PROJECT PARTICIPANTS

OWNER:
JERRY & MANDY SAYRE

ARCHITECT:
HARDING HUEBNER, PLLC
573 FAIRVIEW RD SUITE 1
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LANDSCAPE ARCHITECT:
OSGOOD LANDSCAPE ARCHITECTURE
1 HAYWOOD ST SUITE 467
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CONTRACTOR:
PAINTED BUCKEYE BUILDERS, LLC
573 FAIRVIEW RD SUITE 21B
ASHEVILLE, NC 28803
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STRUCTURAL ENGINEER:
KLOESEL ENGINEERING, PA
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ASHEVILLE, NC 28801
828 255 0780 (EXT 100)
DANIEL@KLOESEL-ENGINEERING.COM

PROJECT INFO & LOCATION

301 CHAPEL RD
BLACK MOUNTAIN, NC 28711

PROPERTY TAX I.D. #(P.I.N.) 070070495700000

AREA TABULATION

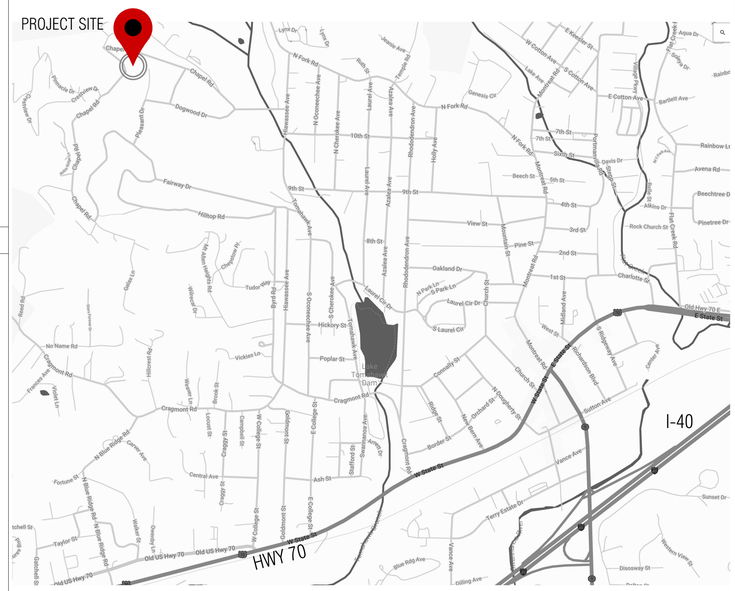
CONDITIONED:

LOWER LEVEL	630 SF
MAIN LEVEL	784 SF
TOTAL CONDITIONED	1,414 SF

UNCONDITIONED:

DECK	95 SF
SCREENED PORCH	110 SF
ENTRY BRIDGE	163 SF
TOTAL UNCONDITIONED	368 SF

VICINITY MAP



DRAWING INDEX

DRAWING INDEX				
SHEET	SHEET TITLE	PRICING	PERMIT	CONSTRUCTION
A0.0	COVER SHEET	2/12/25	7/11/25	7/31/25
A0.1	SCHEDULES	2/12/25	7/11/25	7/31/25
A0.2	ASSEMBLIES		7/11/25	7/31/25
A1.0	SURVEY	2/12/25	7/11/25	7/31/25
A1.1	SITE PLAN	2/12/25	7/11/25	7/31/25
A2.0	LOWER LEVEL FLOOR PLAN	2/12/25	7/11/25	7/31/25
A2.1	MAIN LEVEL FLOOR PLAN	2/12/25	7/11/25	7/31/25
A2.2	ROOF PLAN	2/12/25	7/11/25	7/31/25
A3.0	EXTERIOR ELEVATIONS	2/12/25	7/11/25	7/31/25
A4.0	BUILDING SECTIONS	2/12/25	7/11/25	7/31/25
A4.1	BUILDING SECTIONS	2/12/25	7/11/25	7/31/25
A4.2	BUILDING SECTIONS / ELEVATIONS	2/12/25	7/11/25	7/31/25
A5.0	INTERIOR ELEVATIONS			7/31/25
A5.1	INTERIOR ELEVATIONS			7/31/25
A5.2	INTERIOR ELEVATIONS			7/31/25
A5.3	INTERIOR ELEVATIONS			7/31/25
E1.0	LOWER LEVEL ELECTRICAL PLAN			7/31/25
E1.1	MAIN LEVEL ELECTRICAL PLAN			7/31/25
S0.1	STRUCTURAL NOTES		7/11/25	7/31/25
S1.1	FOUNDATION PLAN	2/12/25	7/11/25	7/31/25
S1.2	LOWER LEVEL FLOOR FRAMING PLAN	2/12/25	7/11/25	7/31/25
S1.3	MAIN LEVEL FLOOR FRAMING PLAN	2/12/25	7/11/25	7/31/25
S1.4	ROOF FRAMING PLANS	2/12/25	7/11/25	7/31/25
S2.1	FOUNDATION DETAILS AND SECTIONS	2/12/25	7/11/25	7/31/25
S3.1	STEEL FRAMING SECTIONS AND DETAILS	2/12/25	7/11/25	7/31/25
S3.2	FLOOR FRAMING SECTIONS AND DETAILS	2/12/25	7/11/25	7/31/25
S3.3	FLOOR & FRAMING SECTIONS & DETAILS		7/11/25	7/31/25
S4.1	ROOF FRAMING SECTIONS & DETAILS		7/11/25	7/31/25
S5.1	SCHEDULES AND MISC. DETAILS	2/12/25	7/11/25	7/31/25

ABREVIATIONS

AC	acoustic	FOS	face of studs	PR	pair
ACT	acoustic ceiling tile	FOW	face of wall	PSF	pounds per sq. ft.
AD	access door	FP	fire protection	PSI	pounds per sq. in.
ADJ	adjacent	FRP	fiber reinforced panel	PSL	parallel strand lumber
AFF	above finish floor	FRZR	freezer	PTD	painted
ALT	alternate	F.S.	footing step	PVC	polyvinylchloride
ALUM	aluminum	FS	frame size	QT	quarry tile
AP	access panel	FT	foot/feet	R	riser
BEV	beveled	FTG	footing	RAD	radius
BLDG	building	FUT	future	REG	register
BO	bottom of	GA	gauge	REQ'D	required
BM	beam	GALV	galvanized	RET	return
BLKG	blocking	GC	general contractor	REV	revised/revision(s)
BRD	board	GL	glass, glazing	RO	rough opening
BRG	bearing	GWB	gypsum wall board	SAFB	sound attenuating fiberglass batts
BYD	beyond	H	high, height		
CAB	cabinet	HD HT	head height	SAF	self-adhering flashing
CER	ceramic	HDWD	hardwood	SAM	self-adhering membrane
CJ	control joint	HDWR	hardware	SAN	sanitary
CLO	closet	HM	hollow metal	SF	square foot/feet
CLG	ceiling	HORIZ	horizontal	SIM	similar
CLR	clearance	HC	handicapped	SLNT	sealant
CMU	concrete masonry unit(s)	HVAC	heating, ventilation & air conditioning	SPF	spruce/pine/fir
COL	column			SS	stainless steel
COMP	composite	INSUL	insulation	STD	standard
CONC	concrete	INT	interior	STL	steel
CONT	continuous	KD	kiln dried	SUSP	suspend(ed)
DEMO	demolish/demolition	LAV	lavatory	SYP	southern yellow pine
DTL	detail	LCC	lead coated copper	T	tread
DF	drinking fountain	LVL	laminated veneer lumber	T&G	tongue and groove
DIM	dimension	LVR	louver	TELE	telephone
DISP	dispenser	MAX	maximum	THRU	through
DMT	demountable	MDF	medium density fiberboard	TO	top of
DN	down	MDO	medium density overlay	TOBM	top of beam
DNSP	downspout	MECH	mechanical	TOD	top of decking
DWG	drawing(s)	MEMB	membrane	TOF	top of footing
DWR	drawer	MFR	manufacturer	TOPL	top of plate
EA	each	MIN	minimum	TOS	top of slab
EJ	expansion joint	MISC	miscellaneous	TOSTL	top of steel
EL	elevation	MO	masonry opening	TOW	top of wall
ELEC	electric(al)	MLDG	moulding	TRTD	pressure treated wood
ELEV	elevator	MR	moisture resistant	TYP	typical
EQ	equal	MRGWB	moisture resistant gypsum wall board	UL	unfinished
EQUIP	equipment			UNO	unless noted otherwise
EXIST	existing	MTD	mounted	VAR	varies
EXP	expansion	MTL	metal	VB	vapor barrier
EXT	exterior	NIC	not in contact	VCT	vinyl composition tile
FD	floor drain	NOM	nominal	VERT	vertical
FEC	fire extinguisher cabinet	NTS	not to scale	W/	with
FF	finish face	OC	on center(s)	WC	water closet
FG	fixed glass	OFCI	owner furnished/contractor installed	WD	wood
FIN	finish(ed)			WDW	window
FIN FLR	finished floor	OD	outside diameter	WG	wire glass
FLR	floor	OPNG	opening	W/O	without
FLG	flooring	OSB	oriented strand board	WP	waterproof(ing)
FLSH	flashing	OPP	opposite	WR	water resistant
FNDN	foundation	PAN	panel	WRB	water resistant barrier
FO	face of	PARTN	partition	WWF	welded wire fabric
FOC	face of concrete	P/E	pre-engineered		
FOM	face of masonry	PERF	perforated		
		PLAM	plastic laminate		
		PLBG	plumbing		
		PLYWD	plywood		
		POLY	polyethelene		
		PNBD	panelboard		

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO APPLICABLE LOCAL AND NATIONAL CODES.

2. DO NOT SCALE DIMENSIONS FROM DRAWINGS. USE CALCULATED DIMENSIONS ONLY. NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONFLICTS EXIST.

3. ALL DIMENSIONS ARE TO FACE OF FRAMING AND CONC./MASONRY WALLS UNLESS OTHERWISE NOTED.

4. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO INITIATING THE WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

5. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT. PROVIDE ALL BUCK-OUT, BLOCKING BACKING AND JACKS REQUIRED FOR INSTALLATION.

6. VERIFY LOCATOIN OF ALL EXISTING UTILITIES AND SLEEVING. CAP, MARK, AND PROTECT AS NECESSARY TO COMPLETE THE WORK.

7. PROVIDE AS-BUILT PLAN OF ALL UTILITY LOCATIONS.

8. ALL WOOD IN CONTACT WITH CONCRETE/MASONRY TO BE PRESSURE TREATED.

9. SERVICE WATER PIPES IN UNHEATED SPACES TO BE INSULATED.

FRAMING NOTES

1. ALL FRAMING SPANS SHOWN IN DRAWINGS TO BE VERIFIED BY LUMBER SUPPLIER OR LICENSED ENGINEER. FACTORING MEMBER SIZES, BEAM DEPTH, WOOD SPECIES AND GRADE. LUMBER SUPPLIER TO OFFER ALTERNATE LUMBER SIZE AND SPECIFICATION WHERE NECESSARY WHILE KEEPING WITH THE ARCHITECT'S INTENT. MEMBERS DESIGNATED ON OR SCALED FROM THIS DOCUMENT ARE FOR DESIGN INTENT ONLY.

2. GENERAL CONTRACTOR TO COORDINATE FRAMING WITH MECHANICAL SYSTEMS, PLUMBING, OR OTHER REQUIRED BUILDING COMPONENTS.

3. GENERAL CONTRACTOR TO COORDINATE FRAMING COMPLIANCE WITH NORTH CAROLINA BUILDING CODE.

4. WOOD FLOOR JOISTS SHOULD BE DOUBLED UNDER INTERIOR PARTITION WALLS WHERE WALL IS PARALLEL TO FRAMING; CONTINUOUS BLOCKING TO BE PROVIDED WHERE WALLS ARE PERPENDICULAR. OTHER SOLUTIONS MAY BE SPECIFIED BY PRODUCT MANUFACTURER.

5. RAFTER SIZES SHOULD BE SIZED TO ACCOMODATE CHOSEN ROOFING MATERIAL. CONTRACTOR TO COORDINATE.

6.RAFTERS SHOULD BE DOUBLED AT WOOD FRAMED CHIMNEY BEARING. LOADING OF CHIMNEY WITH MASONRY VENEER REQUIRES A LOAD PATH TO FOUNDATION SEPARATE FROM ROOF RAFTERS.

7. ALL FRAMING TO BE 2X6 UNLESS OTHERWISE NOTED.

ENERGY CONSERVATION CODE INSULATION REQUIREMENTS

ENERGY CONSERVATION CODE INSULATION REQUIREMENTS

2018 NORTH CAROLINA ENERGY CONSERVATION CODE (2015 IECC w/NC AMENDMENTS)

NC CLIMATE ZONE 4A

MINIMUM INSULATION COMPONENT VALUES TO MEET OR EXCEED:
WINDOW VALUE: .35
SKYLIGHT U-VALUE: .55
SHGC: .30
CEILING R-VALUE: R-38
WOOD-FRAMED WALL R-VALUE: R-15
MAS. WALL R-VALUE: R-5 (INSUL. TO OUTSIDE)
FLOOR R-VALUE: R-19
BASEMENT R-VALUE: R-10
SLAB R-VALUE: R-10

PRINT DATE: 8/1/25

HARDING HUEBNER
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828.333.9018
www.hardinghuebner.com

Project Name & Address:
SAYRE CABIN
301 CHAPEL RD
BLACK MOUNTAIN, NC 28711

Project Number:
24.07

Issued For:
CONSTRUCTION

Issue Date:
31 JULY 2025

Revision #:

SCOTT M. HUEBNER
REGISTERED ARCHITECT
10961
NORTH CAROLINA
ASHEVILLE, N.C.
7/31/25

HARDING HUEBNER PLLC
REGISTERED ENGINEERING CORPORATION
53938
NORTH CAROLINA
ASHEVILLE, N.C.
7/31/25

COVER SHEET

A0.0

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SAYRE CABIN - DOOR SCHEDULE

NO.	TYPE	OPERATION	DOOR SIZE	NOTES
002-1	WD-1	POCKET	2'-8"×7'-0"	SEE DETAIL E1 FOR DR TRIM
003-1	WD-1	POCKET	2'-6"×7'-0"	SEE DETAIL E1 FOR DR TRIM
003-2	WD-1	POCKET	2'-6"×7'-0"	SEE DETAIL E1 FOR DR TRIM
004-1	WD-1	SWINGING	2'-6"×7'-0"	SEE DETAIL E1 FOR DR TRIM
004-2	GL-1	DOUBLE ACTING	2'-4"×7'-0"	GLASS SHOWER DOOR
005-1	WD-1	POCKET	2'-8"×7'-0"	SEE DETAIL E1 FOR DR TRIM
006-1	WD-1	POCKET	2'-8"×7'-0"	SEE DETAIL E1 FOR DR TRIM
007-1	WD-1	SWINGING	2'-8"×7'-0"	EZ-JAMB
103-1	WD-1	SWINGING	2'-6"×7'-0"	DOOR FINISH TO MATCH WALL, CONCEALED HARDWARE
104-1	WD-1	SWINGING	2'-6"×7'-0"	DOOR FINISH TO MATCH WALL, CONCEALED HARDWARE

SAYRE CABIN - WINDOW SCHEDULE

NO.	OPERATION	FRAME SIZE	NOTES
002-2	OUTSWING PATIO DOOR	3'-0"×7'-0"	
005-2	OUTSWING PATIO DOOR	3'-0"×7'-0"	
101-1	INSWING PATIO DOOR	3'-0"×7'-0"	
101-2	OUTSWING PATIO DOOR	2'-8"×7'-0"	
105-1	OUTSWING PATIO DOOR	2'-8"×7'-0"	
L1A	FIXED	4'-0"×2'-0"	
L1B	FIXED	4'-0"×6'-11 1/2"	
L2	FIXED	3'-0"×1'-11 1/2"	
L3	FIXED	3'-0"×1'-11 1/2"	
L4A	FIXED	4'-0"×1'-10 1/2"	
L4B	FIXED	4'-0"×7'-1"	
L5	FIXED	2'-0"×8'-11 1/2"	
L6	FIXED	4'-2"×3'-4 1/2"	
L7	FIXED	6'-4 1/2"×3'-4 1/2"	
L8	FIXED	4'-1 1/2"×7'-9"	
L9	FIXED	3'-6 1/2"×7'-9"	
L10	FIXED	5'-6 1/2"×7'-9"	
M1A	AWNING	5'-3 1/4"×2'-1"	
M1B	FIXED	5'-3 1/4"×8'-4 3/4"	
M2A	AWNING	5'-3 1/4"×2'-1"	
M2B	FIXED	5'-3 1/4"×8'-4 3/4"	
M3A	AWNING	5'-4 1/4"×2'-1"	
M3B	FIXED	5'-4 1/4"×8'-4 3/4"	
M4A	AWNING	5'-4 1/4"×2'-1"	
M4B	FIXED	5'-4 1/4"×8'-4 3/4"	
M5A	AWNING	5'-3 1/4"×2'-1"	
M5B	FIXED	5'-3 1/4"×8'-4 3/4"	
M6A	AWNING	5'-3 1/4"×2'-1"	
M6B	FIXED	5'-3 1/4"×8'-4 3/4"	
M7A	FIXED	2'-6"×8'-4 7/8"	TRAPEZOID FRAME
M7B	FIXED	2'-6"×2'-1"	
M8A	FIXED	5'-4 1/4"×3'-1 1/8"	TRAPEZOID FRAME
M8B	FIXED	2'-5 1/4"×7'-0 3/4"	
M9	FIXED	4'-2"×8'-7 1/2"	
M10	FIXED	4'-2 1/2"×8'-7 1/2"	
M11	FIXED	2'-0"×8'-7 1/2"	
M12	FIXED	3'-6"×8'-7 1/2"	
M13	FIXED	4'-7 1/2"×8'-7 1/2"	
M14	FIXED	7'-9 1/4"×2'-6"	
M15	FIXED	3'-7 3/4"×7'-0"	
M16	FIXED	2'-0"×7'-0"	SIDE LIGHT
M17	FIXED	2'-8"×3'-5 13/16"	TRAPEZOID FRAME

ASI 6 __/__/25

PRINT DATE: 12/18/25

HARDING HUEBNER

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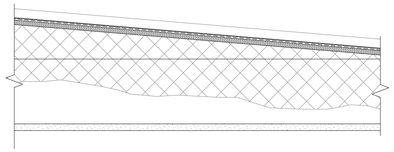
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53938
NORTH CAROLINA
ASHEVILLE, N.C.

7/31/25

SCHEDULES

A0.1

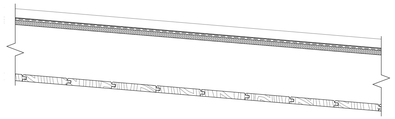
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SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

STANDING SEAM MTL ROOF
W.R.B.
ROOF SHEATHING
2x FURRING
2x8 FRAMING (SEE STRUCT)
SPF INSUL (OPEN CELL)
CLG FIN

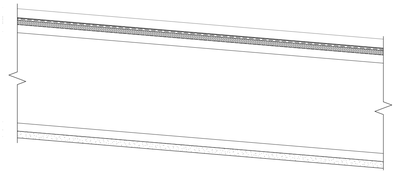
R4 ROOF ASSEMBLY



SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

STANDING SEAM MTL ROOF
W.R.B.
ROOF SHEATHING
2x6 RAFTER TAILS (SEE STRUCT)
SOFFIT

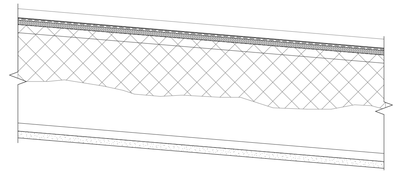
R3 ROOF ASSEMBLY



SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

STANDING SEAM MTL ROOF
W.R.B.
ROOF SHEATHING
11 7/8" TJI FRAMING (SEE STRUCT)
CLG FIN

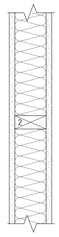
R2 ROOF ASSEMBLY



SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

STANDING SEAM MTL ROOF
W.R.B.
ROOF SHEATHING
11 7/8" TJI FRAMING (SEE STRUCT)
SPF INSUL (OPEN CELL)
CLG FIN

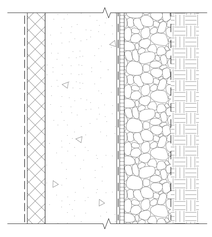
R1 ROOF ASSEMBLY



SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

INTERIOR WALL FIN
2x4, 2x6, OR 2x8 FRAMING (SEE PLANS)
ACOUSTIC BATT INSUL (WHERE APPLICABLE)
INTERIOR WALL FIN

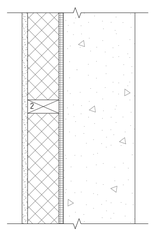
W4 WALL ASSEMBLY



SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

VAPOR BARRIER
2" RIGID INSUL
CONC FNDN WALL (SEE STRUCT)
WATERPROOFING
PROTECTION BOARD
WASHED GRAVEL
FILTER FABRIC

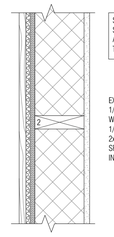
W3 WALL ASSEMBLY



SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

INTERIOR WALL FINISH
2x4 FRAMING
SPF INSUL (OPEN CELL)
1/2" RIGID INSUL
CONC FNDN WALL (SEE STRUCT)

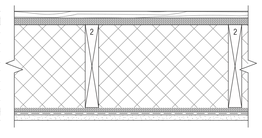
W2 WALL ASSEMBLY



SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

EXT SIDING
1/4" DRAINAGE MAT
W.R.B.
1/2" WALL SHEATHING
2x4 OR 2x6 FRAMING (SEE PLANS)
SPF INSUL (OPEN CELL)
INTERIOR WALL FIN

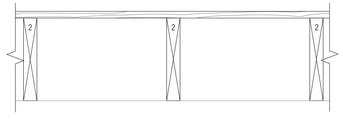
W1 WALL ASSEMBLY



SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

FIN FLR
3/4" FLR SHEATHING
2x10 FRAMING FRAMING (SEE STRUCT)
SPF INSUL (OPEN CELL)
1/2" SHEATHING
W.R.B.
EXTERIOR SOFFIT

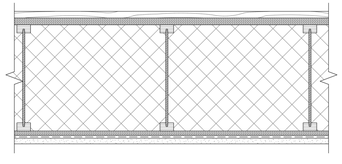
S5 FLOOR ASSEMBLY



SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

1x WD DECKING
2x P.T. FRAMING (SEE STRUCT)

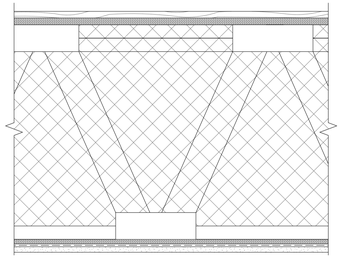
S4 FLOOR ASSEMBLY



SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

FIN FLR
3/4" FLR SHEATHING
TJI FRAMING (SEE STRUCT)
SPF INSUL (OPEN CELL)
1/2" SHEATHING
W.R.B.
EXTERIOR SOFFIT

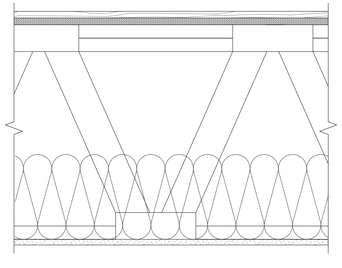
S3 FLOOR ASSEMBLY



SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

FIN FLR
3/4" FLR SHEATHING
FLR TRUSS (SEE STRUCT)
SPF INSUL (OPEN CELL)
1/2" SHEATHING
W.R.B.
EXTERIOR SOFFIT

S2 FLOOR ASSEMBLY



SEE DETAILS AND SCHEDULES TO CONFIRM ALL FINISHES AND THICKNESSES

FIN FLR
3/4" FLR SHEATHING
FLR TRUSS (SEE STRUCT)
ACOUSTIC BATT INSUL
5/8" CLG

S1 FLOOR ASSEMBLY

PRINT DATE: 8/1/25

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asheville nc 28803
828.333.9018
www.hardinghuebner.com

Project Name & Address:

SAYRE CABIN
301 CHAPEL RD
BLACK MOUNTAIN, NC 28711

Project Number:

24.07

Issued For:

CONSTRUCTION

Issue Date:

31 JULY 2025

Revision #:

SCOTT M. HUEBNER
REGISTERED ARCHITECT
10961
NORTH CAROLINA
ASHEVILLE, N.C.
7/31/25

HARDING HUEBNER PLLC
REGISTERED ARCHITECTURAL CORPORATION
53938
NORTH CAROLINA
ASHEVILLE, N.C.
7/31/25

ASSEMBLIES

A0.2

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NOTES:

1) THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY PER D.F.I.R.M.#3700070000J - EFFECTIVE DATE: JANUARY 6, 2010.

2) PROPERTY SUBJECT TO ALL RIGHTS-OF-WAY AND EASEMENTS OF RECORD, INCLUDING, BUT NOT LIMITED TO, THOSE SHOWN HEREON.

3) SURVEYOR WAS NOT PROVIDED WITH A LEGAL TITLE SEARCH. THERE MAY EXIST EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS PERTINENT TO THIS PROPERTY THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE THAT ARE NOT SHOWN ON THIS PROPERTY.

4) BUILDINGS, SURFACE AND SUBSURFACE IMPROVEMENTS ADJACENT TO THE SITE ARE NOT NECESSARILY SHOWN. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT SURVEYED OR CONSIDERED AS PART OF THIS SURVEY. NO EVIDENCE OR STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND CONDITIONS, CONTAINERS, OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY.

5) AREA BY COORDINATE COMPUTATION.

6) ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES. THE VERTICAL DATUM USED FOR THIS SURVEY IS NAVD' 88. THE CONTOUR INTERVAL IS TWO FEET.

7) SUBJECT PROPERTY IS ZONED "CR-1" PER THE TOWN OF BLACK MOUNTAIN ZONING ORDINANCE. REFER TO THIS ORDINANCE FOR REGULATIONS APPLICABLE TO THE SUBJECT PROPERTY.

