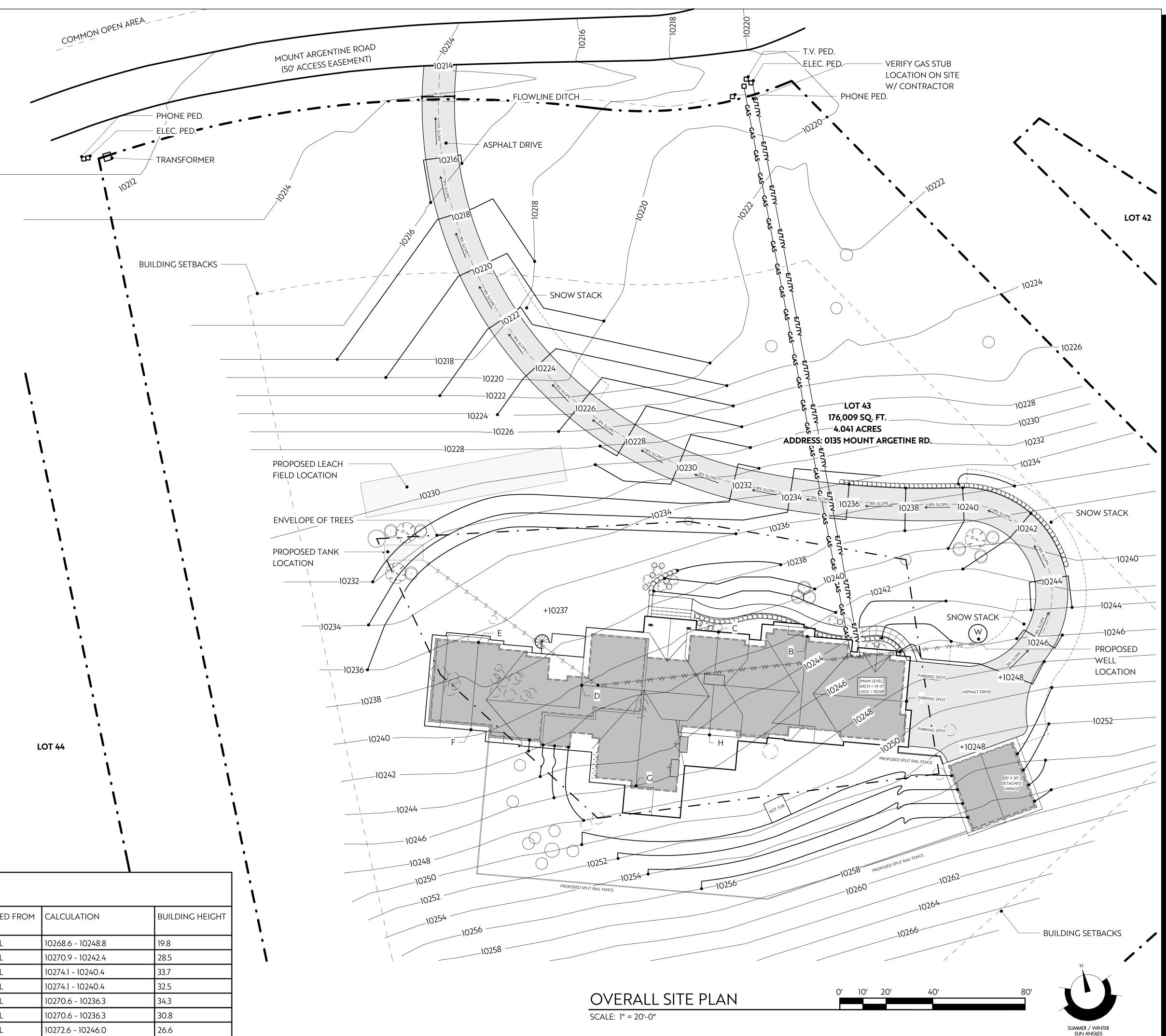
	PROPERTY LINE
— · – · – · —	BUILDING ENVELOPE
	FOUNDATION OUTLINE
	WALLS BELOW
	ASPHALT DRIVE
	ROOF LINES
	PROPOSED GRADE
	EXISTING GRADE (MAJOR)
	EXISTING GRADE (MINOR)
	DECKS
E/T/TV E/T/TV	ELECTRICAL CONNECTION
——————————————————————————————————————	GAS CONNECTION
	SEPTIC CONNECTION
─ ₩	WELL CONNECTION
$-\!$	DRAINAGE ARROWS
	EXISTING TREES TO REMAIN
	EXISTING TREES TO BE REMOVED

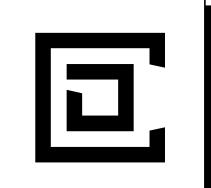
SITE COVERAGE

	SQFT	PERCENT		
BUILDING, ROOF AND DECKS	10,935	6 %		
FINISHED DRIVE	7,985	5 %		
OTHER HARDSCAPES	1,300	1%		
LANDSCAPE SURFACE	155,789	88%		
TOTAL	176,009	100 %		
SNOWSTACK REQUIRED	1,997	25% OF DRIVE		
SNOWSTACK PROVIDED	2,000	25% OF DRIVE		
PARKING PROVIDED: 5 GARAGE, 3 SURFACE				

BUILDING HEIGHT CALCS

POINT	ROOF ELEVATION	NATURAL GRADE ELEV.	PROPOSED GRADE ELEV.	MEASURED FROM	CALCULATION	BUILDING HEIGHT
А	10268.6	10248.8	10248.0	NATURAL	10268.6 - 10248.8	19.8
В	10270.9	10242.4	10246.5	NATURAL	10270.9 - 10242.4	28.5
С	10274.1	10240.4	10246.5	NATURAL	10274.1 - 10240.4	33.7
D	10272.6	10240.1		NATURAL	10274.1 - 10240.4	32.5
Е	10270.6	10236.3	10237.0	NATURAL	10270.6 - 10236.3	34.3
F	10270.6	10239.8	10239.8	NATURAL	10270.6 - 10236.3	30.8
G	10272.6	10246.0	10248.0	NATURAL	10272.6 - 10246.0	26.6
Н	10274.1	10244.8	10248.0	NATURAL	10274.1 - 10244.8	29.3



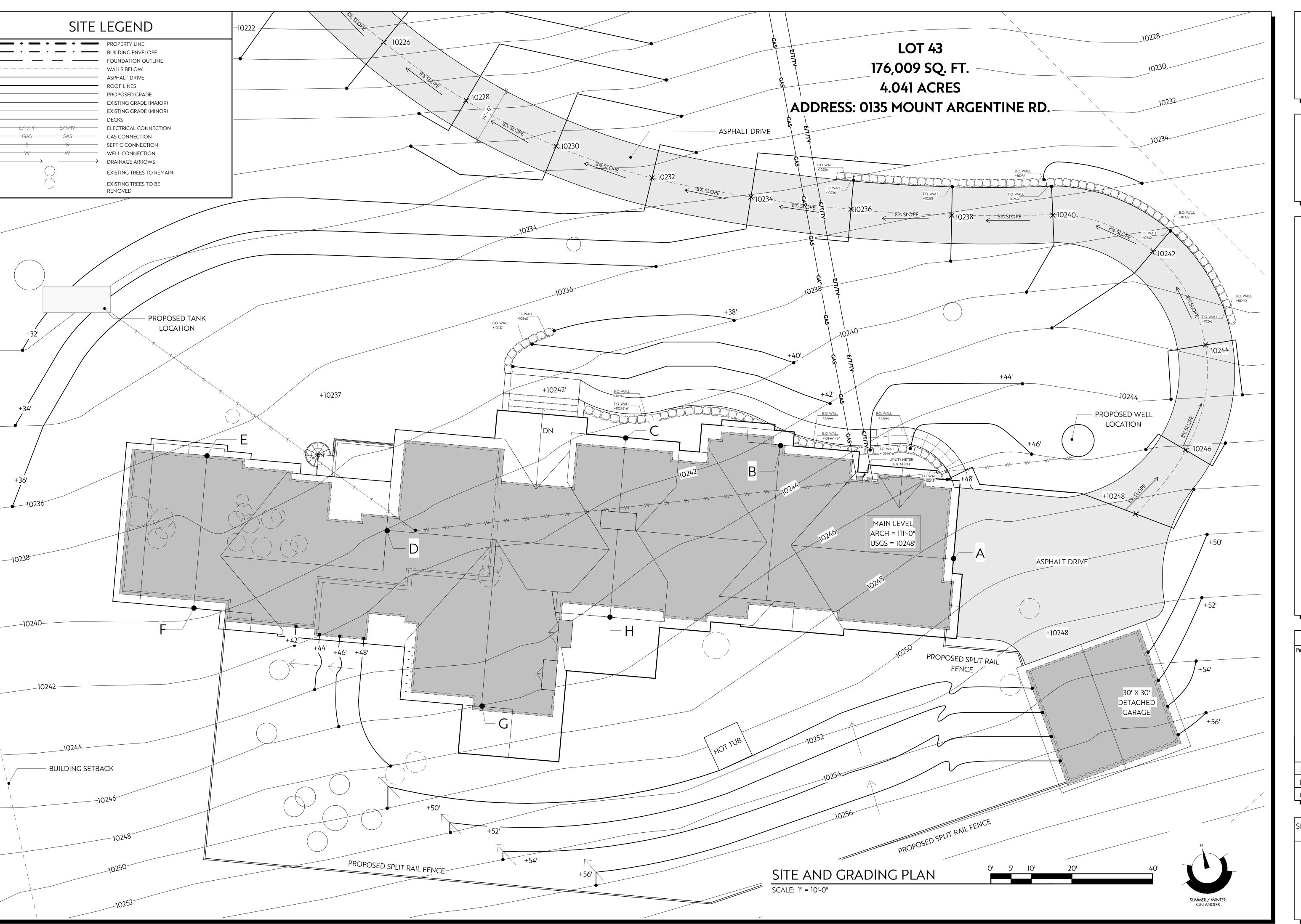


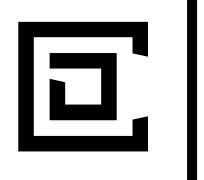


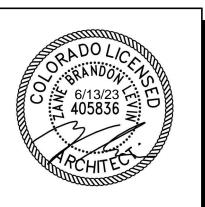
NALLE 2.0 RESIDENCE CO 80424

ISSUE				
Permit Set	06/13/2023			
JOB #:	262			
DRAWN BY:	MI			
CHECKED BY:	JM			

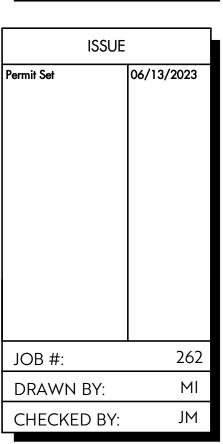
SP1.01





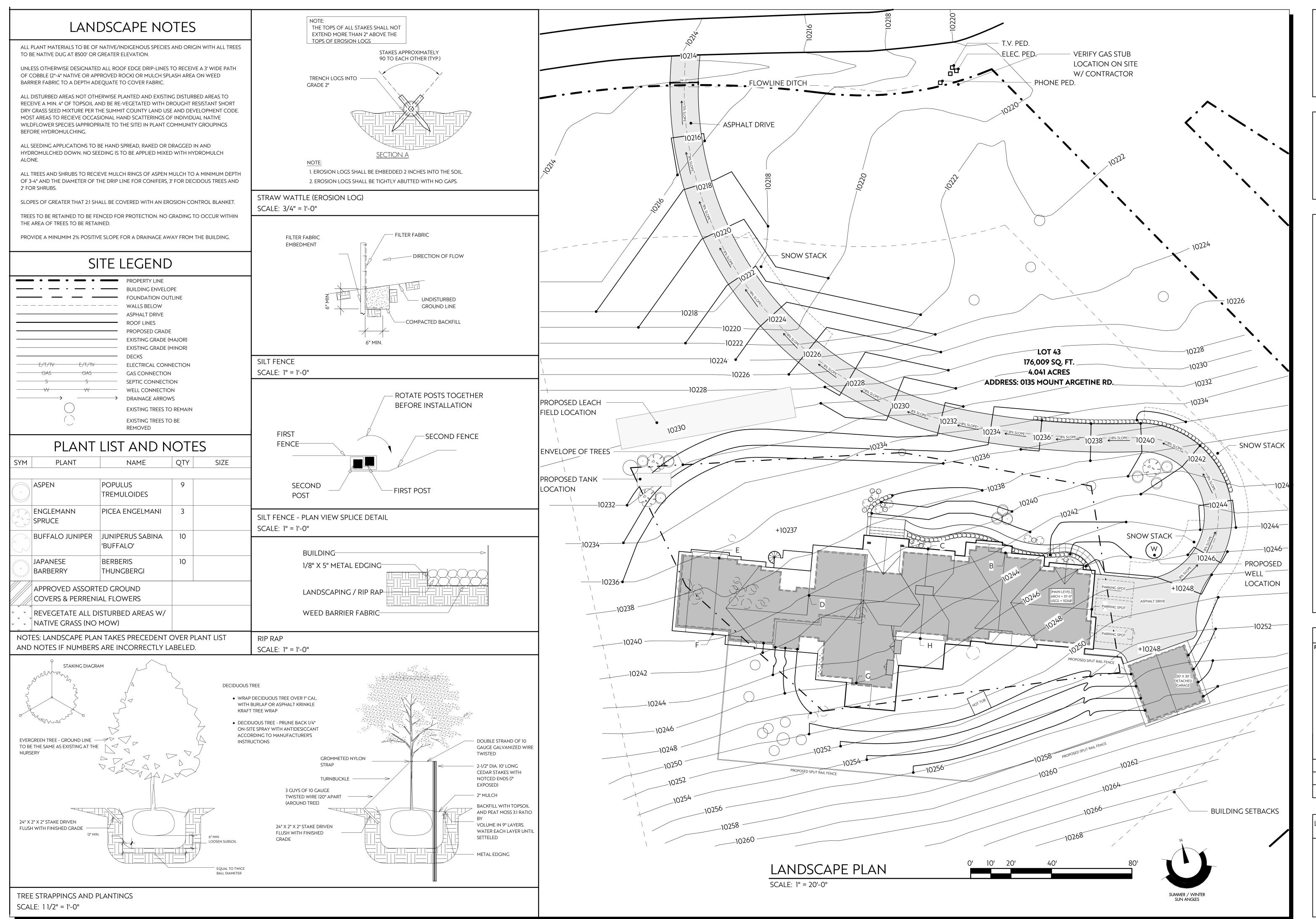


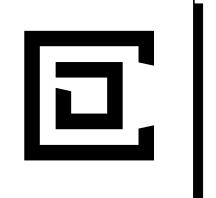


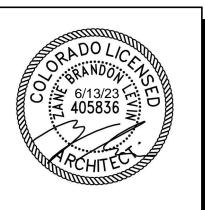


SITE AND GRADING PLAN

SP1.02



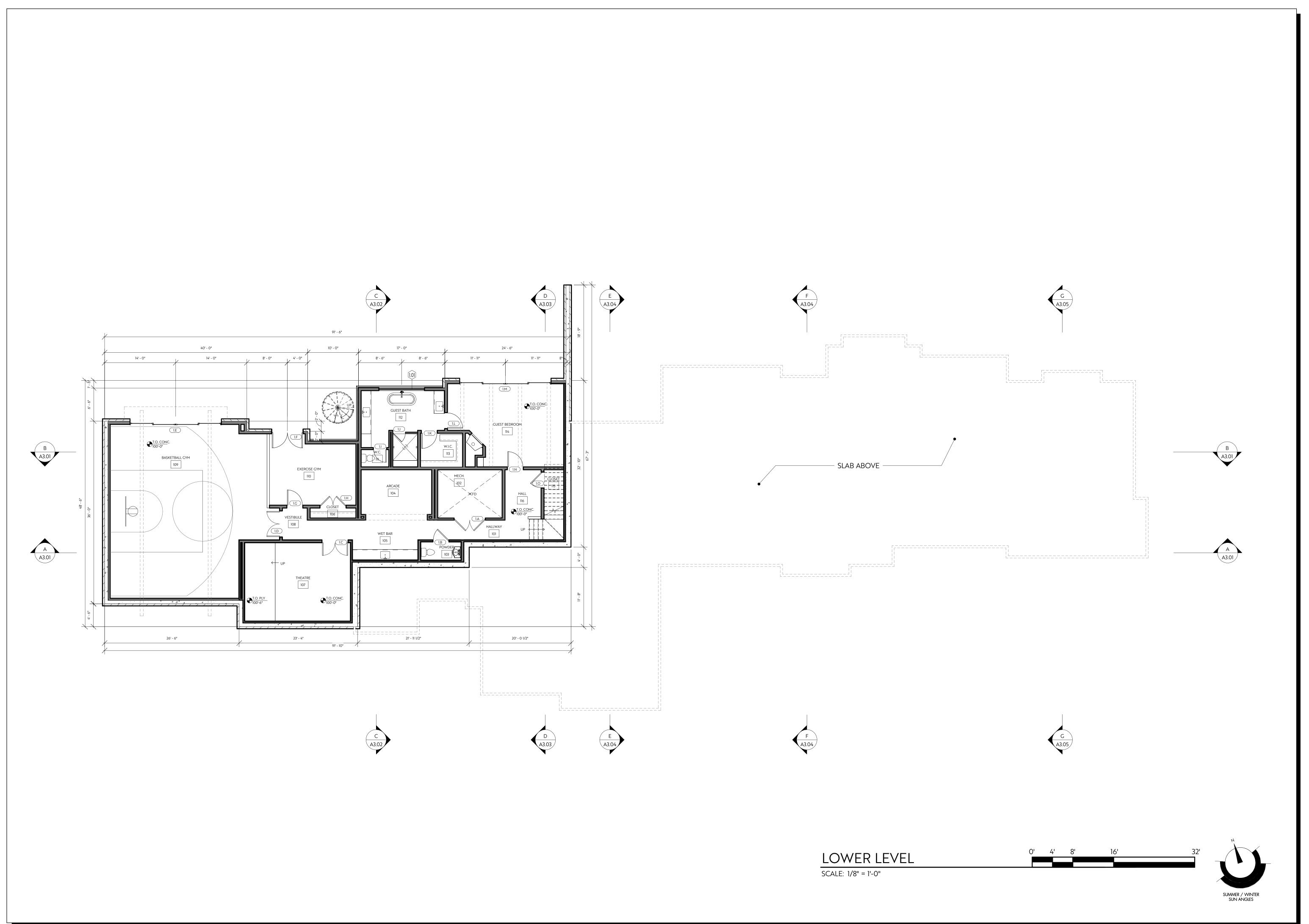




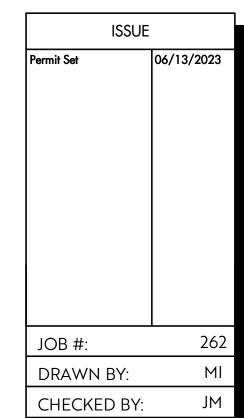
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LANDSCAPE PLAN