BUILDING SETBACKS (PER CR-1 CLASSIFICATION):
FRONT= 30'
SIDE= 10'
REAR= 30'

BUILDING SETBACKS (PER DB 4468 PG 319 RESTRICTIVE COVENANTS):
FRONT= 35' (ALSO SHOWN ON PB 41 PG 7)
SIDE= 15'
REAR= 25'

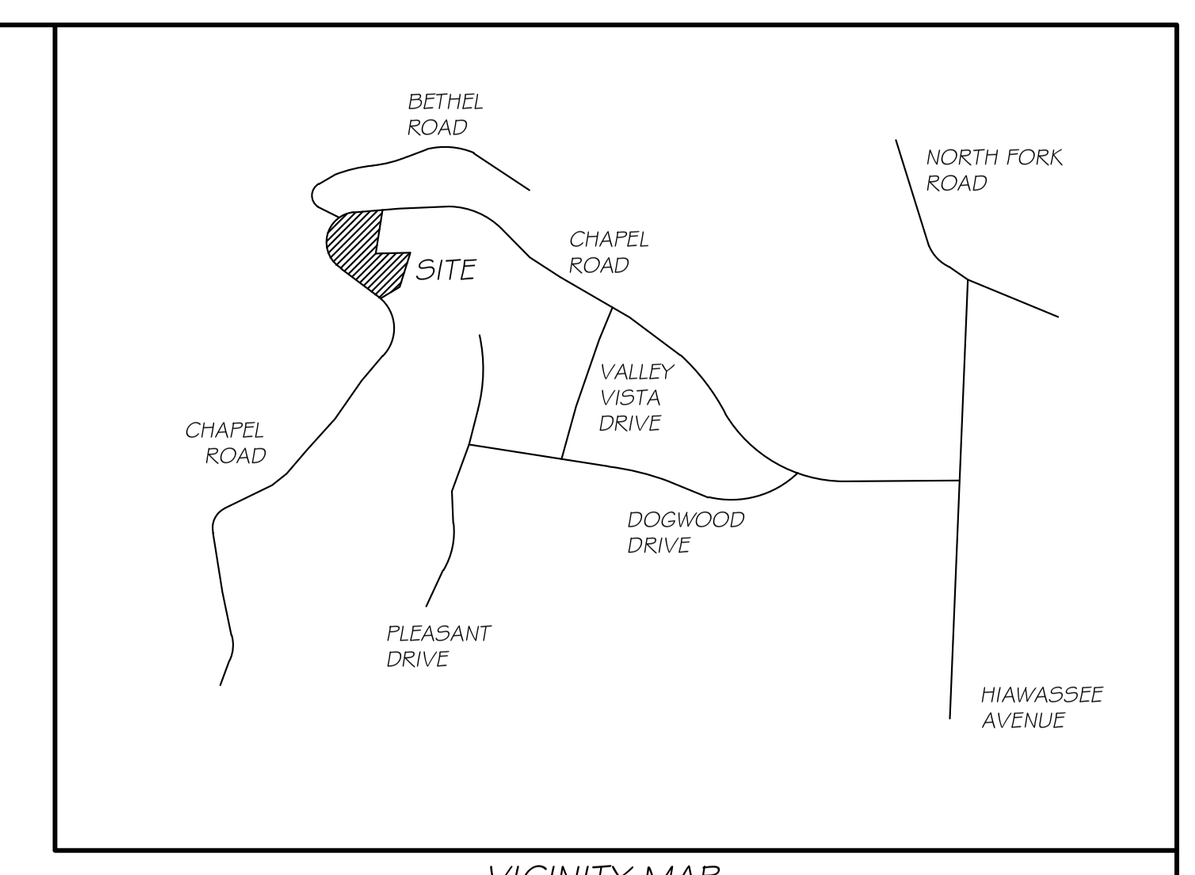
*MOST RESTRICTIVE SETBACKS ARE SHOWN HEREON.

LEGEND & ABBREVIATIONS :

PB= PLAT BOOK
DB= DEED BOOK
PG= PAGE
RW= RIGHT OF WAY
PIN= PARCEL IDENTIFICATION NUMBER
o CALCULATED POINT (NOT MARKED IN FIELD)
◉ RECOVERED BOUNDARY MONUMENT (SIZE AND TYPE AS NOTED)
+/- HEIGHT OF BOUNDARY MONUMENT ABOVE/BELOW ADJACENT GRADE
◍ CLEANOUT (SANITARY SEWER)
CMON= CONCRETE MONUMENT
C.T.= CRIMPED TOP
HDPE= HIGH-DENSITY POLYETHYLENE PIPE
INV= INVERT ELEVATION
IPIPE= IRON PIPE FOUND
MH= SANITARY SEWER MANHOLE
RBC= REBAR WITH "HIGH COUNTRY" ID CAP FOUND
RBF= REBAR FOUND
— s — SANITARY SEWER LINE
VCP= VITRIFIED CLAY PIPE

PROPERTY CURVE TABLE

CURVE	RADIUS	CHORD BEARING	CHORD LENGTH	ARC LENGTH
C1	63.09'	N 40°03'47" W	25.45'	25.63'
C2	63.09'	N 08°32'01" W	42.94'	43.81'
C3	38.88'	N 48°23'28" E	46.83'	50.26'



VICINITY MAP
NOT TO SCALE

NORTH
PB 41 PG 7

REFERENCES:
- DB 6413 PG 261
- PB 41 PG 7
- DB 4468 PG 319



TREE NO.	SPECIES & SIZE(in.)
250	Maple 14
251	Maple 14
252	Maple 14
308	Birch 10
309	Birch 8
311	Birch 6
312	Birch 8
313	Poplar 22
314	Birch 8
316	Maple 24
319	Chestnut Oak 22
321	Maple 6
322	Birch 8
323	Birch 6
325	Birch 8
326	Sourwood 14
327	Poplar 20
329	Birch 18
332	Poplar 14
333	Birch 10
335	Birch 8
339	Poplar 22
340	Poplar 12
342	Poplar 16
343	Poplar 10
351	Birch 6
354	Birch 10
355	Poplar 20
356	Poplar 20
357	Birch 6
358	Birch 8
359	Poplar 16
360	Birch 6
364	Poplar 18
365	Poplar 16
366	Poplar 22
386	Poplar 8
387	Maple 18
391	Poplar 6
400	Maple 18
401	Birch 14
404	Sourwood 8
407	Chestnut Oak 20
408	White Oak 22
409	White Oak 10
410	Sourwood 12
411	Maple 14
413	Sourwood 10
414	Chestnut Oak 16
415	White Oak 10
416	Maple 18
419	Poplar 20
420	Sycamore 14
422	Poplar 12
423	Sycamore 8
424	Birch 8
426	Sycamore 12
429	Birch 8
430	Black Gum 20
432	Poplar 16
435	Birch 6
436	Poplar 10
437	Poplar 12
439	Maple 10
440	Poplar 6
443	Poplar 8
451	Poplar 12
452	Poplar 8
456	Chestnut Oak 14
458	Chestnut Oak 18
465	Poplar 10
466	Chestnut Oak 12
468	Poplar 10
469	Birch 8
470	Birch 12
471	Birch 8
472	Birch 10
474	Chestnut Oak 16
476	Sourwood 10
477	Chestnut Oak 34
479	Birch 6
480	Chestnut Oak 16
481	Maple 16
482	Maple 16
484	Maple 10
491	Chestnut Oak 26
495	Poplar 8
497	Birch 14
500	Poplar 14
502	Birch 6
503	Poplar 16
504	Birch 8
505	Sourwood 6
506	Sourwood 14
509	Chestnut Oak 14
512	Sourwood 6
513	Chestnut Oak 22
514	Maple 10
515	Maple 8
520	Poplar 18
521	Birch 6
523	Birch 6
525	Jack Pine 12
538	Maple 6
540	Sourwood 8
541	Black Gum 14
544	Maple 8
549	Locust 8
550	White Pine 6
551	Maple 8
552	Black Gum 8
553	Chestnut Oak 16
554	Black Gum 12
555	Red Oak 12
556	White Pine 12
557	Chestnut Oak 10
558	Chestnut Oak 16
560	Maple 18
563	Black Gum 12
564	Chestnut Oak 16
565	Black Gum 10
567	Chestnut Oak 14
568	Red Oak 18
569	Sourwood 6
570	Chestnut Oak 6
572	Black Gum 8
573	Chestnut Oak 12
574	Black Gum 10
575	Black Gum 8
577	Black Gum 8
578	Chestnut Oak 18
579	Chestnut Oak 12
580	Black Gum 8
581	Maple 12
583	Chestnut Oak 16
585	Sourwood 8
586	Chestnut Oak 12
587	Chestnut Oak 18
591	Black Gum 8
593	Maple 12 dbl 10
594	Black Gum 8
595	Chestnut Oak 12
597	Black Gum 10
598	Jack Pine 16
599	Maple 8 dbl 6
602	Chestnut Oak 24
605	Sourwood 14
606	Chestnut Oak 10
607	Maple 18
608	Jack Pine 10
610	Black Gum 10
611	Maple 14
623	Poplar 10
628	Chestnut Oak 12
629	Black Gum 8
630	Chestnut Oak 18
632	Chestnut Oak 16
633	Black Gum 6
635	Birch 6
636	Chestnut Oak 6
638	Chestnut Oak 12
641	Chestnut Oak 16
642	Chestnut Oak 12
643	Chestnut Oak 14
647	Chestnut Oak 18
654	Sourwood 6
655	Chestnut Oak 10
658	Black Gum 20
659	Chestnut Oak 16
662	Red Oak 8
664	Chestnut Oak 18
665	Maple 6
666	Red Oak 12

I, ERIC S. MCABEE, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY SUPERVISION FROM AN ACTUAL TOPOGRAPHICAL GROUND SURVEY PERFORMED UNDER MY SUPERVISION; THAT THIS TOPOGRAPHICAL GROUND SURVEY WAS PERFORMED TO MEET NATIONAL MAP ACCURACY STANDARDS AS APPLICABLE; THAT THE ORIGINAL DATA WAS OBTAINED FROM 6/17/24 THRU 6/21/24; AND THAT ALL COORDINATES ARE LOCALIZED GROUND COORDINATES BASED ON THE NORTH AMERICAN DATUM (NAD83-2011). WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS THE 31ST DAY OF JULY, 2024.

[signature] L-4095

I, ERIC S. MCABEE, CERTIFY:

THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY PERFORMED UNDER MY SUPERVISION; DEED DESCRIPTION RECORDED IN BOOK 6413 PAGE 261; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN MULTIPLE DOCUMENTS SHOWN HEREON; THAT THE RATIO OF PRECISION AS CALCULATED BY LATITUDES AND DEPARTURES IS 1:10,000+; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED. WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS THE 31st DAY OF JULY, 2024.

THAT THIS SURVEY IS OF AN EXISTING PARCEL OF LAND, AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET, AS DESCRIBED IN G.S. 47-30 (F)(11)(C)(1).

[signature] L-4095

NORTH CAROLINA PROFESSIONAL SEAL L-4095 LAND SURVEYOR ERIC S. McABEE

SCALE: 1" = 20'
20' 10' 0' 20' 40' 60'

McABEE & ASSOCIATES, P.A.
PROFESSIONAL LAND SURVEYING
Eric S. McAbee, PLS Fax (828) 628-1294
J. Barry West, PLS Telephone (828) 628-1295
Wallace S. McAbee, PLS (Emeritus)
3 McAbee Trail Fairview North Carolina, 28730
www. mcabeesurvey.com Firm License Number: C-694

NO.	DATE	DESCRIPTION	BY

BOUNDARY, TOPOGRAPHIC AND TREE SURVEY OF THE PROPERTIES OF:

JEREMY REGAN SAYRE & AMANDA JOY SAYRE
(BEING LOTS 7 & 8 OF PB 41 PG 7 - SPRING HILLS SUBDIVISION)

PIN: 0700-70-4957 (LOT 7)
PIN: 0700-70-5814 (LOT 8)

BLACK MOUNTAIN TOWNSHIP
BUNCOMBE COUNTY, N.C.

DATE:	7-31-24
PROJECT #:	14344
DRAWING #:	G-24-6069
DRAWN BY:	ESM
SCALE:	1"=20'

HARDING HUEBNER
573 fairview road / suite 1
asheville nc 28803
828.333.9018
www.hardinghuebner.com

Project Name & Address:
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301 CHAPEL RD
BLACK MOUNTAIN, NC 28711

Project Number:
24.07

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CONSTRUCTION

Issue Date:
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Revision #:

SCOTT M. HUEBNER REGISTERED ARCHITECT 10961 NORTH CAROLINA ASHEVILLE, N.C.
7/31/25

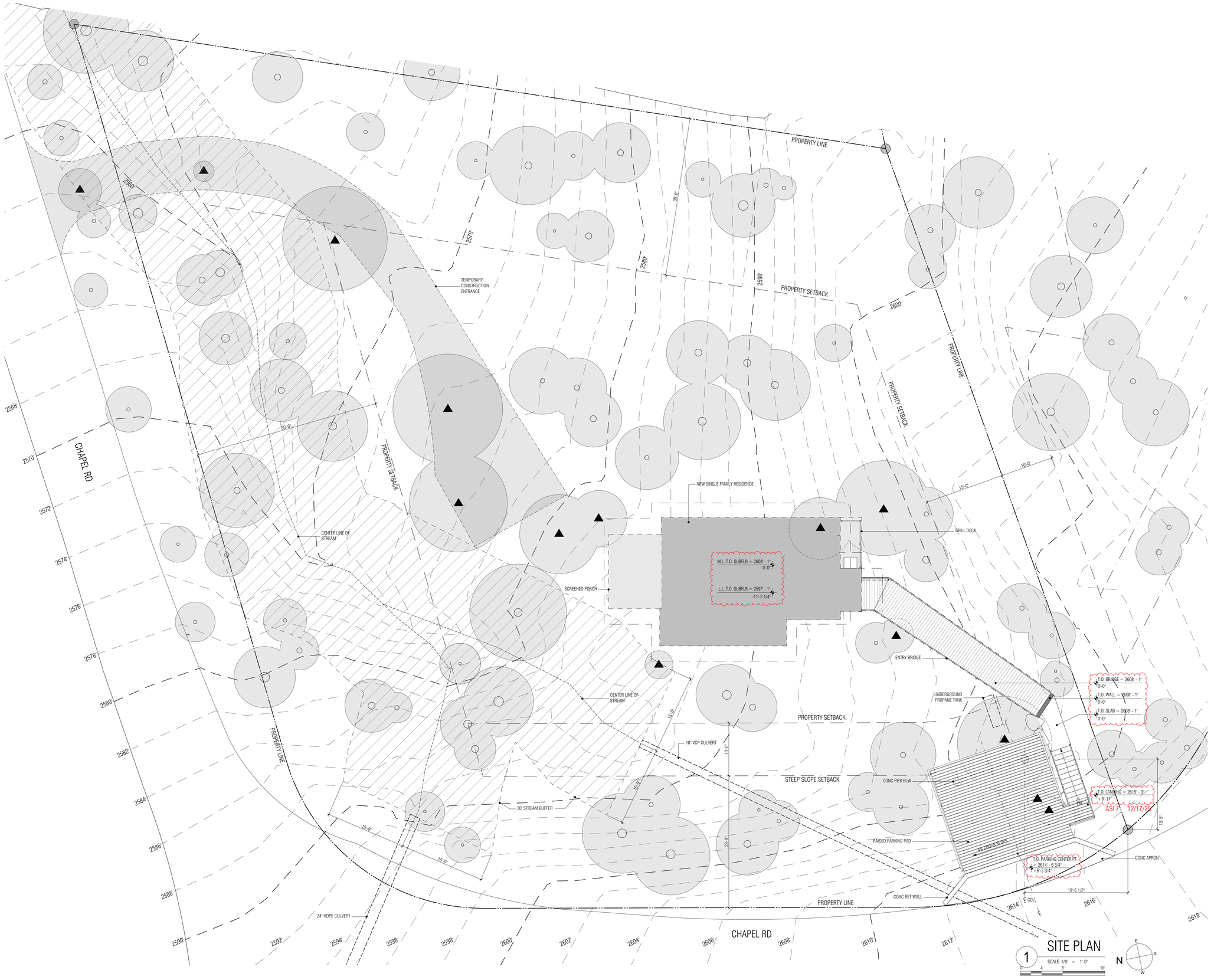
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7/31/25

SURVEY

A1.0

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PRINT DATE: 8/1/25



LEGEND

- EXISTING ROAD
- PROPERTY LINE
- SETBACK LINE
- EXISTING CONTOUR
- EXISTING MAJOR CONTOUR
- REVISED CONTOUR
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- UNDERGROUND WATER LINE
- UNDERGROUND CABLE / TV LINE
- UNDERGROUND SANITARY SEWER LINE
- UNDERGROUND GAS
- UNDERGROUND GEOTHERMAL
- UNDERGROUND ELECTRICAL
- TIGHTLINE DRAINAGE LINE
- FENCE

1 SITE PLAN
SCALE: 1/8" = 1'-0"
0 4' 8' 16'

N

PRINT DATE: 12/17/25

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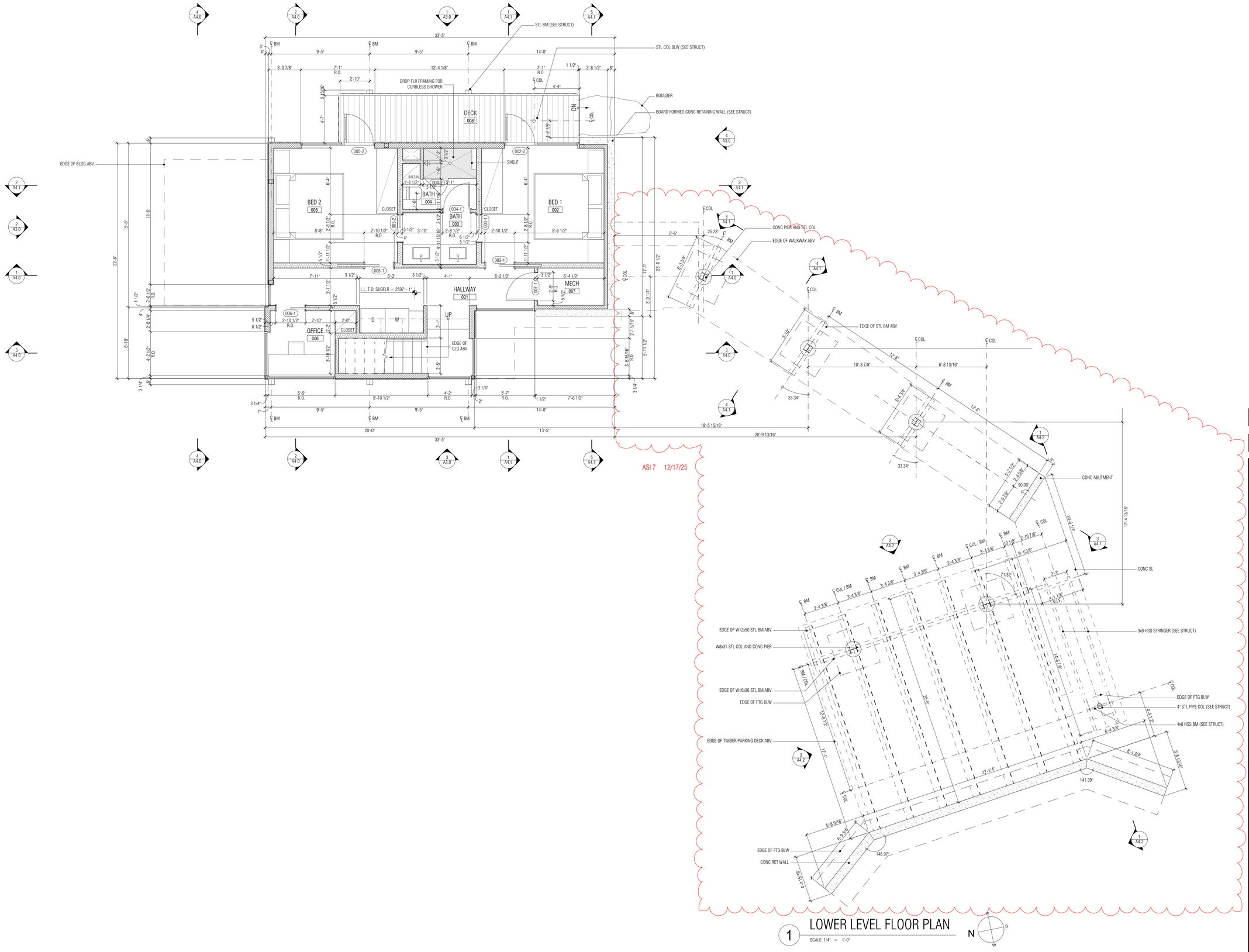
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7/31/25

SITE PLAN

A1.1

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ASI 7 12/17/25

1 LOWER LEVEL FLOOR PLAN

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

N

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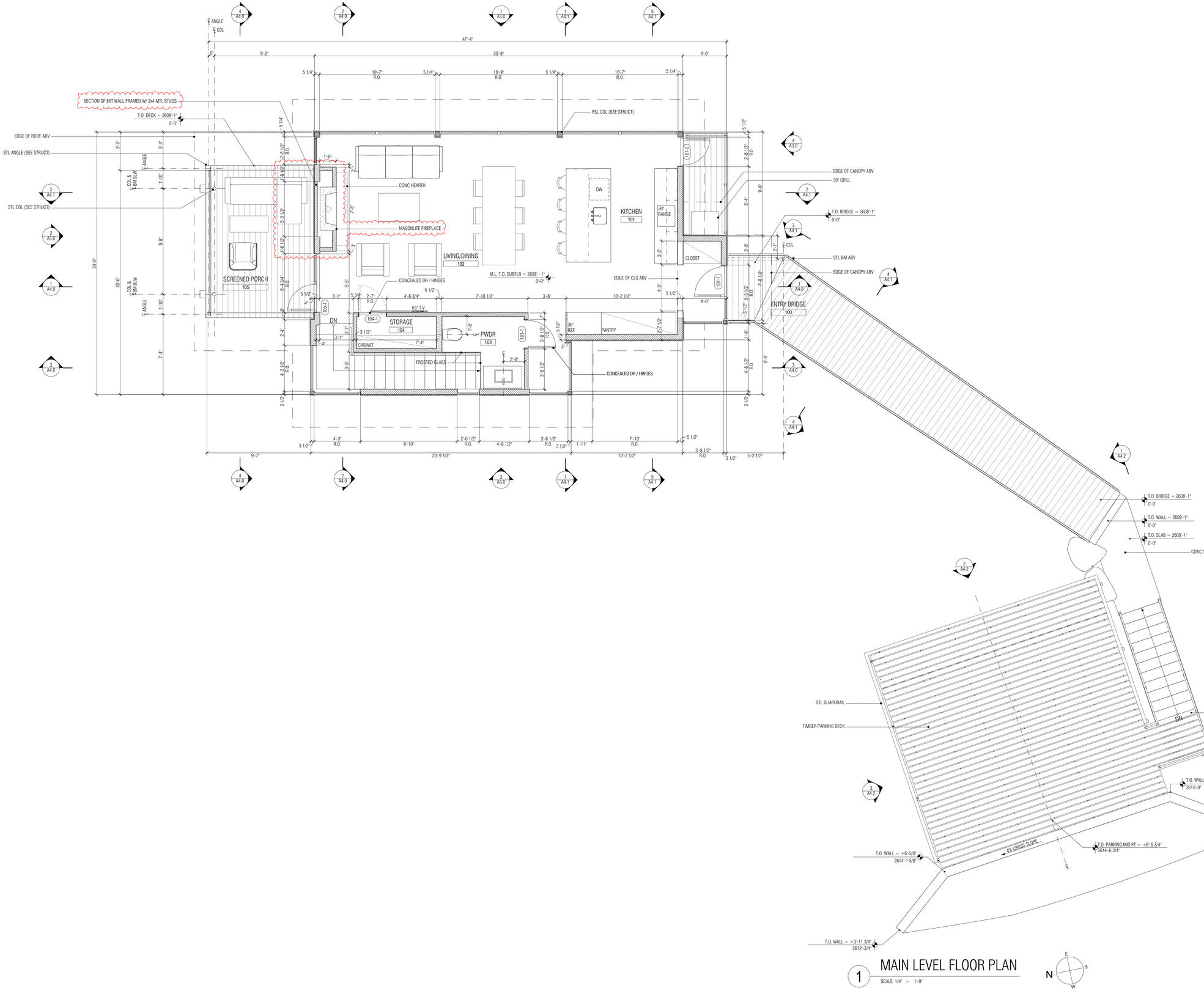
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7/31/25

LOWER LEVEL FLOOR PLAN

A2.0

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PRINT DATE: 12/17/25



1 MAIN LEVEL FLOOR PLAN

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

PRINT DATE: 3/16/26

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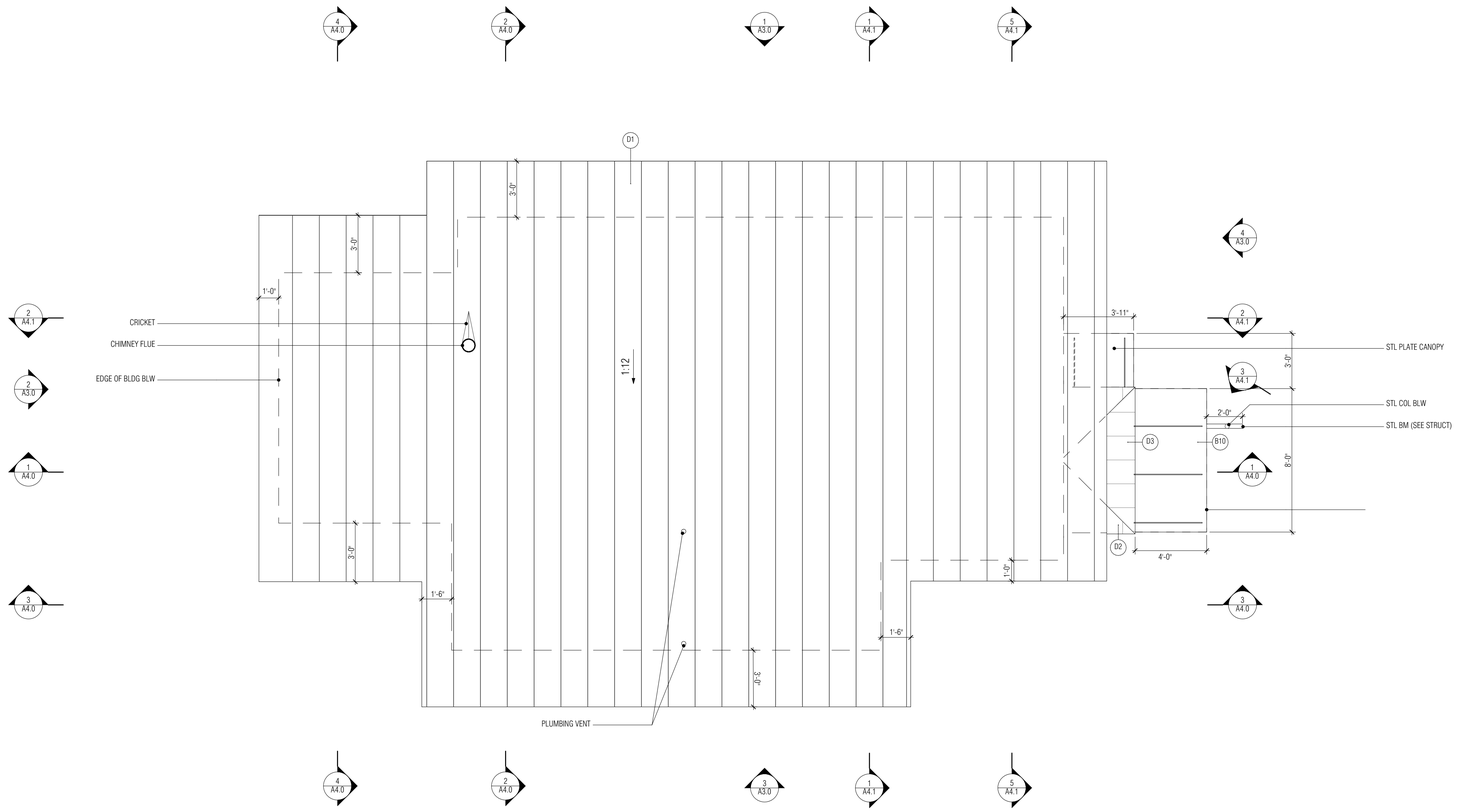
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MAIN LEVEL FLOOR PLAN