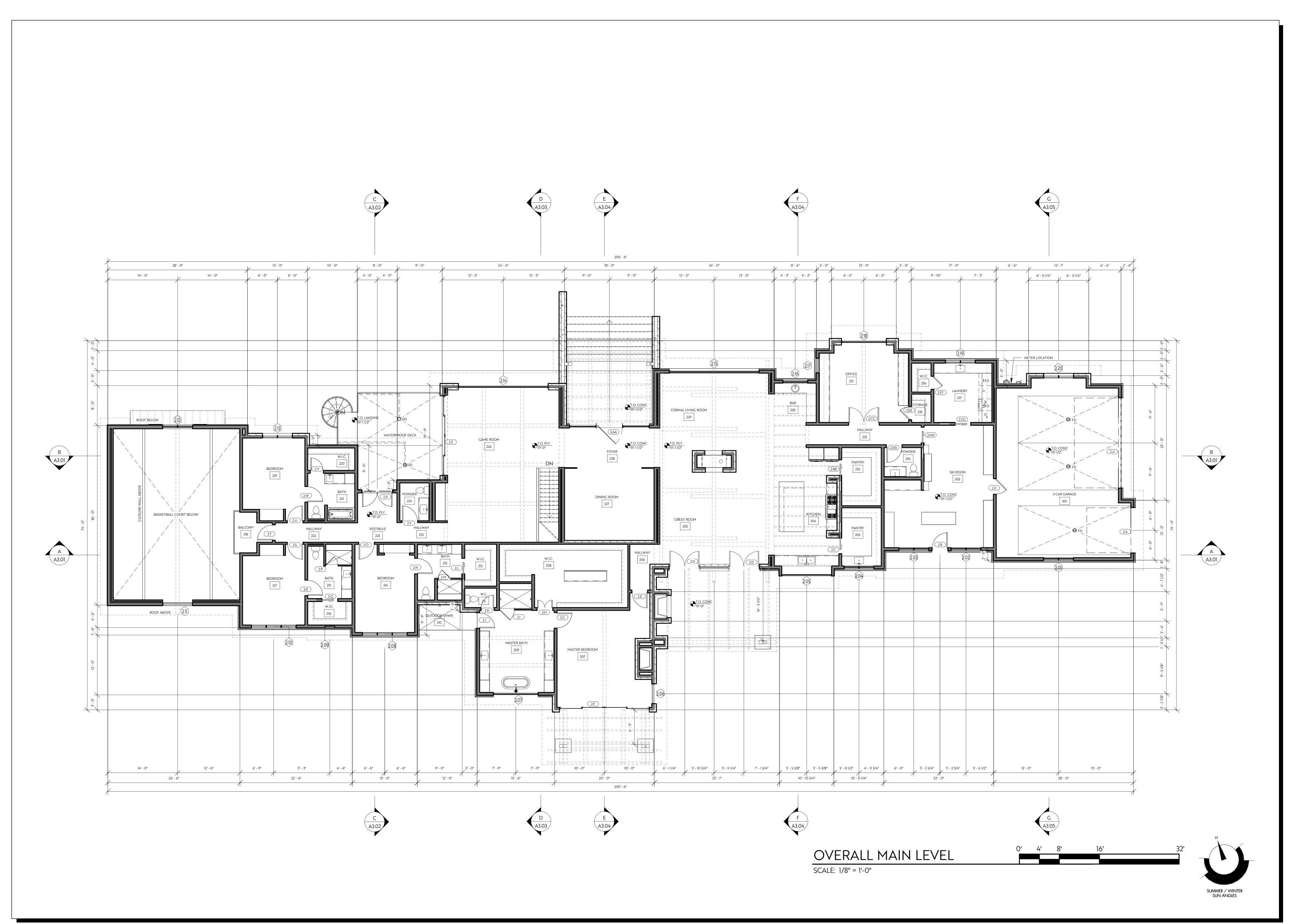
SP1.03

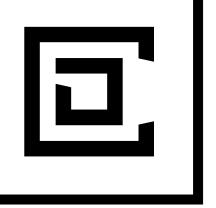


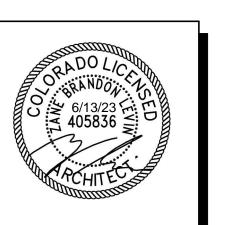


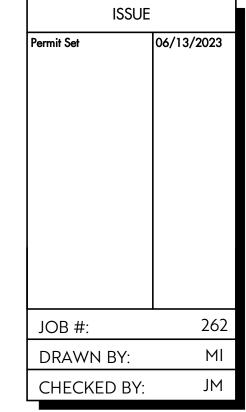


OVERALL LOWER LEVEL FLOOR PLAN

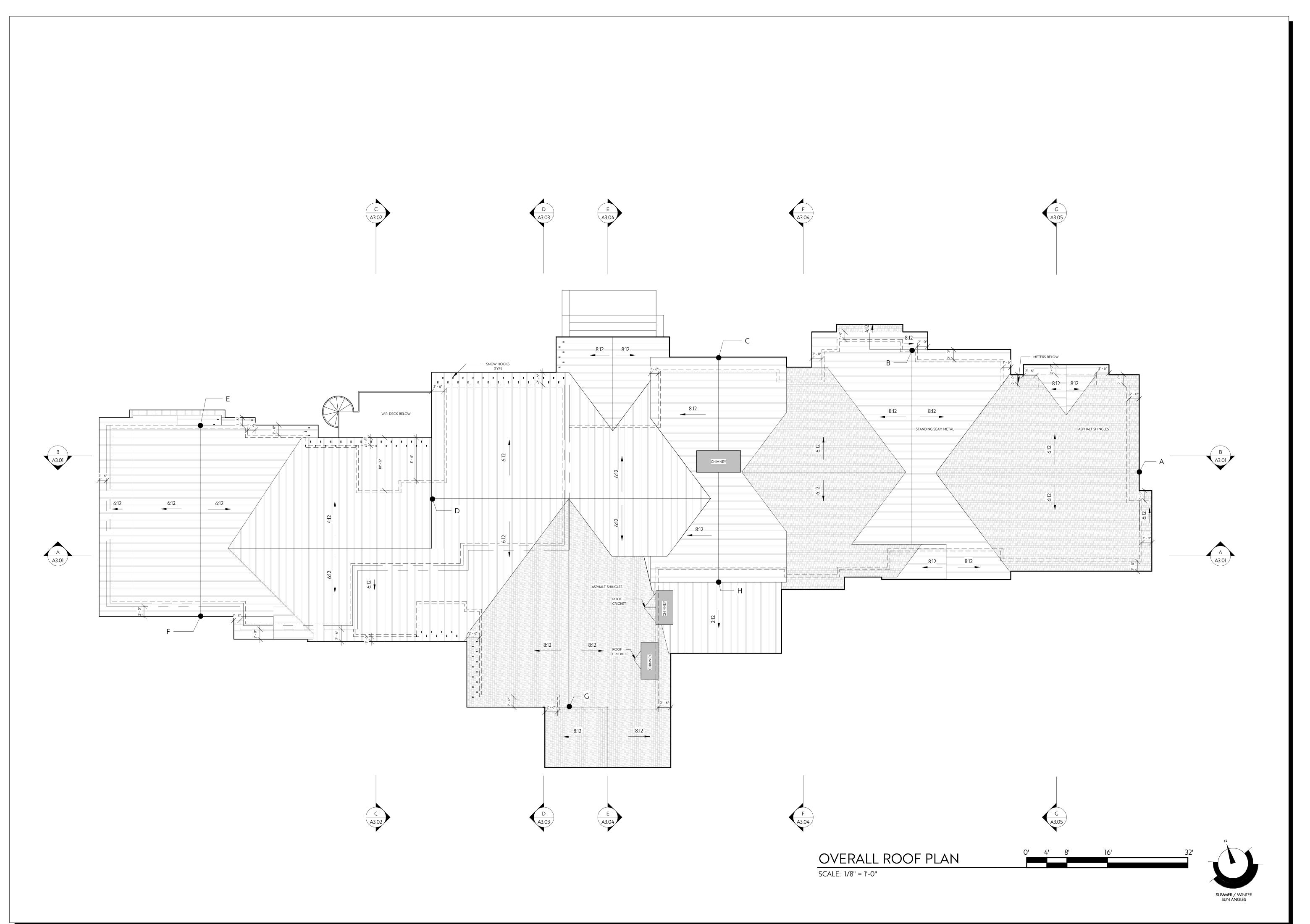




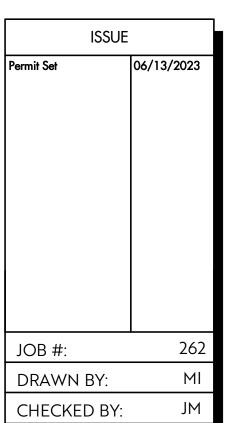




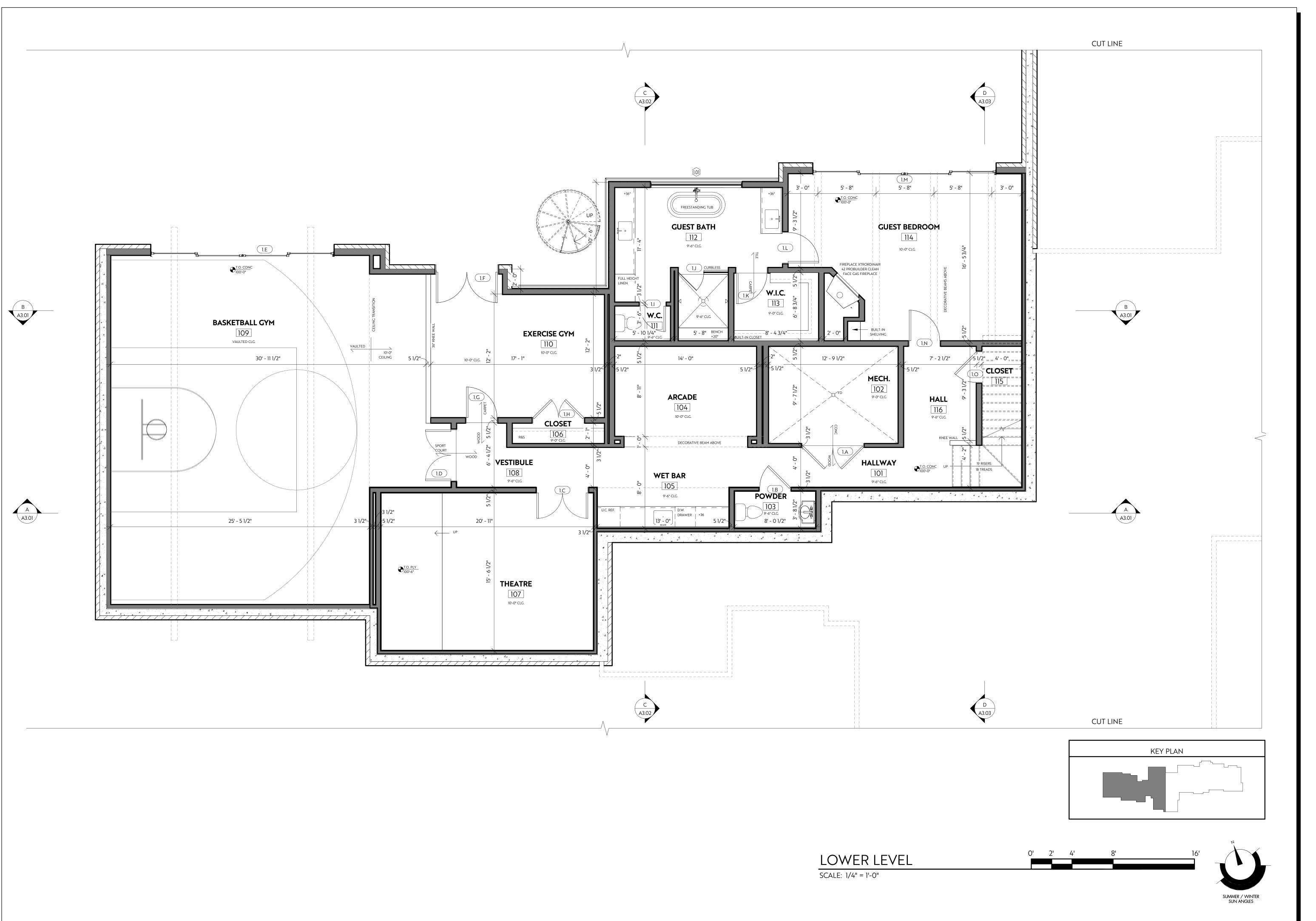
OVERALL MAIN LEVEL FLOOR PLAN



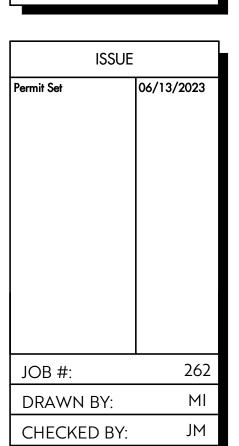




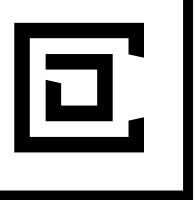
OVERALL ROOF PLAN

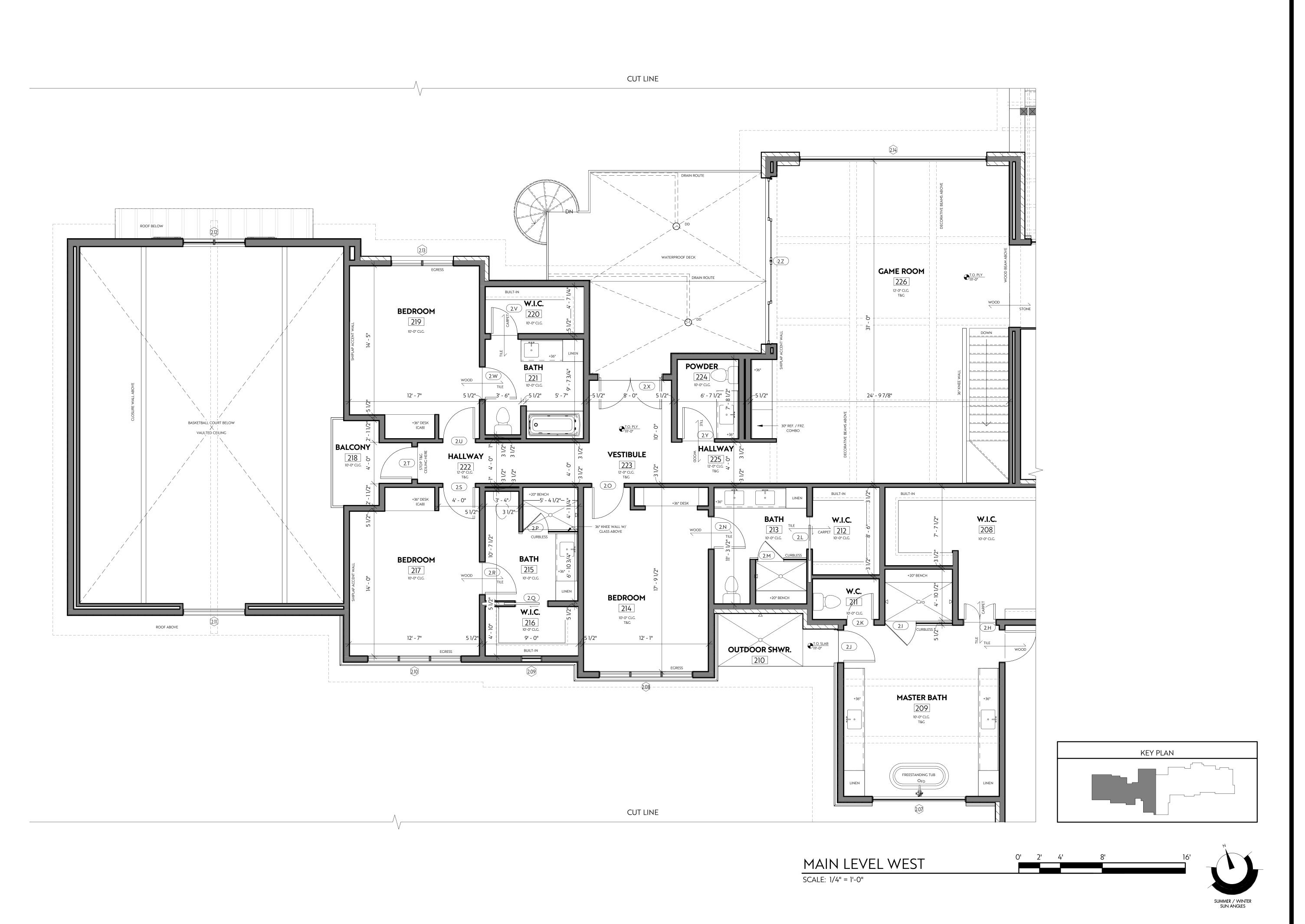


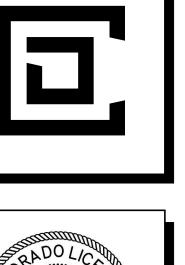




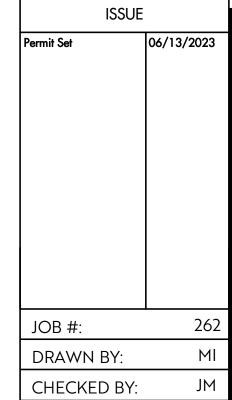
LOWER LEVEL PLAN



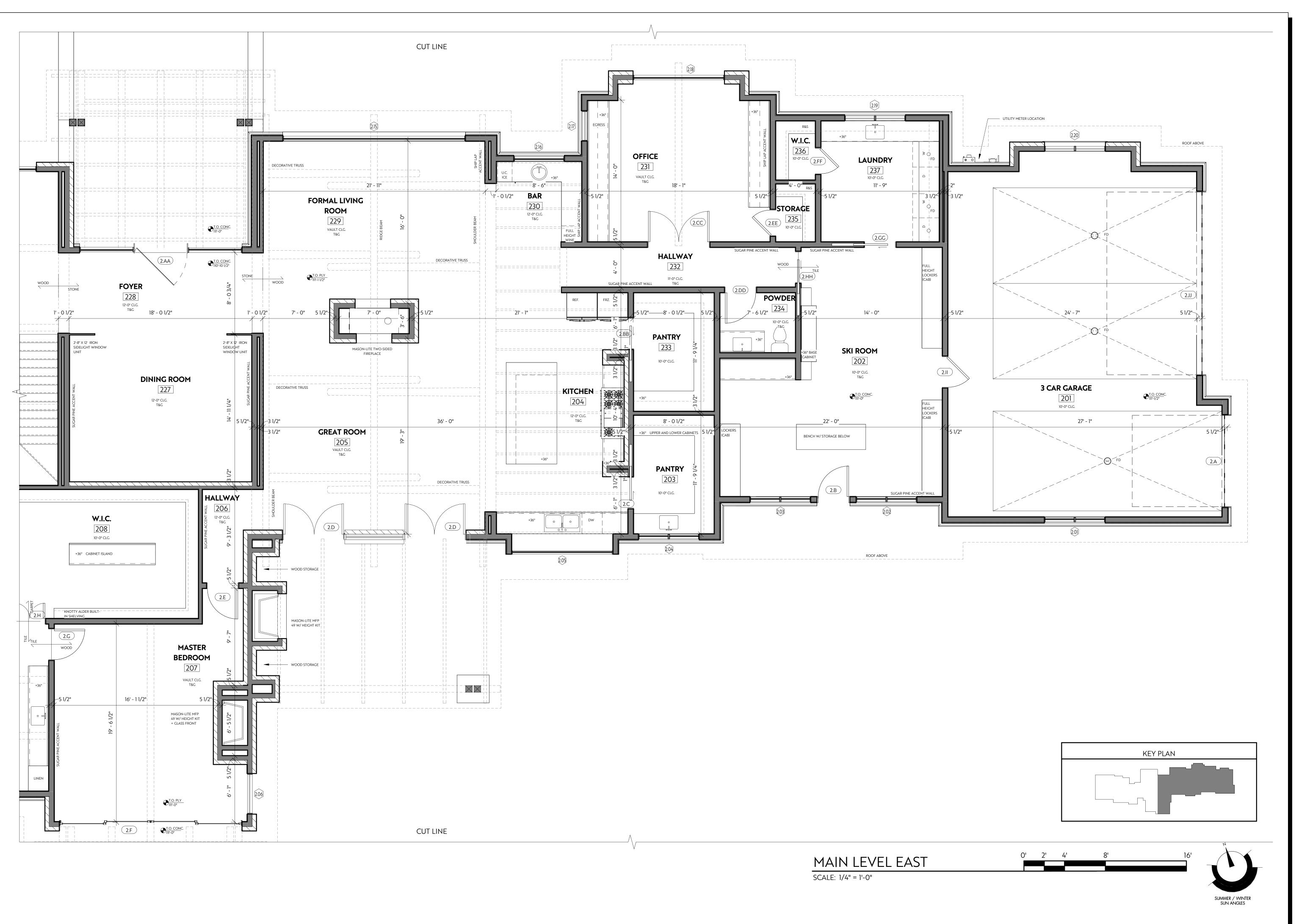


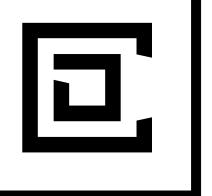


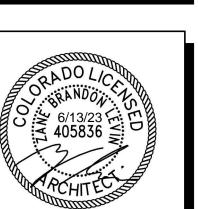


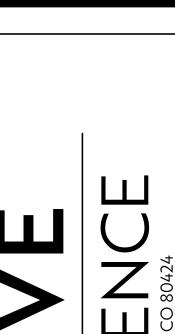


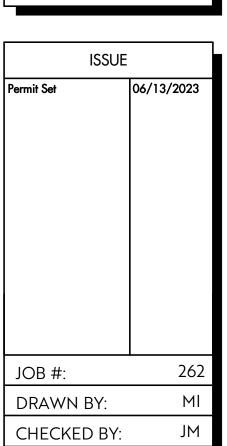
MAIN LEVEL WEST



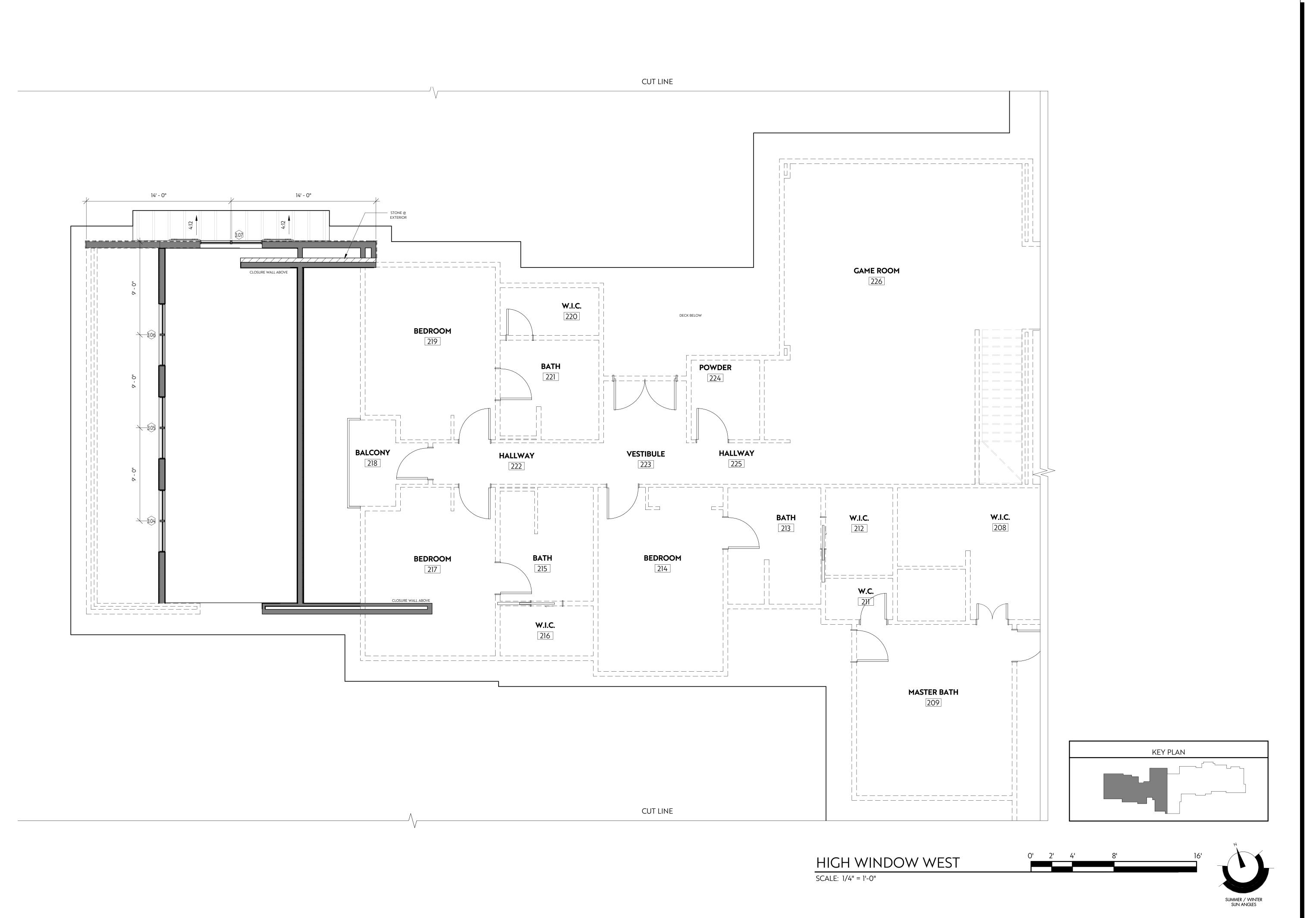


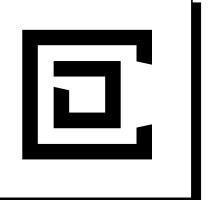




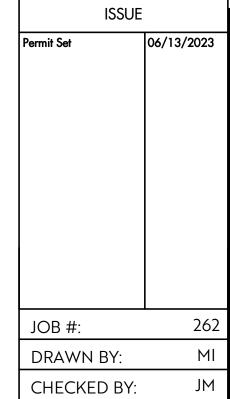


MAIN LEVEL EAST

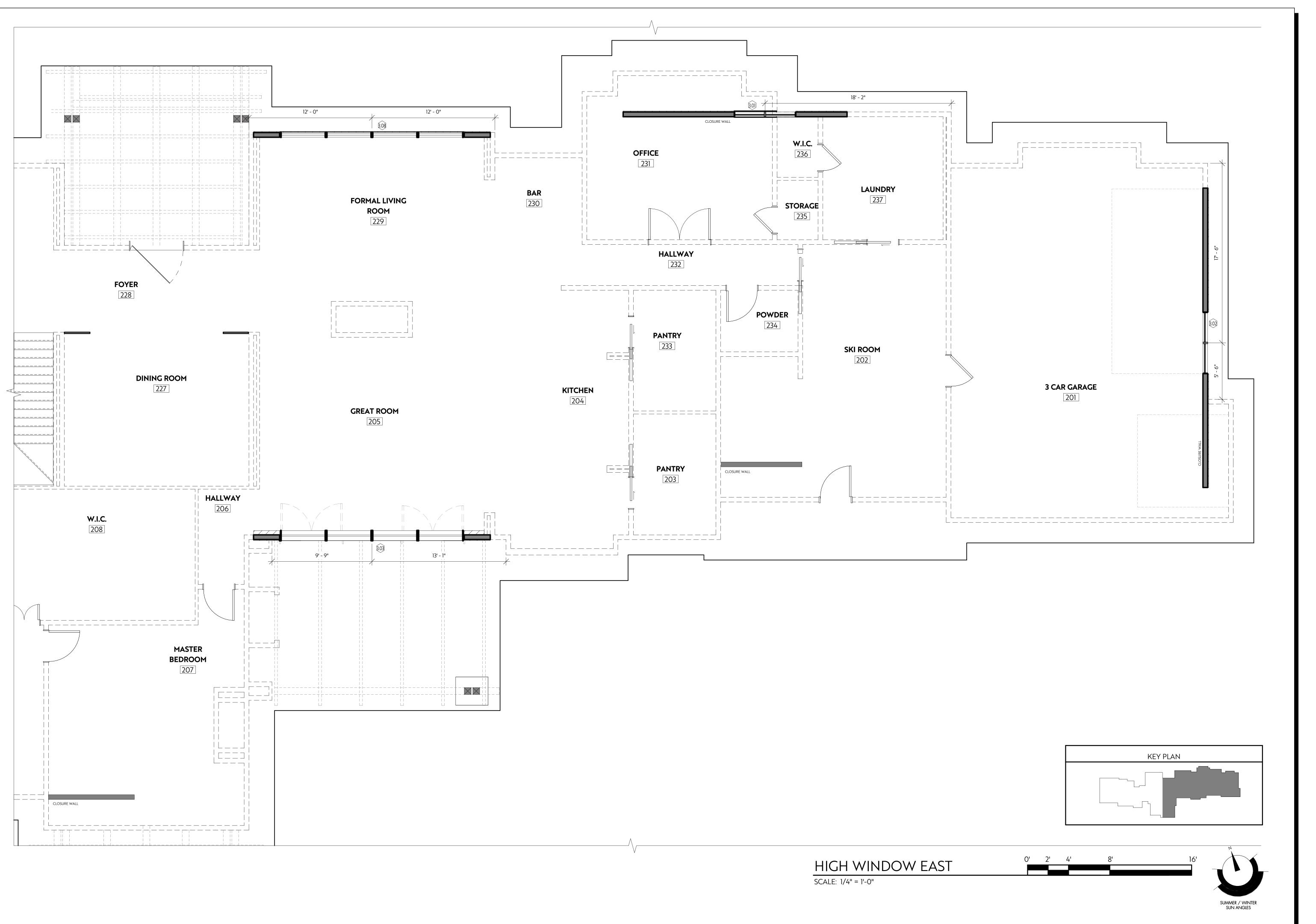


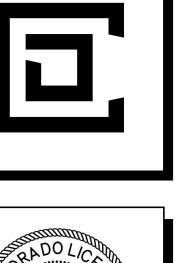




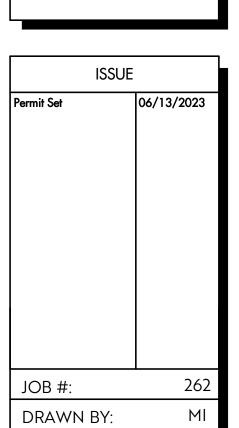


HIGH WINDOW WEST



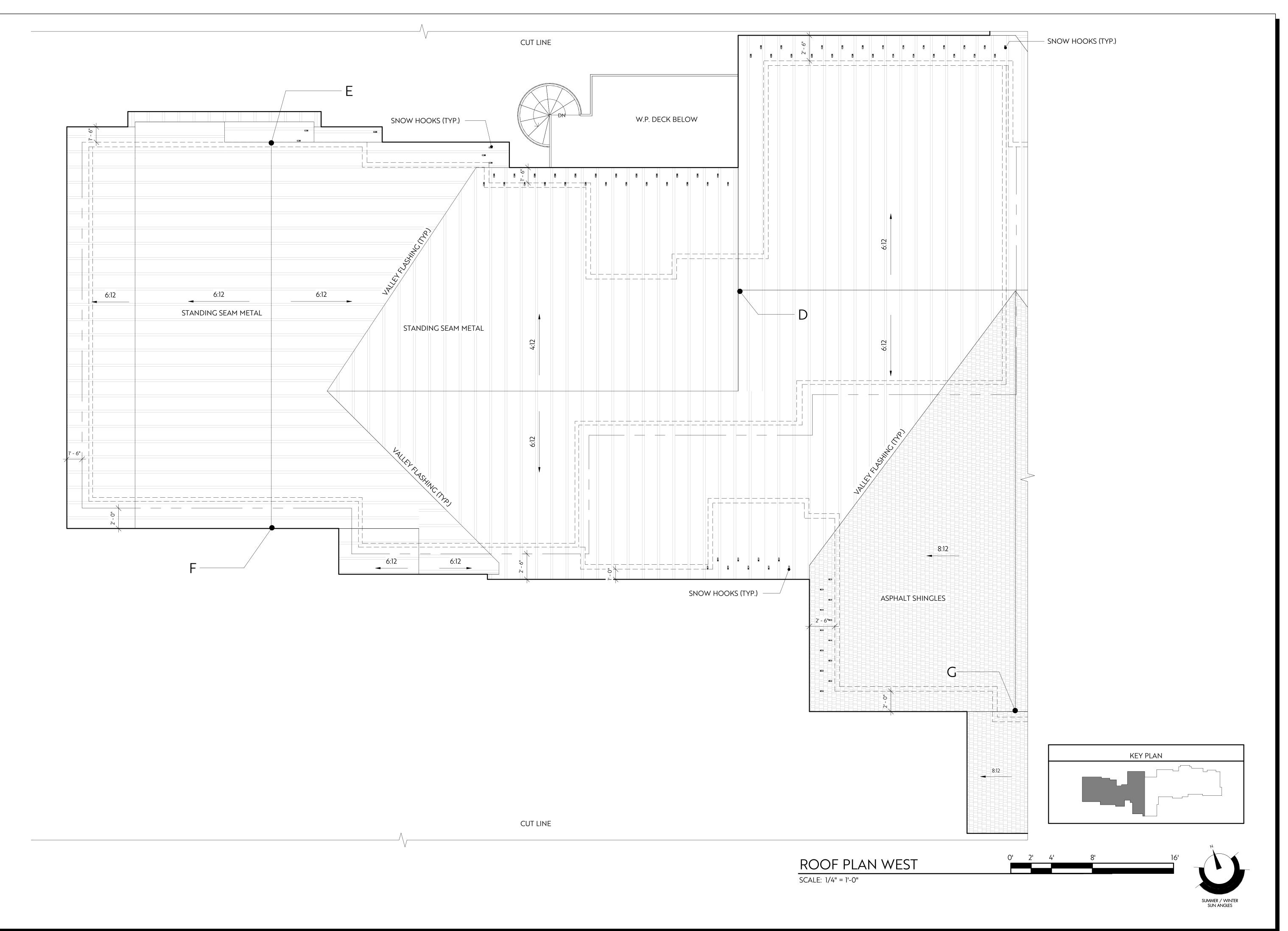


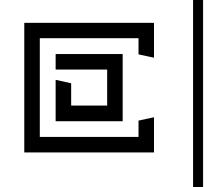


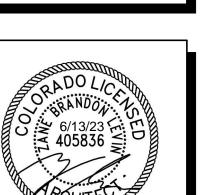


HIGH WINDOW EAST

CHECKED BY:









ISSUE

Permit Set

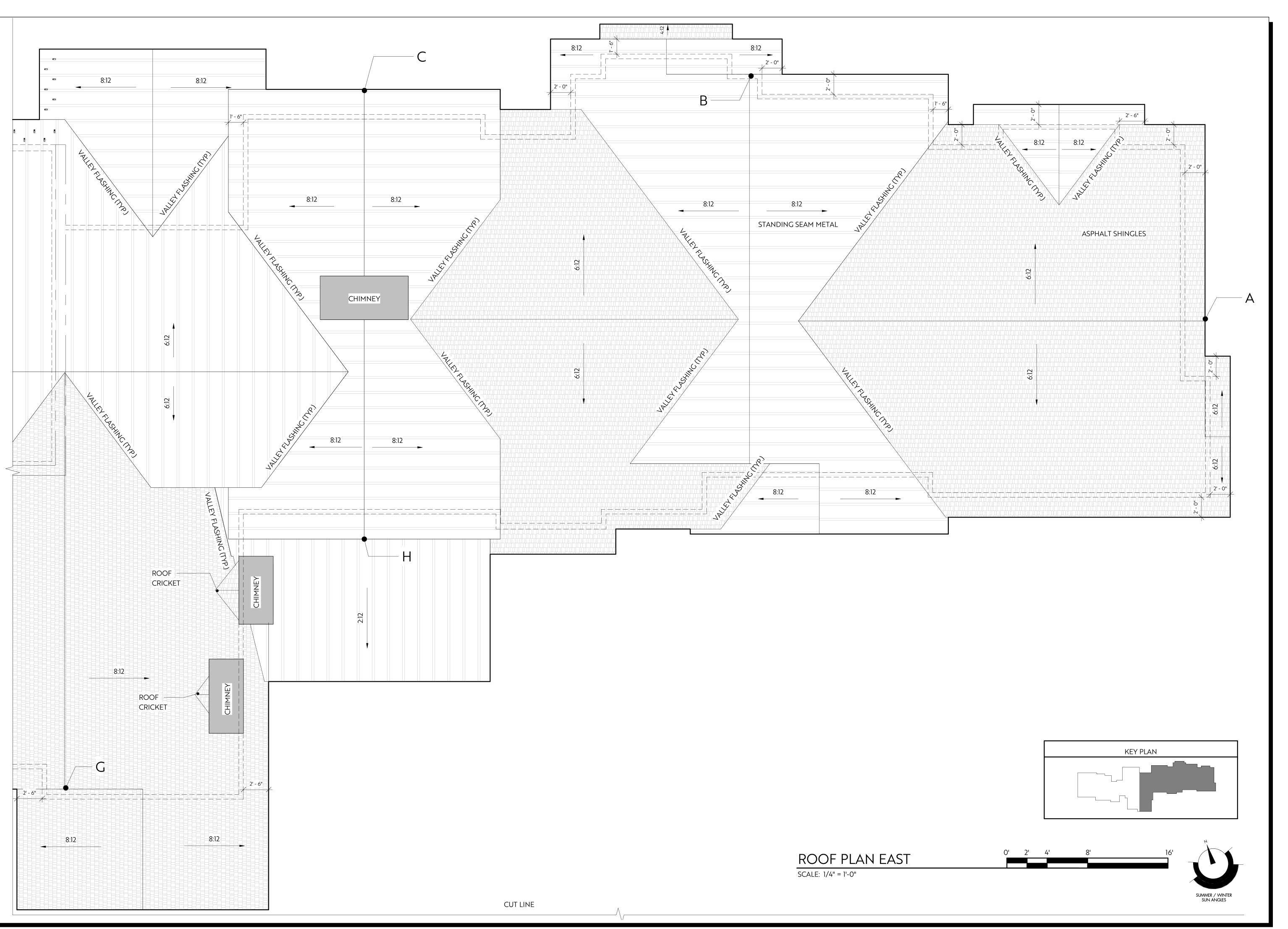
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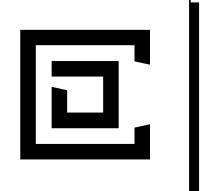
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DRAWN BY: MI