A2.1

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

N E S W

PRINT DATE: 8/1/25

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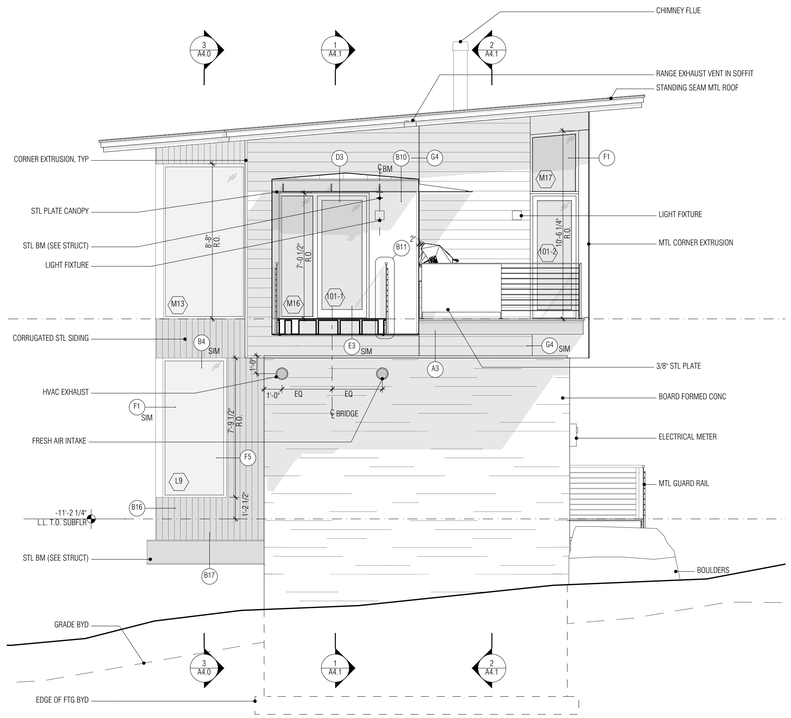
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ROOF PLAN

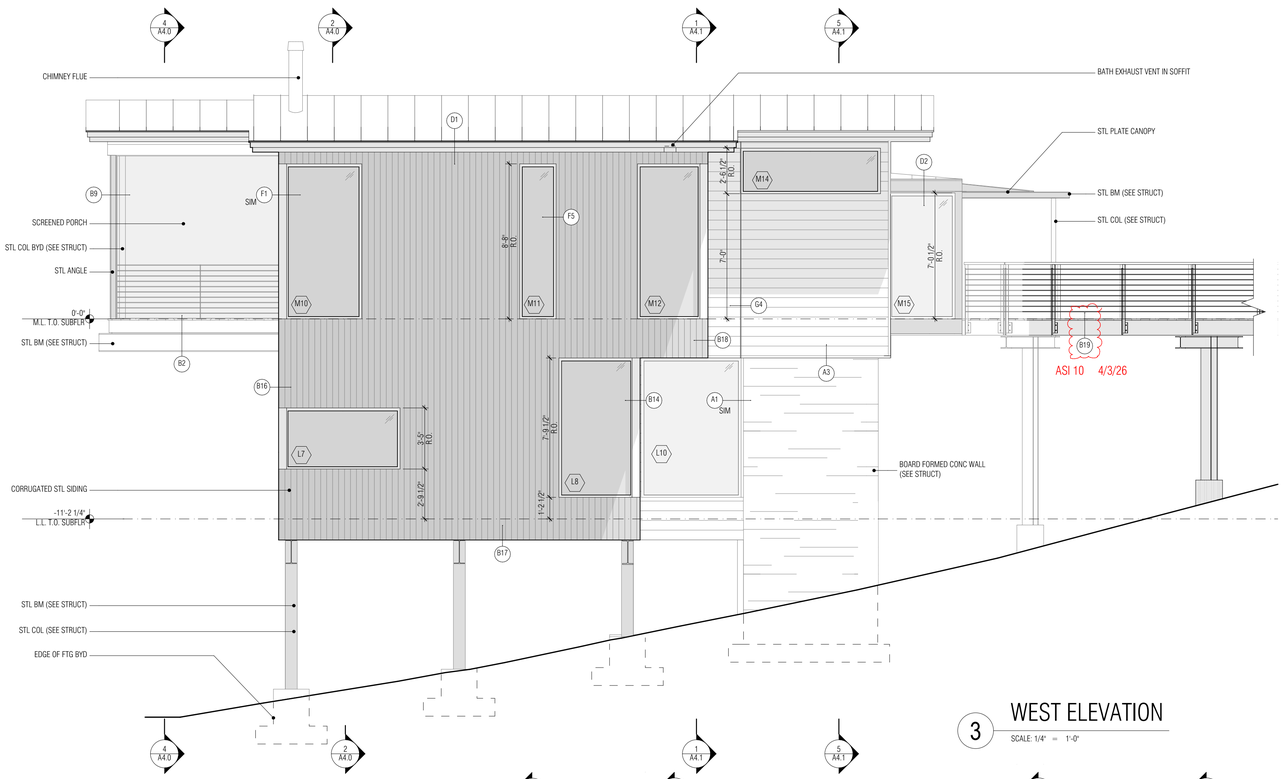
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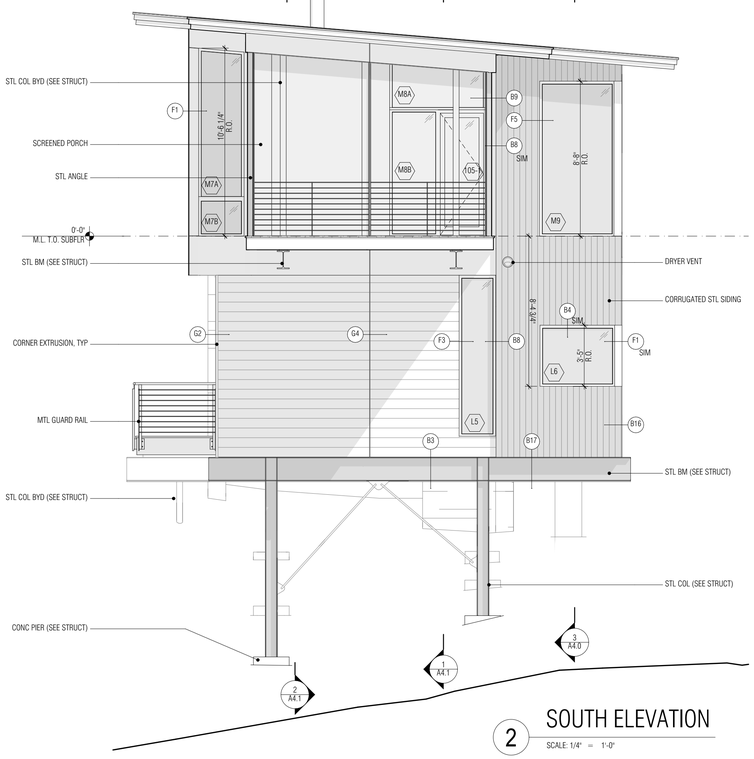
4 NORTH ELEVATION

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



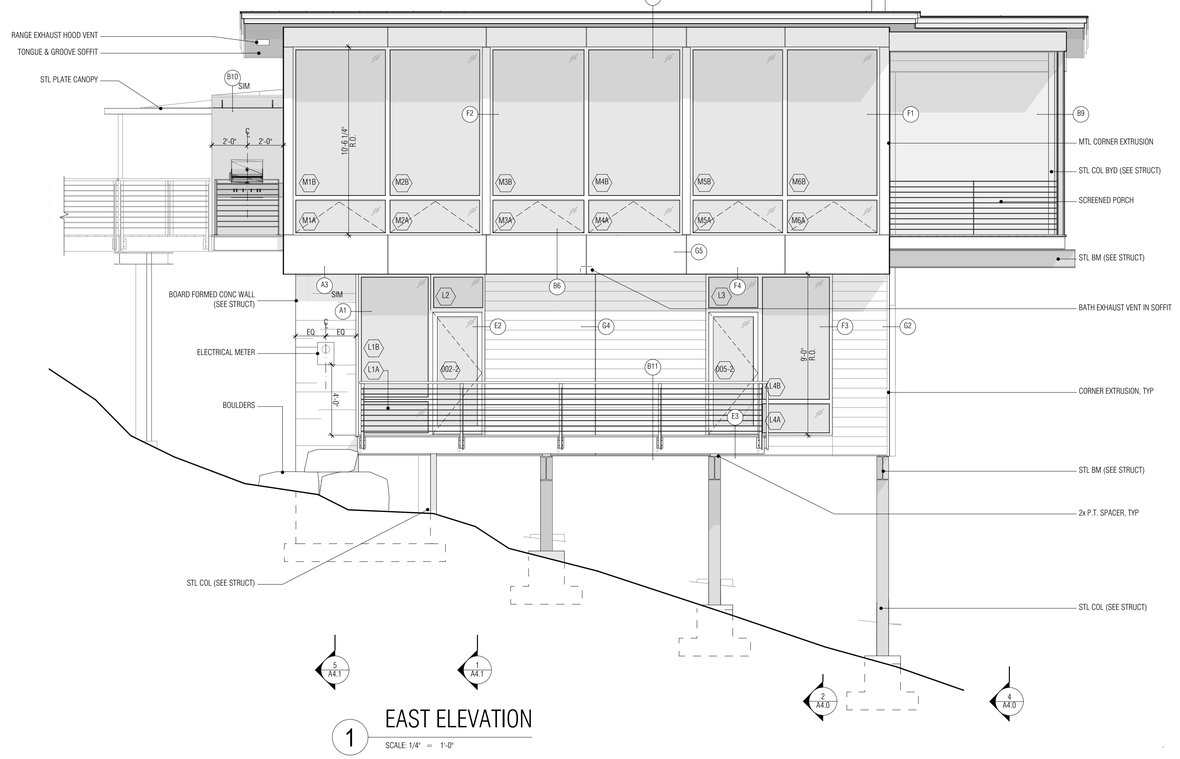
3 WEST ELEVATION

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



2 SOUTH ELEVATION

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



1 EAST ELEVATION

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

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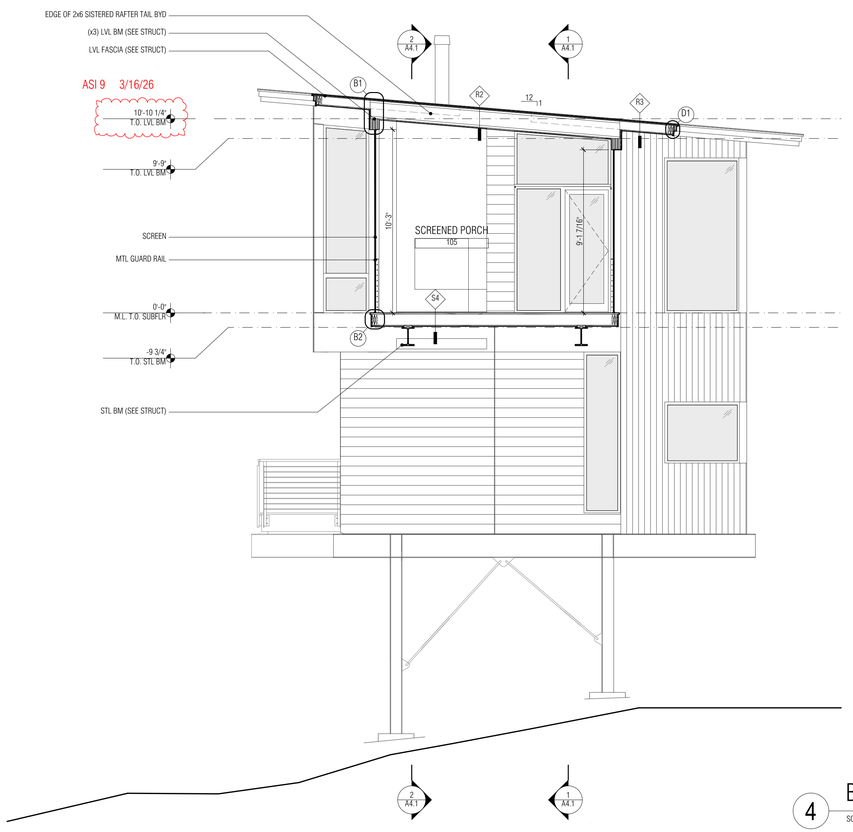
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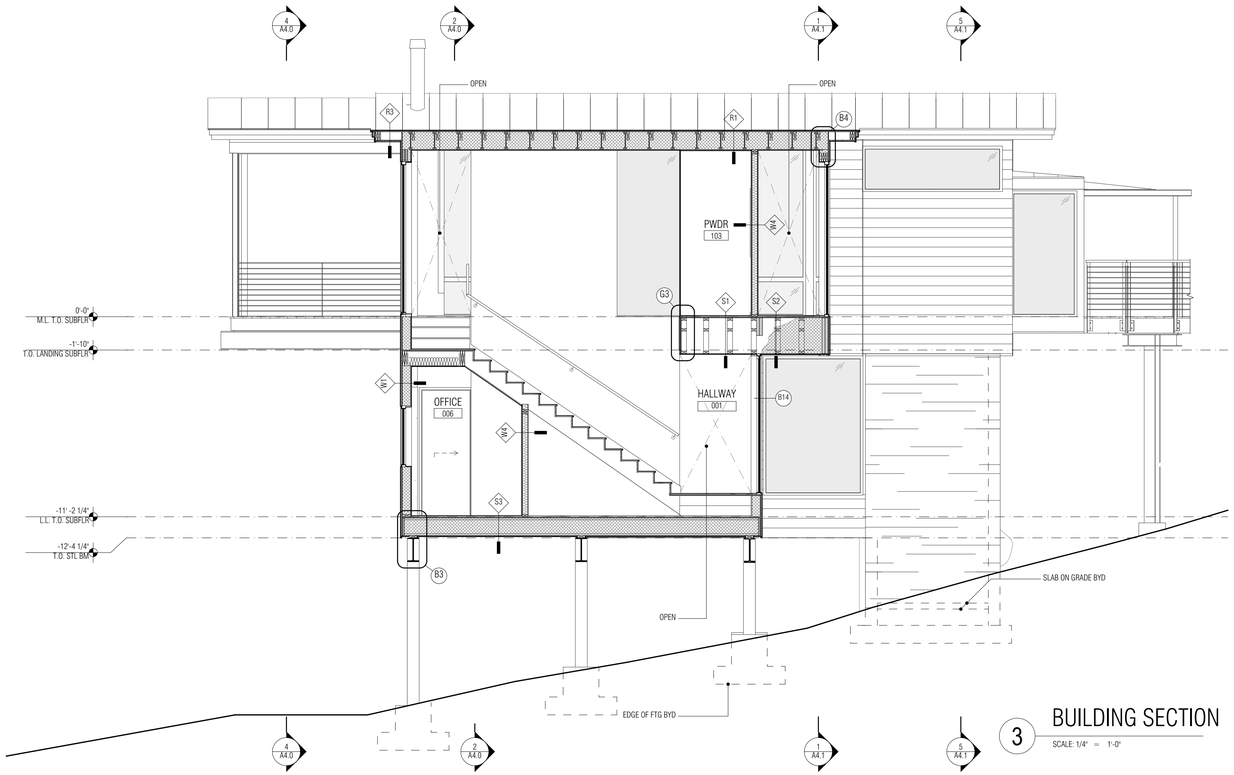
EXTERIOR ELEVATIONS

A3.0

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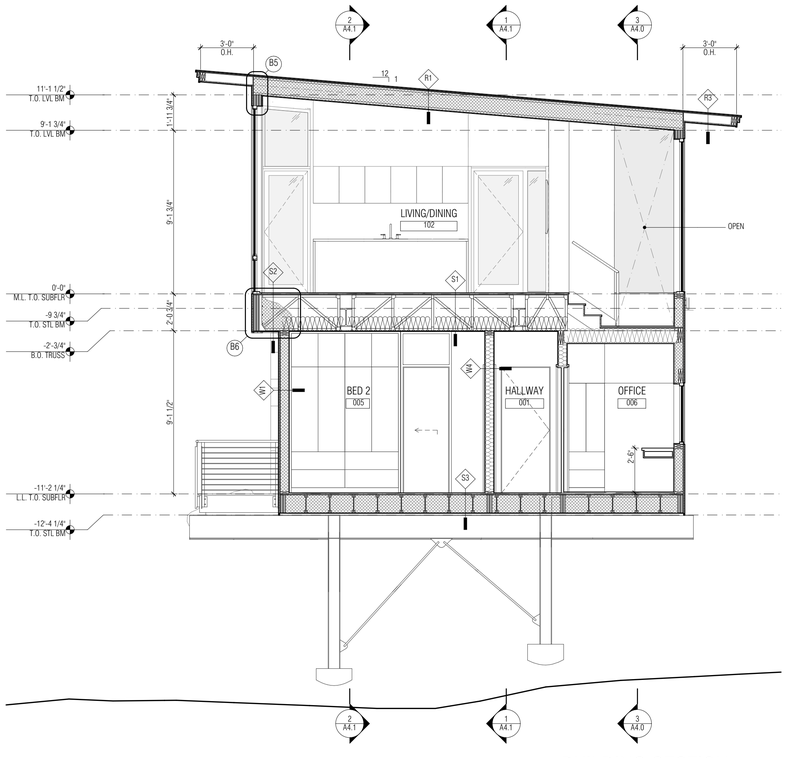
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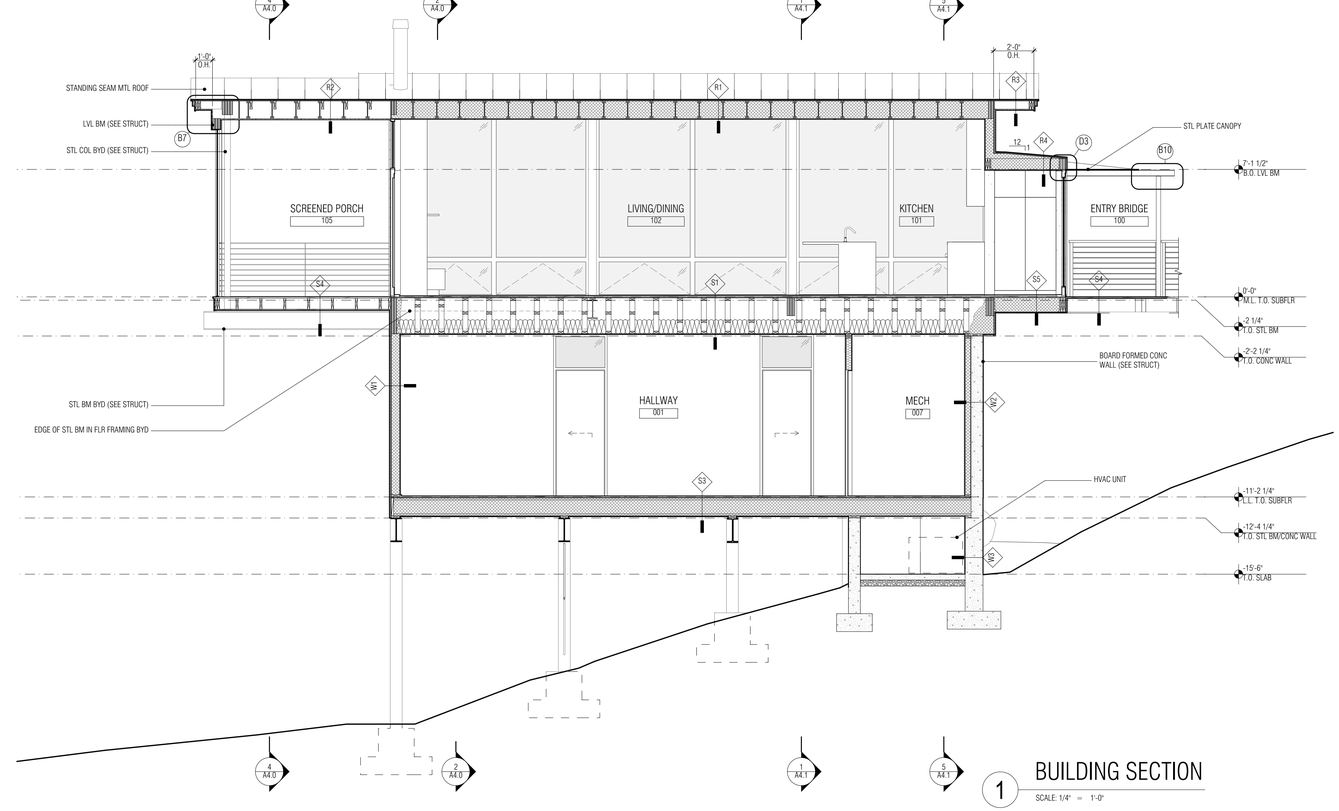




3 BUILDING SECTION
SCALE: 1/4" = 1'-0"

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





2 BUILDING SECTION
SCALE: 1/4" = 1'-0"

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

PRINT DATE: 3/16/26

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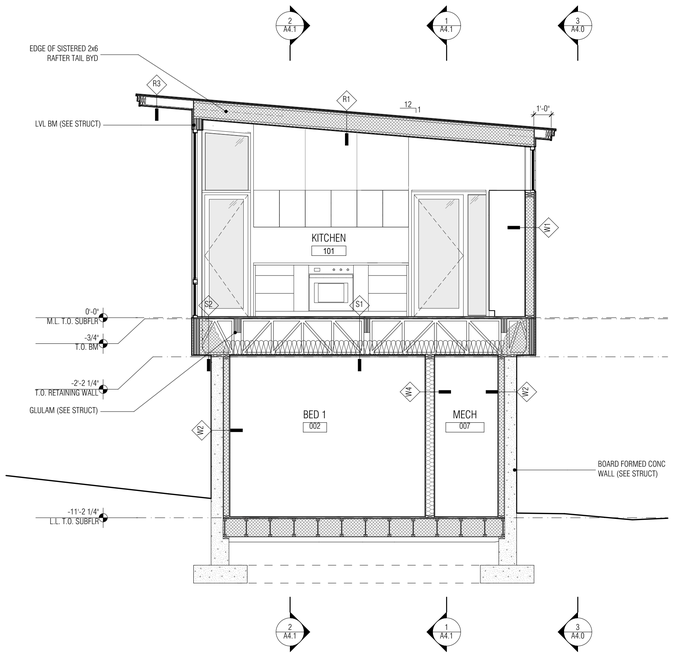
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7/31/25

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BUILDING SECTIONS

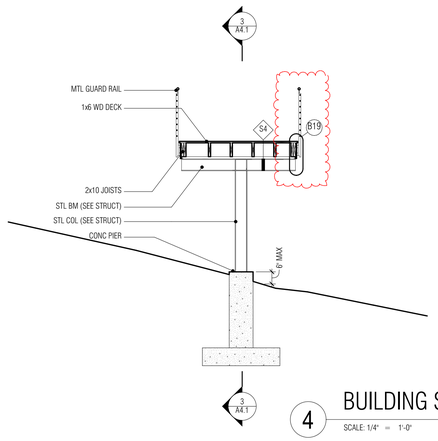
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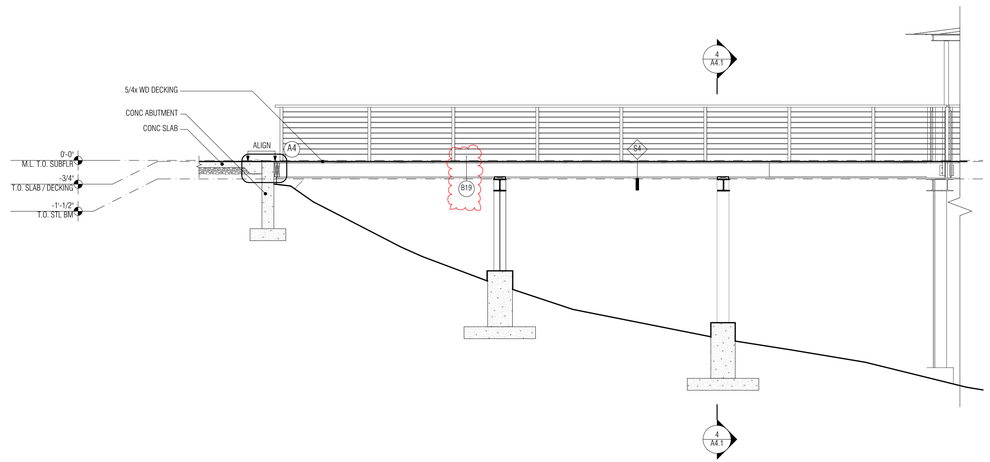
5 BUILDING SECTION

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



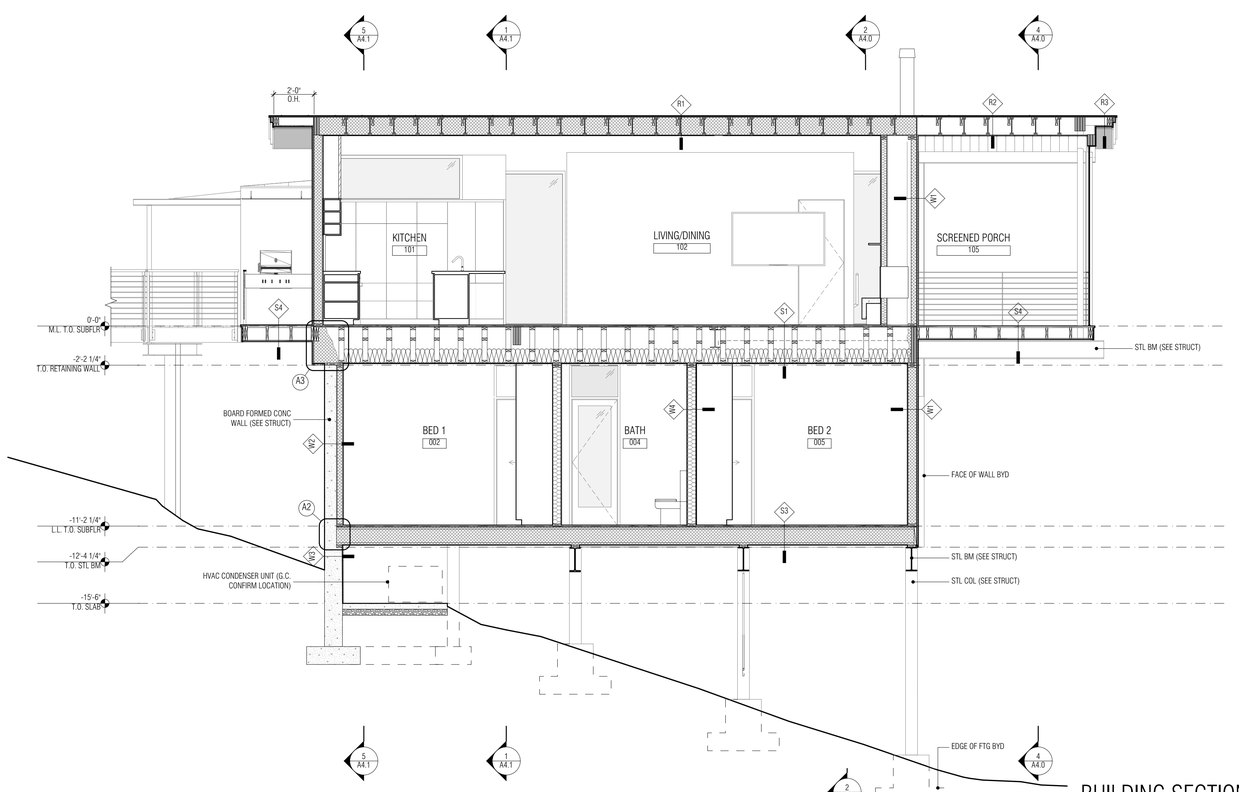
4 BUILDING SECTION

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



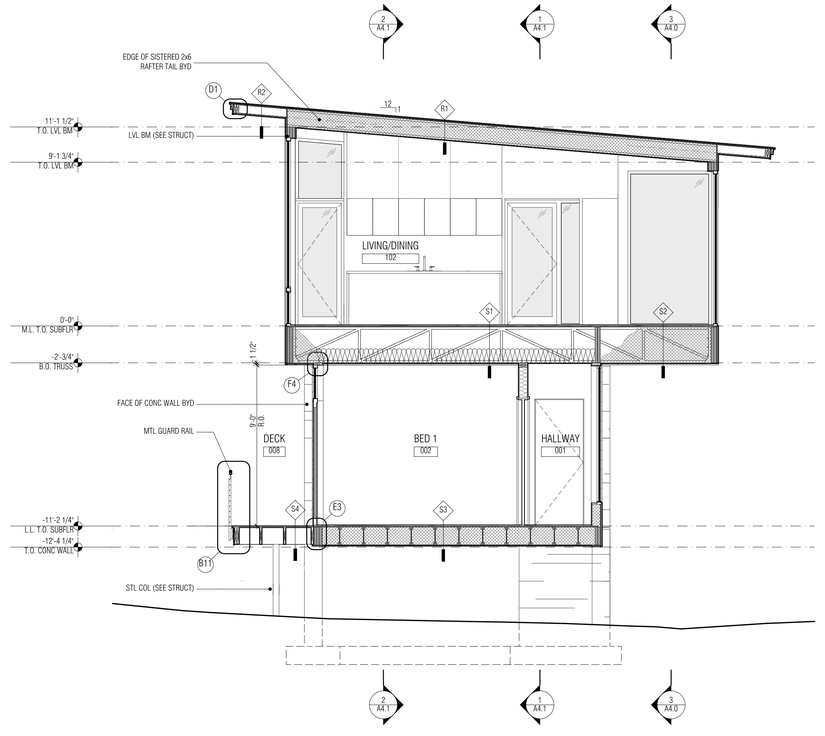
3 BUILDING SECTION

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



2 BUILDING SECTION

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



1 BUILDING SECTION

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

PRINT DATE: 4/3/26

HARDING HUEBNER

573 fairview road / suite 1
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www.hardinghuebner.com

Project Name & Address:

SAYRE CABIN
301 CHAPEL RD
BLACK MOUNTAIN, NC 28711

Project Number:

24.07

Issued For:

CONSTRUCTION

Issue Date:

31 JULY 2025

Revision #:

ASI 10 4/3/26

SCOTT M. HUEBNER REGISTERED ARCHITECT 10961 NORTH CAROLINA ASHEVILLE, N.C.

7/31/25

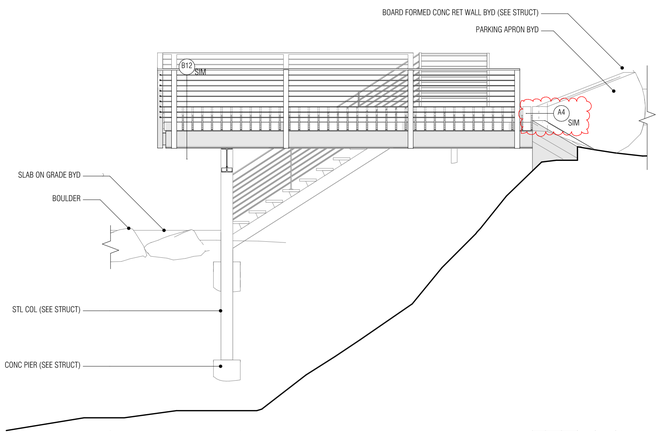
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7/31/25

BUILDING SECTIONS

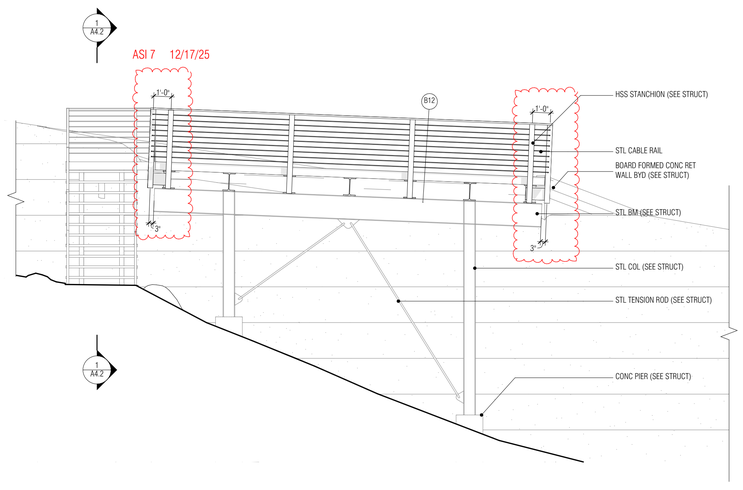
A4.1

HARDING HUEBNER COPYRIGHT 2026



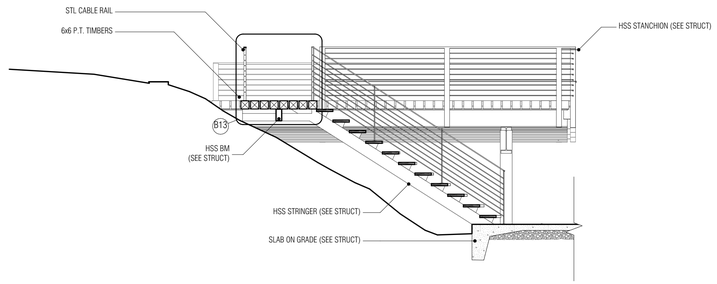
3 NORTH ELEVATION

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



2 EAST ELEVATION

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



1 PARKING PAD SECTION

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

PRINT DATE: 12/17/25

HARDING
HUEBNER

573 fairview road / suite 1
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31 JULY 2025

Revision #:

ASI 7 12/17/25

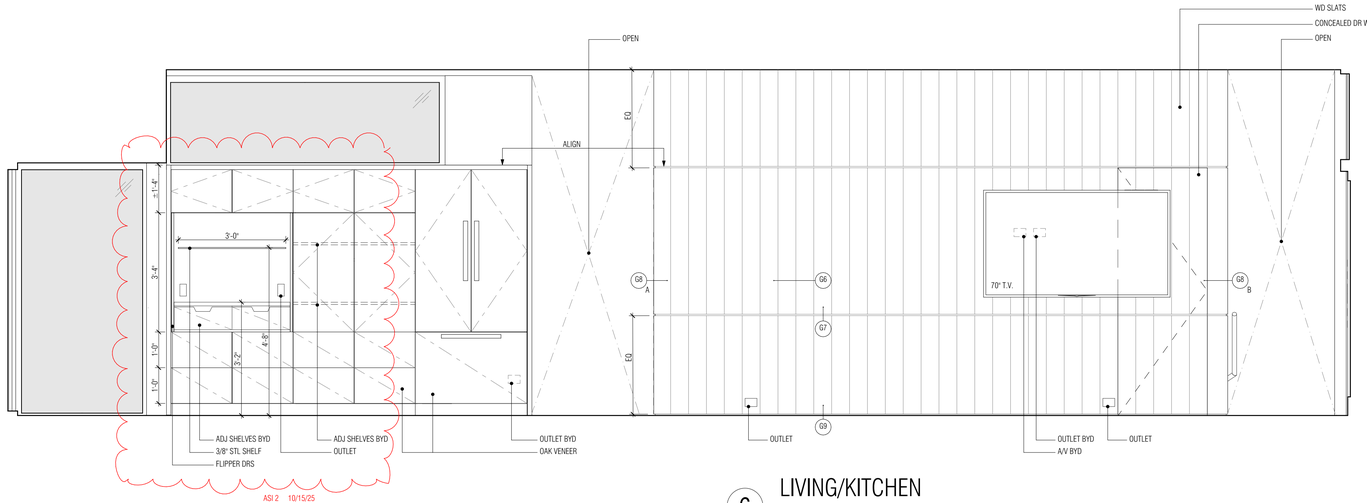
SCOTT M. HUEBNER
REGISTERED ARCHITECT
10961
NORTH CAROLINA
ASHEVILLE, N.C.
7/31/25

HARDING HUEBNER PLLC
REGISTERED ARCHITECTURAL CORPORATION
53938
NORTH CAROLINA
ASHEVILLE, N.C.
7/31/25

BUILDING SECTIONS / ELEVATIONS

A4.2

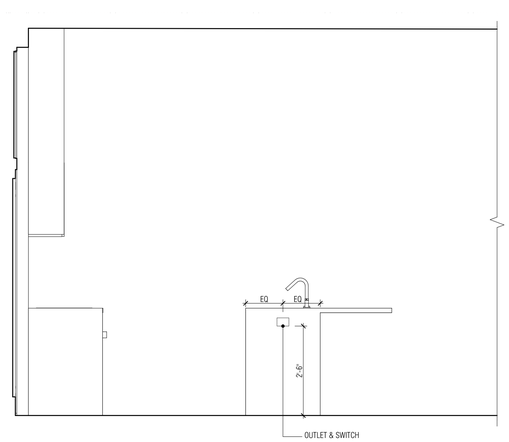
HARDING HUEBNER COPYRIGHT 2025

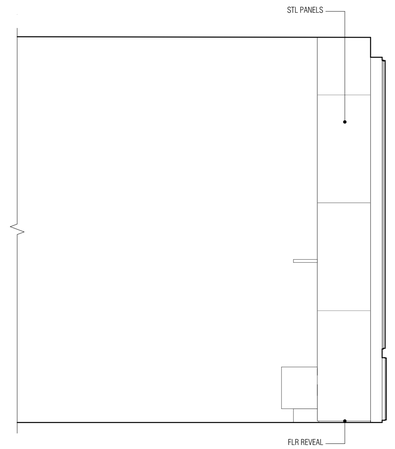


ASI 2 10/15/25

6 LIVING/KITCHEN

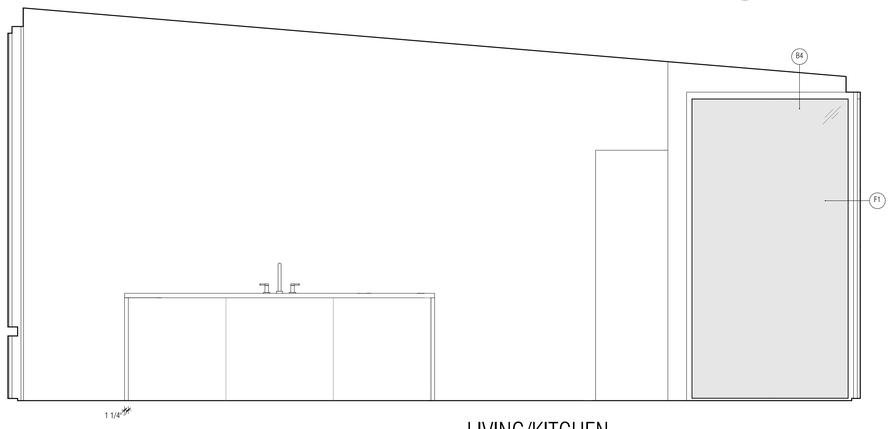
SCALE: 1/2" = 1'-0"





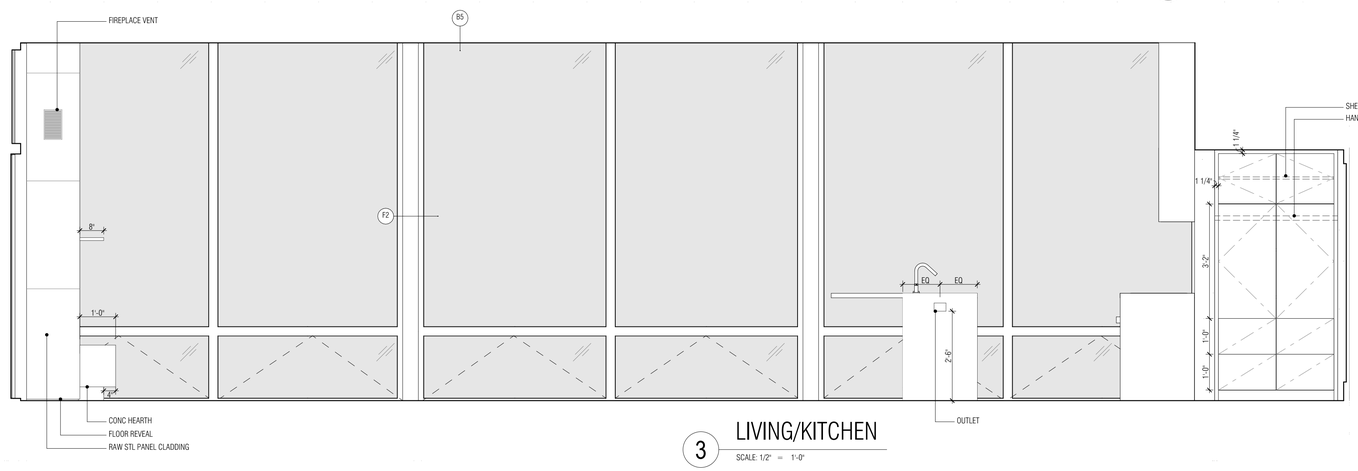
5 LIVING/KITCHEN

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



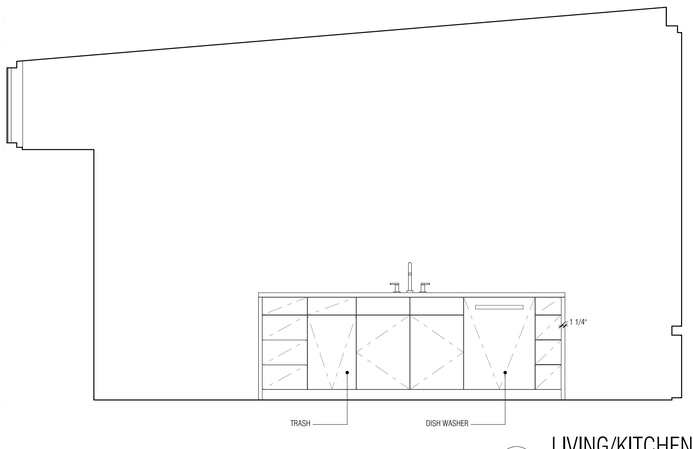
4 LIVING/KITCHEN

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



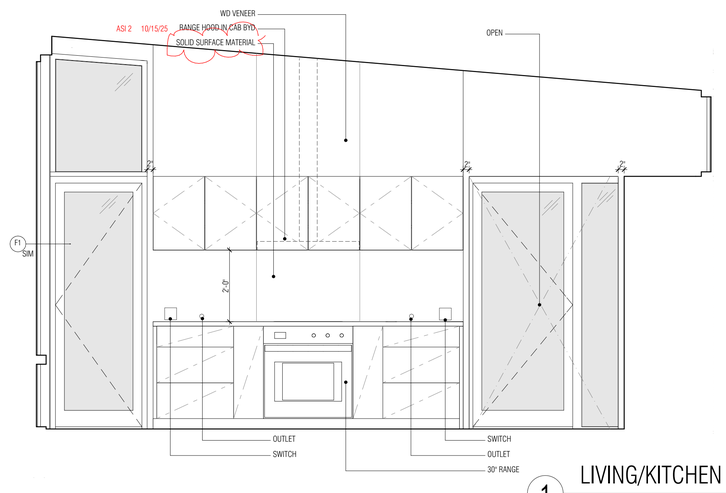
3 LIVING/KITCHEN

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



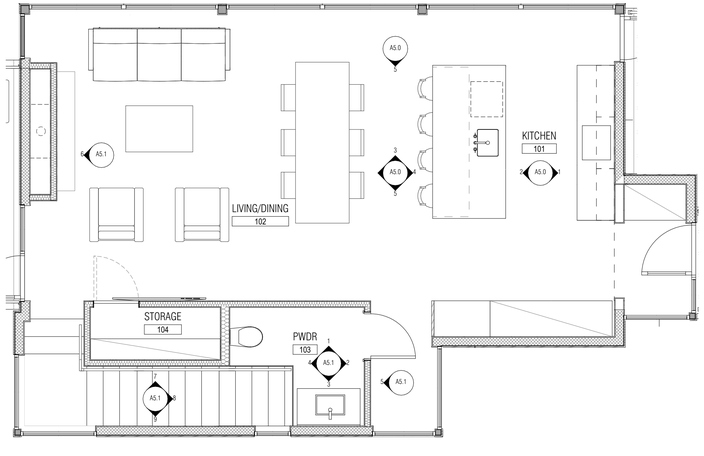
2 LIVING/KITCHEN

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



1 LIVING/KITCHEN

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



KEY PLAN

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

PRINT DATE: 10/15/25

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BLACK MOUNTAIN, NC 28711

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ASI 2 10/15/25

SCOTT M. HUEBNER REGISTERED ARCHITECT 10961 NORTH CAROLINA ASHEVILLE, N.C.

7/31/25

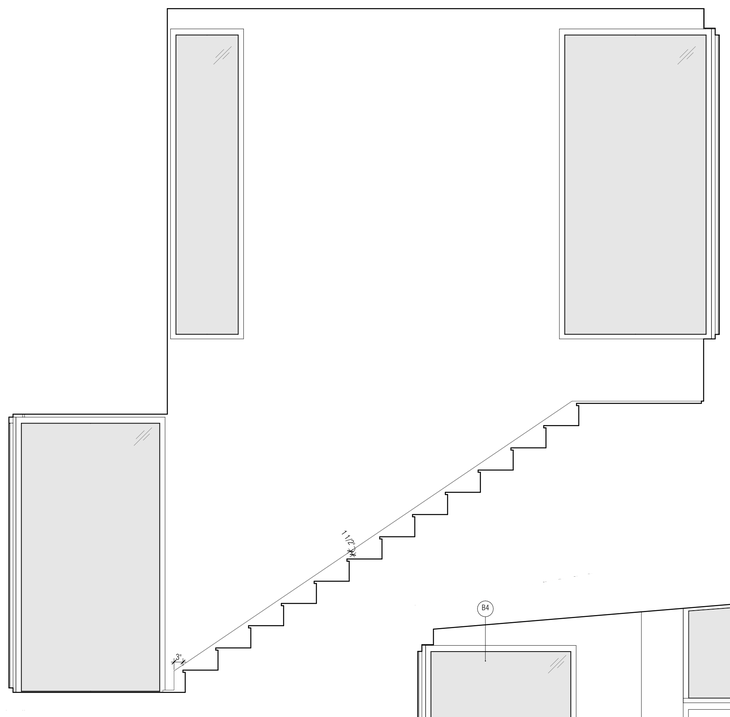
HARDING HUEBNER PLLC REGISTERED ARCHITECTURAL CORPORATION 53938 NORTH CAROLINA ASHEVILLE, N.C.

7/31/25

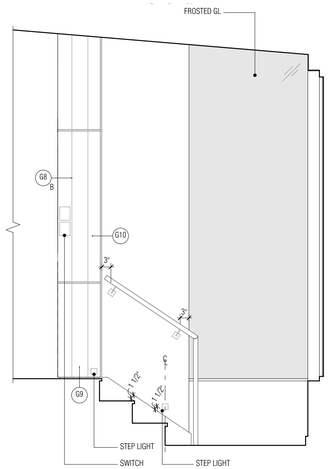
INTERIOR ELEVATIONS

A5.0

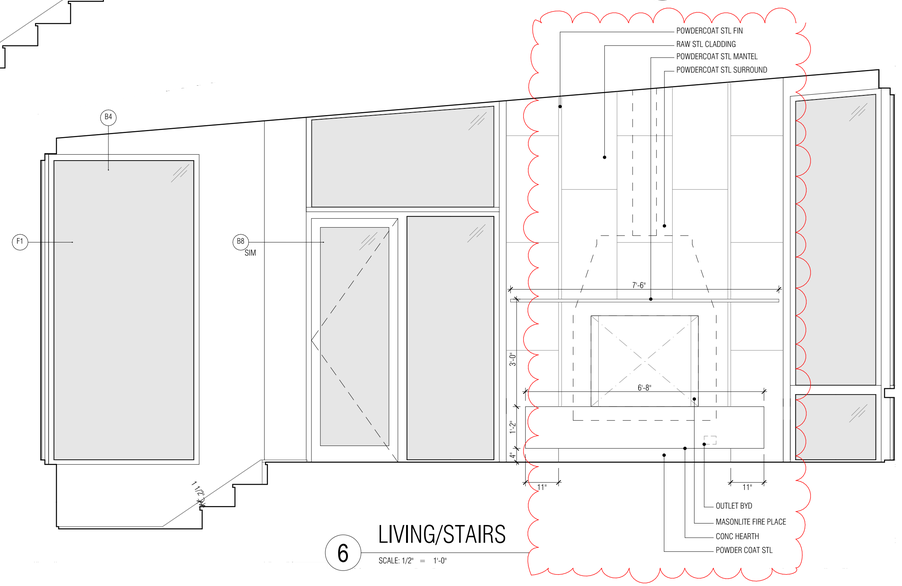
HARDING HUEBNER COPYRIGHT 2025



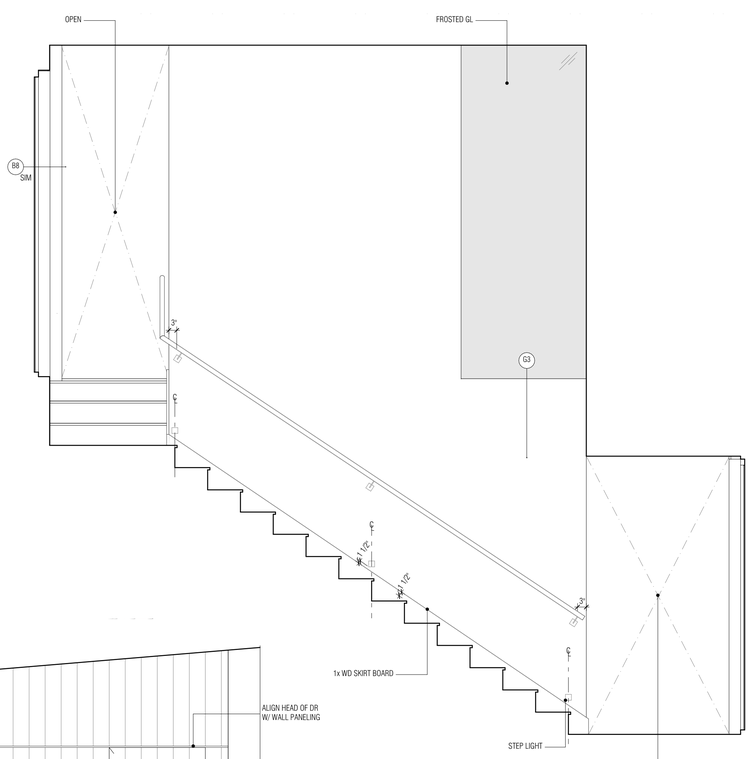
9 STAIRS
SCALE: 1/2" = 1'-0"



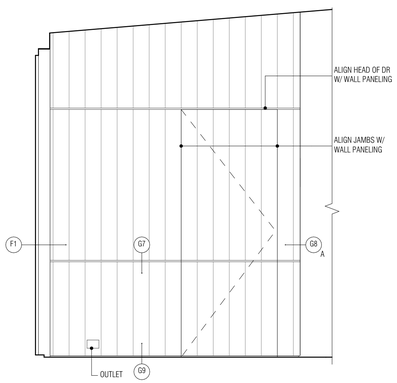
8 STAIRS
SCALE: 1/2" = 1'-0"



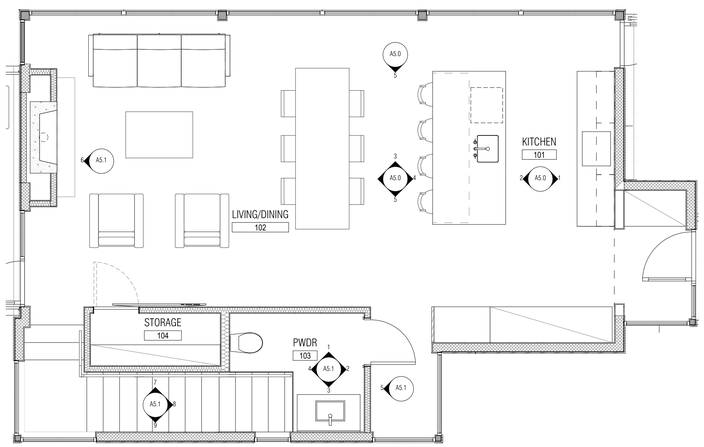
6 LIVING/STAIRS
SCALE: 1/2" = 1'-0"



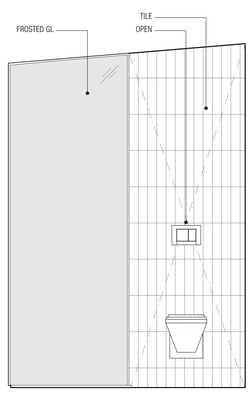
7 STAIRS
SCALE: 1/2" = 1'-0"



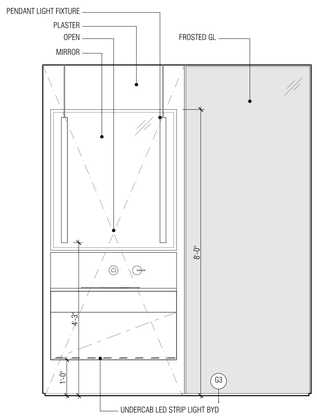
5 LIVING / DINING ROOM
SCALE: 1/2" = 1'-0"



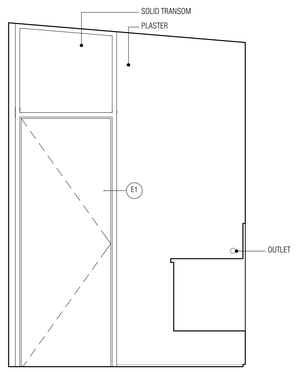
KEY PLAN
SCALE: 1/4" = 1'-0"