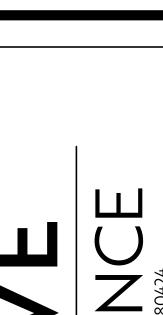
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ROOF PLAN WEST









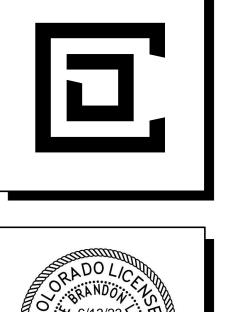
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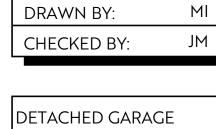
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ROOF PLAN EAST



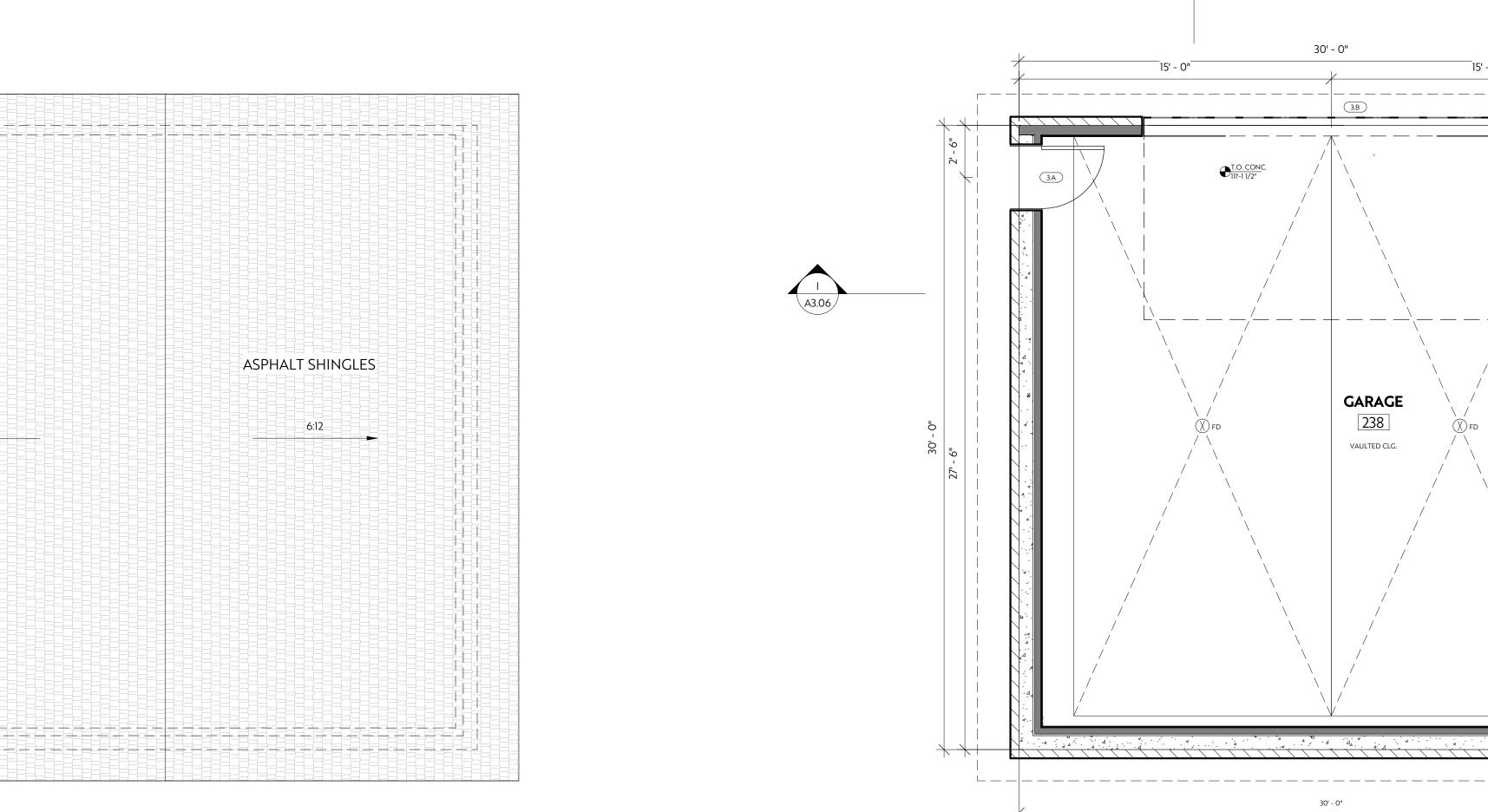


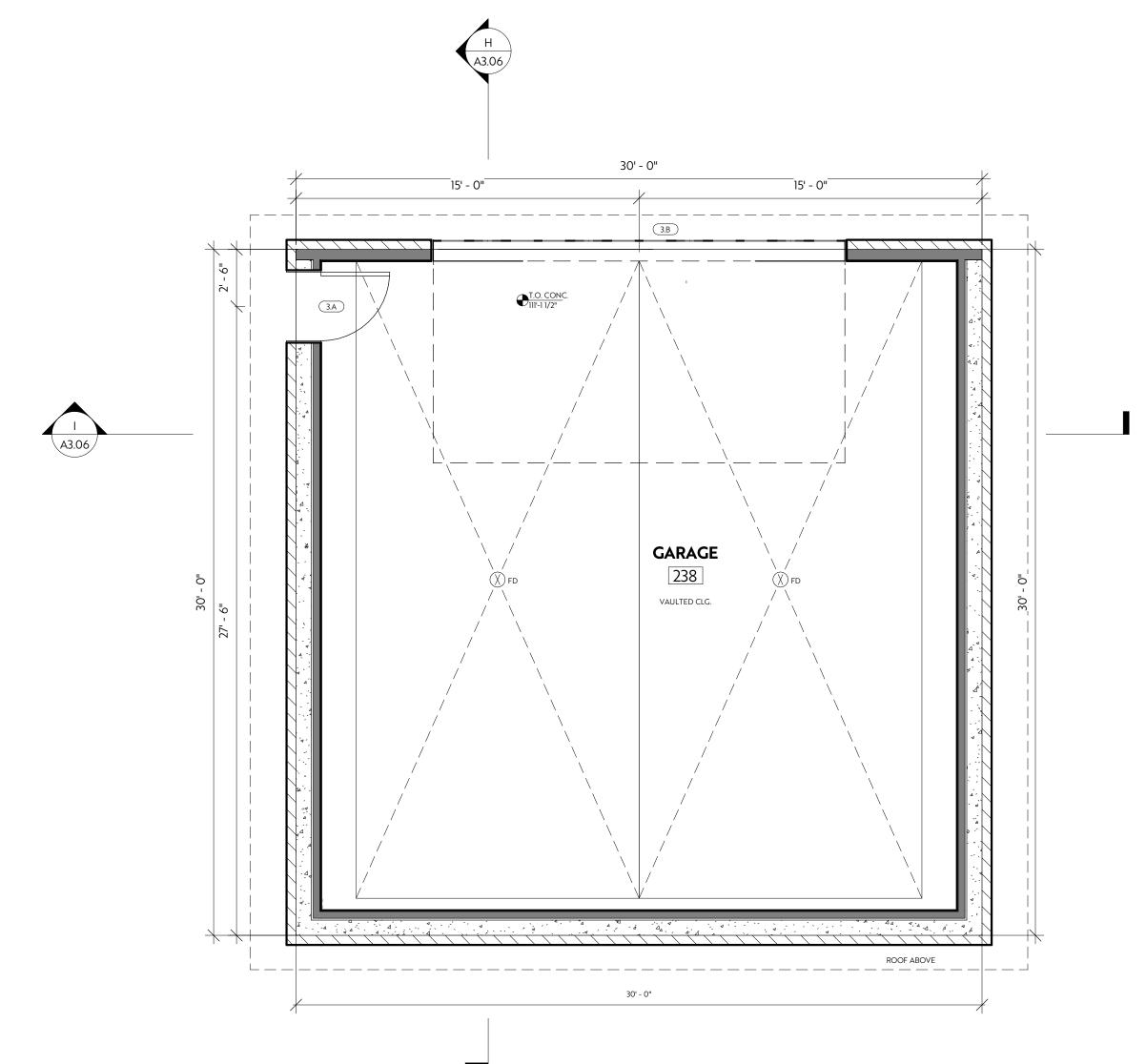
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06/13/2023

A1.11

DETACHED GARAGE PLAN

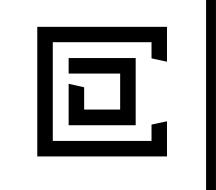


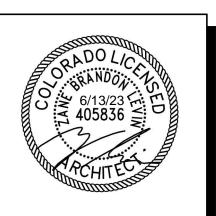


DETACHED GARAGE ROOF PLAN SCALE: 1/4" = 1'-0"

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

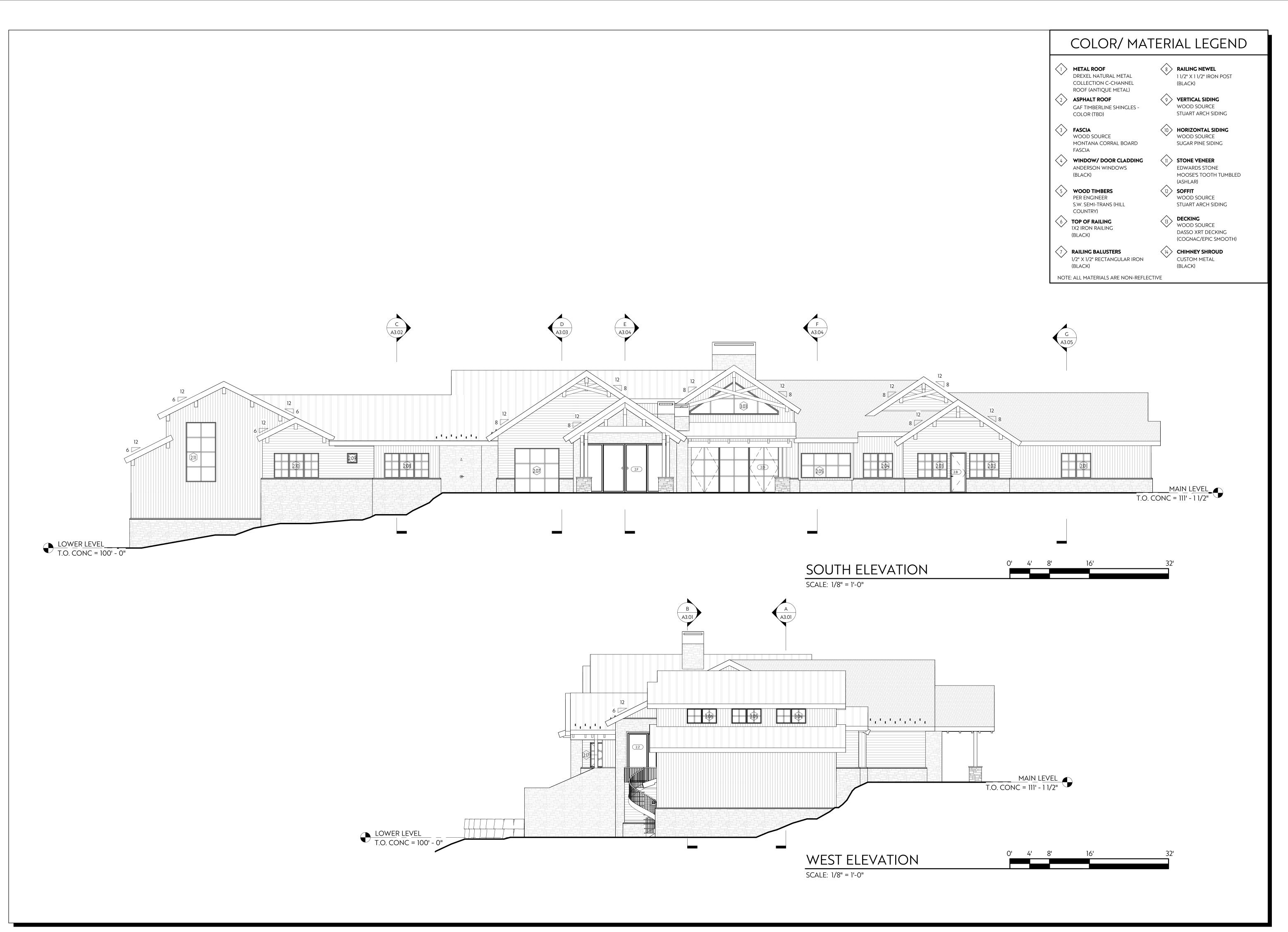


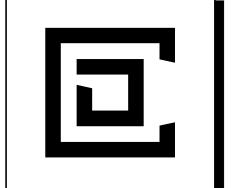






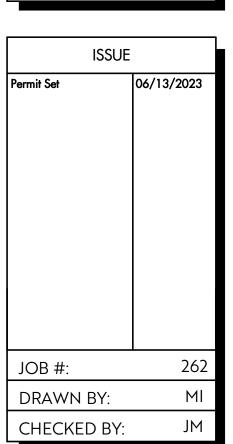
OVERALL BUILDING ELEVATIONS







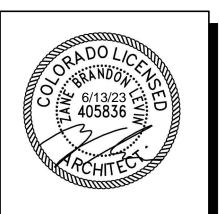
NALLE 2.0 RESIDENCE OI35 MOUNT ARGENTINE RD (CR 598) BRECKENRIDGE, CO 80424



OVERALL BUILDING ELEVATIONS

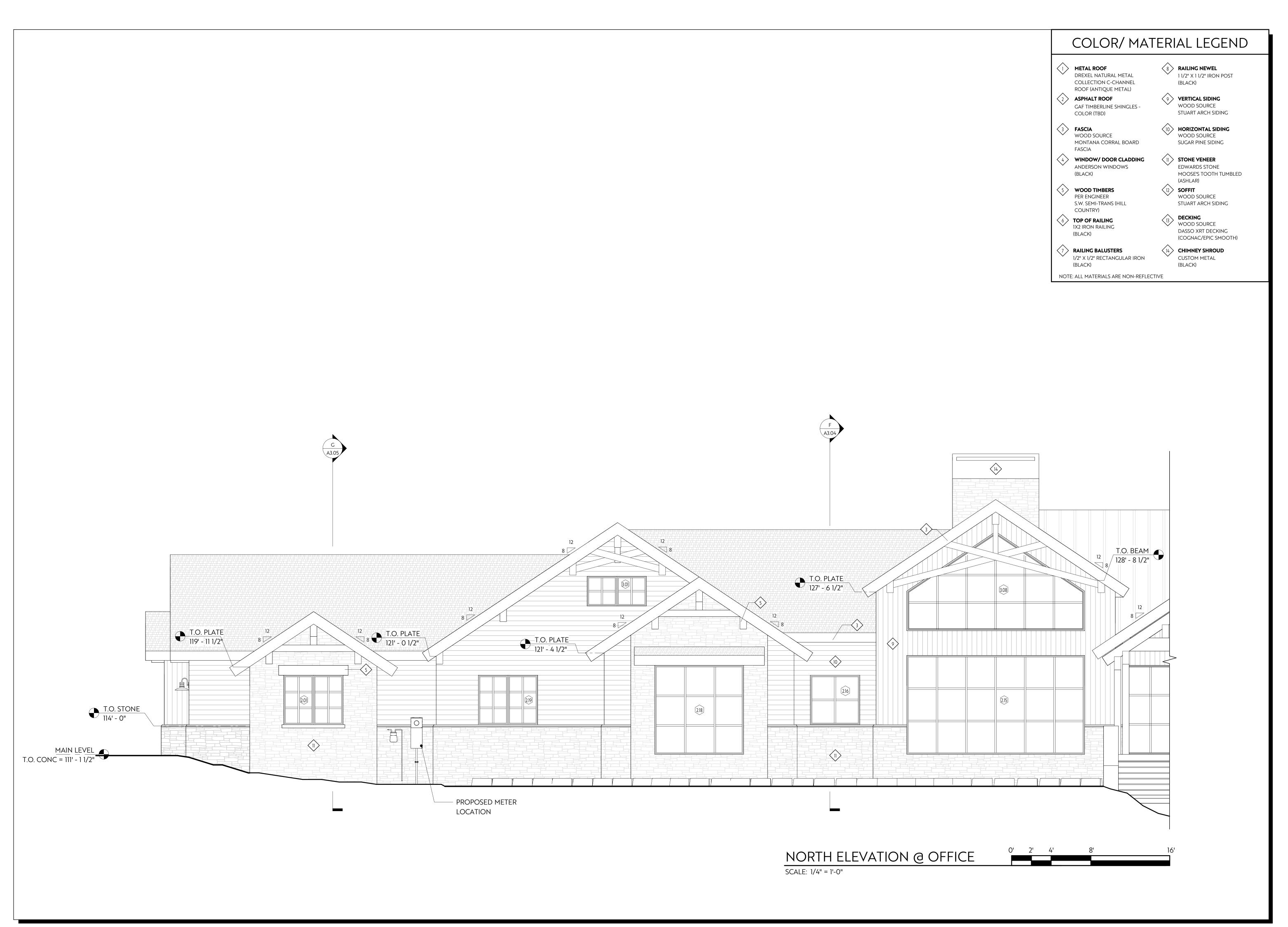


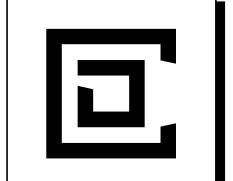




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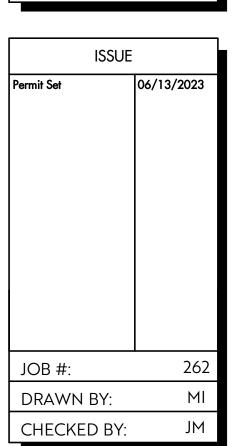
BUILDING ELEVATION



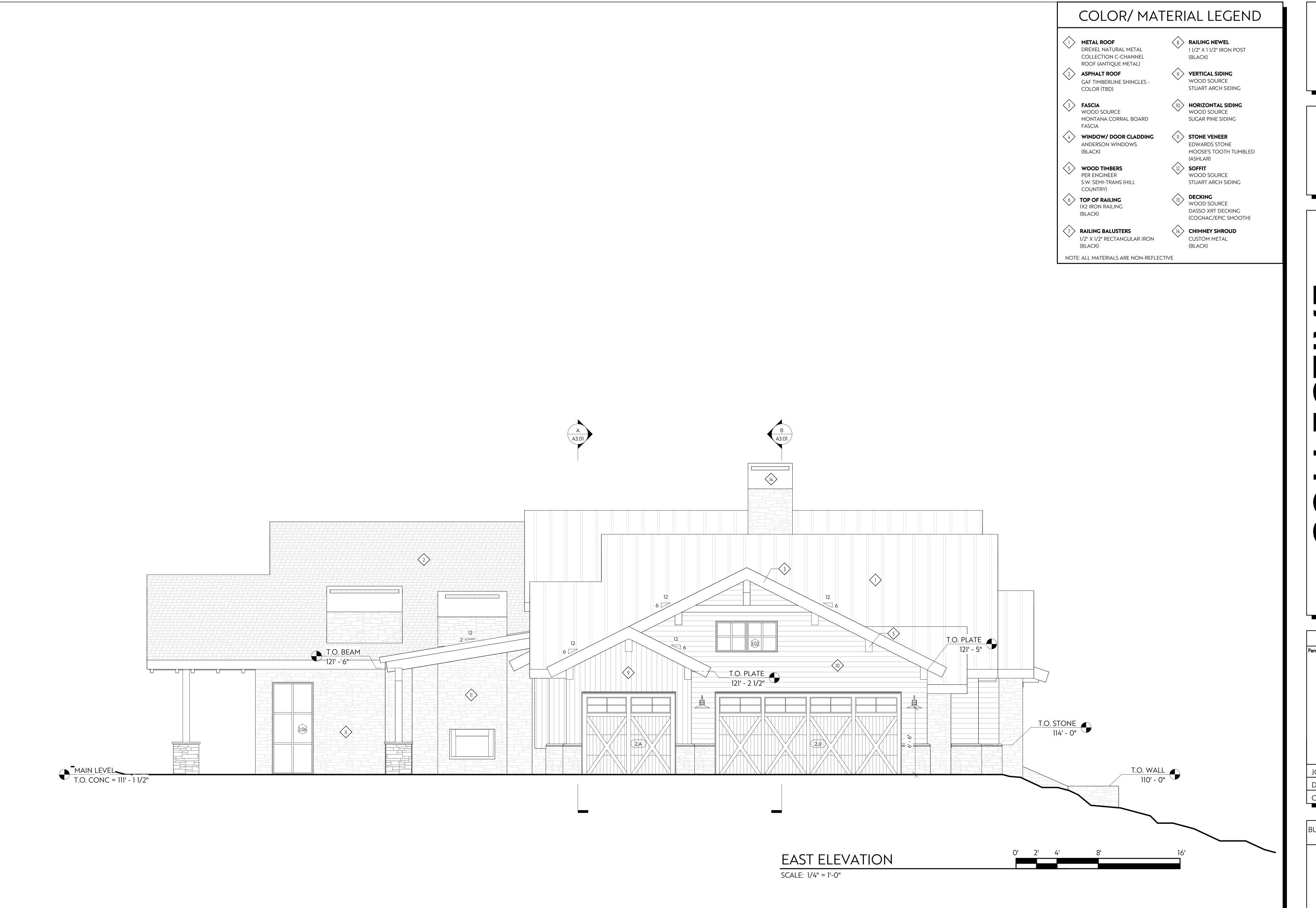


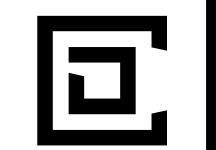


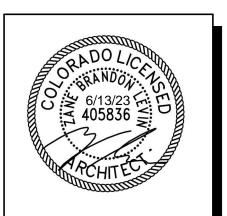
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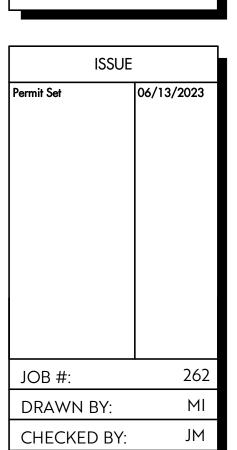
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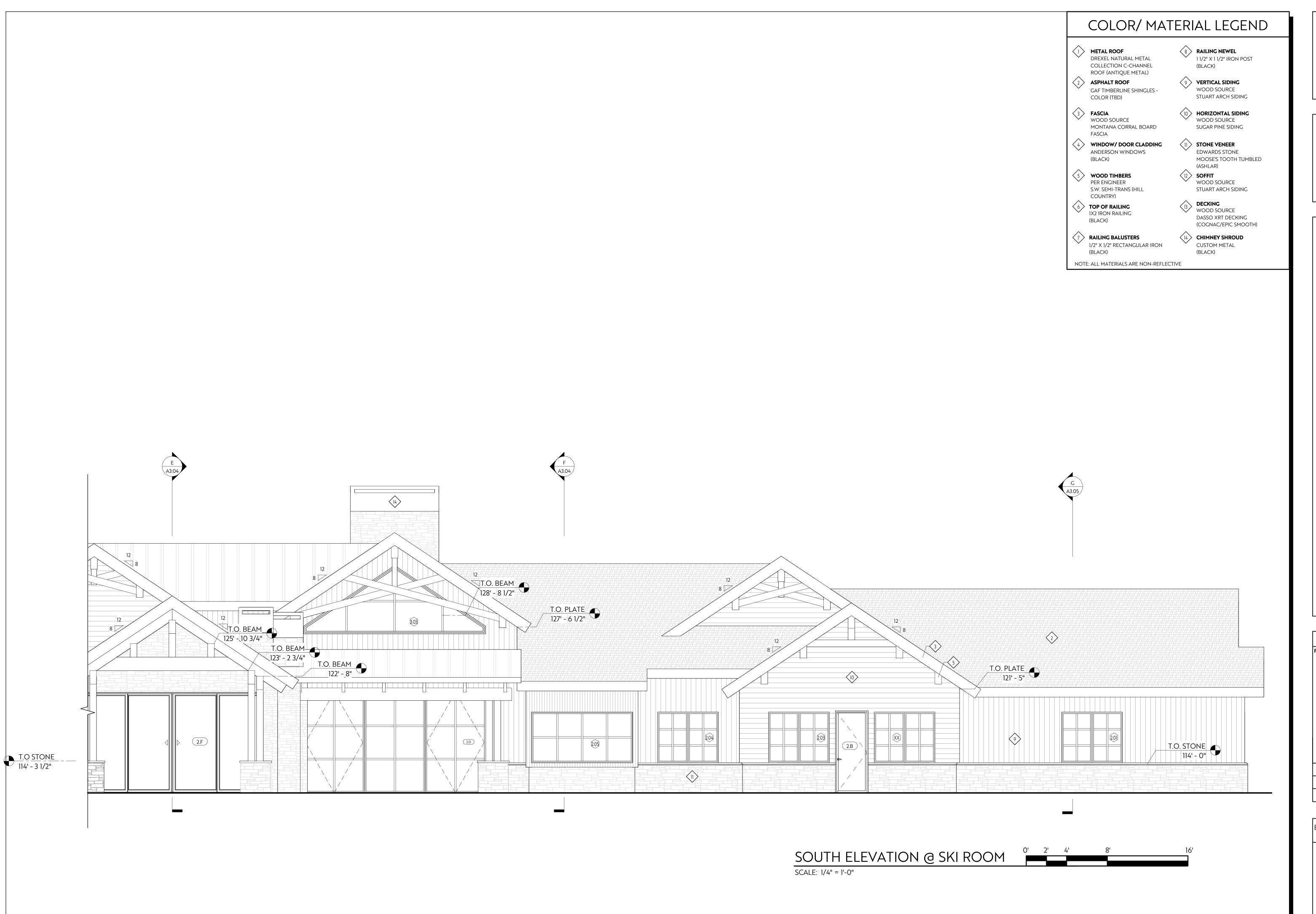