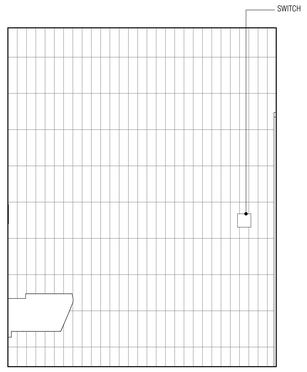
4 POWDER ROOM
SCALE: 1/2" = 1'-0"



3 POWDER ROOM
SCALE: 1/2" = 1'-0"



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



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

PRINT DATE: 3/16/26

HARDING HUEBNER

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ASI 9 3/16/26

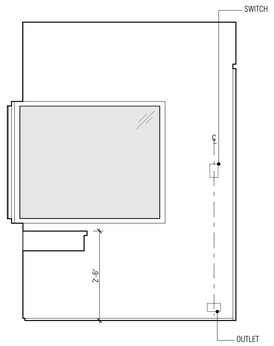
SCOTT M. HUEBNER
REGISTERED ARCHITECT
10961
NORTH CAROLINA
ASHEVILLE, N.C.
7/31/25

HARDING HUEBNER PLLC
REGISTERED ARCHITECT (A&L) CORPORATION
53938
NORTH CAROLINA
ASHEVILLE, N.C.
7/31/25

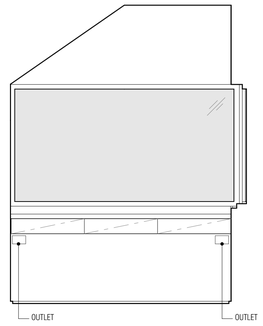
INTERIOR ELEVATIONS

A5.1

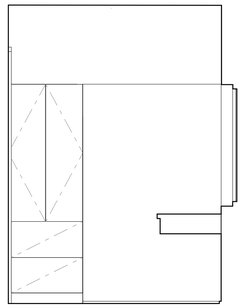
HARDING HUEBNER COPYRIGHT 2026



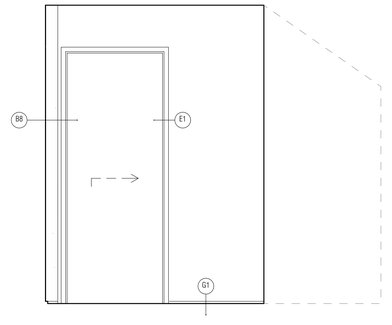
10 OFFICE
SCALE: 1/2" = 1'-0"



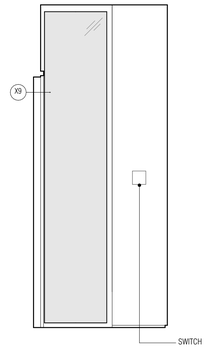
9 OFFICE
SCALE: 1/2" = 1'-0"



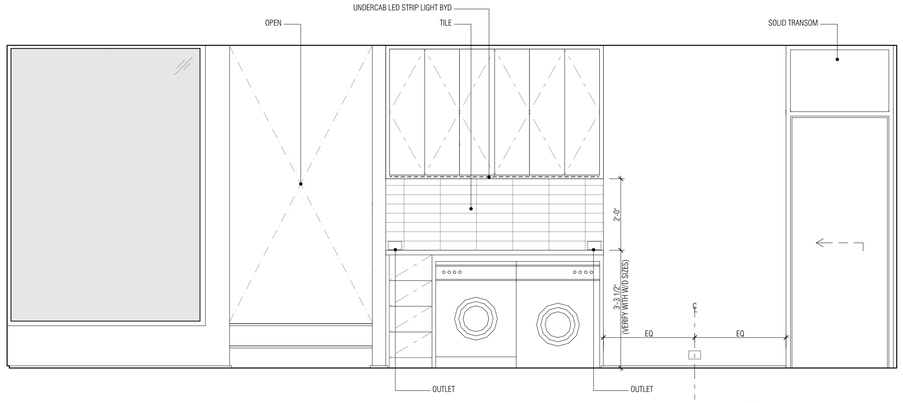
8 OFFICE
SCALE: 1/2" = 1'-0"



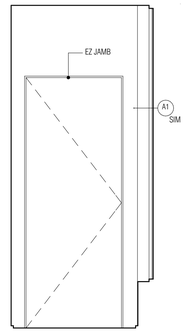
7 OFFICE
SCALE: 1/2" = 1'-0"



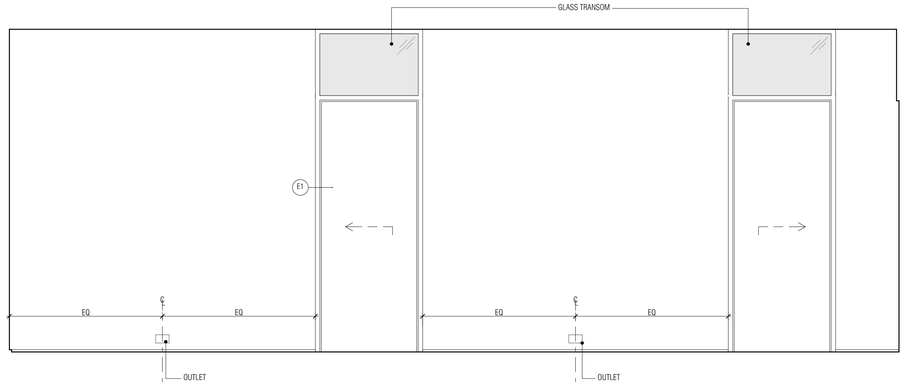
6 HALLWAY
SCALE: 1/2" = 1'-0"



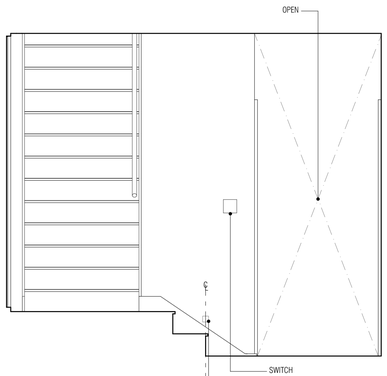
5 HALLWAY
SCALE: 1/2" = 1'-0"



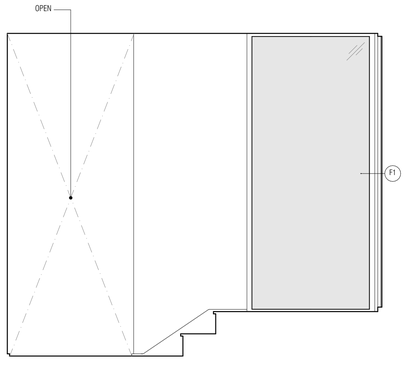
4 HALLWAY
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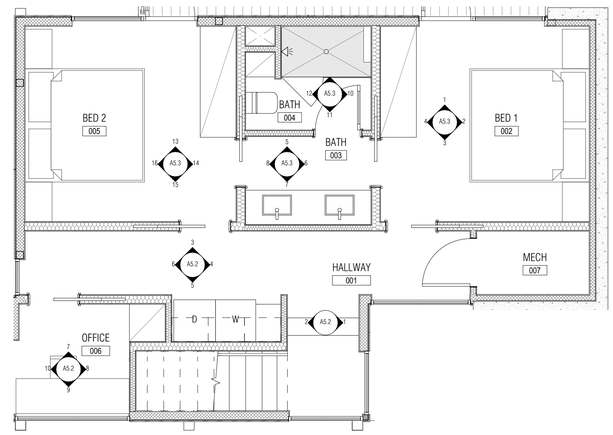
3 HALLWAY
SCALE: 1/2" = 1'-0"



2 L.L. ENTRY
SCALE: 1/2" = 1'-0"



1 L.L. ENTRY
SCALE: 1/2" = 1'-0"



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

PRINT DATE: 8/1/25

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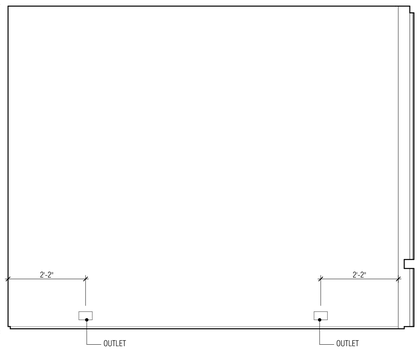
SCOTT M. HUEBNER REGISTERED ARCHITECT 10961 NORTH CAROLINA ASHEVILLE, N.C.
7/31/25

HARDING HUEBNER PLLC REGISTERED ARCHITECTURAL CORPORATION 53938 NORTH CAROLINA ASHEVILLE, N.C.
7/31/25

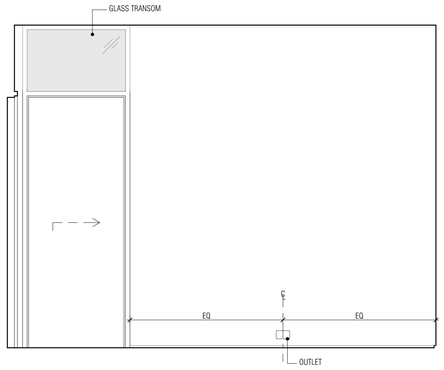
INTERIOR ELEVATIONS

A5.2

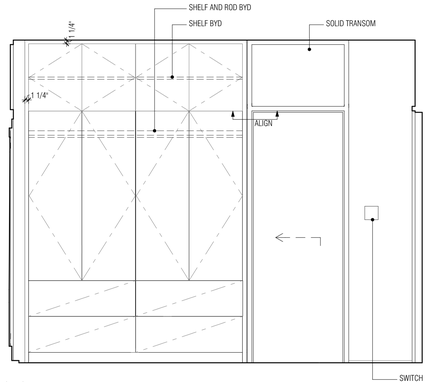
HARDING HUEBNER COPYRIGHT 2025



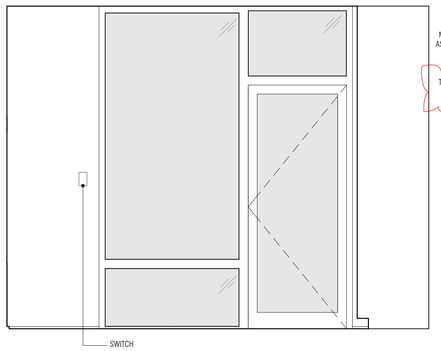
16 BED 2
SCALE: 1/2" = 1'-0"



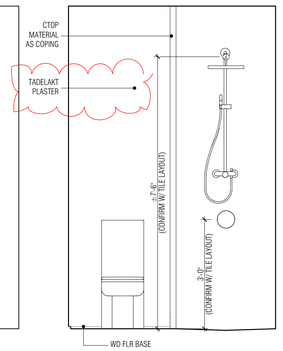
15 BED 2
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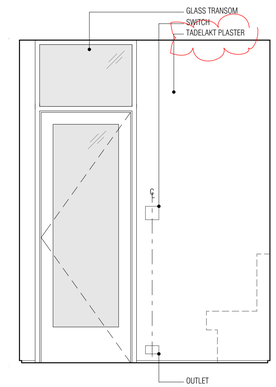
14 BED 2
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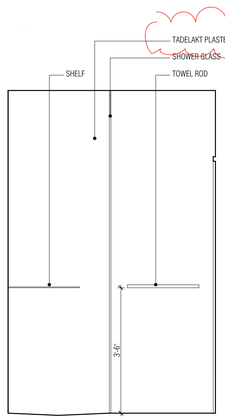
13 BED 2
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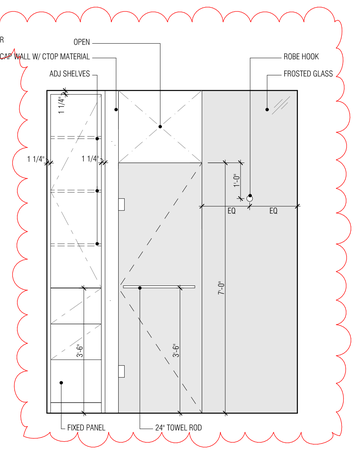


12 BATH
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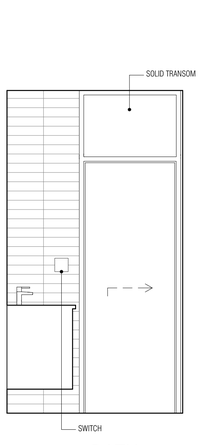
11 BATH
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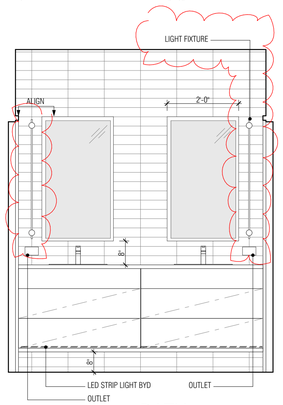


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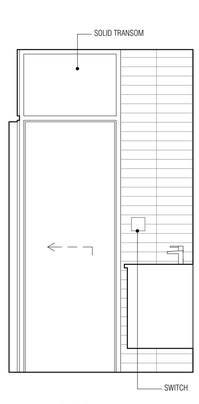
9 BATH
SCALE: 1/2" = 1'-0"



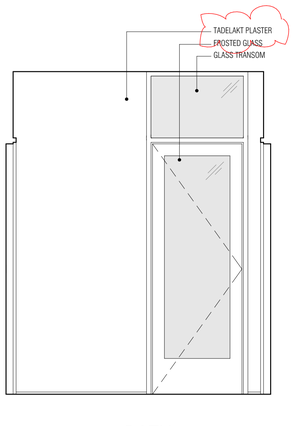
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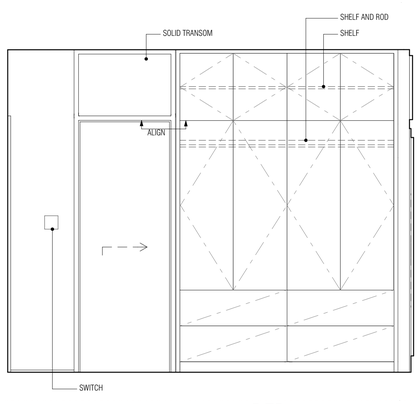
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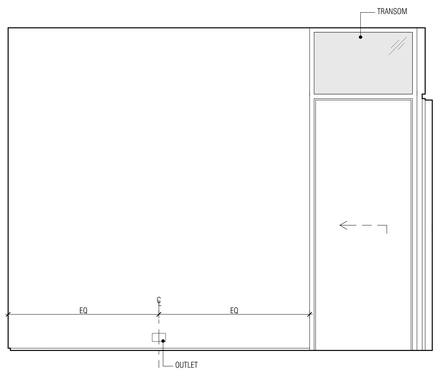
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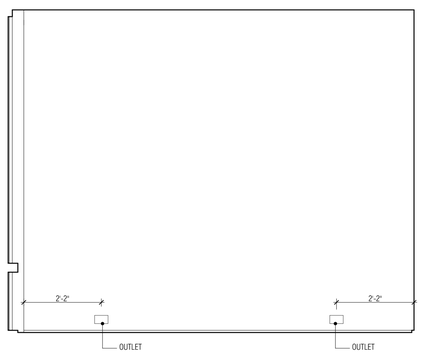
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SCALE: 1/2" = 1'-0"



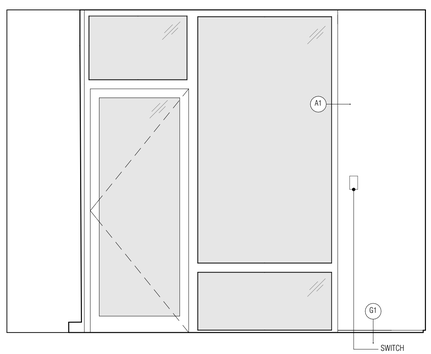
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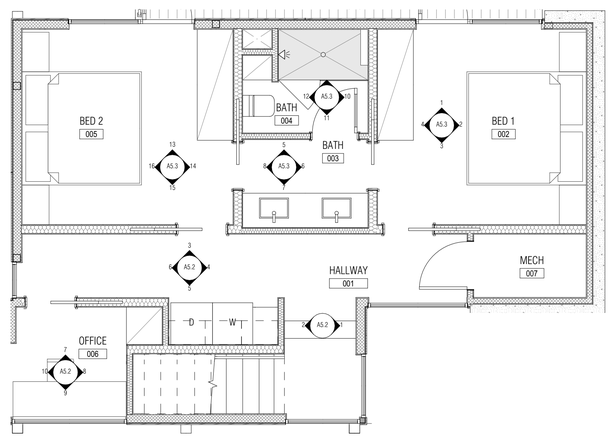
3 BED 1
SCALE: 1/2" = 1'-0"



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



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



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

PRINT DATE: 10/15/25

HARDING HUEBNER
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Project Number:
24.07

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CONSTRUCTION

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31 JULY 2025

Revision #:
ASI 2 10/15/25

SCOTT M. HUEBNER REGISTERED ARCHITECT 10961 NORTH CAROLINA ASHEVILLE, N.C.
7/31/25

HARDING HUEBNER PLLC REGISTERED ARCHITECTURAL CORPORATION 53938 NORTH CAROLINA ASHEVILLE, N.C.
7/31/25

INTERIOR ELEVATIONS

A5.3

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ELECTRICAL SYMBOLS LEGEND

- SWITCH - SINGLE POLE
- 3 SWITCH - THREE WAY
- 4 SWITCH - FOUR WAY
- D SWITCH - WITH DIMMER
- F SWITCH - FAN CONTROL
- V SWITCH - AUDIO VOLUME CONTROL
- L SWITCH - ILLUMINATED
- O SWITCH - OCCUPANCY SENSOR

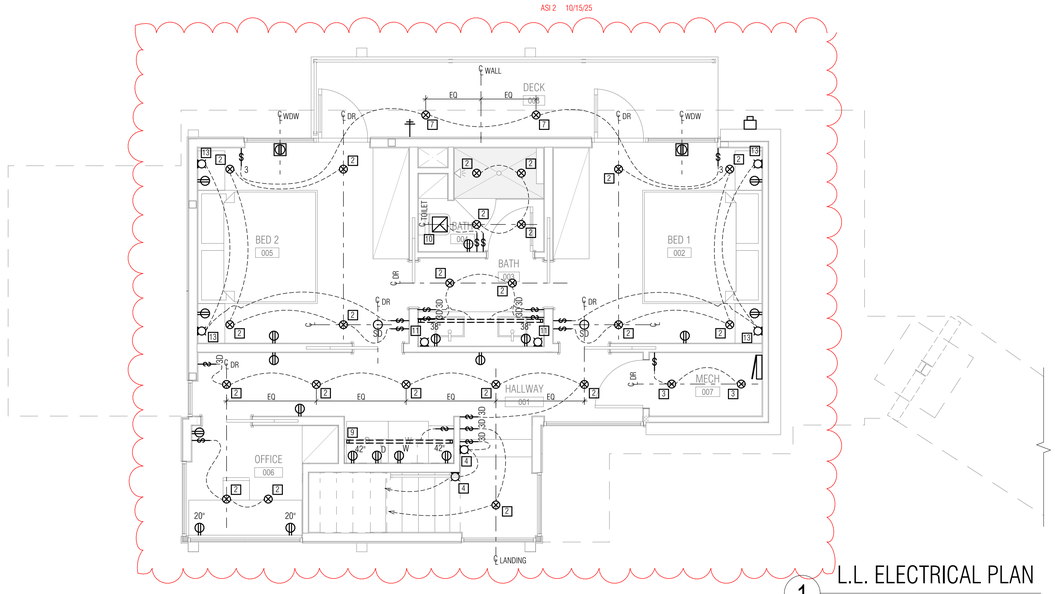
- 110V DUPLEX RECEPTACLE
- USB 110V DUPLEX RECEPTACLE - USB OUTLET
- 110V DUPLEX RECEPTACLE - SWITCHED
- 110V DUPLEX RECEPTACLE - HALF SWITCHED
- 110V DUPLEX RECEPTACLE - FLOOR OUTLET
- WP 110V DUPLEX RECEPTACLE - WATERPROOF
- 110V QUADPLEX RECEPTACLE
- 220 220V RECEPTACLE
- RECESSED CLOCK RECEPTACLE
- DATA/ COMMUNICATIONS JACK

- C.- CEILING MOUNTED LIGHT FIXTURE - FLUSH
- C.- CEILING MOUNTED LIGHT FIXTURE - PENDANT
- B.- WALL MOUNTED LIGHT FIXTURE
- B.- WALL MOUNTED LAMP
- A.- RECESSED LIGHT FIXTURE
- U.- UTILITY LIGHT FIXTURE
- L.- LINEAR LIGHT FIXTURE
- C.- LIGHT TRACK
- A.- FLOOR MOUNTED LIGHT FIXTURE - FLUSH
- A.- LANDSCAPE LIGHT

- METER
- PANELBOARD
- JUNCTION BOX - CEILING
- JUNCTION BOX - WALL
- SD COMBINATION SMOKE & CARBON MONOXIDE DETECTOR - CEILING MOUNTED
- SD COMBINATION SMOKE & CARBON MONOXIDE DETECTOR - WALL MOUNTED
- T THERMOSTAT
- DB DOORBELL PUSHBUTTON
- B DOORBELL CHIME
- SP CEILING MOUNTED SPEAKER
- SP WALL MOUNTED SPEAKER
- S SOUND SYSTEM - CENTRAL CONTROL
- AKP ALARM SYSTEM KEYPAD
- LC LIGHTING CONTROL SYSTEM KEYPAD
- M OCCUPANCY SENSOR
- SC SECURITY CAMERA
- CR CARD READER
- ST ELECTRONIC DOOR STRIKE
- W WIRELESS ACCESS

- F.- CEILING FAN
- EXHAUST FAN
- EXHAUST FAN/ LIGHT
- NATURAL GAS VALVE
- HOSE BIB
- YARD HYDRANT

ASI 2 10/15/25



1 L.L. ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

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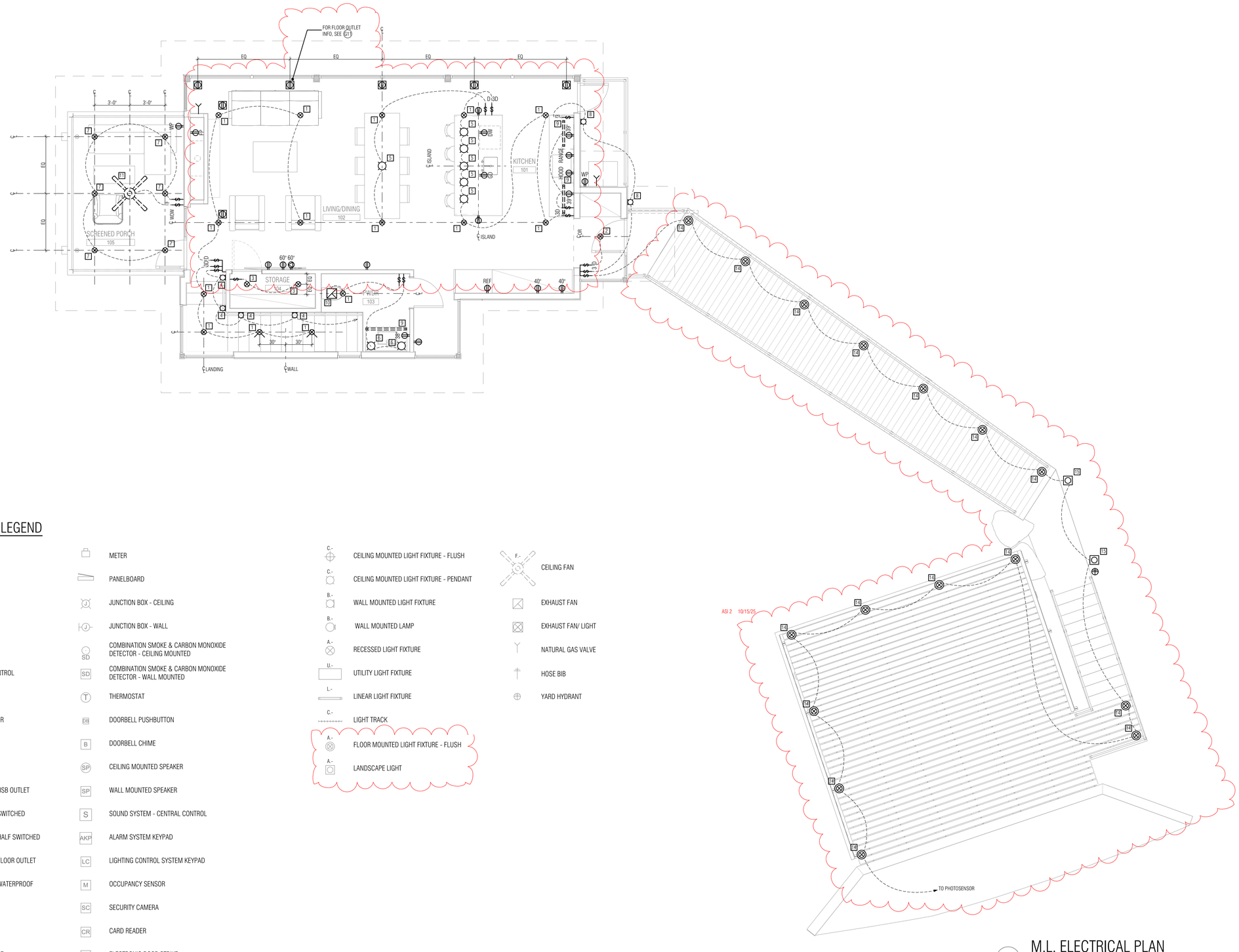
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7/31/25

LOWER LEVEL
ELECTRICAL PLAN

E1.0

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1 M.L. ELECTRICAL PLAN

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

ASI 2 10/15/25

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MAIN LEVEL ELECTRICAL PLAN

E1.1

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STRUCTURAL NOTES

GE - GENERAL

1. THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION (2015 INTERNATIONAL RESIDENTIAL CODE WITH CURRENT NORTH CAROLINA AMENDMENTS).

2. THE DESIGN LOADS ARE AS FOLLOWS:

   LIVE LOAD
   - ROOF _____ 20 PSF
   - FLOOR (TYPICAL, U.O.N.)_____ 40 PSF
   - PARKING_____ 125 PSF

   SNOW LOAD
   - GROUND SNOW LOAD P_G_____ 15 PSF
   - FLAT ROOF SNOW LOAD P_f_____ 15 PSF
   - SNOW EXPOSURE FACTOR C_E_____ 1.0
   - SNOW LOAD IMPORTANCE FACTOR I_S_____ 1.0
   - THERMAL FACTOR C_T_____ 1.1

   WIND LOAD
   - BASIC WIND SPEED V_{ULT} (ASCE 7-10)_____ 115 MPH
     V_{ASD} (ASCE 7-10)_____ 90 MPH
   - RISK CATEGORY_____ II
   - WIND EXPOSURE_____ C
   - INTERNAL PRESSURE COEFFICIENT GC_{Pi}_____ ± 0.18
   - COMPONENTS AND CLADDING_____ PER ASCE 7-10
   - DESIGN CODE REFERENCE PUBLICATION _____ ASCE 7-10

   PRE-ENGINEERED SYSTEMS AND COMPONENTS SHALL BE DESIGNED BASED ON THE MINIMUM LOAD REQUIREMENTS PER ASCE-7 AND THE ABOVE BASIC LOAD PARAMETERS.