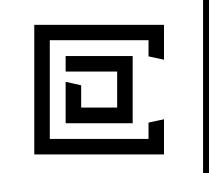


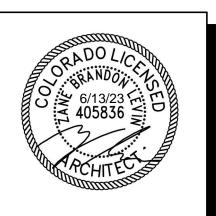


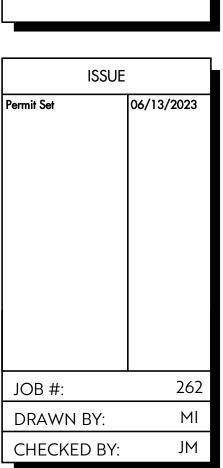


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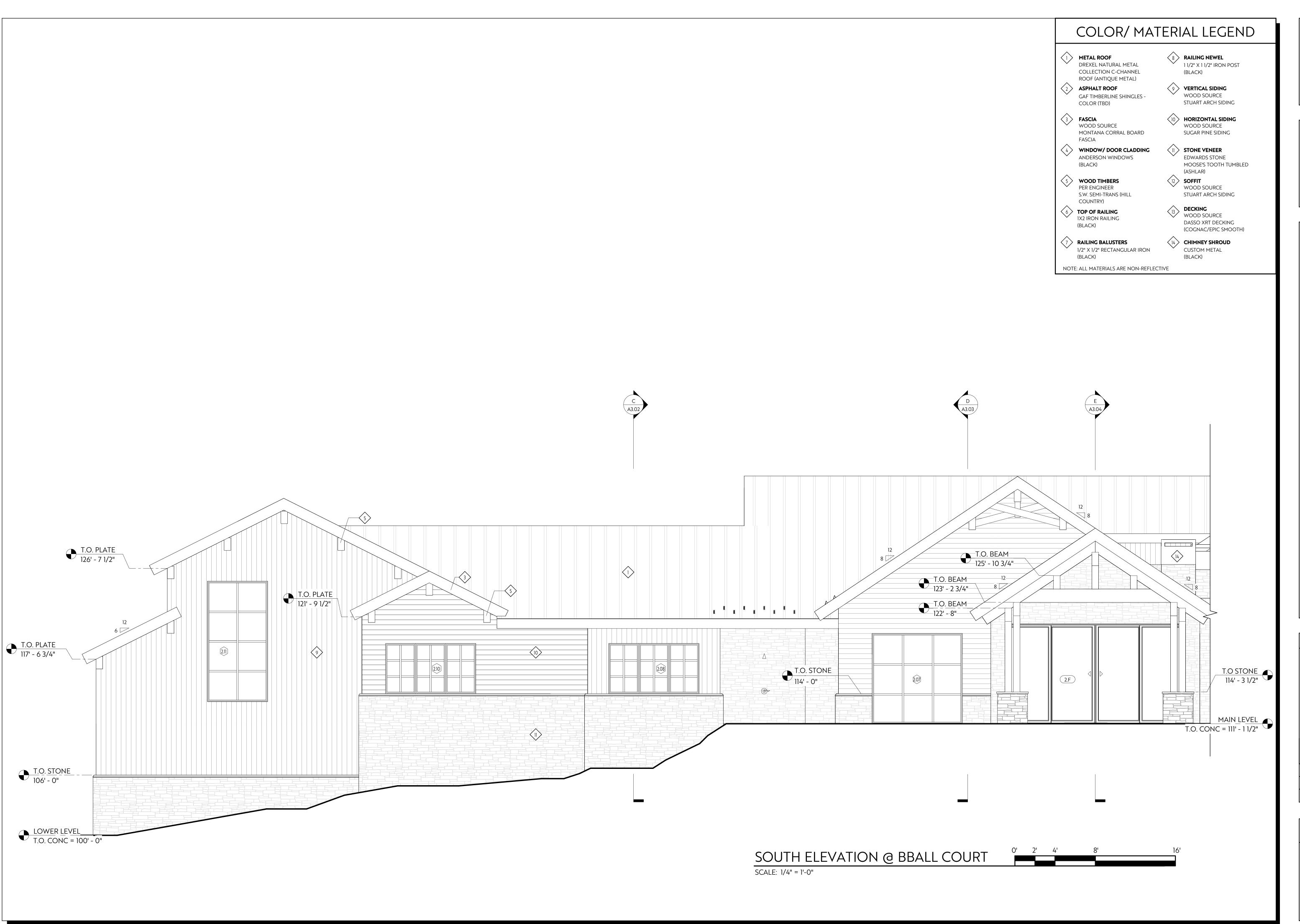


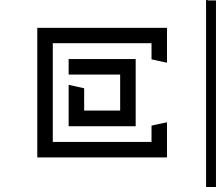


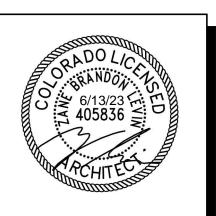




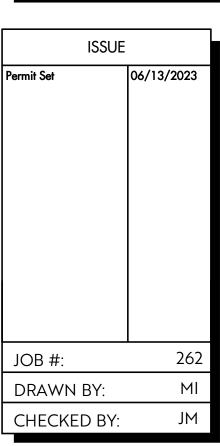
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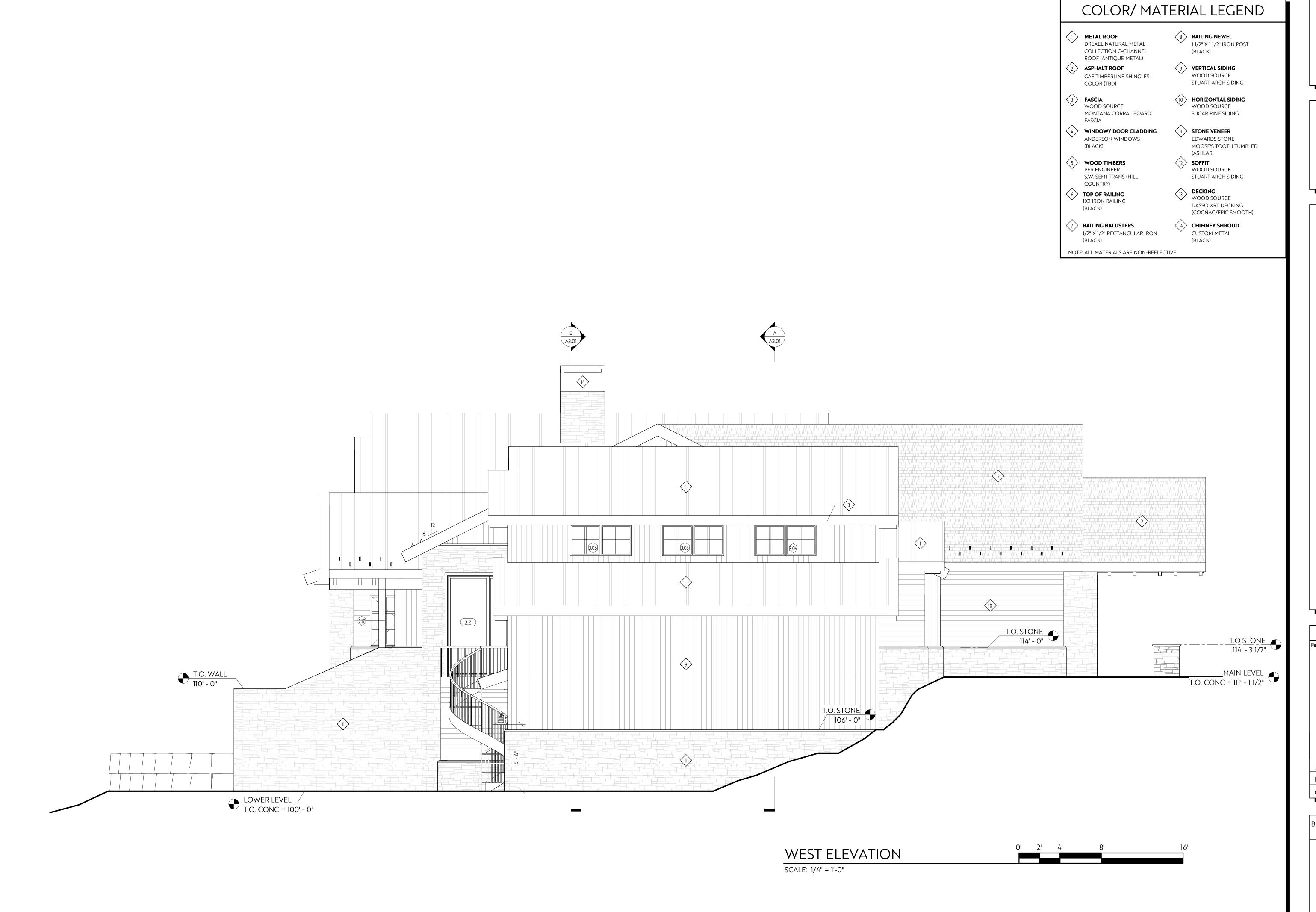


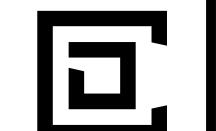


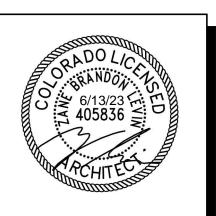
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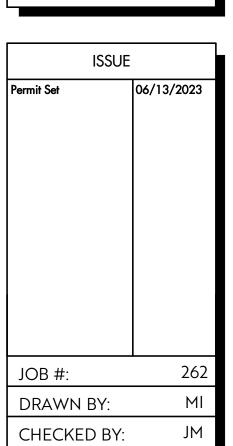


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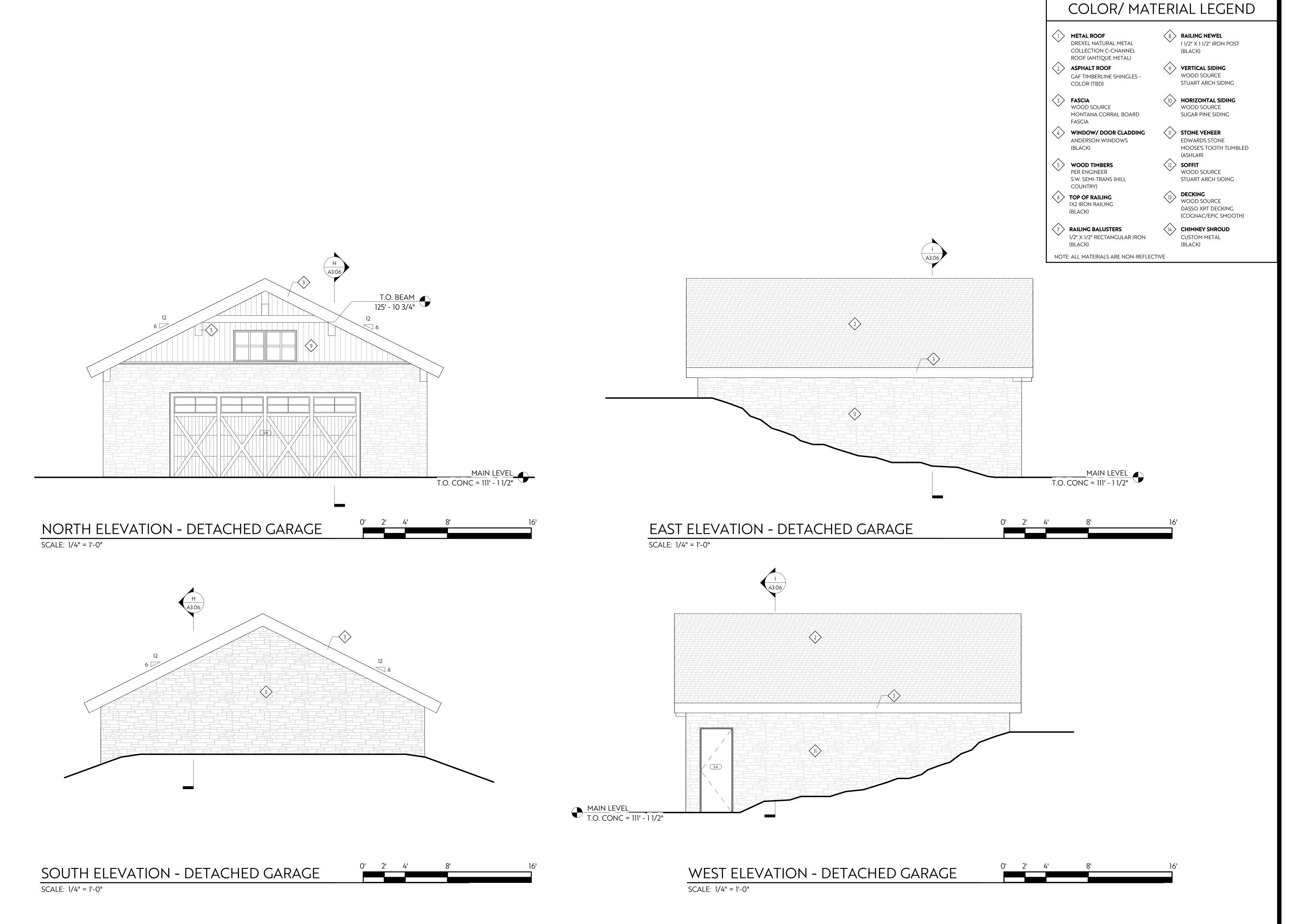


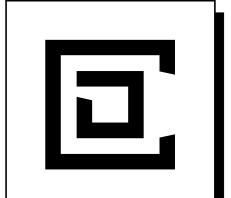






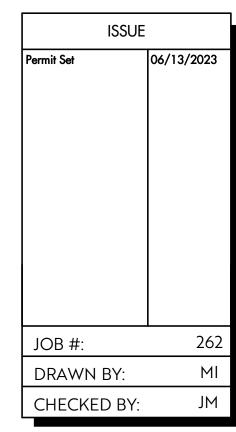
BUILDING ELEVATION



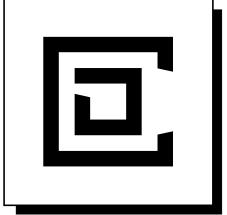




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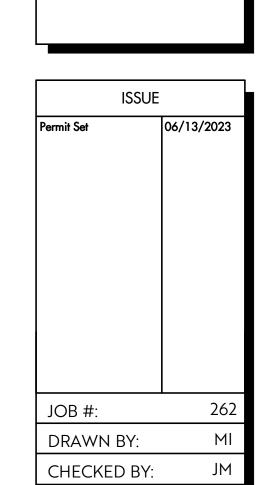


GARAGE ELEVATIONS





ALLE Z.O RESIDENCE OR SOLVE TO SOLVE TO



BUILDING PERSPECTIVES

A2.10





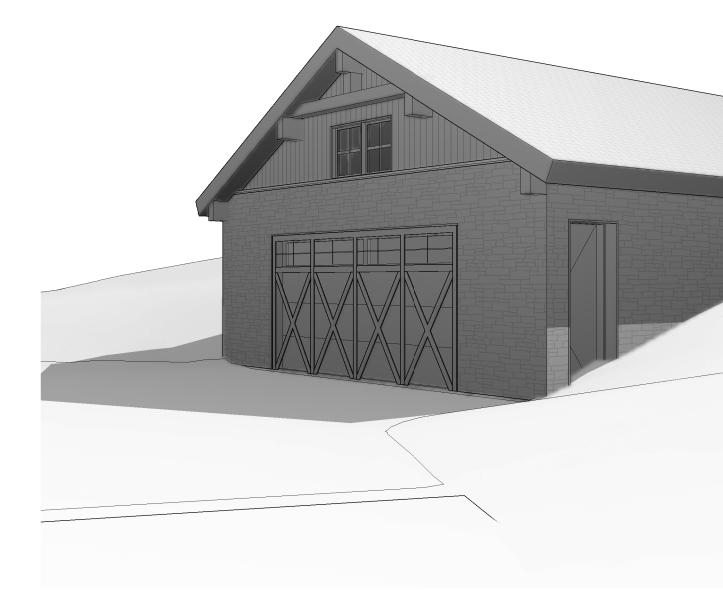


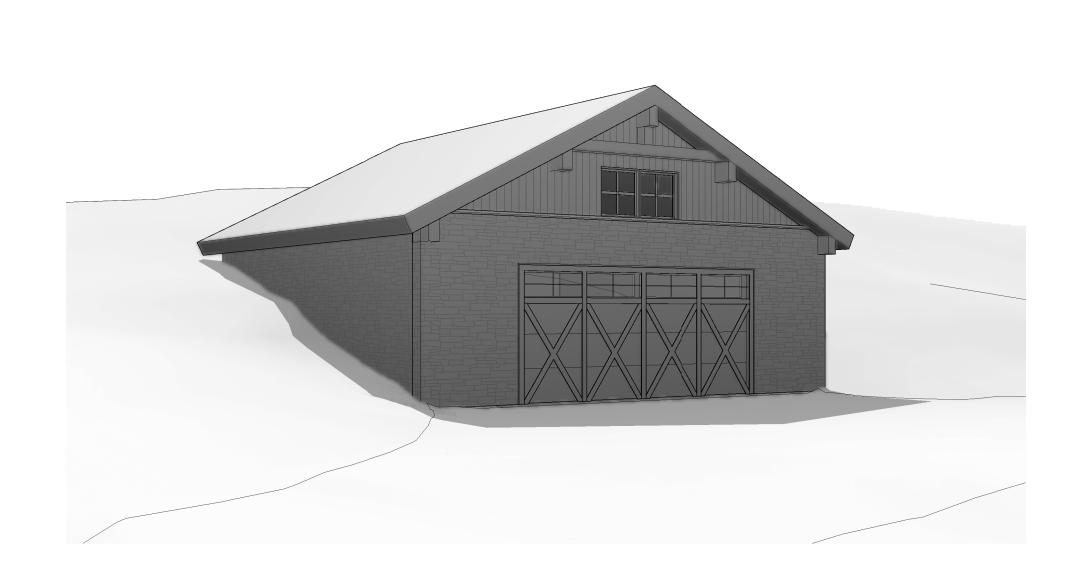


BUILDING PERSPECTIVES

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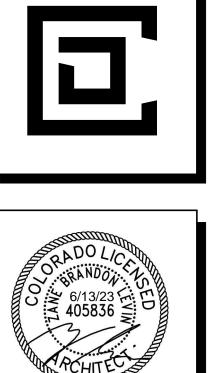








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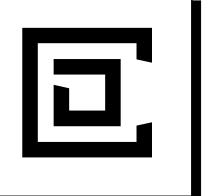


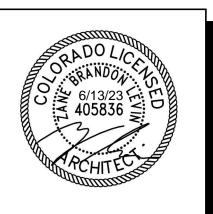
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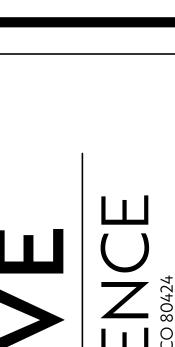
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JOB #:	262
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CHECKED BY:	JM

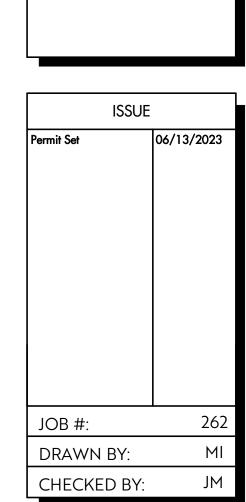
GARAGE PERSPECTIVES





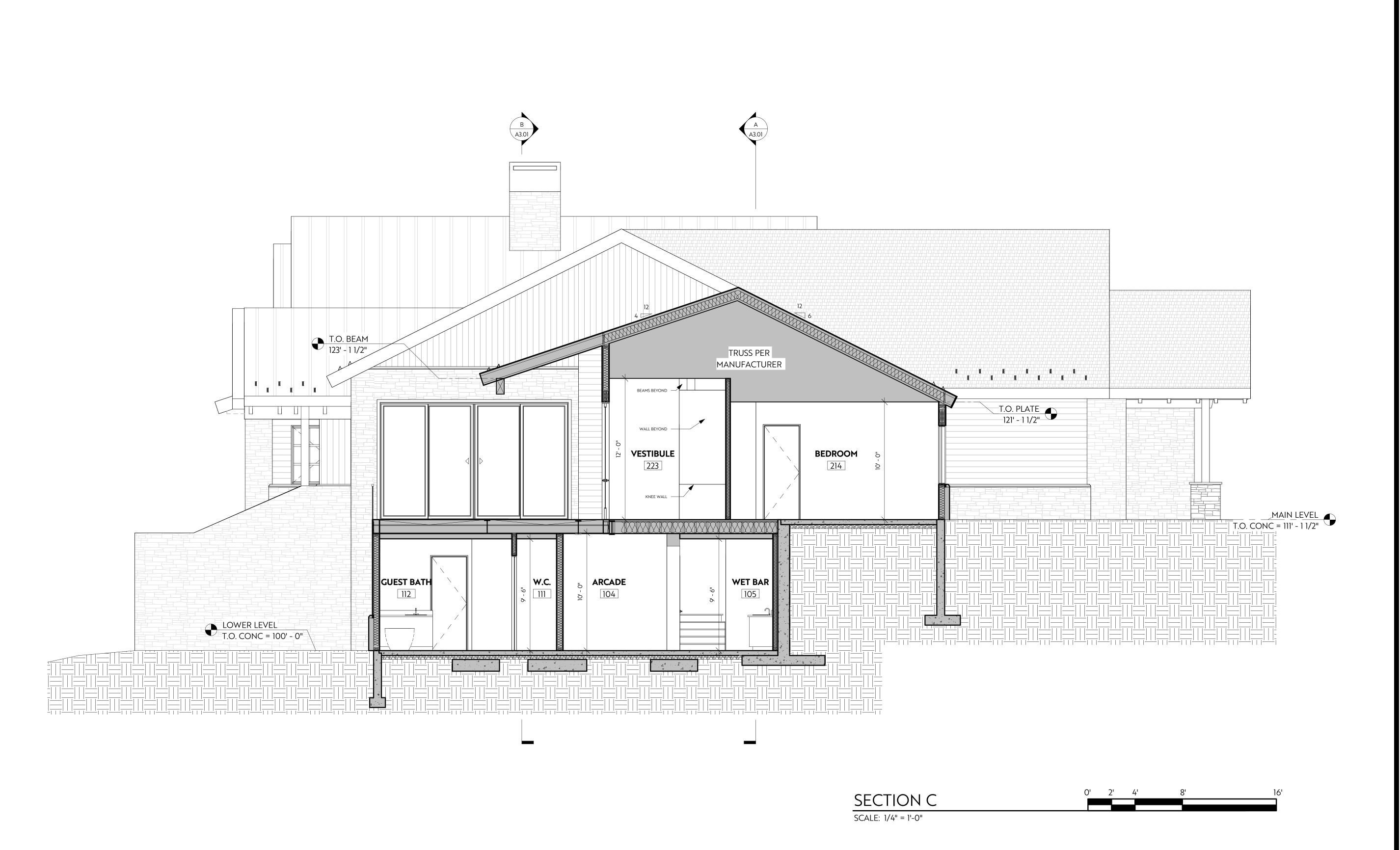


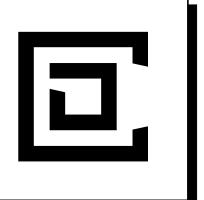




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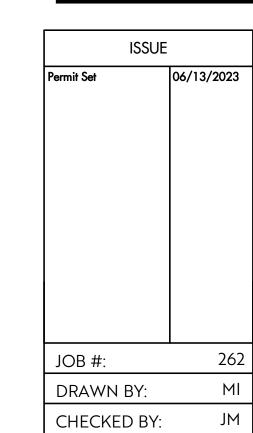
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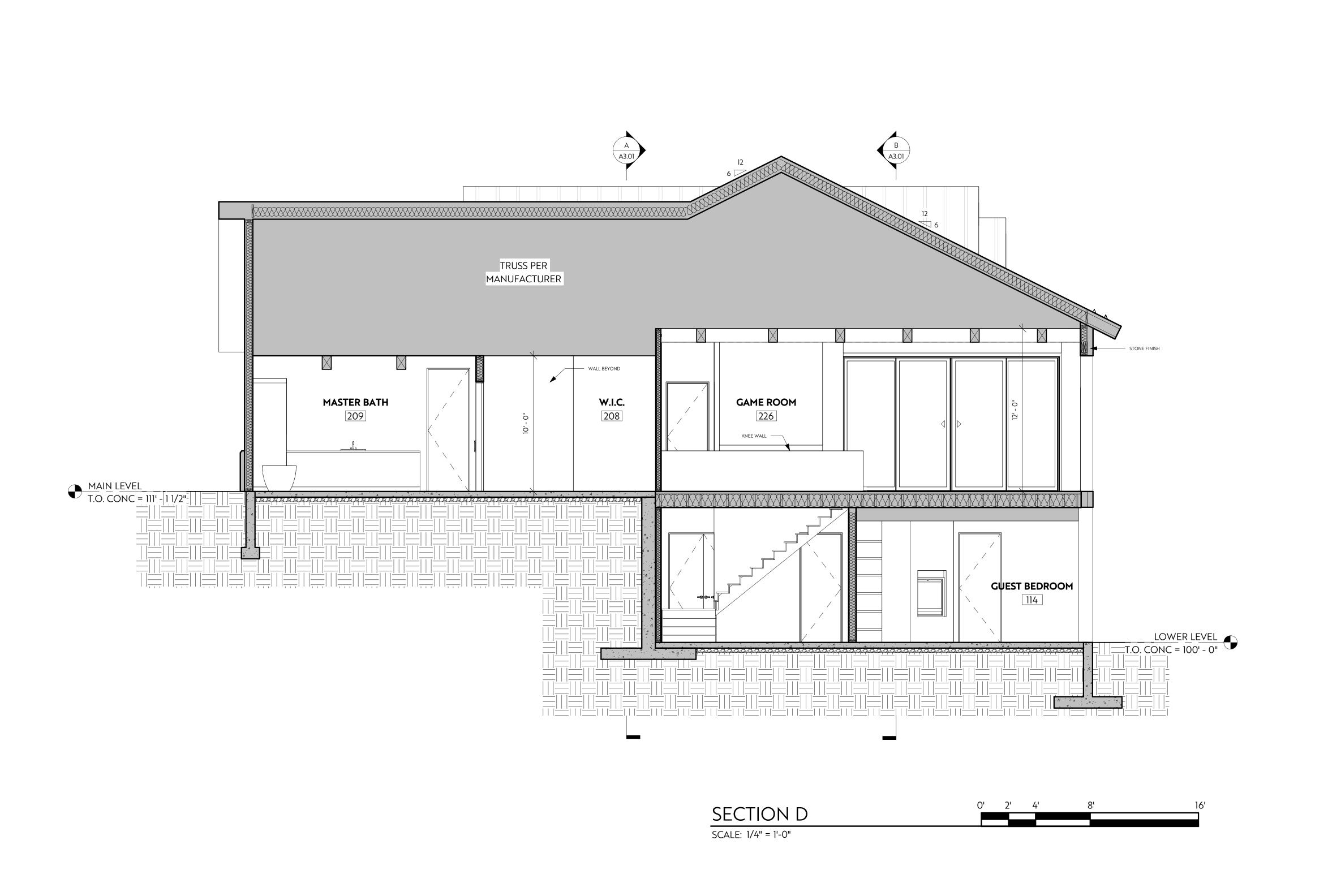


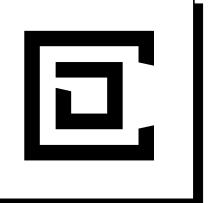






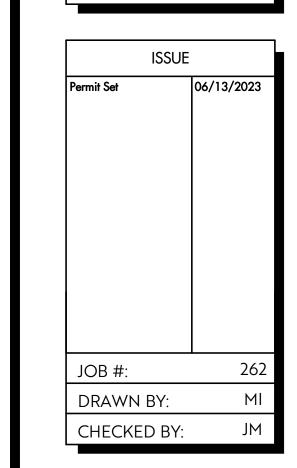


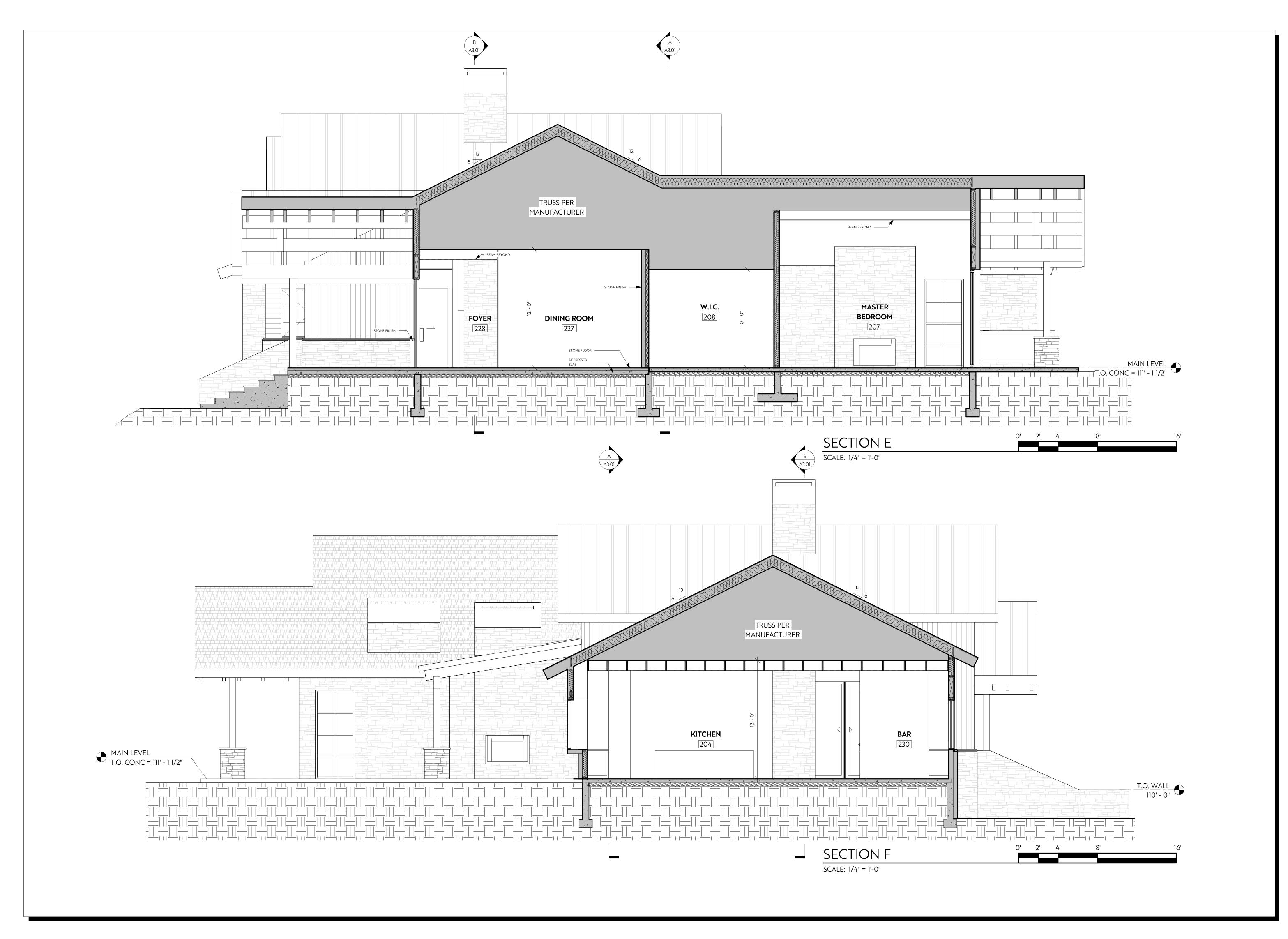


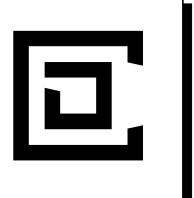


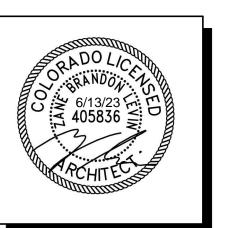




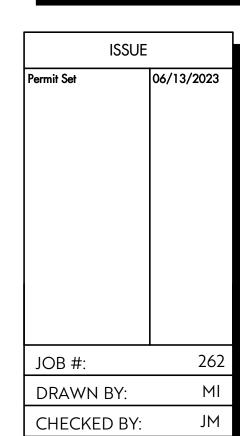




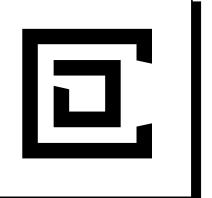






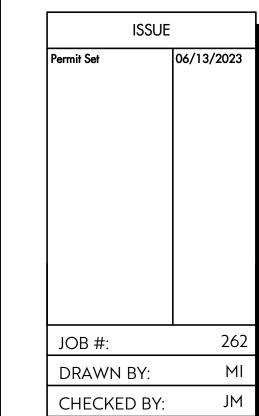


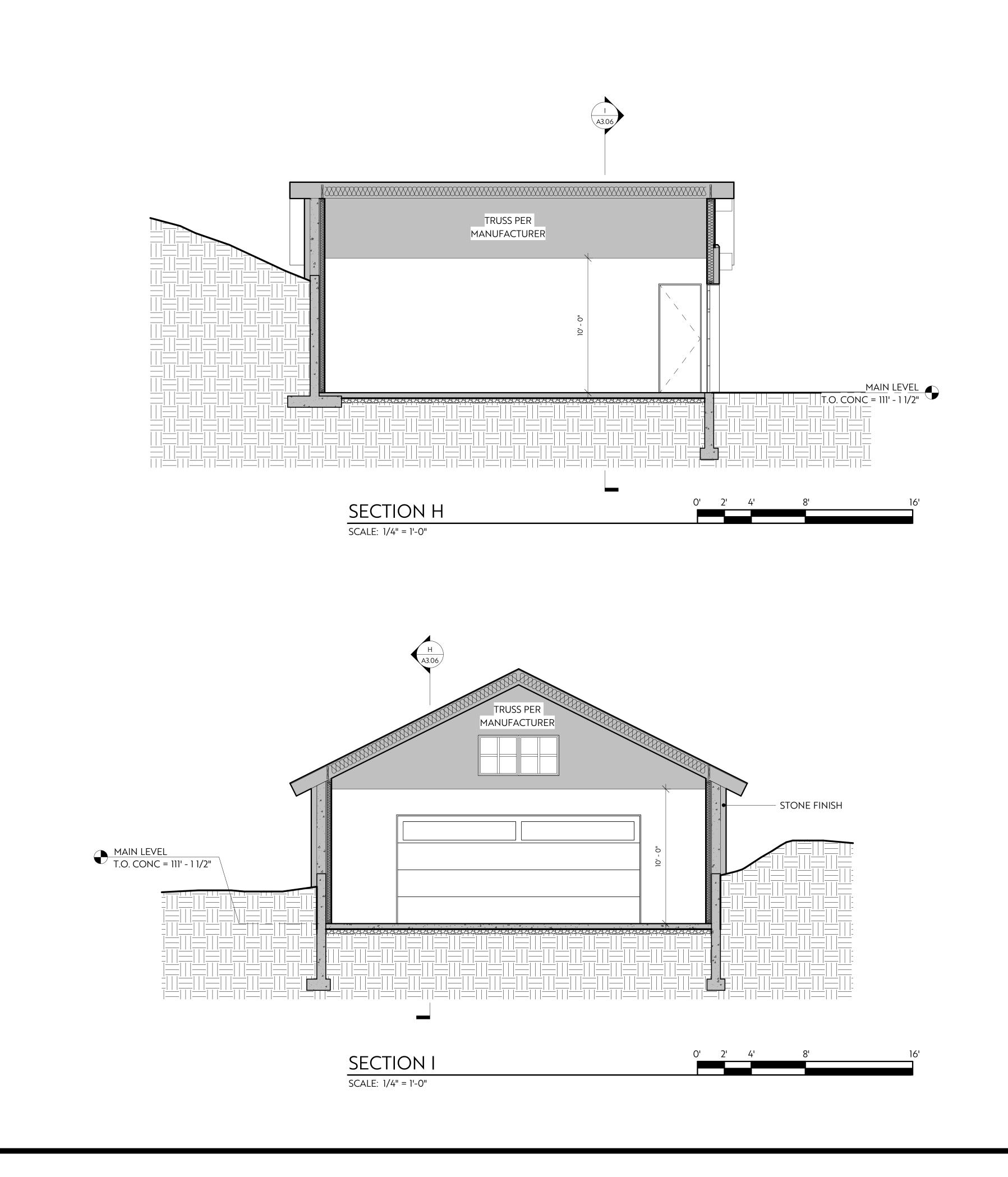


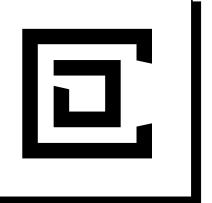


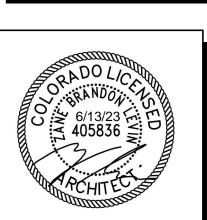






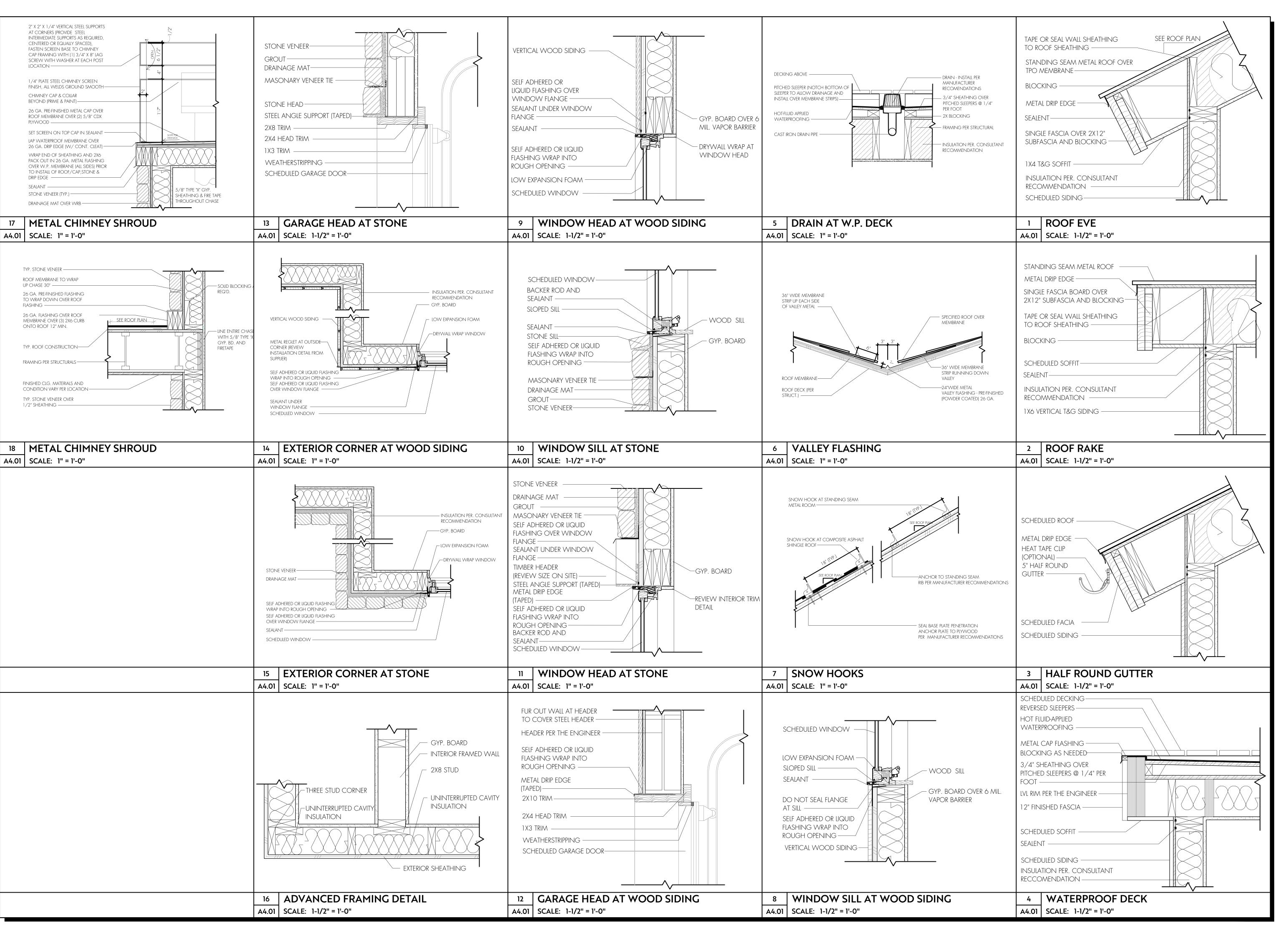


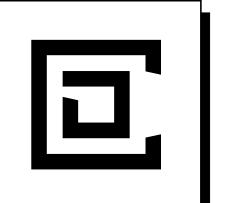






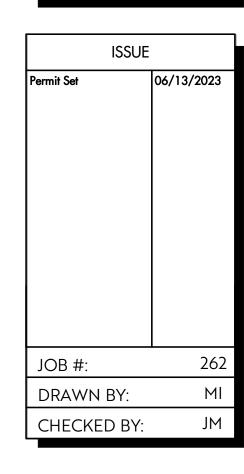
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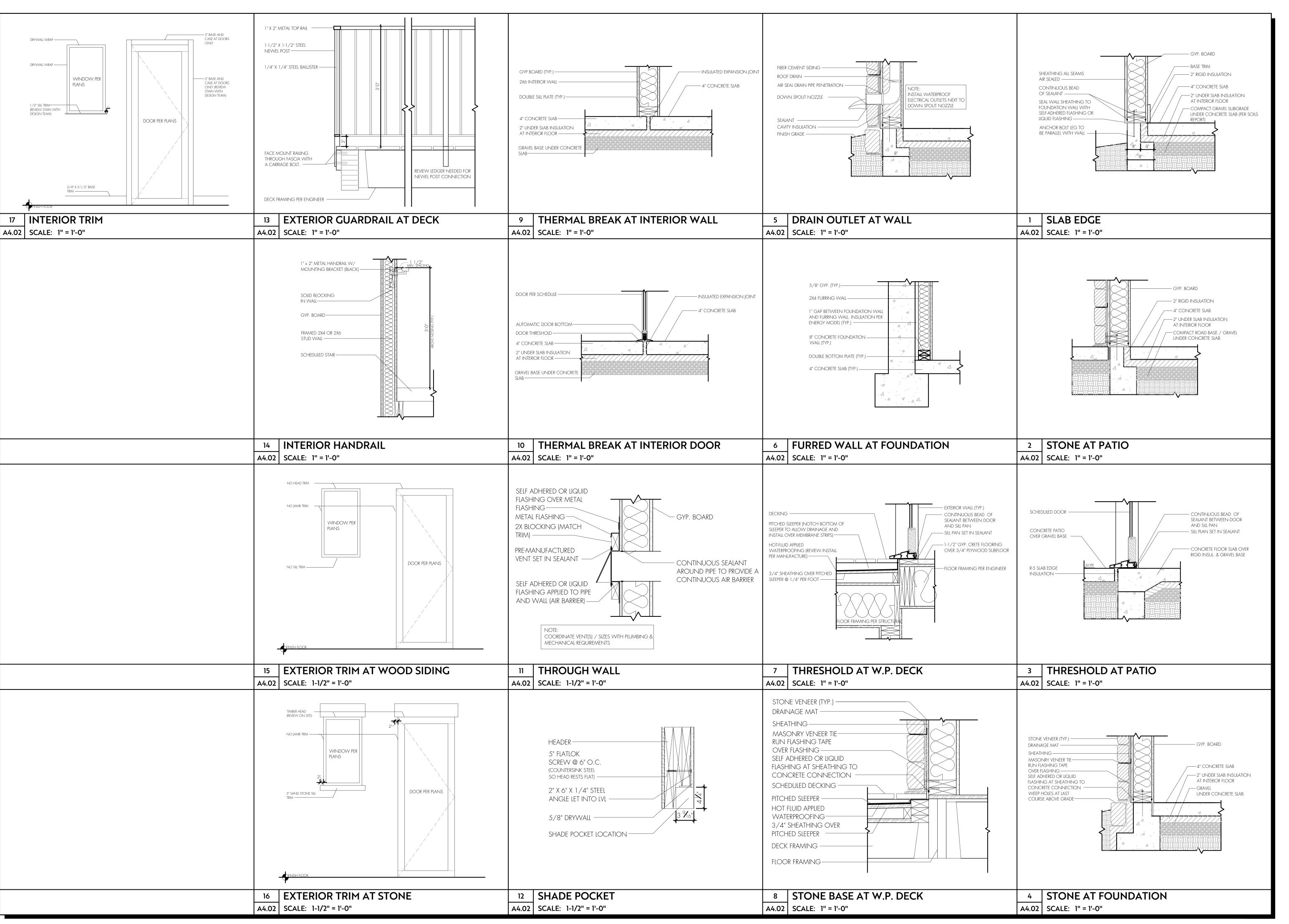


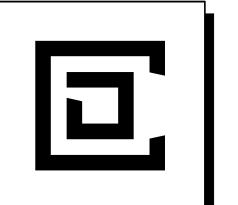
COLLECTIVE NALLE 2.0 RESIDENCE 0135 MOUNT ARCENTINE RD (CR 598) BRECKENRIDGE, CO 80424



ARCHITECTURE & CONSTRUCTION DETAILS

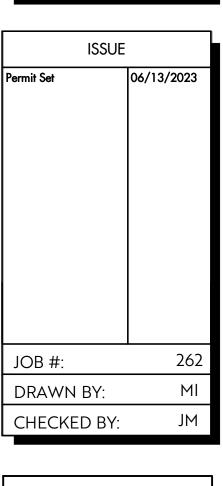
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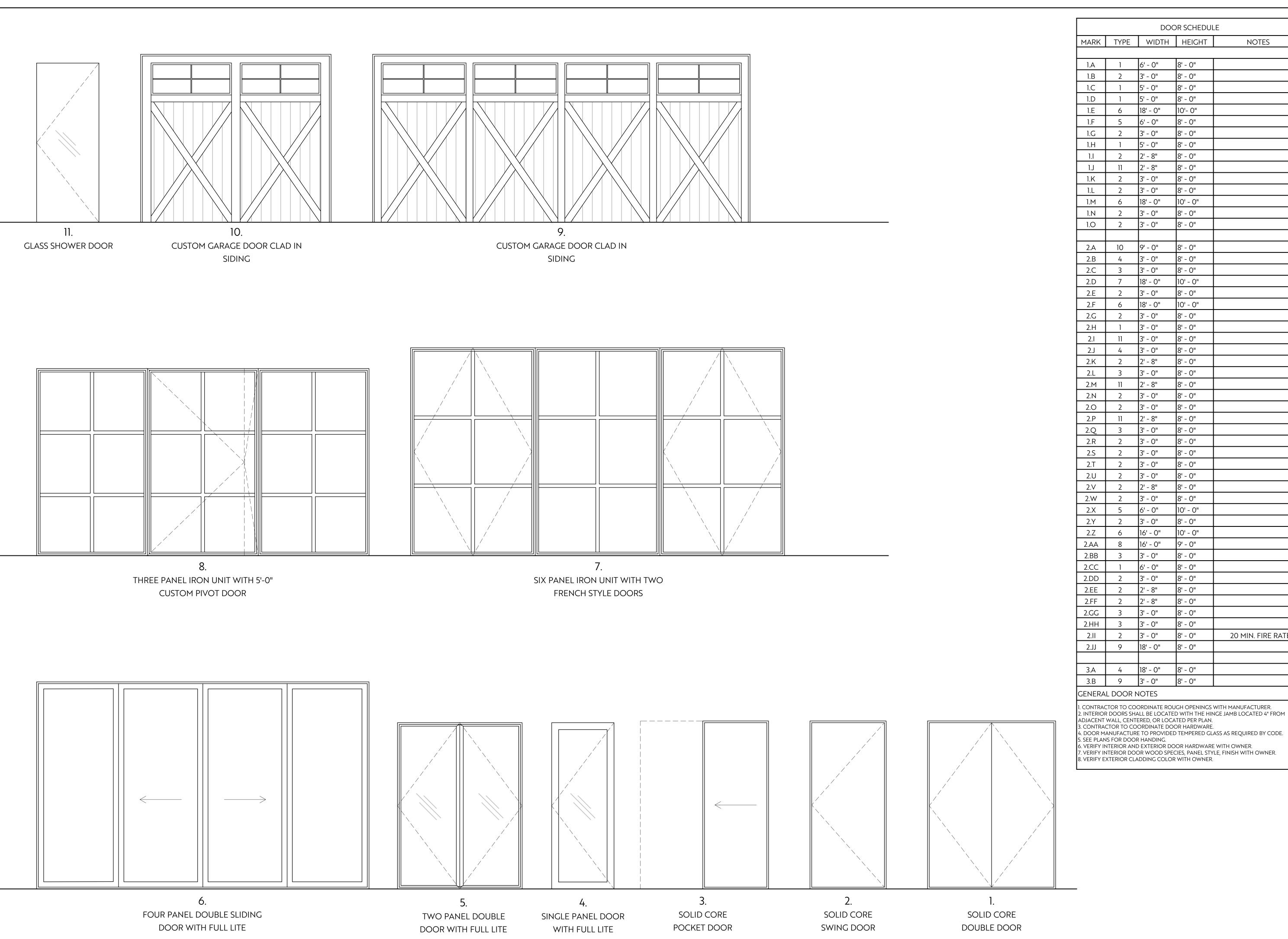


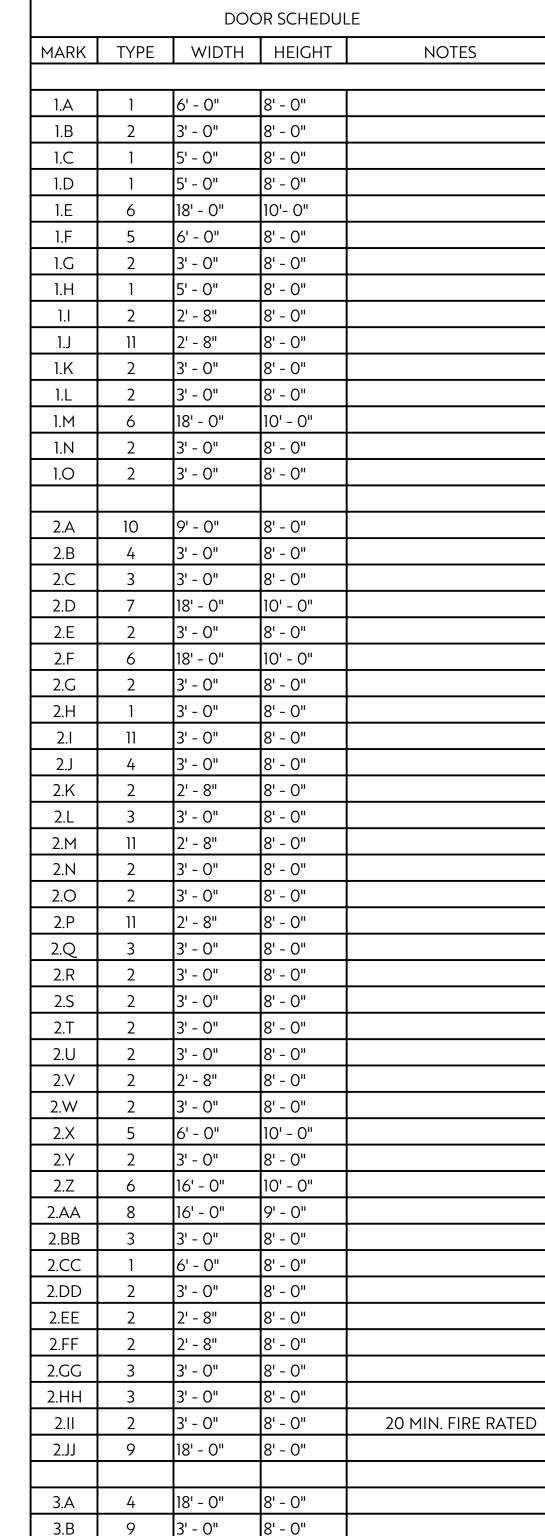
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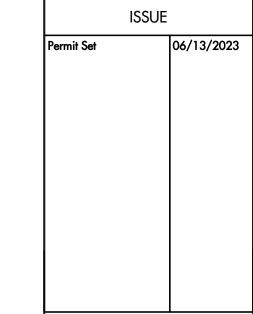


ARCHITECTURE & CONSTRUCTION DETAILS

A4.02



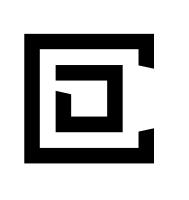




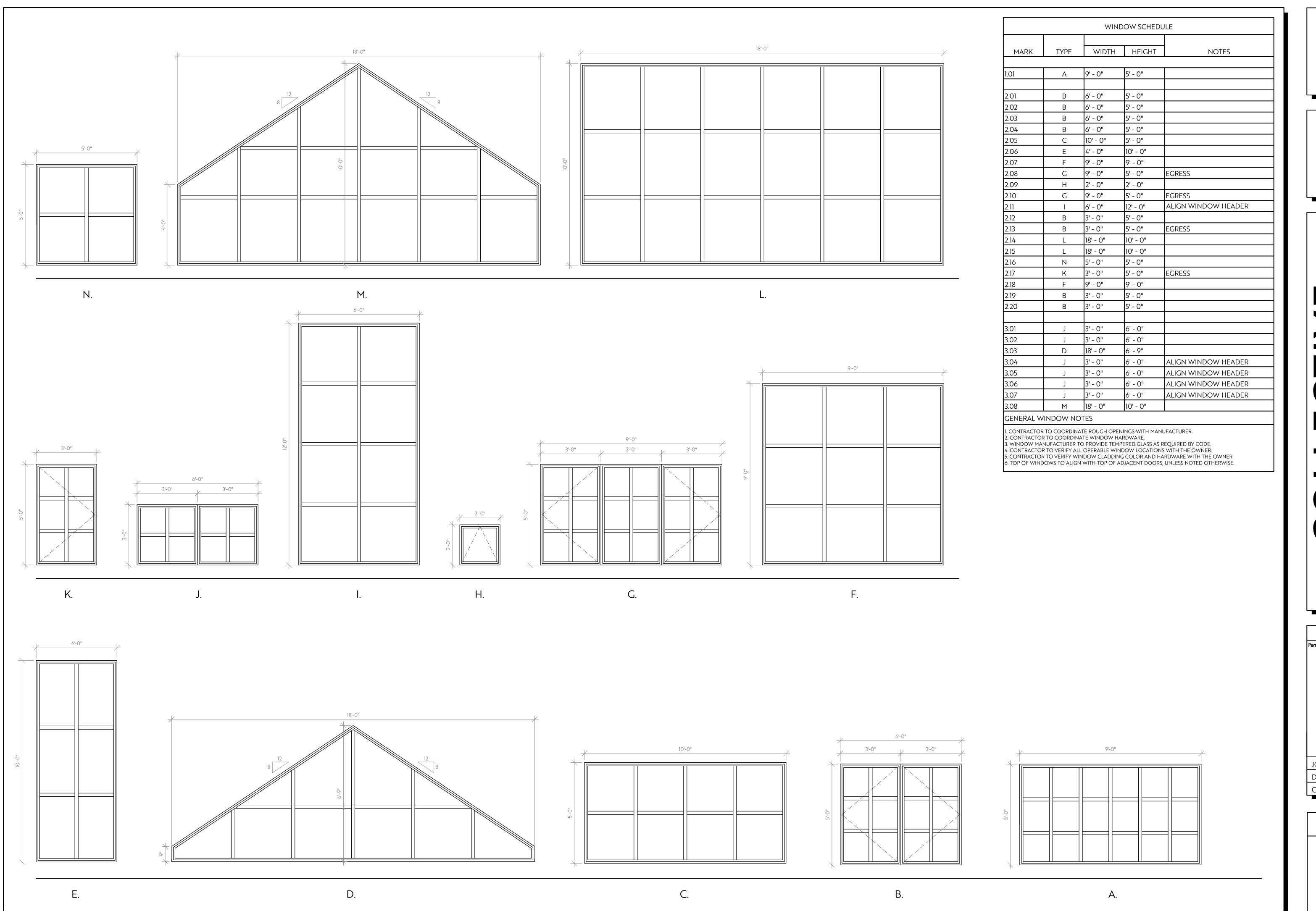
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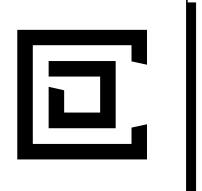
DOOR SCHEDULE