3. THE STRUCTURE HAS BEEN DESIGNED TO WITHSTAND IN-SERVICE LOADS ONLY. METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AND DRAWINGS OF OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THE WORK OF ALL TRADES IS COORDINATED WITH THE STRUCTURAL WORK.

5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE TOTAL CONTRACT DOCUMENTS. DO NOT SCALE THE DRAWINGS. FOLLOW WRITTEN DIMENSIONS ONLY.

6. ANYTHING WHICH, IN THE OPINION OF THE CONTRACTOR, APPEARS TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES IN THE PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER. CORRECTIONS OR WRITTEN INTERPRETATIONS SHALL BE ISSUED BEFORE CONSTRUCTION OF THE AFFECTED WORK MAY PROCEED.

7. DETAILS ARE MARKED AT THE SPECIFIC LOCATION WHERE THEY APPLY, BUT ALSO INDICATE GENERAL CONSTRUCTION REQUIREMENTS FOR OTHER LOCATION WITH SIMILAR CONDITIONS. DETAILS NOTED AS "TYPICAL" MAY NOT BE REFERENCED ON THE DRAWINGS. TYPICAL DETAILS APPLY AT ALL LOCATIONS WHERE THE TYPE OF CONSTRUCTION SHOWN IN THE TYPICAL DETAIL OCCURS.

8. WHERE CONFLICTS OCCUR BETWEEN NOTES, DRAWINGS, OR SPECIFICATIONS, THE CONTRACTOR SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL THE STRUCTURAL ENGINEER ISSUES A CLARIFICATION.

9. UNIFORM LIVE LOADS HAVE BEEN REDUCED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 1607.9 OF THE NC STATE BUILDING CODE.

10. HORIZONTAL AND VERTICAL CLEARANCES FROM THE EXISTING ADJACENT STRUCTURE SHALL BE VERIFIED BEFORE CONSTRUCTION IS BEGUN. VARIATIONS FROM THE DIMENSIONS INDICATED ON THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER.

FO - FOUNDATION

1. FOUNDATION DESIGN IS BASED ON A PRESUMPTIVE ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.

2. ALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED SOIL OR A CONTROLLED FILL HAVING A BEARING CAPACITY OF 2000 PSF, AT THE ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS.

3. THE CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO FIELD VERIFY ALLOWABLE SOIL BEARING PRESSURE BEFORE FOOTINGS ARE CAST.

CO - CONCRETE

1. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE NATURAL SAND FINE AGGREGATE AND NORMAL WEIGHT COARSE AGGREGATES CONFORMING TO ASTM C33, TYPE I PORTLAND CEMENT CONFORMING TO ASTM C150, AND SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH (F'C) AT 28 DAYS:
   - FOOTINGS_____3000 PSI w/ NO ENTRAINED AIR (FLY ASH OPTIONAL)
   - COLUMNS/PIERS_____4500 PSI w/ 5% ENTRAINED AIR (FLY ASH OPTIONAL)
   - EXTERIOR SLABS AND WALKS_____4500 PSI w/ 5% ENTRAINED AIR AND FLY ASH
   - WALLS_____4000 PSI w/ NO ENTRAINED AIR (FLY ASH OPTIONAL)
   - SITE RETAINING WALLS_____4500 PSI w/ 5% ENTRAINED AIR AND FLY ASH

2. ALL CONCRETE SHALL BE MADE IN ACCORDANCE WITH APPROVED DESIGN MIXES AS REQUIRED FOR THE JOB.

3. ALL CONCRETE SHALL CONTAIN ENTRAINED AIR IN ACCORDANCE WITH ACI 318, TABLE 4.2.1, U.O.N.

4. CONCRETE THAT ARRIVES AT THE JOBSITE WITH A SLUMP GREATER THAN 5" SHALL BE REJECTED. CONCRETE WITH A SLUMP LESS THAN 3" SHALL HAVE AN APPROVED SUPER-PLASTICIZER ADDED SUCH THAT THE MINIMUM 3" SLUMP MAY BE ACHIEVED. THE ADDITION OF WATER AT THE JOBSITE, BEYOND THAT HELD-BACK AT THE CONCRETE PLANT, FOR THE PURPOSE OF INCREASING THE SLUMP IS PROHIBITED.

5. THE UNDER-SLAB ON GRADE VAPOR RETARDER SHALL BE 10 MILS THICK AND MEET THE REQUIREMENTS OF ASTM E 1745, CLASS B, PROVIDE THE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE TAPE. PRODUCT SHALL BE EQUIVALENT TO STEGO WRAP, 10 MILS, MANUFACTURED BY STEGO INDUSTRIES, LLC.

6. CONCRETE WALL FORM TIES SHALL BE FACTORY-FABRICATED, REMOVABLE OR SNAP-OFF METAL OR GLASS-FIBER-REINFORCED PLASTIC FORM TIES DESIGNED TO RESIST LATERAL PRESSURE OF FRESH CONCRETE ON FORMS AND TO PREVENT SPALLING OF CONCRETE ON REMOVAL. FURNISH UNITS THAT WILL LEAVE NO CORRODIBLE METAL CLOSER THAN 1 INCH (25 MM) TO THE PLANE OF EXPOSED CONCRETE SURFACE. FURNISH TIES THAT, WHEN REMOVED, WILL LEAVE HOLES NO LARGER THAN 1 INCH (25 MM) IN DIAMETER IN CONCRETE SURFACE.

7. AT THE INTERFACE OF THE CONCRETE SLAB ON GRADE AND VERTICAL STRUCTURAL MEMBERS (E.G. WALLS, COLUMNS), APPLY A BOND-BREAKER TO THE VERTICAL MEMBER FOR THE FULL DEPTH OF THE SLAB. SATISFACTORY PRODUCTS INCLUDE CURING COMPOUND, FORM RELEASE, AND OTHER SIMILAR PRODUCTS. DO NOT USE ASPHALT IMPREGNATED FIBERBOARD OR FELT.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ANCHOR BOLTS, CLIPS, INSERTS, CONNECTION PLATES, SLEEVES, SLOTS, AND OTHER REQUIRED ITEMS IN ACCORDANCE WITH THE CONTRACT DRAWINGS, AND IN COOPERATION WITH OTHER TRADES PRIOR TO PLACING THE CONCRETE.

SCHEDULE OF CONCRETE FINISHES:
- INTERIOR SLAB ON GRADE_____TROWEL FINISH.
- ELEVATED SLABS_____TROWEL FINISH.
- SLABS TO RECEIVE SETTING BEDS_____SCRATCH FINISH.
- EXTERIOR STEPS AND SIDEWALKS_____NON-SLIP BROOM FINISH
- ALL UNEXPOSED CONCRETE SURFACES, U.O.N._____ROUGH FORM FINISH.
- ALL EXPOSED CONCRETE SURFACES, U.O.N._____SMOOTH RUBBED FINISH.
- TOPS OF EXPOSED WALL SURFACES _____TROWEL FINISH.

CURING METHOD AND TIME: WET CURE INTERIOR SLABS FOR 7 DAYS USING 'ULTRACURE NCF' CURING BLANKET MANUFACTURED BY MCTECH GROUP, OR APPROVED EQUIVALENT.

CR - CONCRETE REINFORCEMENT

1. CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCEMENT DESIGNATED AS CONTINUOUS SHALL LAP 36 BAR DIAMETERS AT SPLICES, UNLESS NOTED OTHERWISE. SEE MASONRY SECTION BELOW FOR LAP REQUIREMENTS IN CMU WALLS.

2. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. REINFORCEMENT SHALL BE FURNISHED IN FLAT SHEETS. LAP ONE FULL MESH.

3. ALL CONCRETE REINFORCEMENT BARS AND WWR SHALL BE ACCURATELY AND SECURELY TIED AND ANCHORED IN PLACE TO PREVENT DISLOCATION DURING THE CONCRETE PLACEMENT OPERATION.

4. PROVIDE CORNER REINFORCEMENT, 36 BAR DIAMETERS x 36 BAR DIAMETERS, AT EACH CONTINUOUS FOOTING CHANGE IN DIRECTION.

5. CONCRETE SLAB ON GRADE SHALL BE THE THICKNESS INDICATED ON PLAN OR DETAILS AND REINFORCED WITH A MINIMUM OF 6X6 W2.1XW2.1 W.W.R.

6. PROVIDE (1) #4 REINFORCEMENT BAR x 4'-0" AT RE-ENTRANT CORNERS AND AROUND THE PERIMETER OF RECTANGULAR HOLES IN THE SLAB, UNLESS OTHERWISE NOTED. PLACE BAR DIAGONAL TO THE CORNER WITH 1" CLEARANCE FROM THE TOP AND THE SIDE OF THE SLAB AT THE CORNER.

7. MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE COMMITTEE 318, SECTION 7.7, UNLESS NOTED OTHERWISE.

SS - STRUCTURAL STEEL

1. STRUCTURAL STEEL WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A992, F_Y = 50 KSI, U.O.N.

2. STRUCTURAL STEEL ANGLES, CHANNELS, AND PLATES SHALL CONFORM TO ASTM A36, F_Y =36 KSI, U.O.N.

3. SQUARE AND RECTANGULAR HSS STRUCTURAL STEEL SHALL CONFORM TO ASTM A500, GRADE B, F_Y = 46 KSI.

4. ROUND HSS STRUCTURAL STEEL SHALL CONFORM TO ASTM A500, GRADE B, F_Y = 42 KSI.

5. STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B, F_Y=35 KSI.

6. BOLTS FOR CONNECTING STRUCTURAL STEEL SHALL BE ¾" DIAMETER, CONFORMING TO ASTM A325-N, TYPE 1, U.O.N.

7. ANCHOR BOLTS SHALL BE HEADED AND CONFORM TO ASTM F1554, GRADE 55.

8. HEADED STUDS FOR THE COMPOSITE STEEL BEAMS SHALL BE MANUFACTURED OF COLD DRAWN CARBON STEEL CONFORMING TO ASTM A-108. STUDS SHALL BE ¾" DIAMETER x 3 ½" LONG. STUDS SHALL BE ATTACHED TO THE BEAMS USING AUTOMATIC END WELDING EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THERE SHALL BE NO PAINT ON THE STEEL SURFACE TO WHICH THE STUDS ARE TO BE WELDED.

9. ALL EXTERIOR EXPOSED FERROUS METAL STRUCTURES SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION, UNLESS OTHERWISE NOTED. THIS INCLUDES, BUT IS NOT LIMITED TO LINTELS IN EXTERIOR WALLS, EXTERIOR STAIRS, EXTERIOR HANDRAILS, AND EXTERIOR LADDERS.

10. FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT AISC SPECIFICATIONS.

11. ANY CONNECTION NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR. THE CONNECTIONS FOR HOLLOW STRUCTURAL SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE AISC HOLLOW STRUCTURAL SECTIONS CONNECTION MANUAL, CURRENT EDITION. ALL STEEL-TO-STEEL JOINT CONNECTIONS TYPES SHALL BE 'SNUG-TIGHT", U.O.N.

12. WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARD D1.1. ELECTRODES FOR SHOP AND FIELD WELDS SHALL CONFORM TO AWS A5.1 OR AWS 5.5, CLASS E70XX, LOW HYDROGEN, UNLESS NOTED OTHERWISE. ONLY WELDERS WHO HAVE BEEN QUALIFIED BY TESTS AS PRESCRIBED IN THE REFERENCED STANDARDS TO PERFORM THE TYPE OF WORK REQUIRED SHALL MAKE WELDS.

13. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO THE LOCATION, TYPE OF SPLICE, AND CONNECTION TO BE MADE.

14. ENCASE ALL STRUCTURAL STEEL BELOW GRADE WITH CONCRETE WITH A MINIMUM COVERAGE OF 3".

15. ALL STRUCTURAL STEEL SHALL BE CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURE PAINTING COUNCIL (SSPC)- SP6, COMMERCIAL BLAST CLEANING. THE PRIMER SHALL BE EQUIVALENT TO 'N90E92 TNEME-ZINC' AS MANUFACTURED BY TNEMEC COMPANY, INC. DFT=2.5 MILS, ±0.5 MILS. THE FINISH COAT SHALL BE EQUIVALENT TO "SERIES 66 HI-BUILD EPOXOLINE" AS MANUFACTURED BY TNEMEC COMPANY, INC. DFT=4.0 MILS, ±1.0 MILS. FIELD TOUCH-UP OF SHOP-PRIMED MEMBERS WILL BE REQUIRED AFTER ERECTION. SURFACE PREPARATION OF FIELD TOUCH-UPS SHALL INCLUDE REMOVAL OF OIL, GREASE, DIRT, DUST, AND FOREIGN MATTER FROM THE SURFACE. CLEANING SHALL BE FOLLOWED WITH SSPC-SP3, POWER TOOL CLEANING. ALL STEEL SURFACES SHALL BE COATED WITH THE PRIMER PRIOR TO APPLICATION OF THE FINISH COAT.

16. ALL STRUCTURAL STEEL ("RED IRON") USED FOR THE SUPPORT OF MECHANICAL/PLUMBING EQUIPMENT, DUCTS AND PIPING SHALL BE FURNISHED BY THE MECHANICAL/PLUMBING CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE RELEVANT INFORMATION OF CONSTRUCTION DOCUMENTS TO MECHANICAL/PLUMBING CONTRACTOR.

SL - STRUCTURAL LUMBER

1. ALL STRUCTURAL LUMBER SHALL CONFORM TO THE MOST CURRENT APPLICABLE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.

2. ALL STRUCTURAL LUMBER SHALL BE A MINIMUM OF NO. 2, SOUTHERN YELLOW PINE (SYP#2), WITH MAXIMUM MOISTURE CONTENT OF 19%, UNLESS OTHERWISE NOTED. WALL STUDS MAY BE NO. 2, SPRUCE-PINE-FIR (SPF#2), UNLESS OTHERWISE NOTED.

3. ALL LUMBER NOTED "PRESSURE TREATED" (P.T.) SHALL BE PRESSURE TREATED WITH WATER-BORNE PRESERVATIVES. PRESSURE TREATMENT SHALL COMPLY WITH REQUIREMENTS AWPA STANDARD U1.

4. METAL CONNECTORS USED TO SUPPORT PRESSURE-TREATED WOOD MEMBERS SHALL HAVE A ZINC COATING CONFORMING TO THE REQUIREMENTS OF A G185 COATING (1.85 OZ/FT^), THIS CONFORMS TO THE SIMPSON TYPE ZMAX FINISH. ALL FASTENERS USED WITH THESE CONNECTORS SHALL CONFORM TO THE EQUIVALENT G185 COATING.

5. PROVIDE NAILING PATTERN IN COMPLIANCE WITH THE NORTH CAROLINA STATE BUILDING CODE RECOMMENDED FASTENING SCHEDULE WHEN JOINING TWO OR MORE FRAMING MEMBERS. PROVIDE FLOOR AND ROOF BRIDGING IN ACCORDANCE WITH THE NCSBC.

6. STRUCTURAL FLOOR SHEATHING SHALL BE A MINIMUM OF 23/32 APA RATED T&G SHEATHING. SECURE TO SUPPORTING FRAMING WITH SCREWS & CONSTRUCTION ADHESIVE IN ACCORDANCE WITH SHEATHING MANUFACTURERS INSTRUCTIONS.

7. STRUCTURAL WALL SHEATHING SHALL BE A MINIMUM OF 15/32 APA RATED SHEATHING, EXPOSURE 1. INSTALL SHEATHING WITH 10d (0.148"x 3") NAILS AT 3"o.c. EDGES AND 6"o.c. FIELD. FURNISH 2X HORIZONTAL BLOCKING AT PANEL JOINTS.

8. STRUCTURAL ROOF SHEATHING SHALL BE A MINIMUM OF 19/32 APA RATED SHEATHING, EXPOSURE 1. INSTALL SHEATHING WITH 8d (0.113"x 2-1/2") NAILS AT 6"o.c. EDGES AND FIELD. FURNISH 2X HORIZONTAL BLOCKING AT PANEL JOINTS. ALLOW 1/8" SPACE BETWEEN PANEL ENDS & EDGES TYP.

9. THE CONTINUOUS '2x' SILL PLATE AT THE BASE OF THE WOOD STUD WALL SHALL BE ATTACHED TO THE SUPPORTING CONCRETE/STEEL USING POWDER-ACTUATED FASTENERS: RAMSET MODEL 1524SDE WITH 7/8" WASHER, 3" LENGTH, 0.145 SHANK DIAMETER, 1-1/2" PENETRATION, OR AN APPROVED EQUIVALENT.

10. TYPICAL NOTE FOR STUD PACKS IN WALLS & STRUCTURAL BLOCKING:
    STUD PACKS SHALL BE PROVIDED AT EACH LEVEL DOWN TO THE FOUNDATION WALL INCLUDING THE BAND REGION AT EACH FLOOR LEVEL. PROVIDE 2x SOLID BLOCKING IN FLOOR CAVITIES DIRECTLY UNDER POINT LOADS AND TERMINATING AT STRUCTURAL BEAMS, HEADERS OR FOUNDATION WALLS.

11. ENGINEERED STRUCTURAL WOOD PRODUCTS (i.e. PSL, LVL) SHALL HAVE THE MINIMUM STRUCTURAL PROPERTIES:

	PSL	LVL	PSL COL
• FLEXURAL STRESS (F_B):	2,900 PSI	2,600 PSI	2,400 PSI
• MODULUS OF ELASTICITY (E):	2,000 KSI	2,000 KSI	1,800 KSI
• F_C PERPENDICULAR:	750 PSI	750 PSI	425 PSI
• F_C PARALLEL	2,900 PSI	2,510 PSI	2,500 PSI
• F_V:	290 PSI	285 PSI	190 PSI.

MI - MISCELLANEOUS ITEMS

1. GROUT FOR SETTING BEARING SURFACES SHALL BE NON-SHRINK, EQUAL TO "MASTERFLOW 928" AS MANUFACTURED BY BASF.

2. WALLS RETAINING EARTH, OTHER THAN WALLS DESIGNED AS CANTILEVERS, SHALL BE ADEQUATELY BRACED UNTIL CONCRETE FOR THE SUPPORTING SLABS HAS BEEN PLACED AND SUFFICIENTLY CURED.

3. UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED, OR OTHERWISE WEAKENED WITHOUT THE PERMISSION OF THE STRUCTURAL ENGINEER.

4. CONTRACTOR SHALL VERIFY ALL OPENING SIZES AND LOCATIONS WITH THE MECHANICAL EQUIPMENT SUPPLIER'S DRAWINGS AND ARCHITECTURAL DRAWINGS.

PA - POST INSTALLED ANCHORS

1. UNLESS OTHERWISE INDICATED ON PLANS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES, OR APPROVED EQUAL:

BASE MATERIAL	ADHESIVE ANCHOR	MECHANICAL ANCHOR
SOLID CONCRETE	HILTI -RE 500 V3 HILTI HY 200 SAFE SET SYSTEM	HILTI KWIK HUS EZ SCREW ANCHOR HILTI KWIK BOLT TZ EXPANSION ANCHOR
GROUTED MASONRY	HILTI HY 70	HILTI KWIK HUS EZ SCREW ANCHOR HILTI KWIK BOLT III EXPANSION ANCHOR
HOLLOW MASONRY	HILTI HY 70 WITH APPROPRIATE SCREEN TUBE	HILTI HY HLC SLEEVE ANCHOR

2. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR REPORT SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.

3. INSTALL ANCHORS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

4. ANCHOR CAPACITY IS DEPENDANT ON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

TA - TYPICAL ABBREVIATIONS

1. THE FOLLOWING ARE TYPICAL ABBREVIATIONS USED IN THE STRUCTURAL DRAWINGS:

A.B.	-ANCHOR BOLT	H.S.	-HEADED STUD
ADD'L	-ADDITIONAL	JST.	-JOIST
ARCH'L	-ARCHITECTURAL	JT.	-JOINT
BM	-BEAM	LT.	-LIGHT
BP	-BASE PLATE	MAS.	-MASONRY
BRG.	-BEARING	MAX.	-MAXIMUM
BSMT.	-BASEMENT	MECH.	-MECHANICAL
C.I.P.	-CAST IN PLACE	MFR	-MANUFACTURER
C.J.	-CONTROL OR CONSTRUCTION JOINT	MIN.	-MINIMUM
CLR.	-CLEAR	NOM.	-NOMINAL
CMU	-CONCRETE MASONRY UNIT	NTS	-NOT TO SCALE
COL.	-COLUMN	O.H.	-OPPOSITE HAND
CONC.	-CONCRETE	O.C.	-ON CENTER
CONST.	-CONSTRUCTION	PC	-PRECAST OR PILE CAP
CONT.	-CONTINUOUS	PREFAB.	-PREFABRICATED
COORD.	-COORDINATE	REF.	-REFERENCE
DET.	-DETAIL	REINF.	-REINFORCEMENT
DIA	-DIAMETER	SECT.	-SECTION
DWG.	-DRAWING	SIM.	-SIMILAR
E.B.	-EXPANSION BOLT	STD.	-STANDARD
EL.	-ELEVATION	STRUCT.	-STRUCTURAL
F.F.	-FINISHED FLOOR	T.O.S.	-TOP OF SLAB OR STEEL
FIN.	-FINISH(ED)	TYP.	-TYPICAL
FLR.	-FLOOR	U.O.N.	-UNLESS OTHERWISE NOTED
FOUND.	-FOUNDATION	V.I.F.	-VERIFY IN FIELD
FTG.	-FOOTING	VERT.	-VERTICAL
GALV.	-GALVANIZE (D) (ING)	W.P.	-WORK POINT
H.C.	-HOLLOW-CORE	WT.	-WEIGHT
HORIZ.	-HORIZONTAL	W.W.R.	-WELDED WIRE REINF.
HDG	-HOT-DIP GALVANIZED		

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Revisions

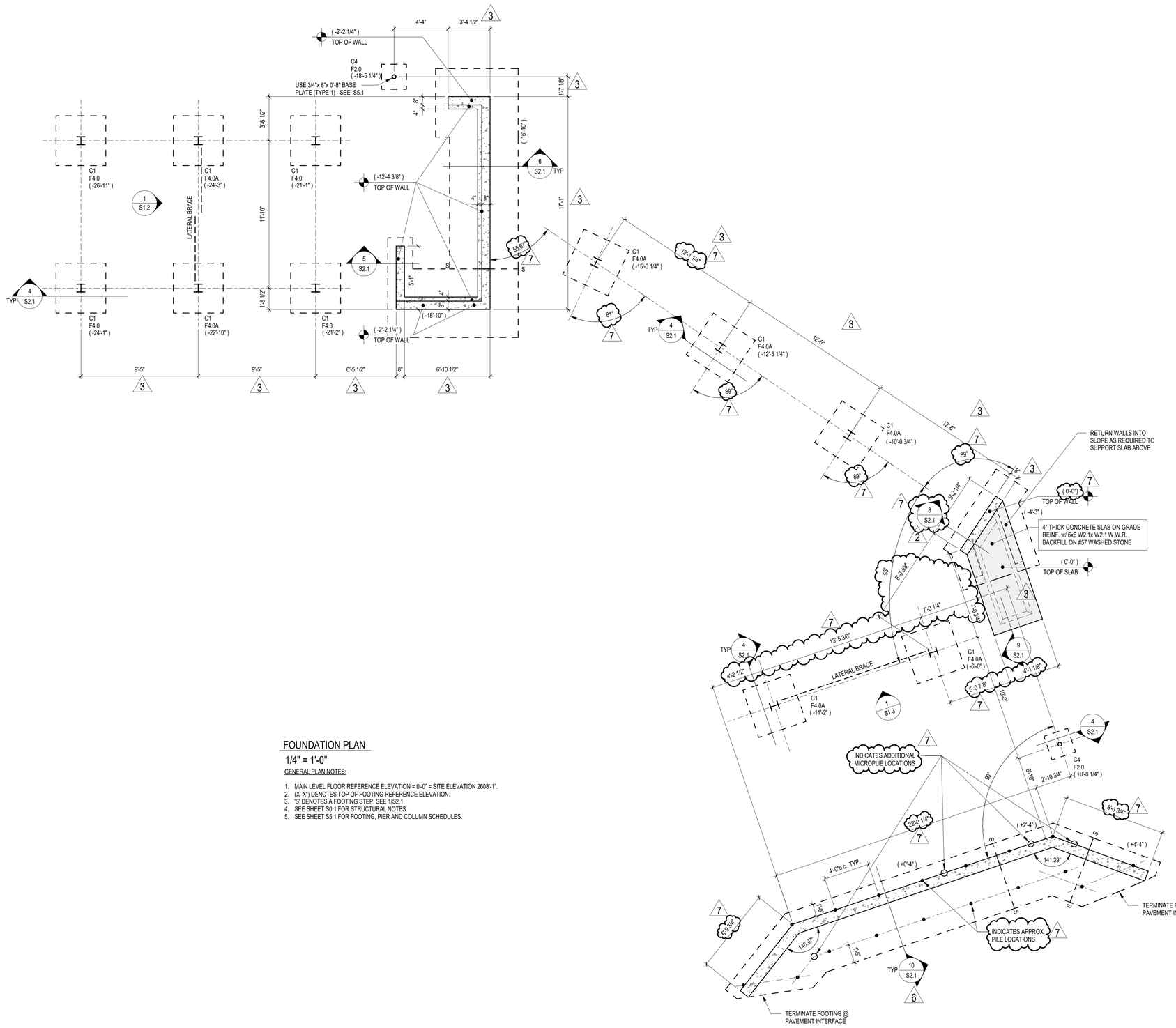
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STRUCTURAL NOTES

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FOUNDATION PLAN

1/4" = 1'-0"

GENERAL PLAN NOTES:

1. MAIN LEVEL FLOOR REFERENCE ELEVATION = 0'-0" = SITE ELEVATION 2608'-1".
2. (X'-X") DENOTES TOP OF FOOTING REFERENCE ELEVATION.
3. 'S' DENOTES A FOOTING STEP. SEE 1/S2.1.
4. SEE SHEET S0.1 FOR STRUCTURAL NOTES.
5. SEE SHEET S5.1 FOR FOOTING, PIER AND COLUMN SCHEDULES.