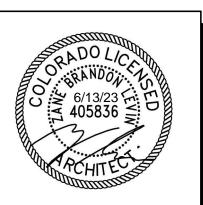
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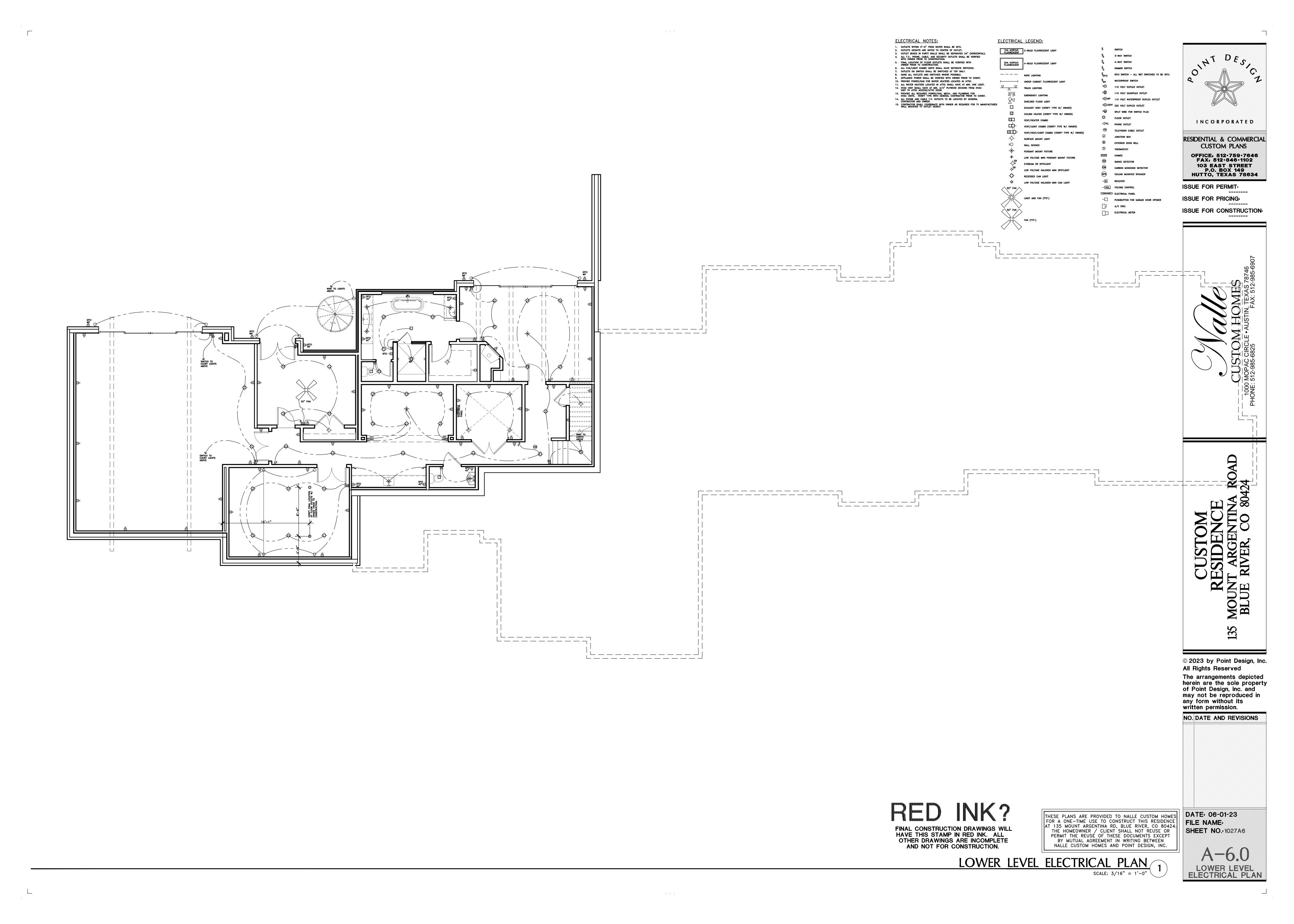


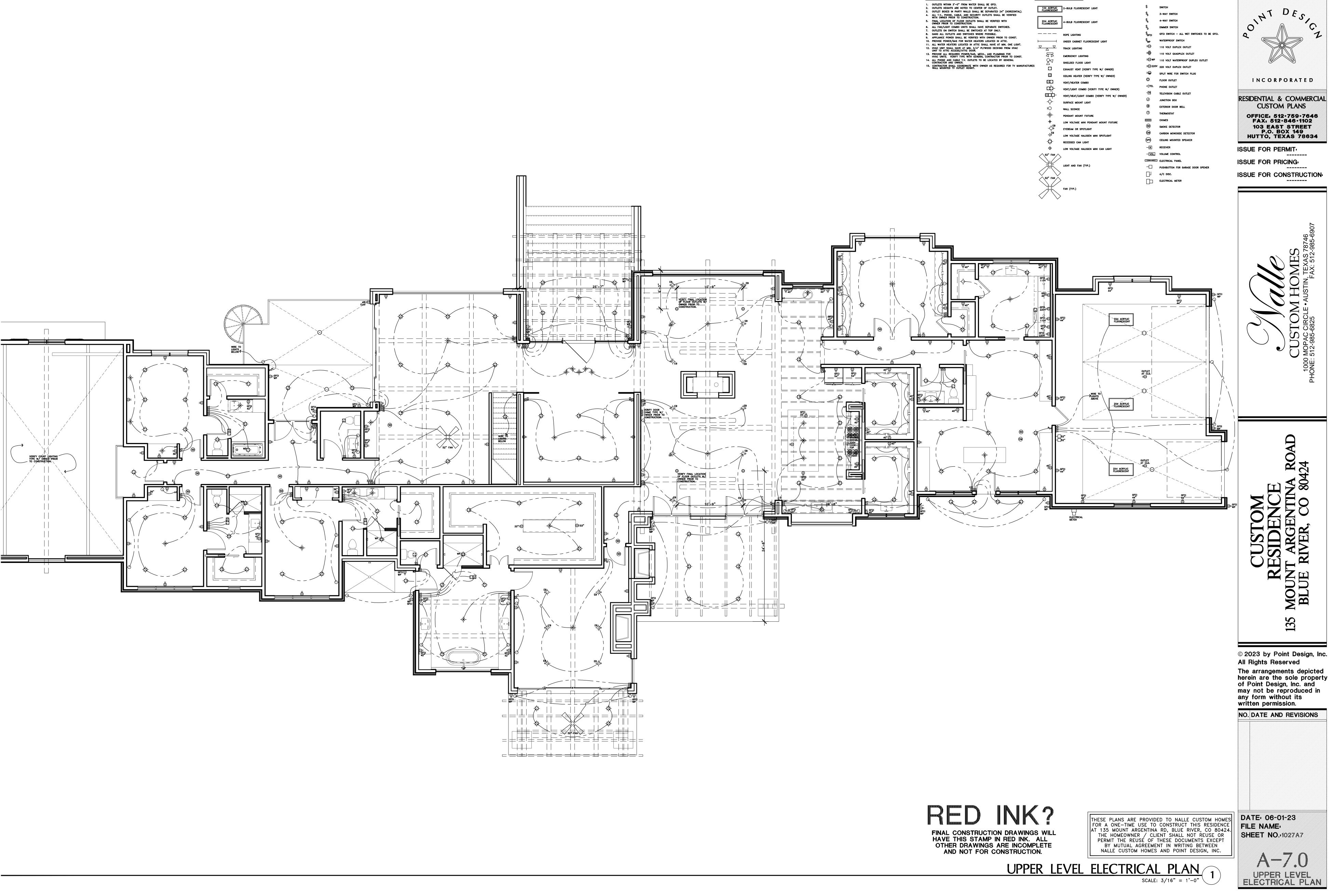


CULLECIINE IN THE NATIONAL ARGENTINE RD (CR 598) BRECKENRIDGE, CO 80424

WINDOW SCHEDULE

A5.02





ELECTRICAL NOTES:

ELECTRICAL LEGEND:

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GENERAL STRUCTURAL NOTES

STRUCTURAL DESIGN CRITERIA

1. These General Structural Notes apply to these Structural Drawings and supplement the project Specifications. Refer to the Project Manual for additional requirements.

2. This project is located in Blue River, Colorado and has been designed in accordance with the 2018 Edition of the International Residential Code (including applicable amendments and supplements).

3. Design Loads:

A.	Roof Live Load:	Uniform Snow	100 psf
В.	Floor Live Loads:	Residential Light Storage Stairs & Corridors Balconies & Decks	40 psf 125 psf 100 psf 125 psf
C.	Wind Analysis:	Basic Wind Speed Exposure	115 mph (3-second gus

Seismic Analysis: Seismic Design Category 'B'

40" minimum below exterior ground surface to Frost / Fdn. Depth: bottom of footing elevation

4. Structural Design References:

American Concrete Institute (ACI); ACI 301, ACI 318, ACI 530 American Institute of Steel Construction (AISC) American Institute of Timber Construction (AITC) American Iron and Steel Institute (AISI) American Plywood Association (APA) American Society of Civil Engineers (ASCE); ASCE 7 American Society for Testing and Materials (ASTM) American Welding Society (AWS) National Design Specification for Wood Construction (NDS) International Residential Code (IRC)

COORDINATION:

Dimensions: Written dimensions take precedence over scaled dimensions. All dimensions noted within the Structural

Drawings shall be verified with the Architectural Drawings. Refer to Mechanical, Electrical, Plumbing, and Architectural Drawings for openings not noted within the Structural Drawings. Any dimensional discrepancies shall be noted in writing for review by the Architect and Structural Engineer.

2. Shop Drawings:

Shop drawings shall be prepared by the fabricator. Copying of these Construction Documents for use as shop drawings will not be permitted.

3. Field Verification:

The Contractor shall verify existing conditions prior to commencement of work, and shall notify the Architect and Structural Engineer for any interpretation or clarification.

4. Field Modifications to Structural Members:

The Contractor is responsible for securing the Architect's and Structural Engineer's approval prior to any cutting, notching, drilling or other modifications which may affect the integrity of the structure. When such modifications have been approved, they are to be completed in accordance with applicable building codes and manufacturer's instructions.

5. Duty of Cooperation:

Issuance of these documents presupposes further cooperation among the Owner, Contractor, Architect and Structural Engineer. Building design and construction are complex, and every contingency cannot be anticipated. Although the Structural Engineer(s) have performed their services with due care and diligence, they cannot guarantee perfection. Any ambiguity or discrepancy discovered through the use of these documents shall be promptly reported to the Architect and Structural Engineer for further clarification. Failure to do so may compound misinterpretation and increase construction costs, and such failure shall relieve the Structural Engineer of responsibility from consequences which may arise.

6. Changes to the Work:

Substitution of noted structural products or "approved equivalent" products will be acceptable only with the written approval of the Structural Engineer. Changes to the Contract Documents made without approval are unauthorized and shall relieve the Structural Engineer of responsibility from consequences which may arise.

These drawings do not include the necessary components for construction safety. The General Contractor shall provide for the jobsite safety of all personnel, work, materials, utilities, equipment and adjacent properties in accordance with accepted codes, regulations and industry practices.

STRUCTURAL CONCRETE:

. Concrete has been designed and shall be constructed in accordance with the American Concrete Institute (ACI). Refer to the "Field Observations" paragraph of these General Structural Notes for observation requirements. All concrete shall be of stone aggregate, unless noted otherwise. Refer to the any concrete additive containing chlorides is prohibited.

Minimum 28-day compressive strength shall be as follows:

A.	Foundation Walls	3,000 psi
В.	Footings	3,000 psi
C.	Slabs on Grade	4,000 psi
D.	Topping Slabs	4,000 psi
E.	All other concrete	3,000 psi

Reinforcing is to be new billet steel ASTM A615 Grade 60 (field bent or welded bars shall be ASTM A706, Grade 60). No welding of reinforcement is permitted unless detailed. No splices of reinforcement re permitted except as detailed or authorized by Structural Engineer. Provide corner and bars to match all horizontal reinforcing. Provide minimum (2)#5 bars around all sides of all openings in concrete and extend 2'-o" minimum past edges of openings. Where permitted, use contact lap splices (40 bar diameters minimum lap). Welded wire fabric (W.W.F.) shall be in accordance with ASTM A185. Provide a minimum (1) full mesh lap at splice locations.

. Placing of Reinforcement: Form ties are to be used for bar supports only when the clear dimensions shown on the details can be maintained. Provide wire chairs, bolsters, additional reinforcement, and accessories necessary to support reinforcement at position shown in the Structural Drawings. Support of einforcement on wood, brick, or other unacceptable material will not be permitted.

5. The following minimum concrete cover over reinforcing shall be provided unless noted otherwise:

A.	Concrete cast against and permanently exposed to earth	3 inches
В.	Concrete exposed to earth or weather (#6 bars and larger)	2 inches
C.	Concrete exposed to earth or weather (#5 bars and smaller)	1-1/2 inches
D.	Concrete not exposed to earth or weather	3/4 inch
E.	Piers, Beams and Columns	1-1/2 inches

STRUCTURAL STEEL:

. Structural steel, including embedded angles, plates or other sections has been designed and shall be detailed and erected in accordance with the American Institute of Steel Construction (AISC), ASD Specifications and Code of Standard Practice. Steel detailing and erection shall accommodate provision of AISC and OSHA standards (including OSHA Steel Erection Standard Part 1926, Subpart "R").

e. Minimum yield strengths (Fy) are 35 ksi for pipes (ASTM A53, Grade B), 46 ksi for tubes (ASTM A500 Grade B), 50 ksi for wide flange members (ASTM A572, Grade 50), and 36 ksi for all others (ASTM A36).

Use standard framed beam connections meeting requirements of the AISC Manual of Steel Construction (ASD). Use 3/4" diameter minimum A325N bolts or welded equivalent. Minimum welds are per AISC, and not less than 3/16" continuous fillet using E70XX electrodes (unless noted otherwise). Welding of rebar anchors to angles or plates shall be completed to develop a minimum 150% of the yield strength of the reinforcing bar. Headed stud anchors shall conform to AWS D1.1 and shall be automatically end welded in the shop (unless noted otherwise). See specifications for testing requirements.

STRUCTURAL TIMBER:

T&G Wood Decking

. Structural Timber has been designed and shall be constructed in conformance with provisions of the NDS Specification for Stress Grade Lumber and its Fastenings. The Contractor shall not cut, notch, or otherwise modify timber members without the written consent of the Structural engineer. Provide cross-bridging at 8'-o"o.c. maximum, and provide solid blocking between joists at all bearing supports.

2. Framing Lumber (minimum requirements) shall be as follows:

A.	Wall Studs	Hem-Fir (HF) Construction Grade
В.	Floor Joists (2x members)	Hem-Fir (HF) #2 Grade or Better
C.	Floor Beams	Douglas-Fir (DF) #1 Grade Beam & Stringer
D.	Roof Rafters (2x members)	Hem-Fir (HF) #2 Grade or Better
E.	Roof Beams	Douglas-Fir (DF) #1 Grade Beam & Stringer
F.	Posts / Columns	Douglas-Fir (DF) #1 Grade Post & Timber

s. Wall, roof, and floor sheathing shall meet the minimum requirements of the APA and AITC. Provide thicknesses and fasten to framing members as noted in the Structural Drawings. Panels are to be oriente o span along their strong axis, and all panel joints are to be staggered.

Douglas-Fir (DF) Commercial Grade

4. Pre-fabricated structural connectors shall be as manufactured by Simpson Strong-Tie Company or approved equivalent.

STRUCTURAL TIMBER (CONT.):

I-joists (TJI) shall be as manufactured by Weyerhaeuser Company or approved equivalent. Provide member size and series as noted in the Structural Drawings. The Supplier shall furnish shop drawings howing all joist members, bridging, blocking, and miscellaneous accessories for review by the Structural Project Manual and Specifications for additional requirements (durability, color, finish, etc.). **The use of** | Engineer prior to installation. Refer to the Manufacturer Installation Guide for further construction

> 5. Laminated Veneer Lumber (LVL) shall be as manufactured by Weyerhaeuser Company or approved equivalent. Provide member size as noted in the Structural Drawings (Fb = 2,800 psi minimum). Refer to the Manufacturer Installation Guide for further construction requirements.

Refer to Manufacturer Installation Guide for multiple-ply LVL connection requirements. Four-ply members may be attached using TrussLok, SDS, or equivalent connectors (refer to Manufacturer's recommendations for locations and spacing).

Glue-Laminated (GL) members shall Visually Graded Western Species, conforming to combination 24F-V4 (multiple span beams shall be 24F-V8) strength and stiffness requirements, unless otherwise noted. Ship members to the jobsite stored in manufacturer's protective wrapping. Refer to Architectural rawings for appearance grade requirements.

RE: PLAN

T.O.F.

RE: PLAN

RE: PLAN

T.O.F.

CONTINUOUS

FOOTING

(40) BAR

DIAMETERS

MINIMUM LAP

(TYPICAL)

Typical Footing Step Detail

Typical Floor Framing Detail

8. Pre-Engineered wood roof trusses shall be designed by a registered Professional Engineer licensed in the State of Colorado. Calculated live load deflections of all trusses shall not exceed 1/240 of the span length. Shop drawings and calculations bearing the seal and signature of the design engineer shall be abmitted for the review of the Structural Engineer. These submittals shall indicate the design loads, ocations of all trusses, connection plate sizes and capacities, and the size and grade of lumber to be used. Shop drawing review by the Structural Engineer must be completed prior to truss fabrication. The truss nanufacturer shall indicate and provide blocking at bearing locations and lateral bridging as required for

9. Tongue and Groove (T&G) Wood Decking shall be installed with tongues oriented upslope on sloped roofs. It shall be laid with patterned faces down and exposed on the underside. Controlled random lay-u shall be provided with a minimum distance of two feet between end joints in adjacent rows. Each row shall be toe-nailed through the tongue and face nailed with one nail to each support. Provide 16d nails for " nominal decking and 40d toe-nails and 60d face-nails for 3" and 4" nominal decking. Spike rows together with 8" spikes at 30" o.c. through pre-drilled holes in 3" and 4" nominal decking.

FOUNDATIONS:

The structure shall be founded upon spread footings placed upon APPROVED undisturbed natural soils compacted structural fill with an **ASSUMED** maximum allowable bearing pressure of 2,000 psf.

Retaining walls have been designed in accordance with the following **ASSUMED** design values:

A.	Coefficient of Friction	0.40
В.	Lateral Earth Pressure	50 pc
C	Paggiro Progguro	000 n

Foundation walls are designed to be supported top and bottom by floor construction. Walls are not to be backfilled until such floors are in place or adequate shoring is provided

Provide 1½" void below all non-bearing partitions constructed upon slabs on grade.

. The soil design pressures and coefficients noted above are assumed values and must be verified by a qualified soils engineer prior to foundation construction. Once these values have been verified, the Structural Engineer must be informed and allowed sufficient time to re-evaluate the foundation system if these values differ from the assumptions listed

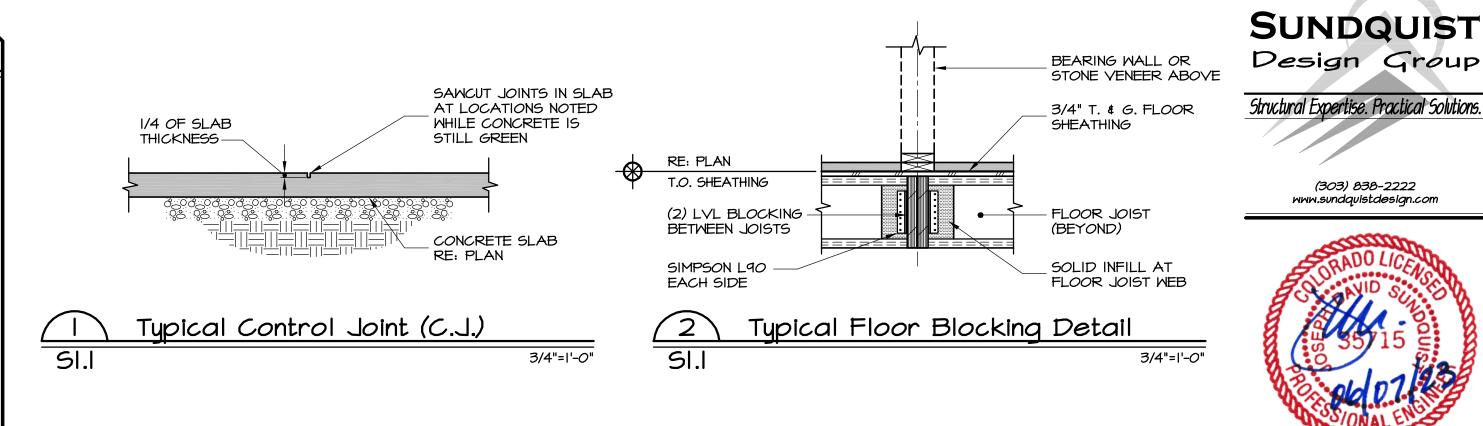
The Soils Engineer shall review all foundation excavations prior to the placement of formwork or reinforcement. All structural fill shall be observed and tested by the Soils Engineer during the grading and fill placement process.

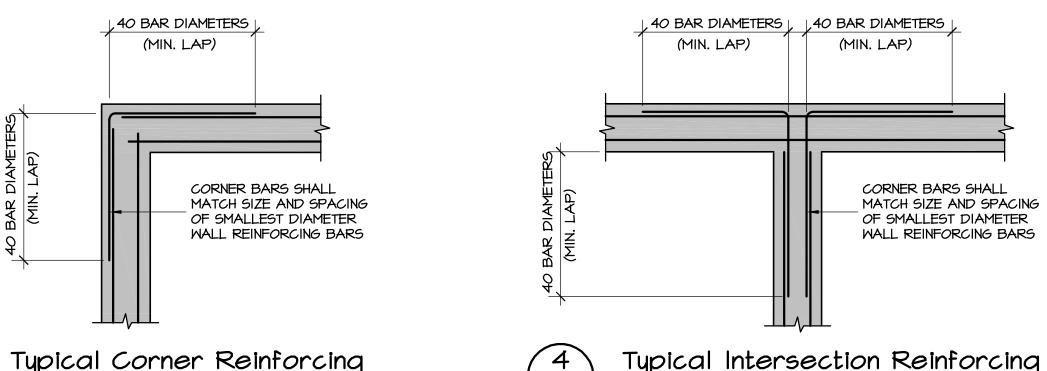
The Soils Engineer shall provide a letter of acceptance to the Building Official for all foundation preparation, excavation, backfill, compaction, etc. prior to the placement of any foundation concrete.

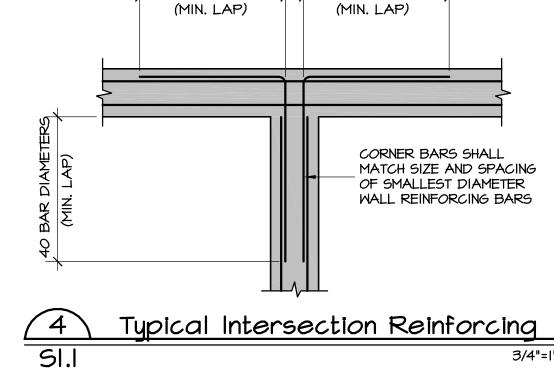
SPECIAL INSPECTIONS:

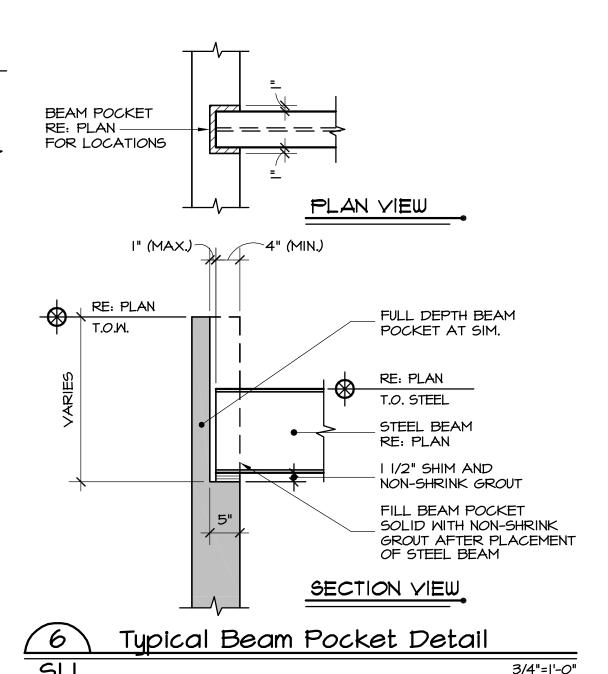
. It is the responsibility of the Contractor to coordinate all structural inspections as required by governing building codes and the Construction Documents. A qualified independent testing company is o provide Special Inspections for portions of the Work, as indicated in the Construction Documents and s required by local jurisdictions.

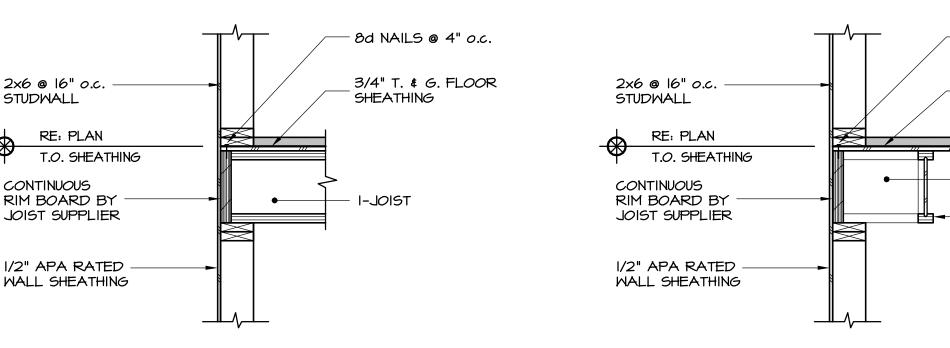
The Special Inspector shall be responsible for completing, maintaining, and resubmitting all special nspection logs and forms required by Local Building Officials.











REFER TO PLANS AND

FOOTING-TO-WALL

DOWELS NOT SHOWN

FOR DETAIL CLARITY

DETAILS FOR WALL

REINFORCING (TYP.)

3'-0" (MAX.)





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8d NAILS @ 4" o.c.

3/4" T. & G. FLOOR

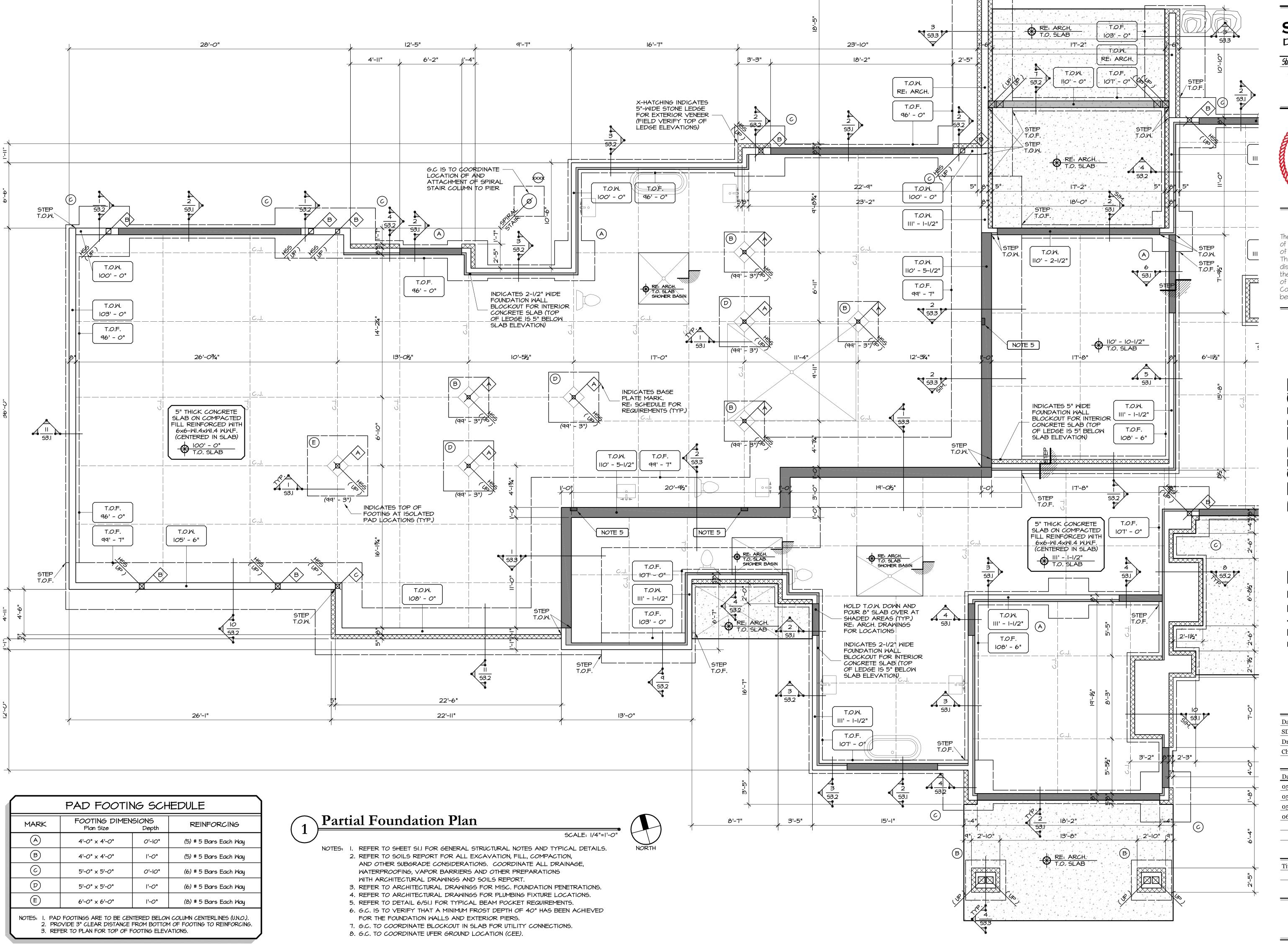
SOLID BLOCK FIRST

JOIST SPACE @ 16" o.c.

SHEATHING

Date • Issue 05/05/23 • Review Set 05/15/23 • Review Set <u>05/31/23</u> • Review Set 06/07/23 • Construction

Title • General Notes and Standard Details



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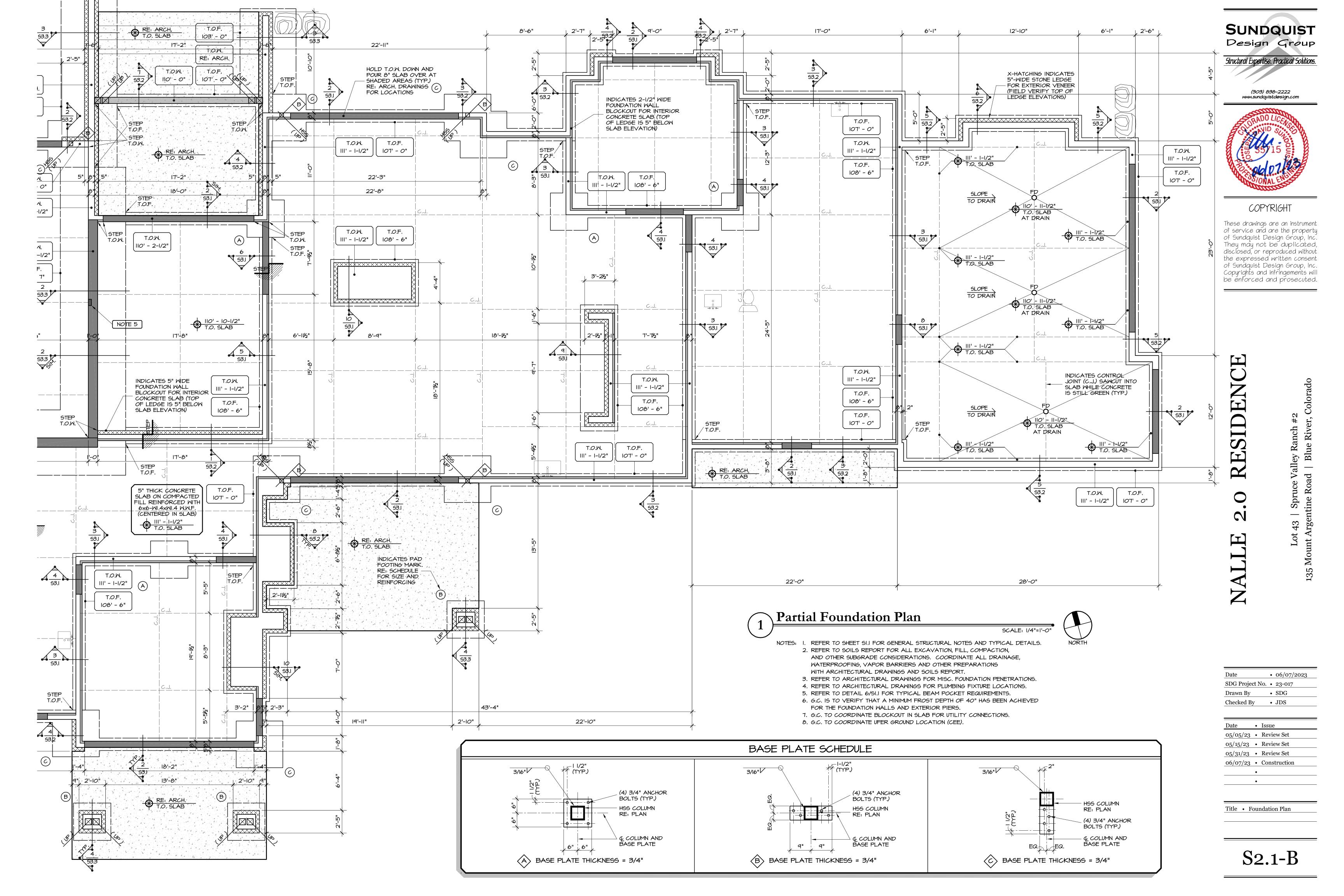
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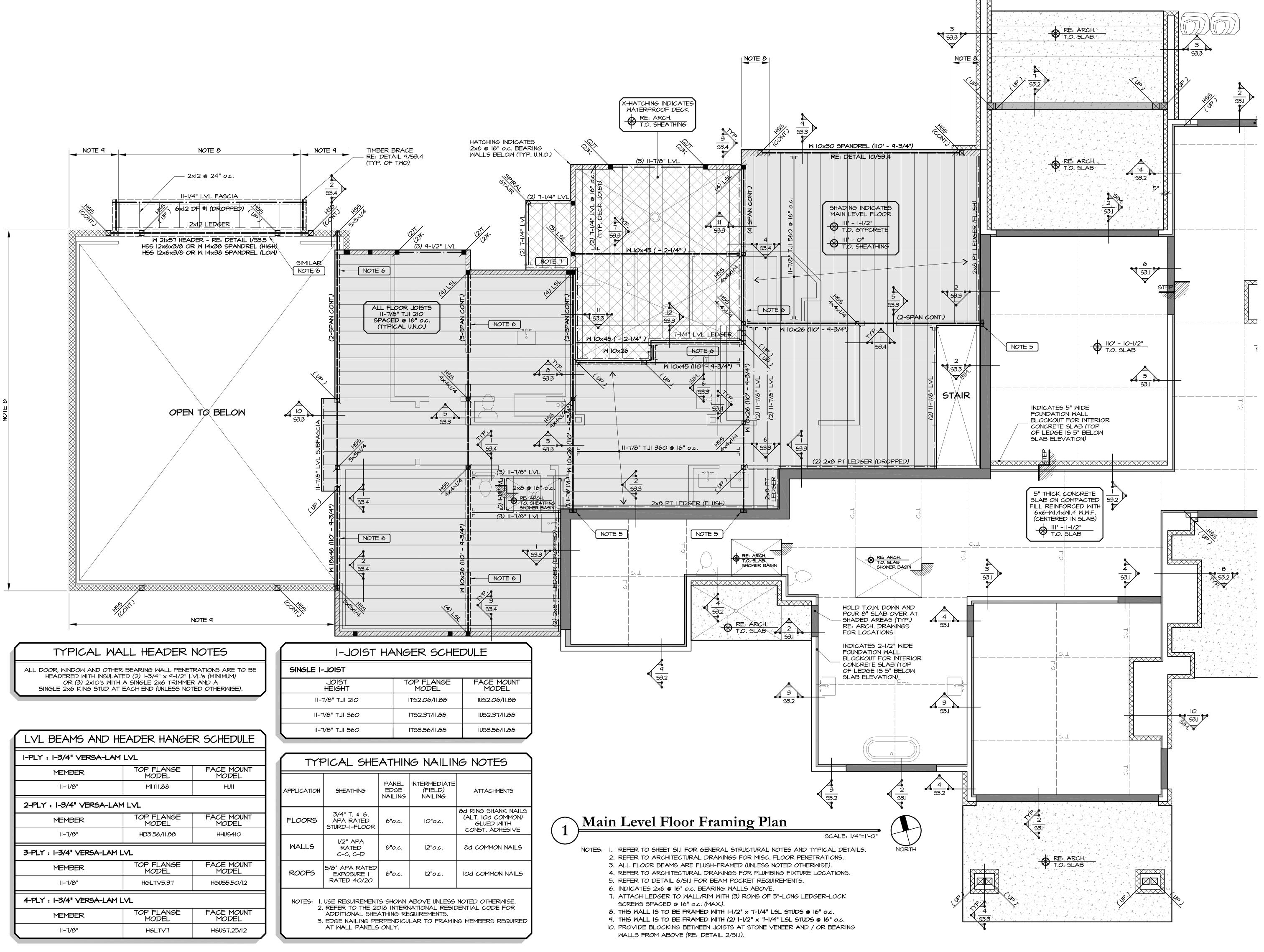
 06/07/22
 • Construction

05/31/23 • Review Set 06/07/23 • Construction •

Title • Foundation Plan

S2.1-A





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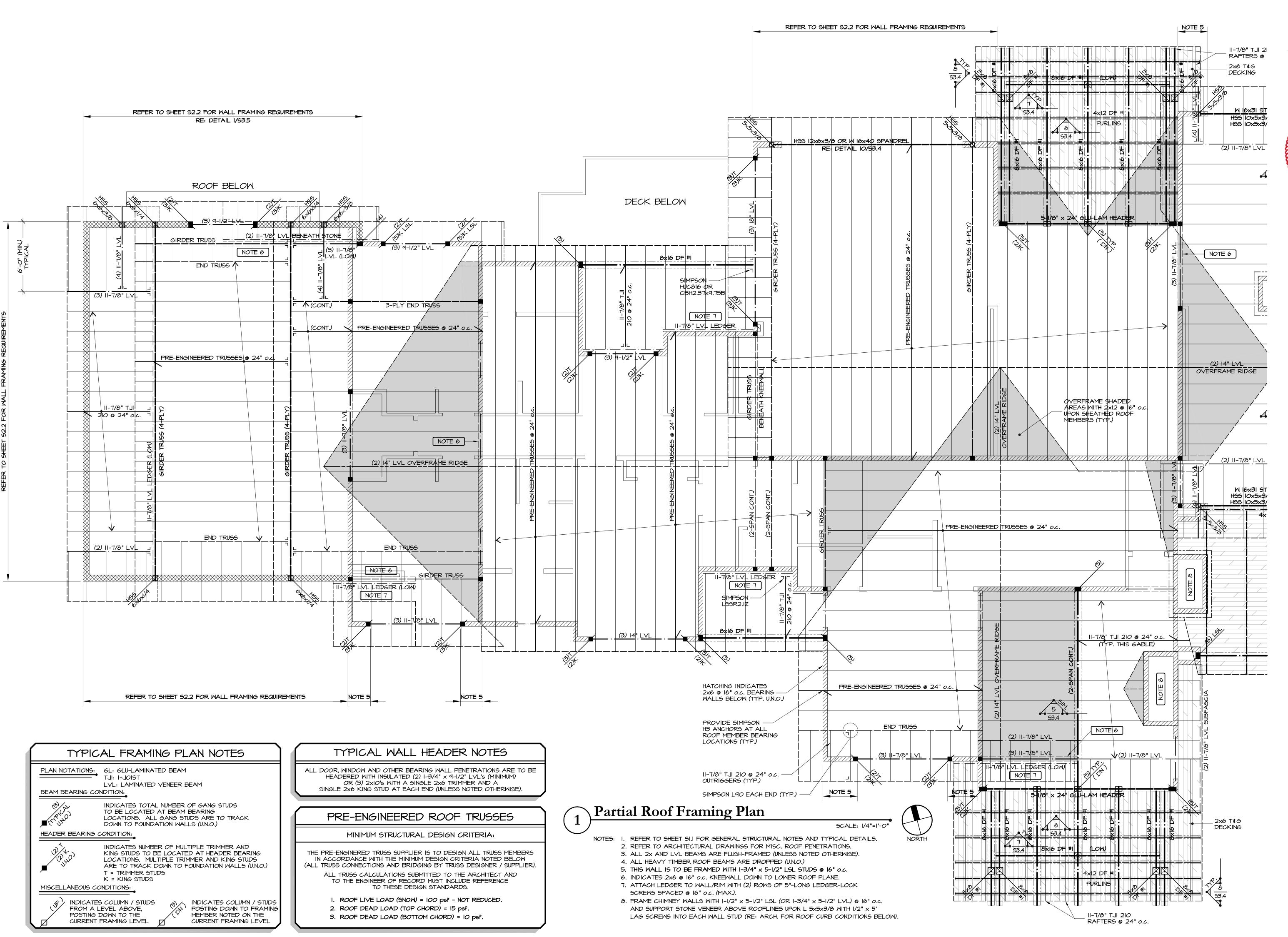
 05/15/23
 • Review Set

 05/31/23
 • Review Set

05/15/23 • Review Set 05/31/23 • Review Set 06/07/23 • Construction •

Title • Main Level Floor
Framing Plan

S2.2



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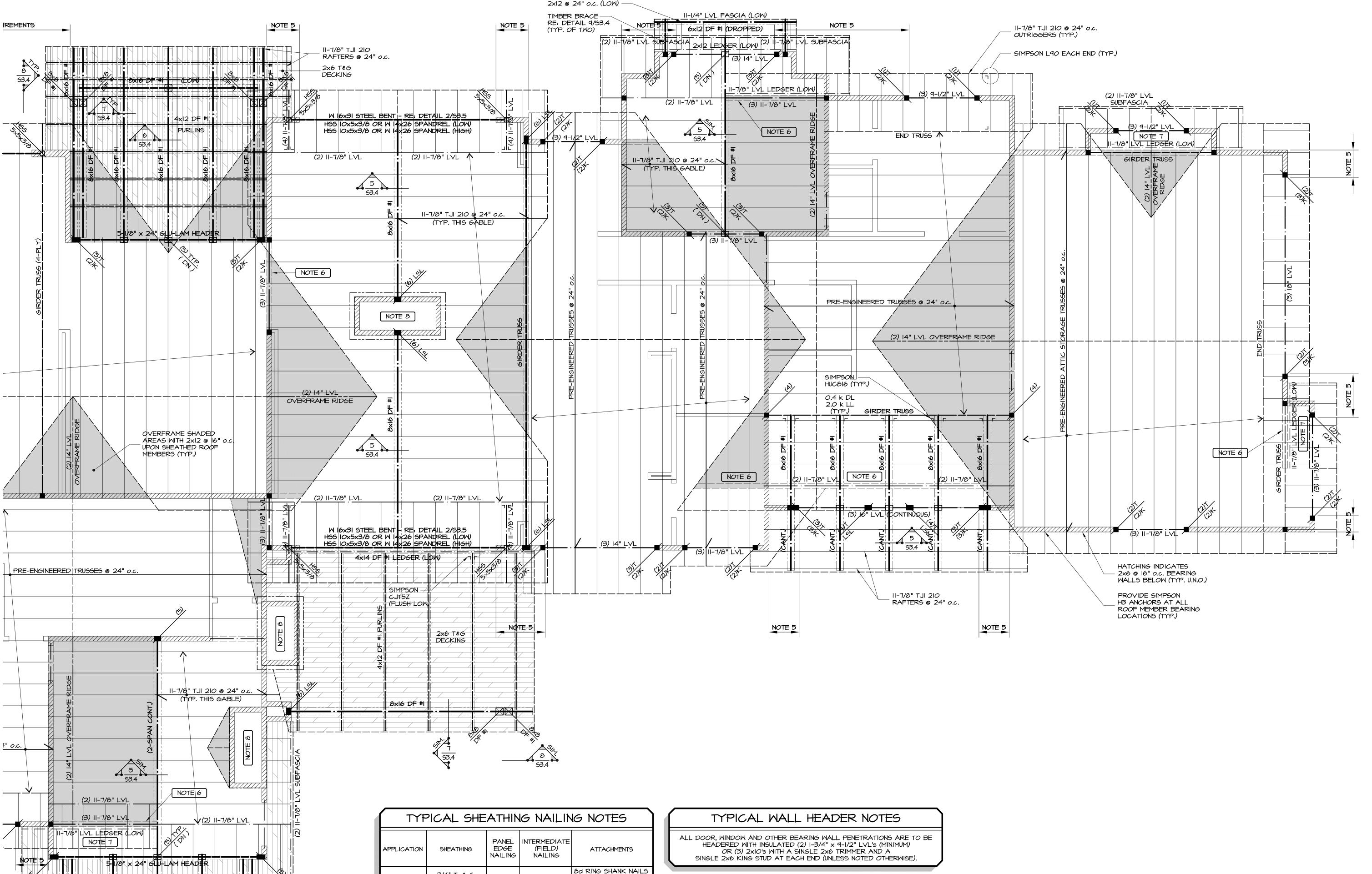
 05/15/23
 • Review Set

 05/31/23
 • Review Set

 06/07/23
 • Construction

Title • Roof Framing Plan

S2.3-A



(ALT. IOd COMMON)

GLUED WITH

CONST. ADHESIVE

8d COMMON NAILS

IOd COMMON NAILS

12"o.c.

12"o.c.

6"o.c.

ADDITIONAL SHEATHING REQUIREMENTS.

NOTES: I. USE REQUIREMENTS SHOWN ABOVE UNLESS NOTED OTHERWISE.

2. REFER TO THE 2018 INTERNATIONAL RESIDENTIAL CODE FOR

3. EDGE NAILING PERPENDICULAR TO FRAMING MEMBERS REQUIRED

PRE-ENGINEERED ROOF TRUSSES

MINIMUM STRUCTURAL DESIGN CRITERIA:

THE PRE-ENGINERED TRUSS SUPPLIER IS TO DESIGN ALL TRUSS MEMBERS

IN ACCORDANCE WITH THE MINIMUM DESIGN CRITERIA NOTED BELOW

(ALL TRUSS CONNECTIONS AND BRIDGING BY TRUSS DESIGNER / SUPPLIER).

ALL TRUSS CALCULATIONS SUBMITTED TO THE ARCHITECT AND

TO THE ENGINEER OF RECORD MUST INCLUDE REFERENCE

TO THESE DESIGN STANDARDS.

I. ROOF LIVE LOAD (SNOW) = 100 psf - NOT REDUCED.

2. ROOF DEAD LOAD (TOP CHORD) = 15 psf.

3. ROOF DEAD LOAD (BOTTOM CHORD) = 10 psf.

FL00RS

2×6 T&G

DECKING

PURLINS

11-7/8" TJI 210

RAFTERS @ 24" o.c.

APA RATED

STURD-I-FLOOR

1/2" APA

RATED C-C, C-D

5/8" APA RATED

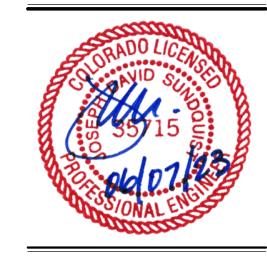
EXPOSURE I

RATED 40/20

AT WALL PANELS ONLY.

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05/31/23 • Review Set 06/07/23 • Construction

Title • Roof Framing Plan

Partial Roof Framing Plan

NOTES: I. REFER TO SHEET SI.I FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

- 2. REFER TO ARCHITECTURAL DRAWINGS FOR MISC. ROOF PENETRATIONS. 3. ALL 2x AND LYL BEAMS ARE FLUSH-FRAMED (UNLESS NOTED OTHERWISE).
- 4. ALL HEAVY TIMBER ROOF BEAMS ARE DROPPED (U.N.O.)
- 5. THIS WALL IS TO BE FRAMED WITH I-3/4" x 5-1/2" LSL STUDS @ 16" o.c.
- 6. INDICATES 2x6 @ 16" o.c. KNEEWALL DOWN TO LOWER ROOF PLANE.
- 7. ATTACH LEDGER TO WALL/RIM WITH (2) ROWS OF 5"-LONG LEDGER-LOCK SCREWS SPACED @ 16" o.c. (MAX.).
- 8. FRAME CHIMNEY WALLS WITH 1-1/2" x 5-1/2" LSL (OR 1-3/4" x 5-1/2" LVL) @ 16" o.c. AND SUPPORT STONE VENEER ABOVE ROOFLINES UPON L 5x5x3/8 WITH I/2" x 5" LAG SCREWS INTO EACH WALL STUD (RE: ARCH. FOR ROOF CURB CONDITIONS BELOW).

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

TYPICAL SHEATHING NAILING NOTES

APPLICATION	SHEATHING	EDGE NAILING	(FIELD) NAILING	ATTACHMENTS
FL <i>OO</i> RS	3/4" T. & G. APA RATED STURD-I-FL <i>OO</i> R	6"o.c.	10"0.c.	8d RING SHANK NAILS (ALT. IOd COMMON) GLUED WITH CONST. ADHESIVE
WALLS	I/2" APA RATED C-C, C-D	6"o.c.	12"o.c.	8d COMMON NAILS
ROOFS	5/8" APA RATED EXPOSURE I RATED 40/20	6"o.c.	12"o.c.	IOd COMMON NAILS

NOTES: I. USE REQUIREMENTS SHOWN ABOVE UNLESS NOTED OTHERWISE.

2. REFER TO THE 2018 INTERNATIONAL RESIDENTIAL CODE FOR ADDITIONAL SHEATHING REQUIREMENTS.

3. EDGE NAILING PERPENDICULAR TO FRAMING MEMBERS REQUIRED AT WALL PANELS ONLY.

TYPICAL WALL HEADER NOTES

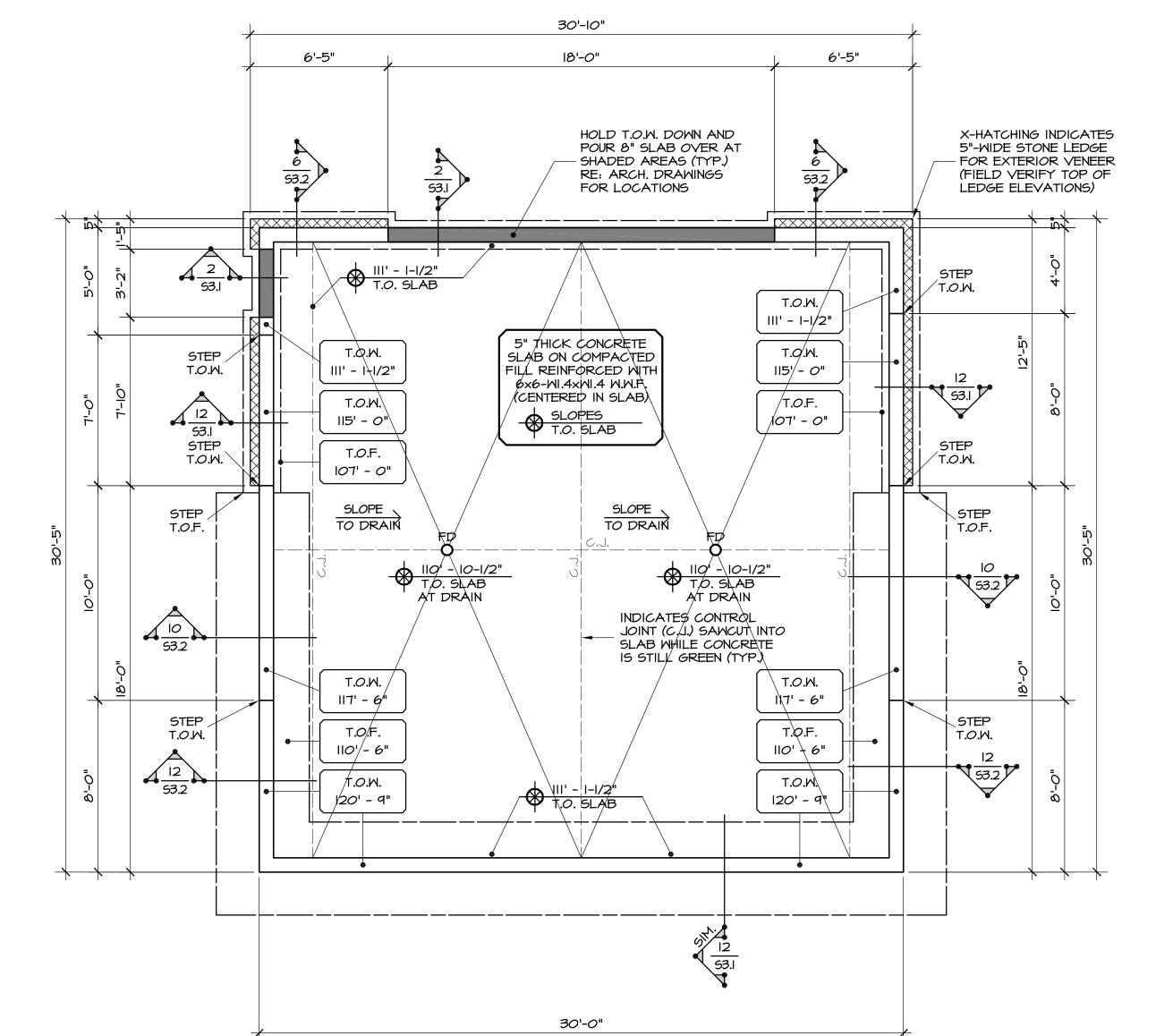
ALL DOOR, WINDOW AND OTHER BEARING WALL PENETRATIONS ARE TO BE HEADERED WITH INSULATED (2) 1-3/4" x 9-1/2" LVL's (MINIMUM) OR (3) 2x10's WITH A SINGLE 2x6 TRIMMER AND A SINGLE 2x6 KING STUD AT EACH END (UNLESS NOTED OTHERWISE).