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3	ASI 3	10/23/2025
2	ASI 2	07/31/2025

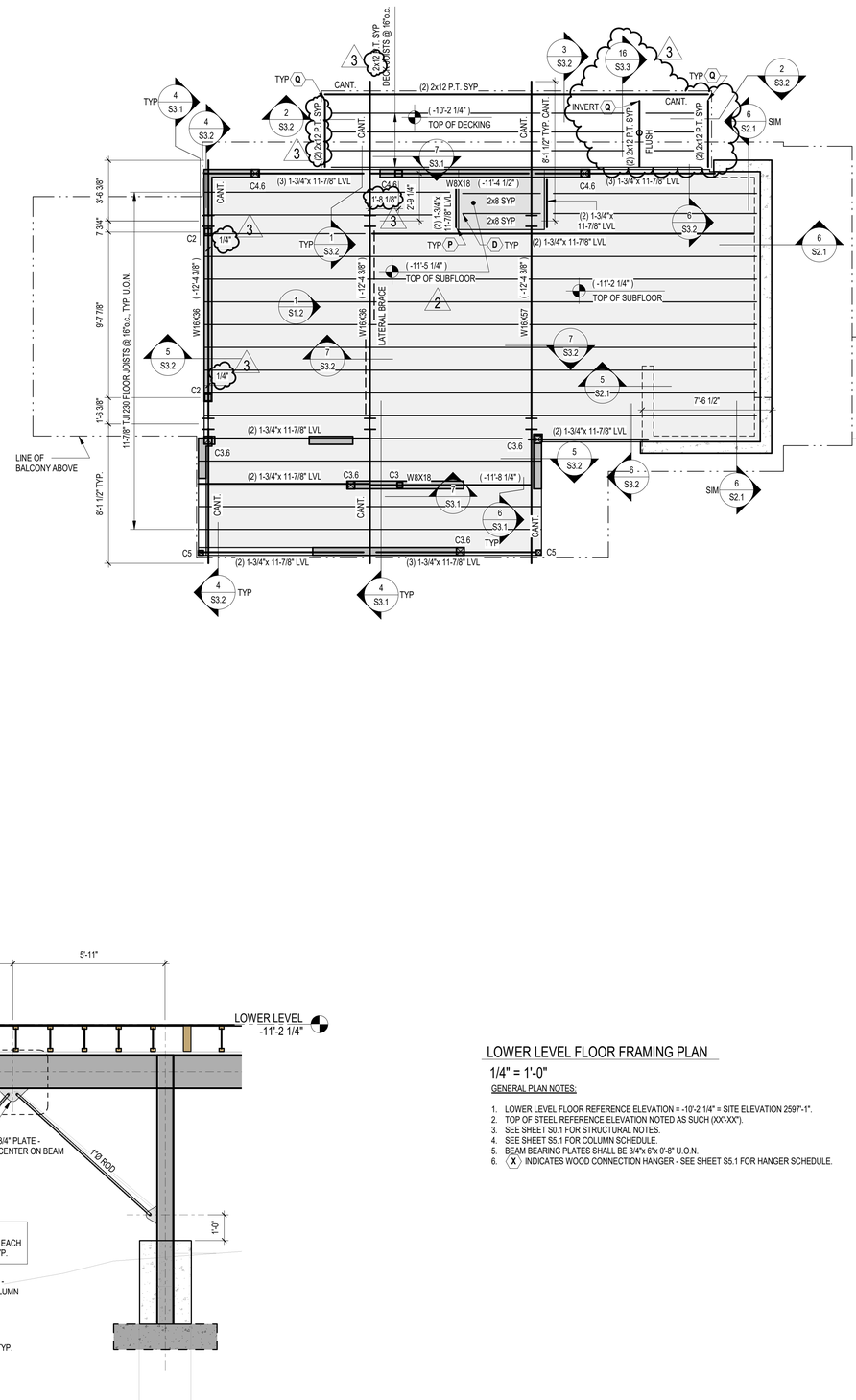
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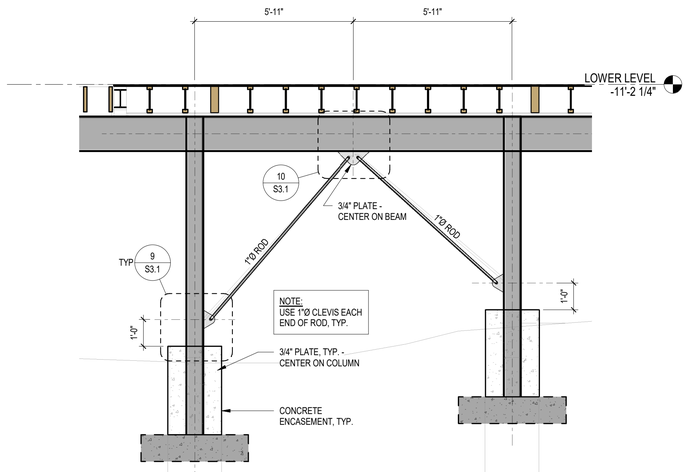
FOUNDATION PLAN

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1 S1.2 BRACE FRAME ELEVATION - A
3/8" = 1'-0"

LOWER LEVEL FLOOR FRAMING PLAN

1/4" = 1'-0"

GENERAL PLAN NOTES:

1. LOWER LEVEL FLOOR REFERENCE ELEVATION = -10'-2 1/4" = SITE ELEVATION 2597'-1".
2. TOP OF STEEL REFERENCE ELEVATION NOTED AS SUCH (XX'-XX").
3. SEE SHEET S0.1 FOR STRUCTURAL NOTES.
4. SEE SHEET S5.1 FOR COLUMN SCHEDULE.
5. BEAM BEARING PLATES SHALL BE 3/4"x 6"x 0'-8" U.O.N.
6. (X) INDICATES WOOD CONNECTION HANGER - SEE SHEET S5.1 FOR HANGER SCHEDULE.

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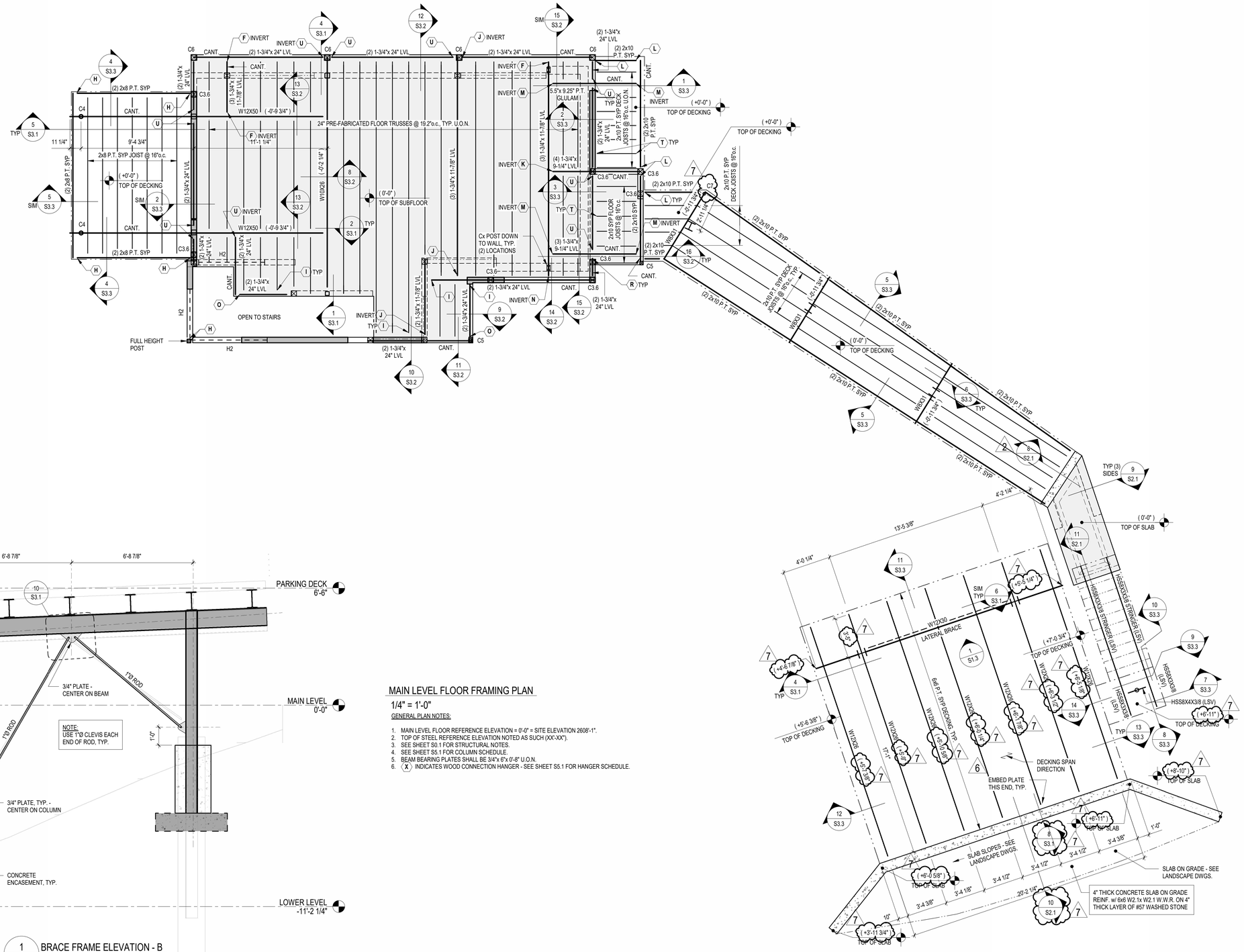
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2	ASI 2	07/31/2025

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LOWER LEVEL FLOOR FRAMING PLAN

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1 S1.3 BRACE FRAME ELEVATION - B
3/8" = 1'-0"

MAIN LEVEL FLOOR FRAMING PLAN

1/4" = 1'-0"

GENERAL PLAN NOTES:

1. MAIN LEVEL FLOOR REFERENCE ELEVATION = 0'-0" = SITE ELEVATION 2608'-1".
2. TOP OF STEEL REFERENCE ELEVATION NOTED AS SUCH (XX'-XX").
3. SEE SHEET S0.1 FOR STRUCTURAL NOTES.
4. SEE SHEET S5.1 FOR COLUMN SCHEDULE.
5. BEAM BEARING PLATES SHALL BE 3/4"x 6"x 0'-8" U.O.N.
6. (X) INDICATES WOOD CONNECTION HANGER - SEE SHEET S5.1 FOR HANGER SCHEDULE.

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NORTH CAROLINA PROFESSIONAL SEAL 29490 ENGINEER DAVID B. PHILLIPS
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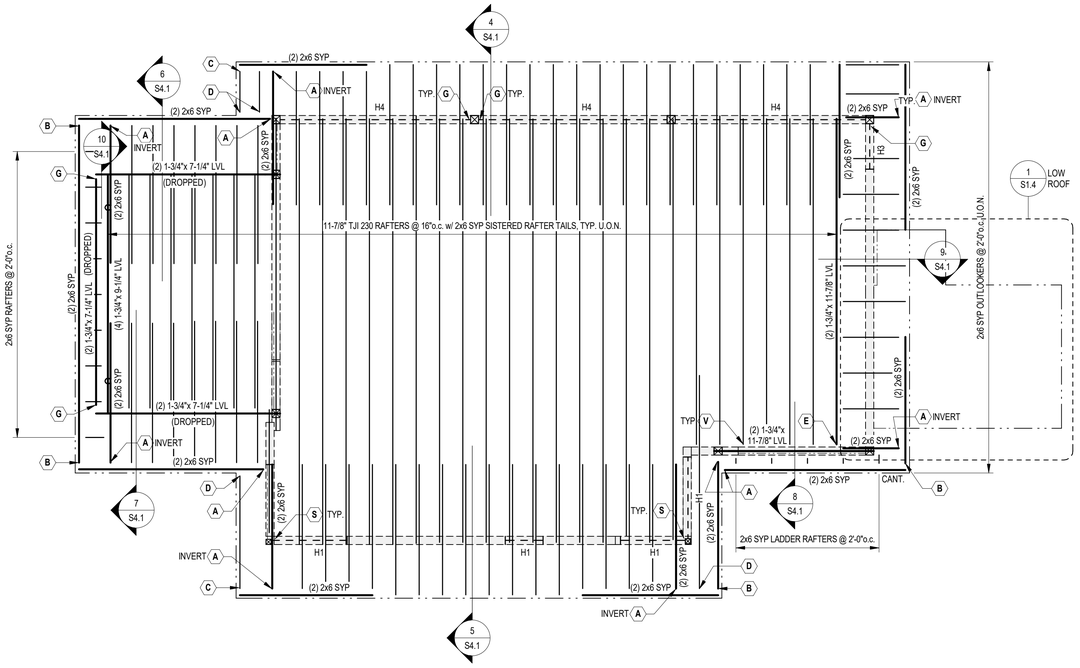
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2	ASI 2	07/31/2025

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MAIN LEVEL FLOOR FRAMING PLAN

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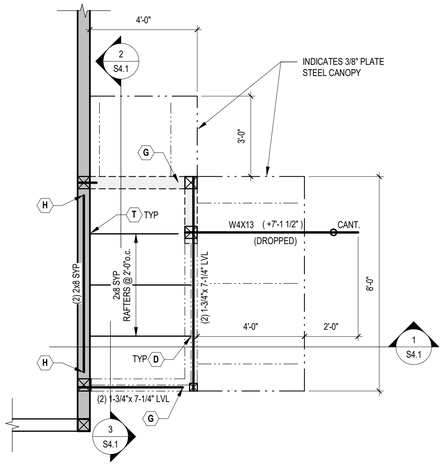


HIGH ROOF FRAMING PLAN

1/4" = 1'-0"

GENERAL PLAN NOTES:

1. TOP OF STEEL REFERENCE ELEVATION NOTED AS SUCH (XX'-XX").
2. ⟨X⟩ INDICATES WOOD CONNECTION HANGER - SEE SHEET S5.1 FOR HANGER SCHEDULE.



1 S1.4 ENLARGED PARTIAL LOW ROOF FRAMING PLAN

3/8" = 1'-0"

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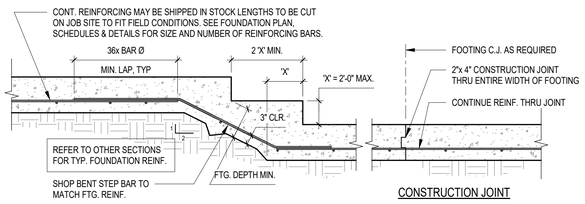
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ROOF FRAMING PLANS

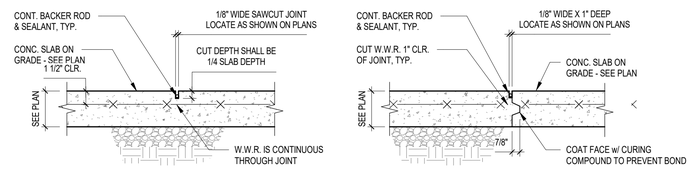
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1 S2.1 TYP. FOOTING STEP & FOOTING CONSTRUCTION JOINT
1/2" = 1'-0"

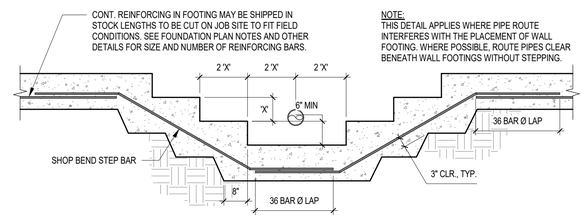


CONTROL AND CONSTRUCTION JOINT NOTES:

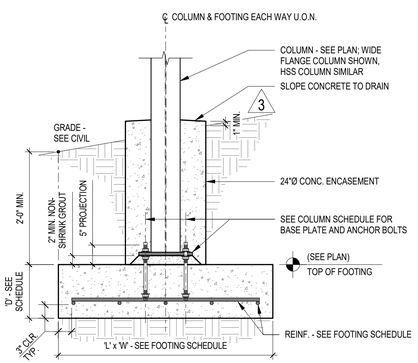
1. SAWCUT JOINTS AT CONTROL JOINTS SHALL BE MADE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OUT OF THE AGGREGATE AND DAMAGE TO THE EDGES, BUT NO LATER THAN 24 HOURS AFTER FINISHING OF THE SLAB SURFACE HAS BEEN COMPLETED.
2. SAWCUT JOINTS SHALL BE AT ALL CONSTRUCTION JOINTS. JOINTS SHALL BE SAWCUT WHEN CONTROL JOINTS ARE SAWCUT.

NOTE:
FORM KEYWAY USING WOOD FORM NAILED TO BULKHEAD "DO NOT USE METAL KEYWAY"

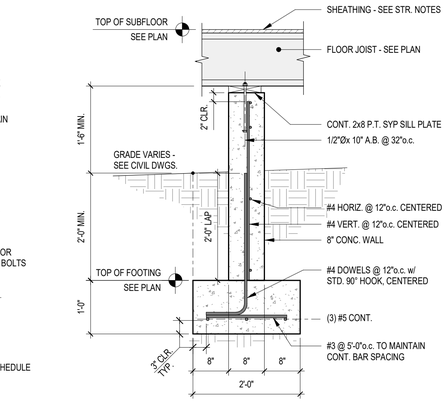
2 S2.1 SLAB ON GRADE JOINT DETAILS
1 1/2" = 1'-0"



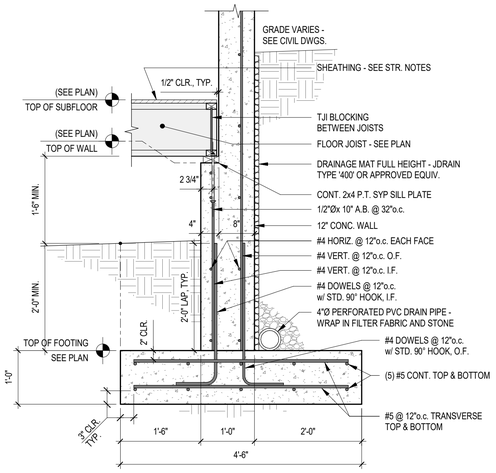
3 S2.1 STEPPED FOOTING @ UNDERGROUND UTILITIES
1/2" = 1'-0"



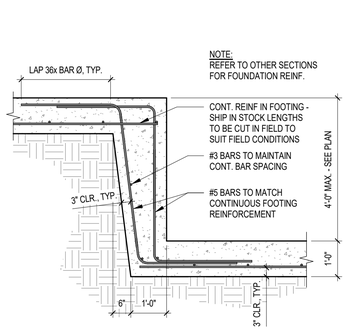
4 S2.1 EXT. COLUMN ON FOOTING
3/4" = 1'-0"



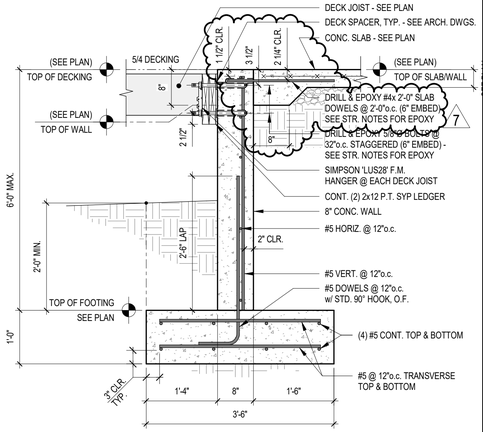
5 S2.1 CONC. STEM WALL SECTION - A
3/4" = 1'-0"



6 S2.1 CONC. STEM WALL SECTION - B
3/4" = 1'-0"

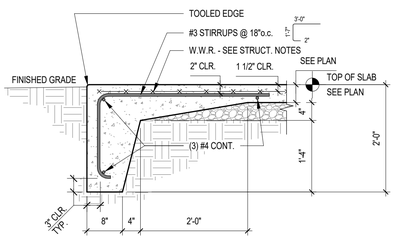


7 S2.1 TYP. 4'-0" FOOTING STEP
1/2" = 1'-0"

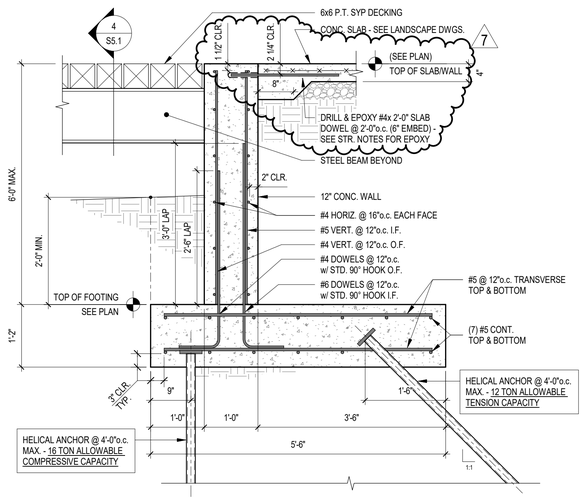


8 S2.1 CONC. STEM WALL SECTION -C
3/4" = 1'-0"

2

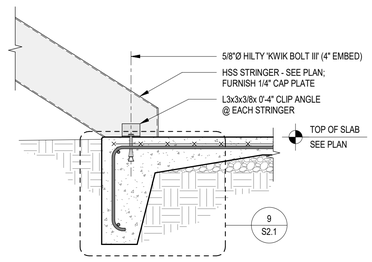


9 S2.1 8" THICKEND SLAB EDGE
3/4" = 1'-0"

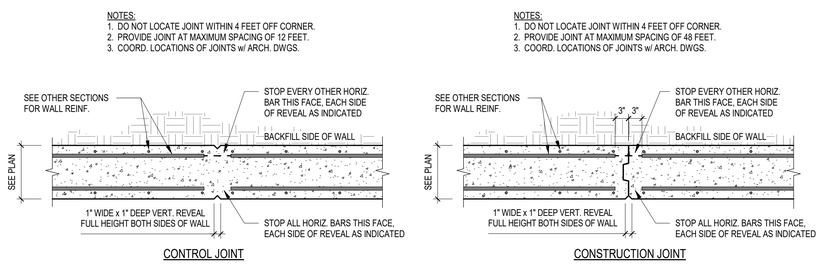


10 S2.1 CONC. RETAINING WALL SECTION
3/4" = 1'-0"

6



11 S2.1 STRINGER BEARING SECTION
3/4" = 1'-0"



12 S2.1 TYPICAL VERT & HORIZ CONC WALL JOINTS
3/4" = 1'-0"

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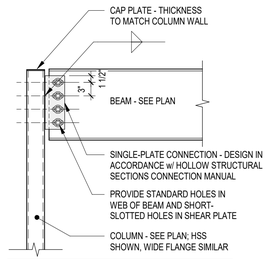
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6	ASI 6	11/24/2025
3	ASI 3	10/23/2025
2	ASI 2	07/31/2025

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FOUNDATION SECTIONS & DETAILS

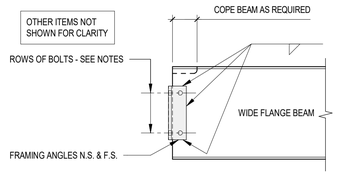
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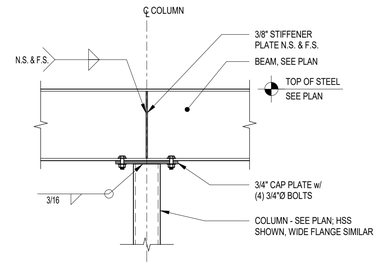
NOTE:
PROVIDE THIS CONNECTION AT LOCATIONS WHERE THIS STYLE OF CONNECTION HAS SUFFICIENT CAPACITY TO SUPPORT THE INDICATED BEAM REACTION.

1 S3.1 SINGLE PLATE CONNECTION
3/4" = 1'-0"

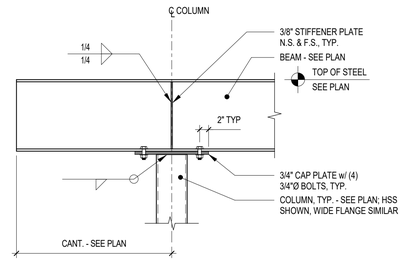


NOTES:
1. CONNECTIONS SHALL BE DESIGNED AND DETAILED BY STEEL FABRICATOR IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE AISC MANUAL OF STEEL CONSTRUCTION AND APPROVED BY THE ARCHITECT / ENGINEER.
2. IF NO REACTION IS SHOWN ON THE PLAN, THE MINIMUM NUMBER OF BOLTS PER CONNECTION SHALL BE AS FOLLOWS:
   (2) ROWS FOR W8 AND W10 BEAMS
   (3) ROWS FOR W12 AND W14 BEAMS
   (4) ROWS FOR W16 AND W18 BEAMS
   (5) ROWS FOR W21 AND W24 BEAMS
   (6) ROWS FOR W27 AND W30 BEAMS
   (7) ROWS FOR W33 AND W36 BEAMS
3. IF NO REACTION IS SHOWN ON THE PLAN, THE REACTION USED IN DESIGN SHALL BE ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM.
4. DUE CONSIDERATION SHALL BE GIVEN TO BOLT SHEAR, BOLT BEARING ON CONNECTING MATERIAL, BEAM WEB TEAR-OUT (BLOCK SHEAR), SHEAR ON NET AREA OF THE CONNECTION ANGLES AND LOCAL BENDING STRESSES.