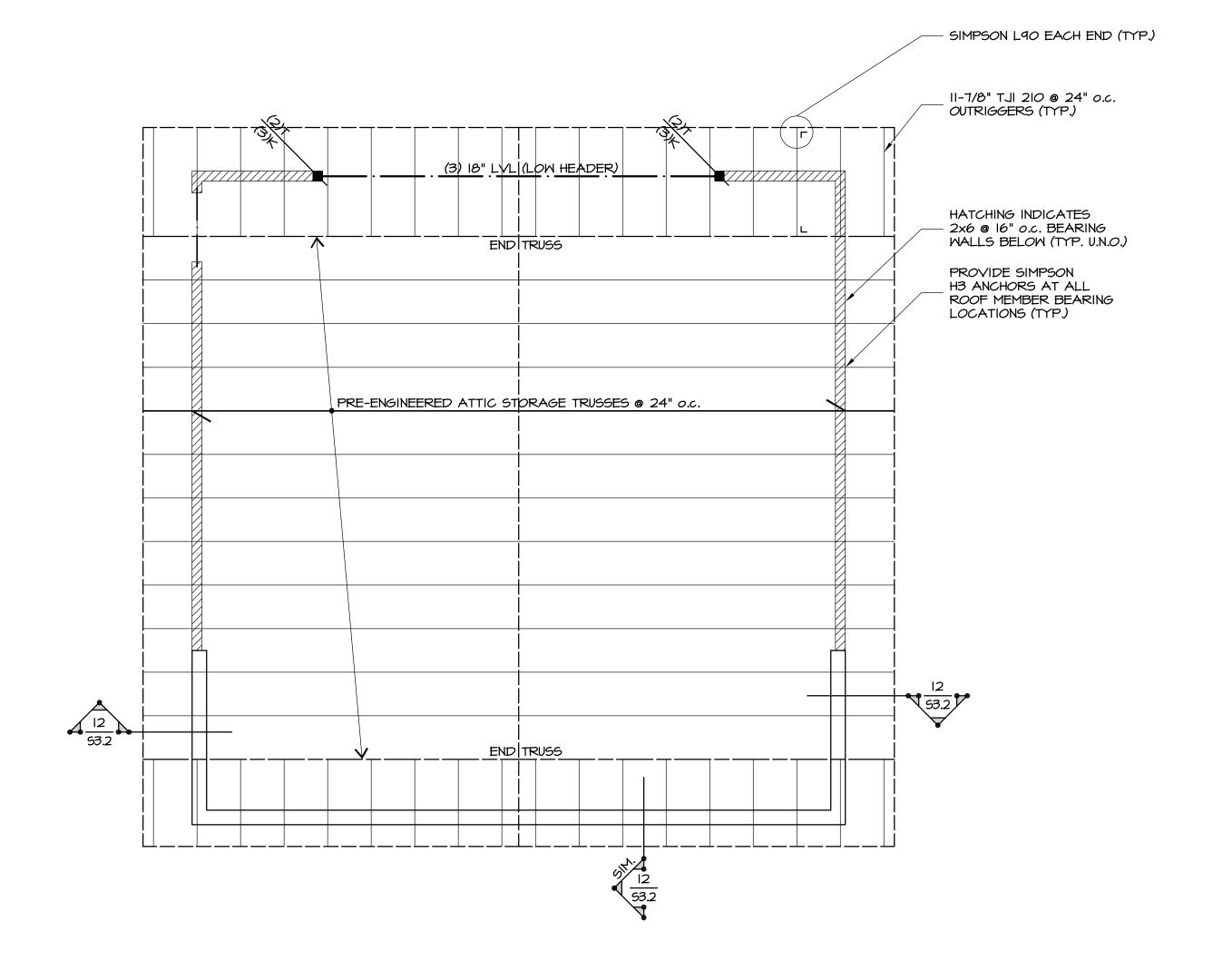
PRE-ENGINEERED ROOF TRUSSES

MINIMUM STRUCTURAL DESIGN CRITERIA:

- THE PRE-ENGINERED TRUSS SUPPLIER IS TO DESIGN ALL TRUSS MEMBERS IN ACCORDANCE WITH THE MINIMUM DESIGN CRITERIA NOTED BELOW (ALL TRUSS CONNECTIONS AND BRIDGING BY TRUSS DESIGNER / SUPPLIER).

 ALL TRUSS CALCULATIONS SUBMITTED TO THE ARCHITECT AND TO THE ENGINEER OF RECORD MUST INCLUDE REFERENCE TO THESE DESIGN STANDARDS.
 - I. ROOF LIVE LOAD (SNOW) = 100 psf NOT REDUCED.
 - 2. ROOF DEAD LOAD (TOP CHORD) = 15 psf.
 - 3. ROOF DEAD LOAD (BOTTOM CHORD) = 10 psf.





Detached Garage Foundation Plan

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

NOTES: I. REFER TO SHEET SI.I FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

2. REFER TO SOILS REPORT FOR ALL EXCAVATION, FILL, COMPACTION,
AND OTHER SUBGRADE CONSIDERATIONS. COORDINATE ALL DRAINAGE,
WATERPROOFING, VAPOR BARRIERS AND OTHER PREPARATIONS

WITH ARCHITECTURAL DRAWINGS AND SOILS REPORT.

3. REFER TO ARCHITECTURAL DRAWINGS FOR MISC. FOUNDATION PENETRATIONS.

4. G.C. IS TO VERIFY THAT A MINIMUM FROST DEPTH OF 40" HAS BEEN ACHIEVED FOR THE FOUNDATION WALLS AND EXTERIOR PIERS.

Detached Garage Roof Framing Plan

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

NOTES: I. REFER TO SHEET SI.I FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

2. REFER TO ARCHITECTURAL DRAWINGS FOR MISC. ROOF PENETRATIONS.

3. ALL 2x AND LVL BEAMS ARE FLUSH-FRAMED (UNLESS NOTED OTHERWISE).

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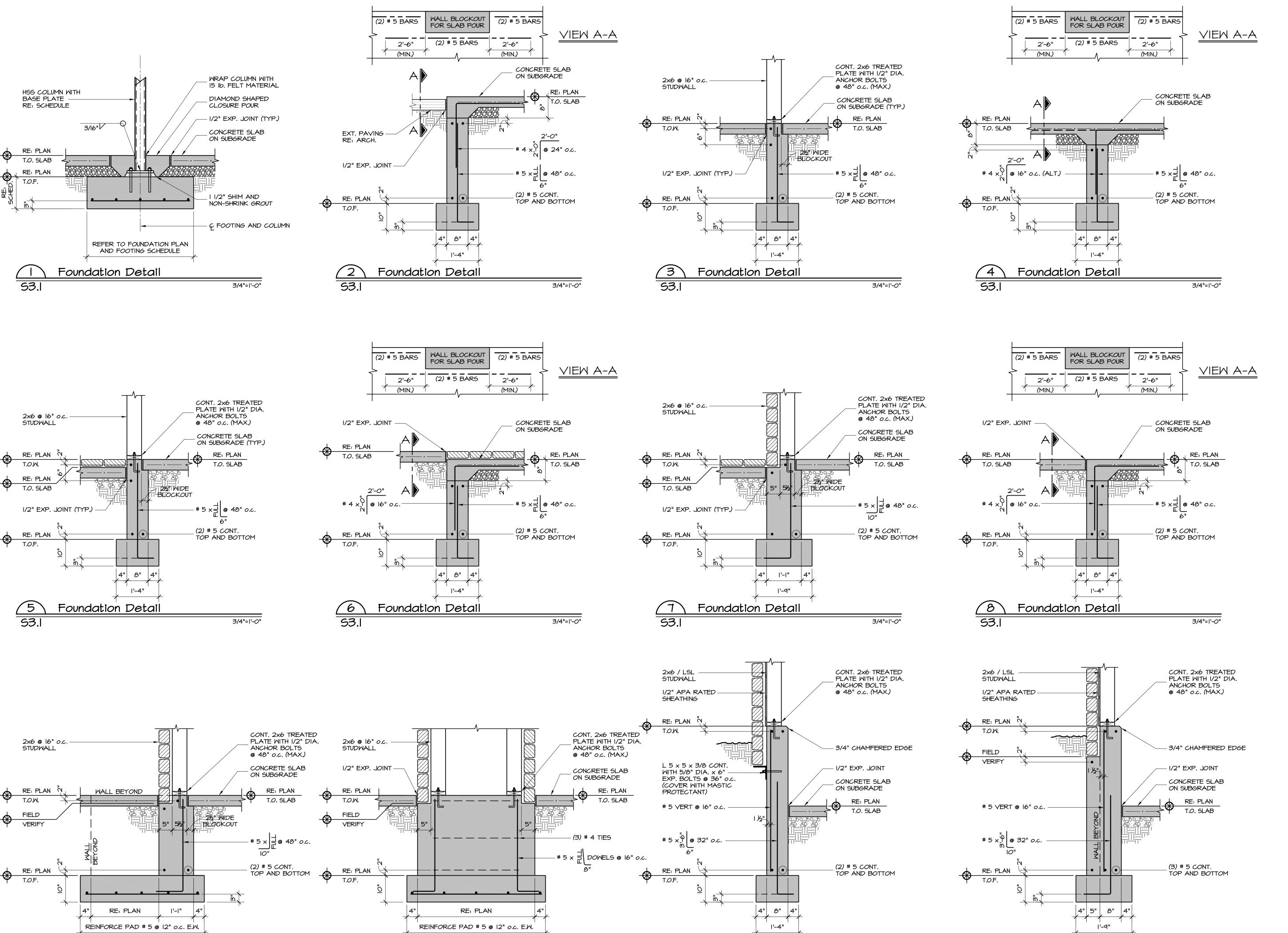
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 •

Title • Garage Foundation and
Roof Framing Plans

S2.4



Foundation Detail

3/4"=1'-0"

Foundation Detail

3/4"=1'-0"

Foundation Detail

3/4"=1'-0"

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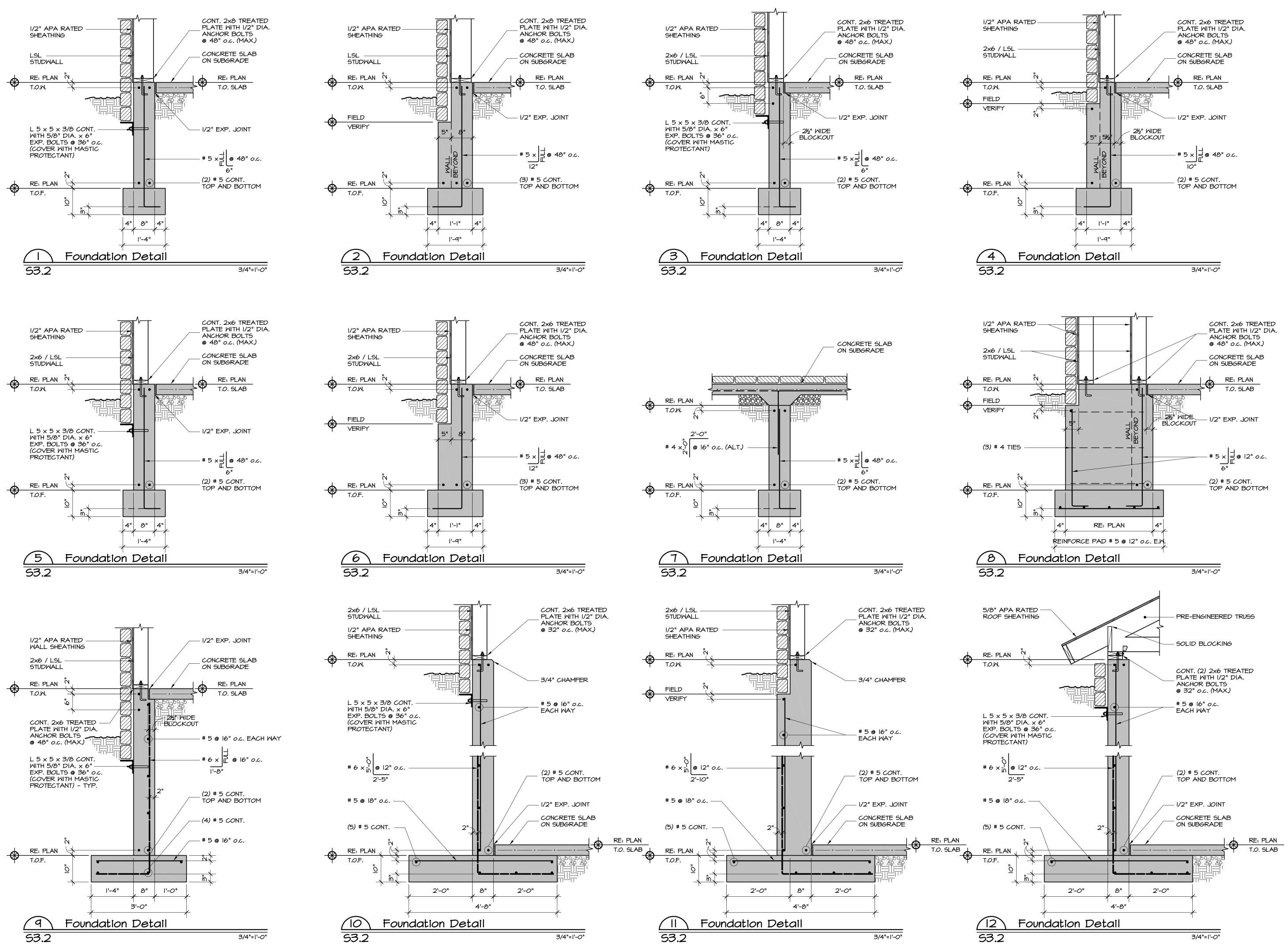
• • •

Title • Foundation Details

Foundation Detail

3/4"=1'-0"

S_{3.1}



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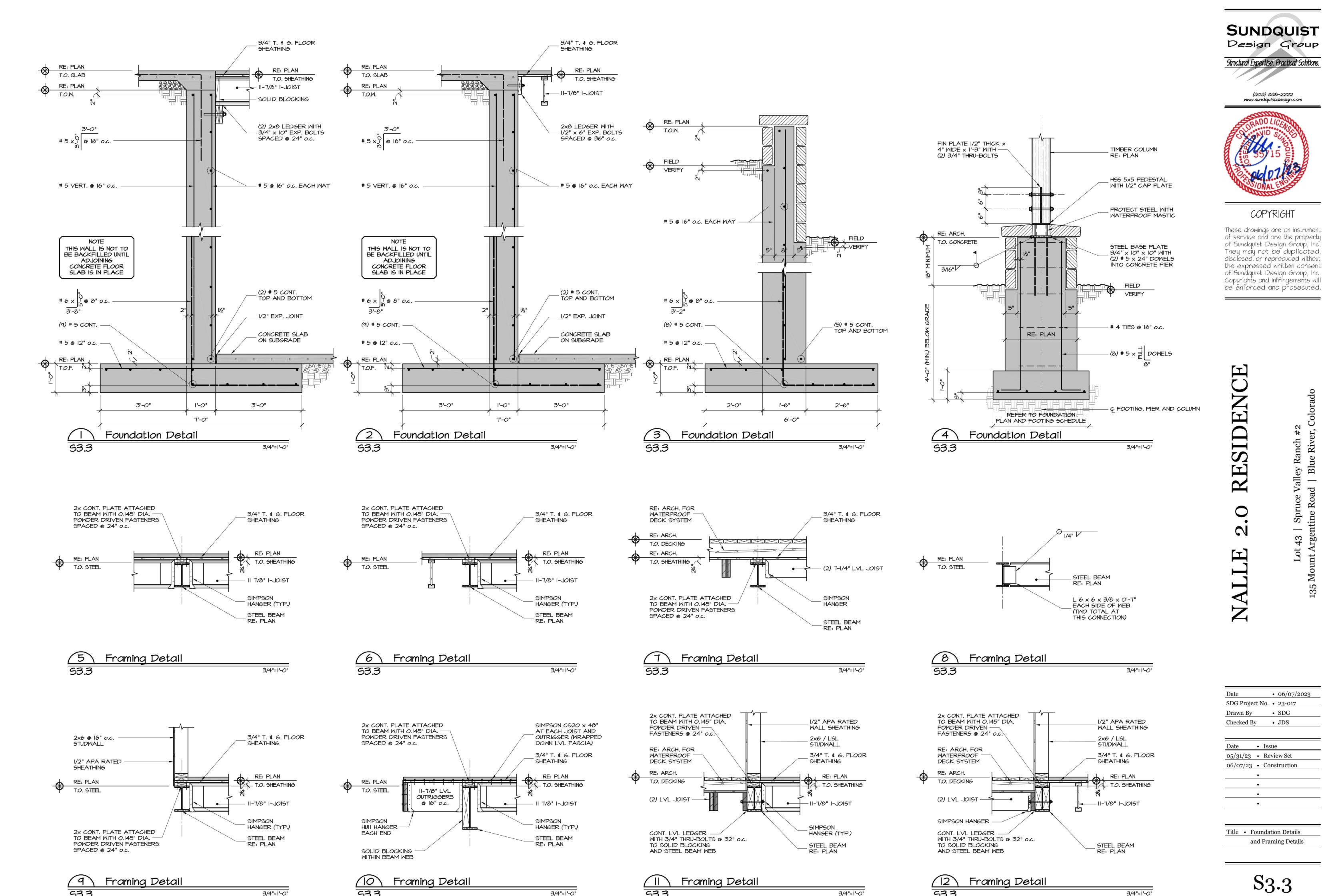
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• • • •

Title • Foundation Details

S_{3.2}



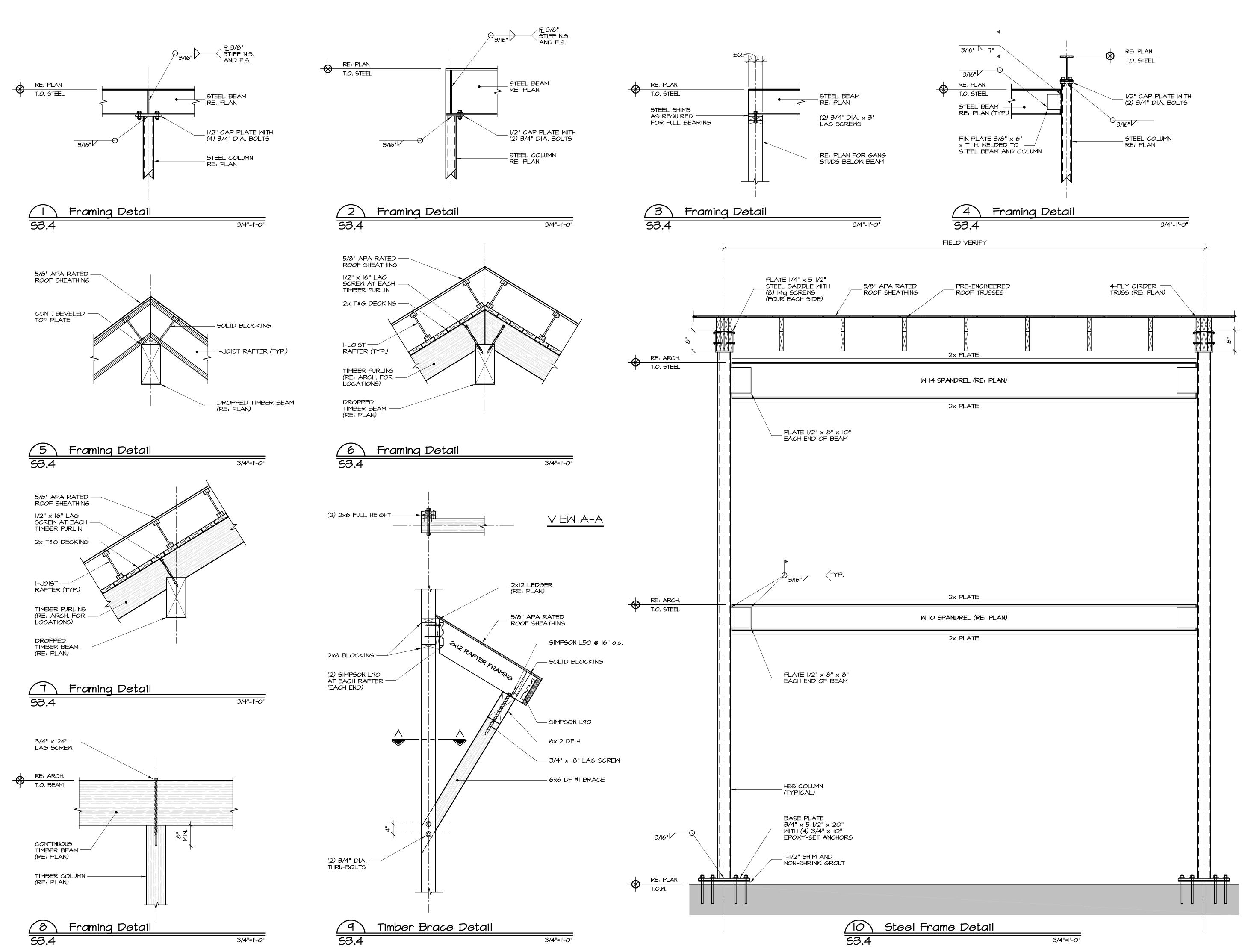
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Title • Framing Details

S3.4

3/4"=1'-0"

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•

Title • Framing Details

3/4"=1'-0"

S3.5

LEGEND:

PROPOSED ERV ROUTING BATH FANS FIREPLACE VENT

DRYER VENT

_ _ _ _ RANGE HOOD MAKE UP AIR

PLUMBING NOTES

SUPPLY LINE SIZE: 1.5" IS RECOMMENDED TO BE INSTALLED FOR THE FIRE SUPRESSION SYSTEM. REVIEW WATER CONNECTION WITH THE WELL LOCATION AND WATER STORAGE RECOMMENDATION.

MAXIMUM FIXTURE FLOW RATES: SHOWER - 2.5 GPM KITCHEN FAUCETS - 2.2 GPM BATHROOM FAUCETS - 2.0 GPM TOILET - 3.0 GPM WASHING MACHINE - 4.0 GPM

GAS LOAD CALCS

BOILER: 10,058K FIREPLACES: 4 UNITS X 40K = 120K COOKTOP: 1 UNIT = 100K BBQ: 1 UNIT = 50K

TOTAL ASSUMED GAS LOAD = 10,328K

MANUAL J:

TOTAL SF X AVERAGE CEILING HEIGHT: 11,613 X 13.33 = 154,801 BTU

TOTAL NUMBER OF OCCUPANTS X 100 BTU/OCCUPANT: 5 X 100 = 500 BTU

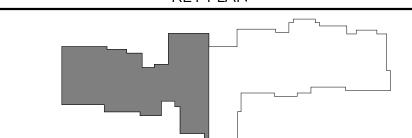
TOTAL NUMBER OF EXTERIOR DOORS X 1000 BTU/DOOR: 10 X 1000 BTU/DOOR = 10,000 BTU

TOTAL NUMBER OF EXTERIOR WINDOWS X 1000 BTU/WINDOW: 51 X 1000 BTU/WINDOW = 51,000

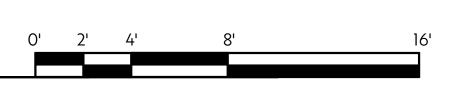
TOTAL BTU PER MANUAL J ABOVE: 216,301 BTU BOILER

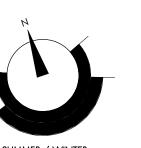
FOR A HOME THIS SIZE WE ARE PROPOSING A BOILER SIZE OF 255,000 BTU

KEY PLAN



LOWER LEVEL MECHANICAL PLAN SCALE: 1/4" = 1'-0"







ISSUE 06/13/2023 DRAWN BY: CHECKED BY:

LOWER LEVEL MECHANICAL PLAN

M1.01

LEGEND:

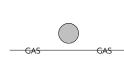
PROPOSED ERV ROUTING

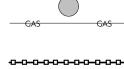




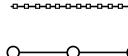
BATH FANS

FIREPLACE VENT





DRYER VENT





RANGE HOOD MAKE UP AIR

PLUMBING NOTES

SUPPLY LINE SIZE:

1.5" IS RECOMMENDED TO BE INSTALLED FOR THE FIRE SUPRESSION SYSTEM. REVIEW WATER CONNECTION WITH THE WELL LOCATION AND WATER STORAGE RECOMMENDATION.

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TOTAL NUMBER OF EXTERIOR WINDOWS X 1000 BTU/WINDOW: 51 X 1000 BTU/WINDOW = 51,000

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FOR A HOME THIS SIZE WE ARE PROPOSING A BOILER SIZE OF 255,000 BTU

KEY PLAN

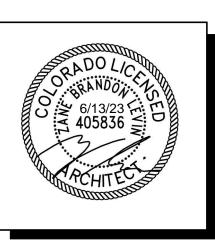


MAIN LEVEL MECHANICAL PLAN WEST

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



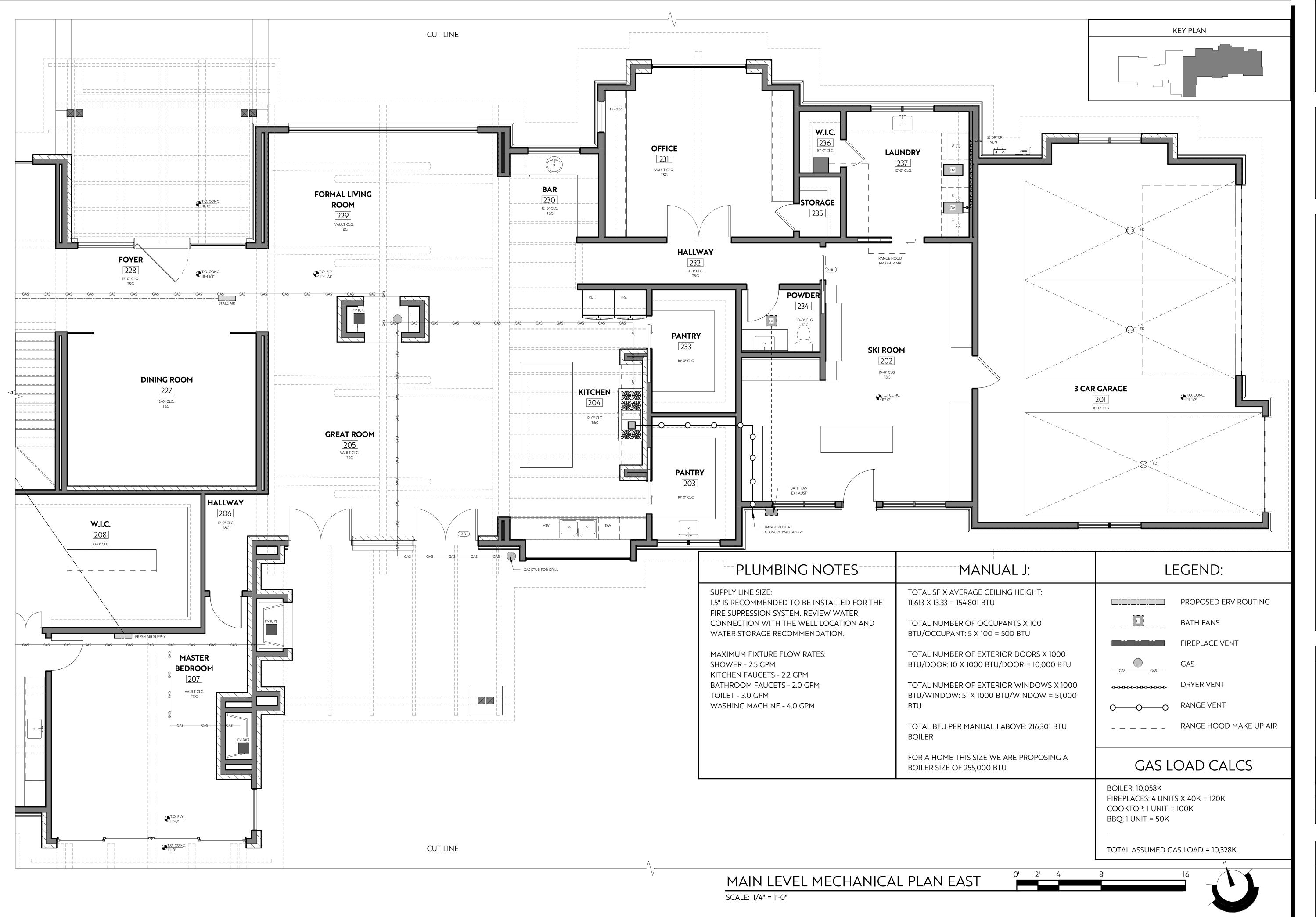


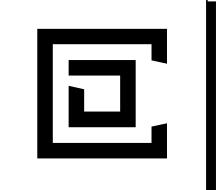


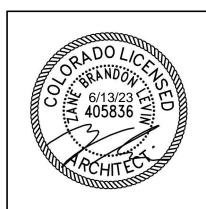
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MAIN LEVEL MECHANICAL PLAN WEST

M1.02







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MAIN LEVEL MECHANICAL PLAN EAST

M1.03