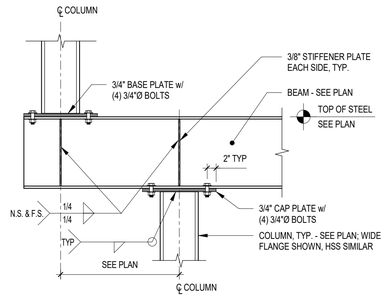
2 S3.1 TYPICAL FRAMED BEAM CONNECTION
3/4" = 1'-0"



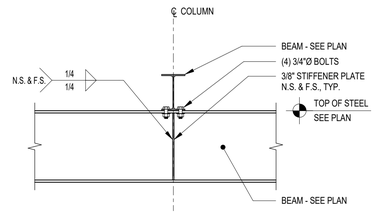
3 S3.1 TYPICAL BEAM OVER COLUMN CONNECTION
3/4" = 1'-0"



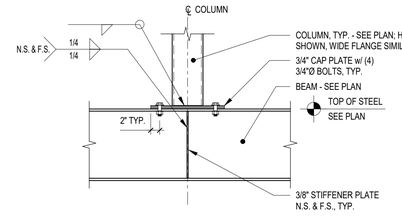
4 S3.1 CANTILEVER BEAM
3/4" = 1'-0"



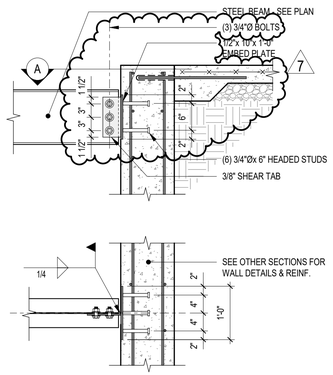
5 S3.1 CANTILEVER BEAM w/ COLUMN
3/4" = 1'-0"



6 S3.1 BEAM BEARING ON BEAM SECTION
3/4" = 1'-0"



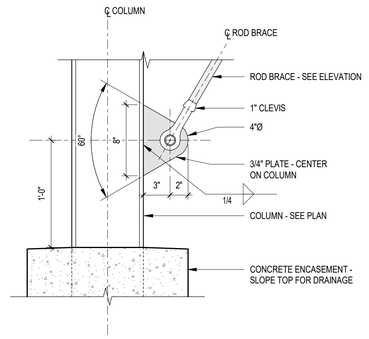
7 S3.1 COLUMN POST UP FROM BEAM
3/4" = 1'-0"



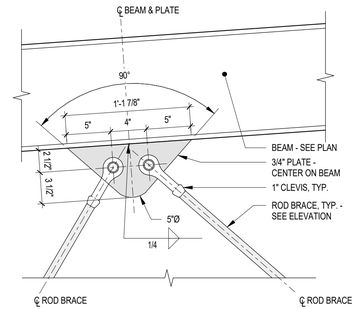
PLAN VIEW 'A'

8 S3.1 BEAM CONNECTION TO CONCRETE WALL
3/4" = 1'-0"

6



9 S3.1 ROD BRACE CONNECTION - A
1 1/2" = 1'-0"



10 S3.1 ROD BRACE CONNECTION - B
1 1/2" = 1'-0"

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Asheville, North Carolina 28801
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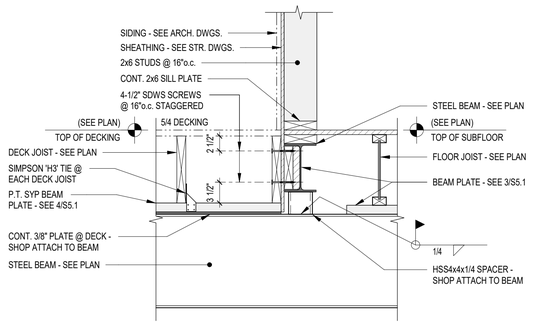
Revisions

No:	Description:	Date:
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6	ASI 6	11/24/2025

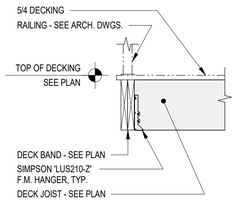
Project Number:	24.07
Date:	07/11/2025
Designed by:	KEPA
Drawn by:	DBC
Approved by:	DBP

STEEL FRAMING SECTIONS & DETAILS

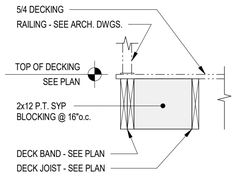
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S3.1



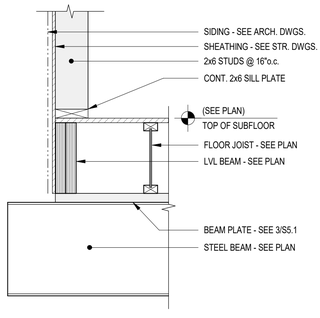
1 S3.2 FRAMING SECTION - A
1" = 1'-0"



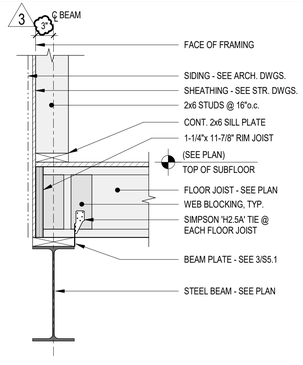
2 S3.2 DECK BAND SECTION - A
3/4" = 1'-0"



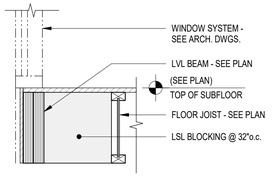
3 S3.2 DECK BAND SECTION - B
3/4" = 1'-0"



4 S3.2 FRAMING SECTION - B
1" = 1'-0"



5 S3.2 FRAMING SECTION - C
1" = 1'-0"



6 S3.2 FRAMING SECTION - D
1" = 1'-0"

7 S3.2 FRAMING SECTION - E
1" = 1'-0"

8 S3.2 FRAMING SECTION - F
1" = 1'-0"

9 S3.2 FRAMING SECTION - G
1" = 1'-0"

10 S3.2 FRAMING SECTION - H
1" = 1'-0"

11 S3.2 FRAMING SECTION - I
1" = 1'-0"

12 S3.2 FRAMING SECTION - J
1" = 1'-0"

13 S3.2 FRAMING SECTION - K
1" = 1'-0"

14 S3.2 FRAMING SECTION - L
1" = 1'-0"

15 S3.2 FRAMING SECTION - M
1" = 1'-0"

16 S3.2 FRAMING SECTION - N
1" = 1'-0"

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Revisions

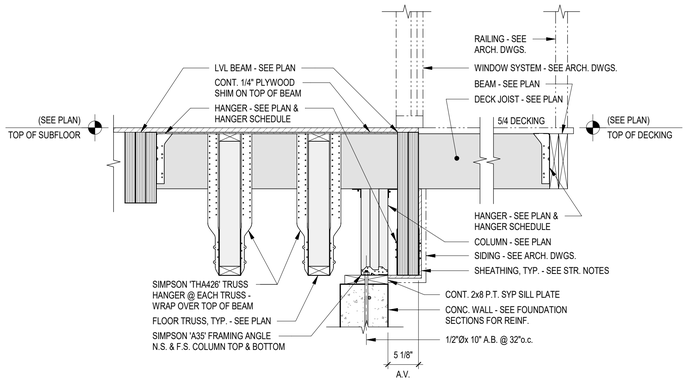
No:	Description:	Date:
3	ASI 3	10/23/2025

Project Number:	24.07
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Designed by:	KEPA
Drawn by:	DBC
Approved by:	DBP

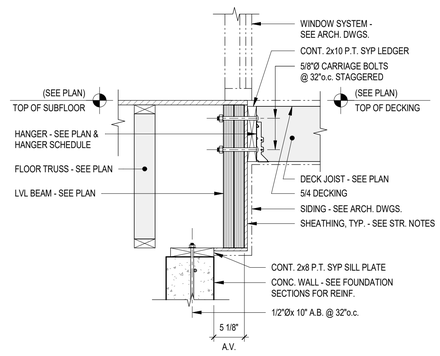
FLOOR & FRAMING SECTIONS & DETAILS

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S3.2

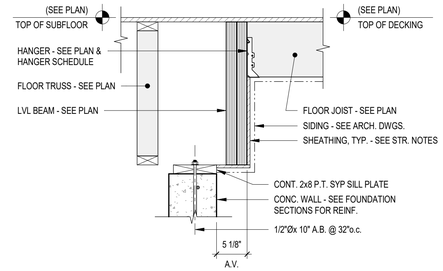
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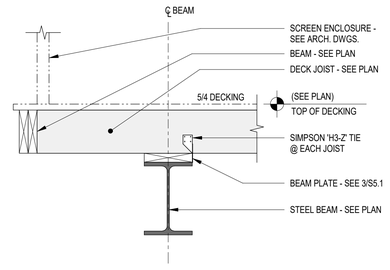
1 S3.3 FRAMING SECTION - O
1" = 1'-0"



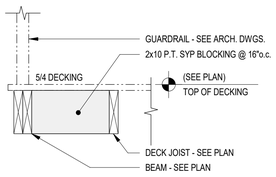
2 S3.3 FRAMING SECTION - P
1" = 1'-0"



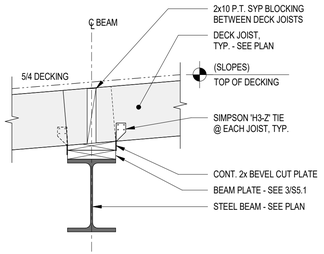
3 S3.3 FRAMING SECTION - Q
1" = 1'-0"



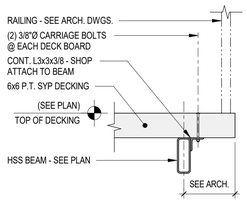
4 S3.3 FRAMING SECTION - R
1" = 1'-0"



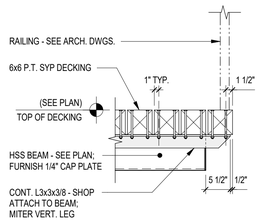
5 S3.3 FRAMING SECTION - S
1" = 1'-0"



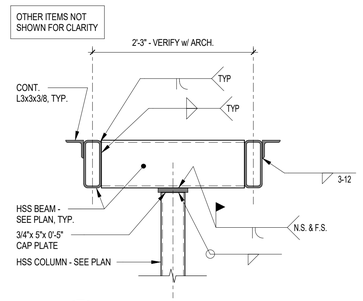
6 S3.3 FRAMING SECTION - T
1" = 1'-0"



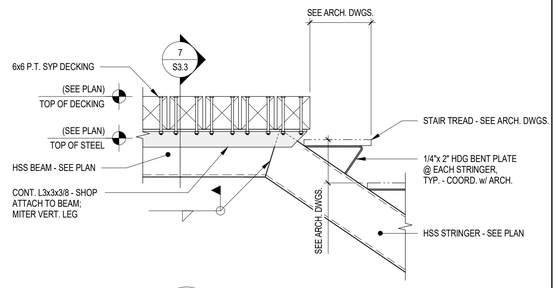
7 S3.3 DECK FRAMING SECTION - A
3/4" = 1'-0"



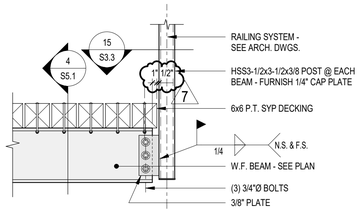
8 S3.3 DECK FRAMING SECTION - B
3/4" = 1'-0"



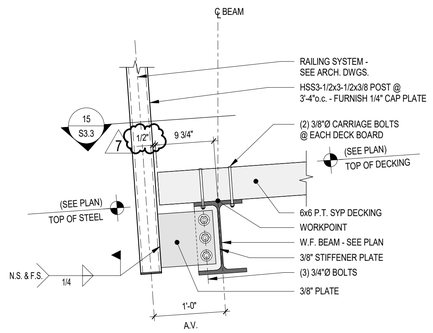
9 S3.3 DECK FRAMING SECTION - C
1" = 1'-0"



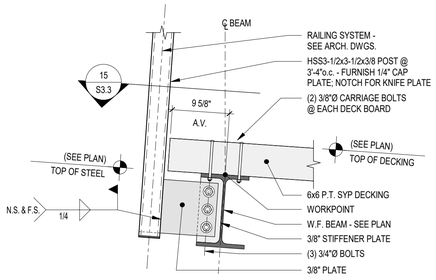
10 S3.3 STEEL STRINGER SECTION
1" = 1'-0"



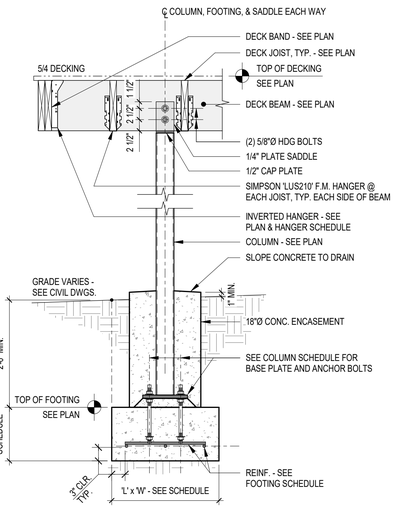
11 S3.3 PARKING DECK SECTION - A
3/4" = 1'-0"



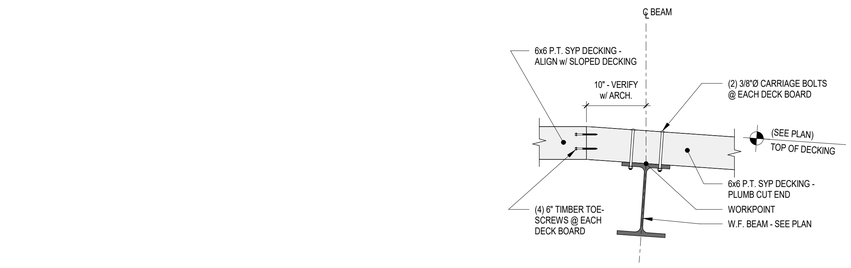
12 S3.3 PARKING DECK SECTION - B
1" = 1'-0"



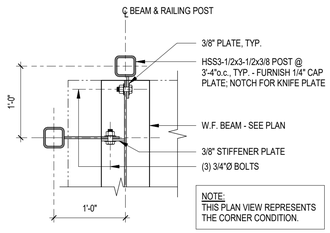
13 S3.3 PARKING DECK SECTION - C
1" = 1'-0"



16 S3.3 DECK BEAM SECTION
3/4" = 1'-0"



14 S3.3 PARKING DECK SECTION - D
1" = 1'-0"



15 S3.3 RAILING POST PLAN DETAIL
1" = 1'-0"

3

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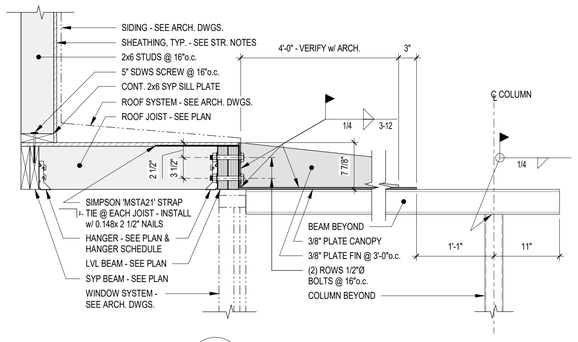
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No:	Description:	Date:
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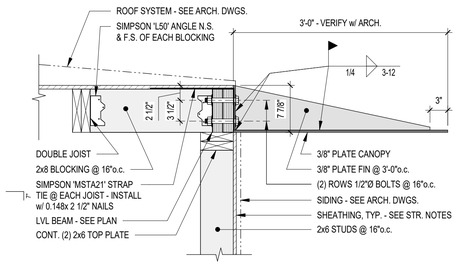
Project Number:	24.07
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Drawn by:	DBC
Approved by:	DBP

FLOOR & FRAMING SECTIONS & DETAILS

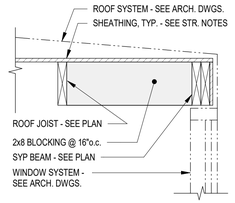
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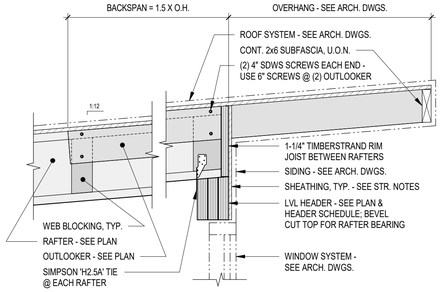
1 S4.1 ROOF SECTION - A
1" = 1'-0"



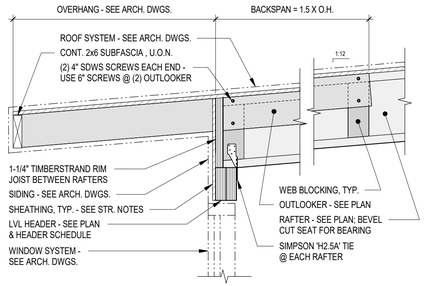
2 S4.1 ROOF SECTION - B
1" = 1'-0"



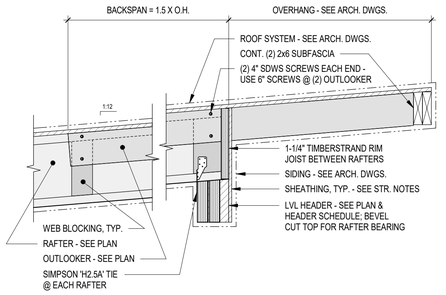
3 S4.1 ROOF SECTION - C
1" = 1'-0"



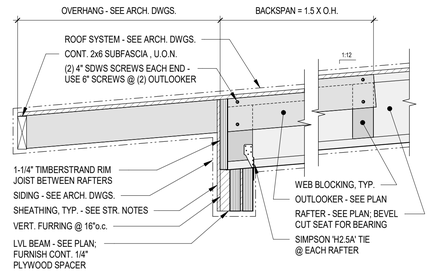
4 S4.1 ROOF SECTION - D
1" = 1'-0"



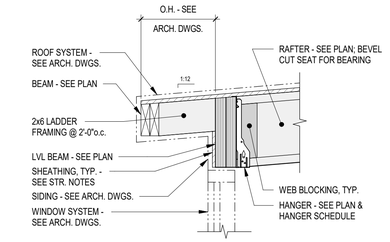
5 S4.1 ROOF SECTION - E
1" = 1'-0"



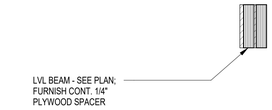
6 S4.1 ROOF SECTION - F
1" = 1'-0"

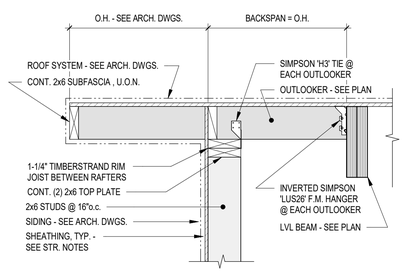


7 S4.1 ROOF SECTION - G
1" = 1'-0"

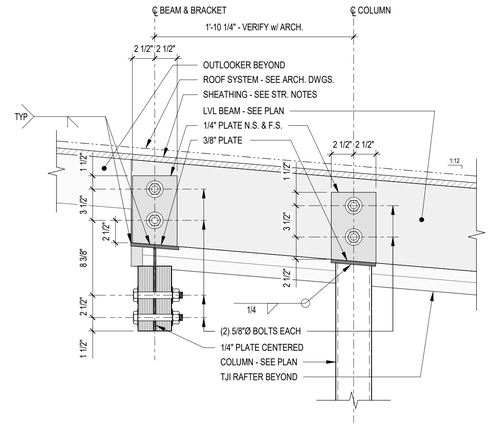


8 S4.1 ROOF SECTION - H
1" = 1'-0"





9 S4.1 ROOF SECTION - I
1" = 1'-0"



10 S4.1 ROOF SECTION - J
1 1/2" = 1'-0"

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Revisions

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Project Number:	24.07
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Designed by:	KEPA
Drawn by:	DBC
Approved by:	DBP

ROOF FRAMING
SECTIONS & DETAILS

Sheet Number:
S4.1

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WOOD HEADER SCHEDULE

MARK	HEADER MEMBERS	QTY - JACK STUDS	QTY - WALL STUDS	COMMENTS
H1	(2) 1-3/4"x 5-1/2" LVL 2.0E	2	2	
H2	(2) 2x10 SYP	2	2	
H3	(2) 1-3/4"x 7-1/4" LVL 2.0E	2	2	
H4	(3) 1-3/4"x 7-1/4" LVL 2.0E			

WOOD CONNECTOR 'HANGER' SCHEDULE

MARK	CONNECTOR NAME	COMMENTS
A	LUS26-2	
B	HUC26-2	CONCEALED FLANGE
C	LUC26-Z	CONCEALED FLANGE
D	LUS26	
E	HHUS410	
F	MGU5.50-SDS	
G	HUC48	CONCEALED FLANGE
H	HUC28-2	CONCEALED FLANGE
I	THA422	WRAP OVER BEAM AS REQUIRED
J	HU412	
K	HGUS7.25/10	
L	HUC210-2Z	CONCEALED FLANGE
M	HU610-Z	
N	HU612	
O	THAC422	C.F.; WRAP OVER BEAM AS REQUIRED
P	HU410	
Q	HUC212-Z	CONCEALED FLANGE
R	THA426	WRAP OVER BEAM AS REQUIRED
S	HUC46	
T	LUS28-Z	
U	THAC426	C.F.; WRAP OVER BEAM AS REQUIRED
V	IUS2.37/11.88	

WOOD CONNECTOR NOTES:

1. ALL HANGERS SHALL BE 'SIMPSON STRONG-TIE' OR EQUAL.

COLUMN SCHEDULE

MARK	COLUMN SIZE	TYPE	BASE PLATE	ANCHOR BOLTS	COMMENTS
C1	W8x31	STEEL	3/4"x 14"x 1'-2" (TYPE 1)	(4) 3/4"Ø x 1'-1" (TYPE 1)	
C2	HSS4x4x1/4	STEEL	3/4"x 6 1/2"x 0'-10" (TYPE 2)	(4) 3/4"Ø A35	
C3	HSS4x4x1/4	STEEL	3/4"x 5 1/2"x 0'-10" (TYPE 3)	(4) 3/4"Ø A35	
C4	HSS4x0.250	STEEL	3/4"x 6 1/2"x 0'-10" (TYPE 4)	(4) 3/4"Ø A35	
C5	3 1/4"x 3 1/4" 1.9E	PSL	--	--	
C6	5 1/4"x 5 1/4" 1.9E	PSL			
C7	HSS3x0.203	STEEL	--	--	BASE PLATE & BOLTS OMITTED

2 7

COLUMN NOTES:

1. SEE SECTION 1/S5.1 FOR BASEPLATE TYPES.
2. SEE SECTION 2/S5.1 FOR ANCHOR BOLT TYPES.

WOOD COLUMN LEGEND

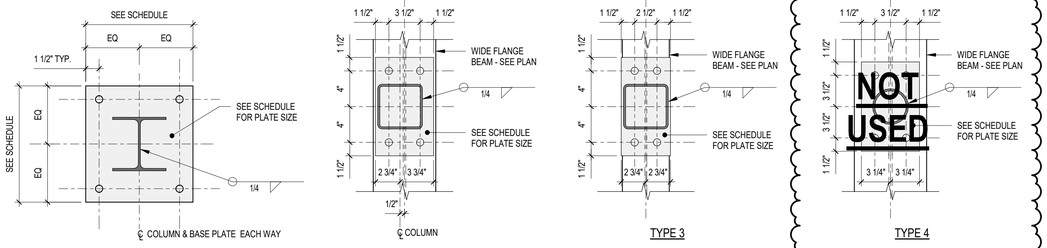
MARK	SIZE	MARK	SIZE	MARK	SIZE	MARK	SIZE	MARK	SIZE	MARK	SIZE
C2.4	(2) 2x4	C2.6	(2) 2x6	C2.8	(2) 2x8	C4x4	4x4	C6x6	6x6	C8x8	8x8
C3.4	(3) 2x4	C3.6	(3) 2x6	C3.8	(3) 2x8	C4x6	4x6	C6x8	6x8	C8x10	8x10
C4.4	(4) 2x4	C4.6	(4) 2x6	C4.8	(4) 2x8	C4x8	4x8	C6x10	6x10	C8x12	8x12
C5.4	(5) 2x4	C5.6	(5) 2x6	C5.8	(5) 2x8	C4x10	4x10	C6x12	6x12		
C6.4	(6) 2x4	C6.6	(6) 2x6	C6.8	(6) 2x8	C4x12	4x12				
C7.4	(7) 2x4	C7.6	(7) 2x6	C7.8	(7) 2x8					C10x10	10x10
C8.4	(8) 2x4	C8.6	(8) 2x6	C8.8	(8) 2x8			C12x12	12x12	C10x12	10x12

WOOD COLUMN LEGEND NOTES:

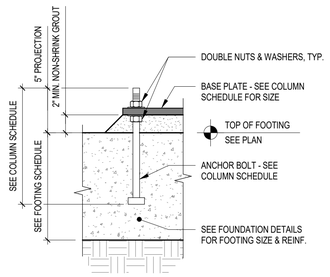
1. REFER TO 'MEMBER CONNECTIONS FOR BUILT UP COLUMNS' DETAIL FOR TYPICAL ATTACHMENT REQUIREMENTS.
2. ALL WOOD COLUMNS SHALL BE SAME SPECIES AS WALL STUDS IN WHICH THEY ARE LOCATED. REFER TO 'WALL TYPE SCHEDULE' FOR SPECIFIC WALL STUD SPECIES.
3. THIS LEGEND CONTAINS TYPICAL COLUMN CALLOUTS AS FOUND IN STRUCTURAL PLANS. NOT ALL COLUMN TYPES SPECIFIED IN THIS LEGEND HAVE BEEN USED, SEE PLAN FOR REQUIRED SIZES & LOCATIONS.

SPREAD FOOTING SCHEDULE

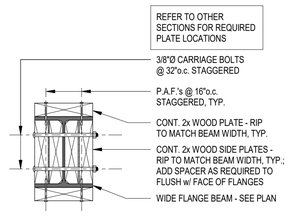
MARK	SIZE 'L' x 'W' x 'D'	REINFORCING
F2.0	2'-0" x 2'-0" x 1'-0"	(3) #4 EA. WAY BOTTOM
F3.0	3'-0" x 3'-0" x 1'-0"	(4) #4 EA. WAY BOTTOM
F4.0	4'-0" x 4'-0" x 1'-0"	(5) #4 EA. WAY BOTTOM
F4.0A	4'-0" x 4'-0" x 1'-2"	(5) #4 EA. WAY TOP & BOTTOM
F5.0	5'-0" x 5'-0" x 1'-0"	(6) #5 EA. WAY BOTTOM
F5.0A	5'-0" x 5'-0" x 1'-2"	(6) #5 EA. WAY TOP & BOTTOM
F6.0	6'-0" x 6'-0" x 1'-0"	(7) #5 EA. WAY BOTTOM



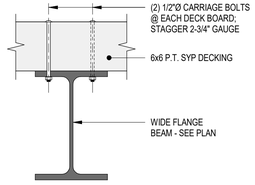
1 S5.1 BASE PLATE TYPES
1 1/2" = 1'-0"



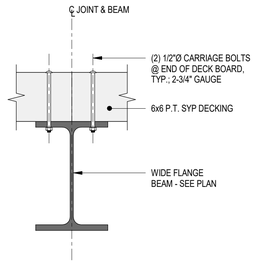
2 S5.1 ANCHOR BOLT TYPE 1
1 1/2" = 1'-0"



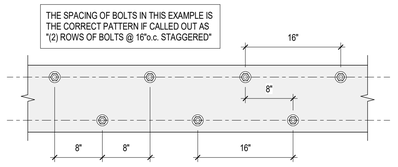
3 S5.1 BEAM PLATE DETAIL - A
1 1/2" = 1'-0"



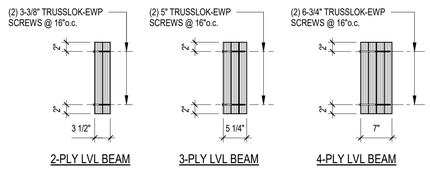
4 S5.1 BEAM PLATE DETAIL - B
1 1/2" = 1'-0"



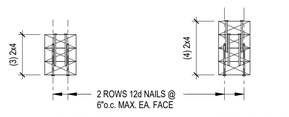
5 S5.1 BEAM PLATE DETAIL - C
1 1/2" = 1'-0"



6 S5.1 TYPICAL BOLT STAGGER PATTERN DETAIL
1" = 1'-0"

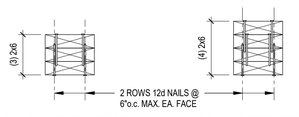


MEMBER CONNECTION FOR 'LVL' BEAMS



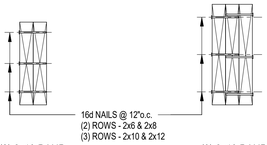
(3) 2x4 GANG STUD POST (4) 2x4 GANG STUD POST

MEMBER CONNECTIONS FOR BUILTUP COLUMNS



(3) 2x6 GANG STUD POST (4) 2x6 GANG STUD POST

MEMBER CONNECTIONS FOR BUILTUP COLUMNS



(2) 2x10 BAND (3) 2x10 BAND

MULTIPLE GIRDER & BAND NAILING PATTERN

KLOESEL Engineering, PA
License C-1207
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(828) 255-0780

SAYRE
SAYRE CABIN
BLACK MOUNTAIN ESTATES, LOT 7 CHAPEL RD.
BLACK MOUNTAIN, NC 28711

Revisions

No:	Description:	Date:
7	ASI 7	12/17/2025
2	ASI 2	07/31/2025

Project Number:	24.07
Date:	07/11/2025
Designed by:	KEPA
Drawn by:	DBC
Approved by:	DBP

SCHEDULES & MISC. DETAILS

Sheet Number:
S5.1

12/17/2025 9:00:22 AM
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