

SQUARE FOOTAGE

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(Inside of Frame S.F.)	
A/C Area	Sq. Ft.
FIRST FLOOR	2040
Total A/C Area	2040

NOTE: ALL OPTIONAL SQUARE FOOTAGES LISTED ARE INDEPENDENT OF AND IN ADDITION TO BASE SQUARE FOOTAGES.

OPTIONS LIST
GREAT ROOM FIREPLACE
PRIMARY BATH 2
BED 3 W/BATH 3 ILO FLEX
SCREENED OUTDOOR LIVING
GOURMET KITCHEN 1
GREAT ROOM TRAY CEILING
PRIMARY SUITE TRAY CEILING
DOOR TO LAUNDRY FROM P. WIC
BATH 2 SHOWER ILO TUB
LAUNDRY SINK

Altis at Serenity - Lot 364 - 5921-07 (Aspen Creek) - Elevation
A

- *Gourmet Kitchen 1
- *Bed 3 w/ Bath 3 at Flex Space
- *Linear Electric Fireplace at Great Room
- *Tray Ceiling at Great Room
- *Tray Ceiling at Primary Bedroom
- *Primary Bath 2 (Shower and Tub)
- *Bath 2 Shower ILO Tub w. Vikrell Pan
- *Bath 3 Tub w. Tile Walls
- *Sink at Laundry
- *Optional Door to Laundry
- *Standard Screened Covered Outdoor Living w/ Extended Patio
- *Two 20/20 windows at Primary
- *Three 20/20 Windows at Dining

	ELEVATION KEY OR SECTION KEY		TUB/SHOWER		PLYWOOD
----	CENTERLINE		LAVATORY		INSULATING SHEATHING
- - - -	CEILING TRANSITION LINE		DBL SINK		BATT INSULATION
HB +—	HOSE BIB (FREEZE PROOF)		LAUNDRY SINK		RIGID INSULATION
⊕—	GAS LINE STUB		PEDESTAL SINK		CONCRETE
— TB	TOWEL BAR		WATER CLOSET		SAND OR GRAVEL FILL
PH □	PAPER HOLDER				STONE
TR ○	TOWEL RING				2x FRAME WALL
△	SHOWER HEAD				BRICK VENEER
++	SHOWER CONTROLS				STONE VENEER

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COVER SHEET & GENERAL NOTES

SUBDIVISION: ALTIS @ SERENITY

ADDRESS: 93 SHADY CREEK WAY

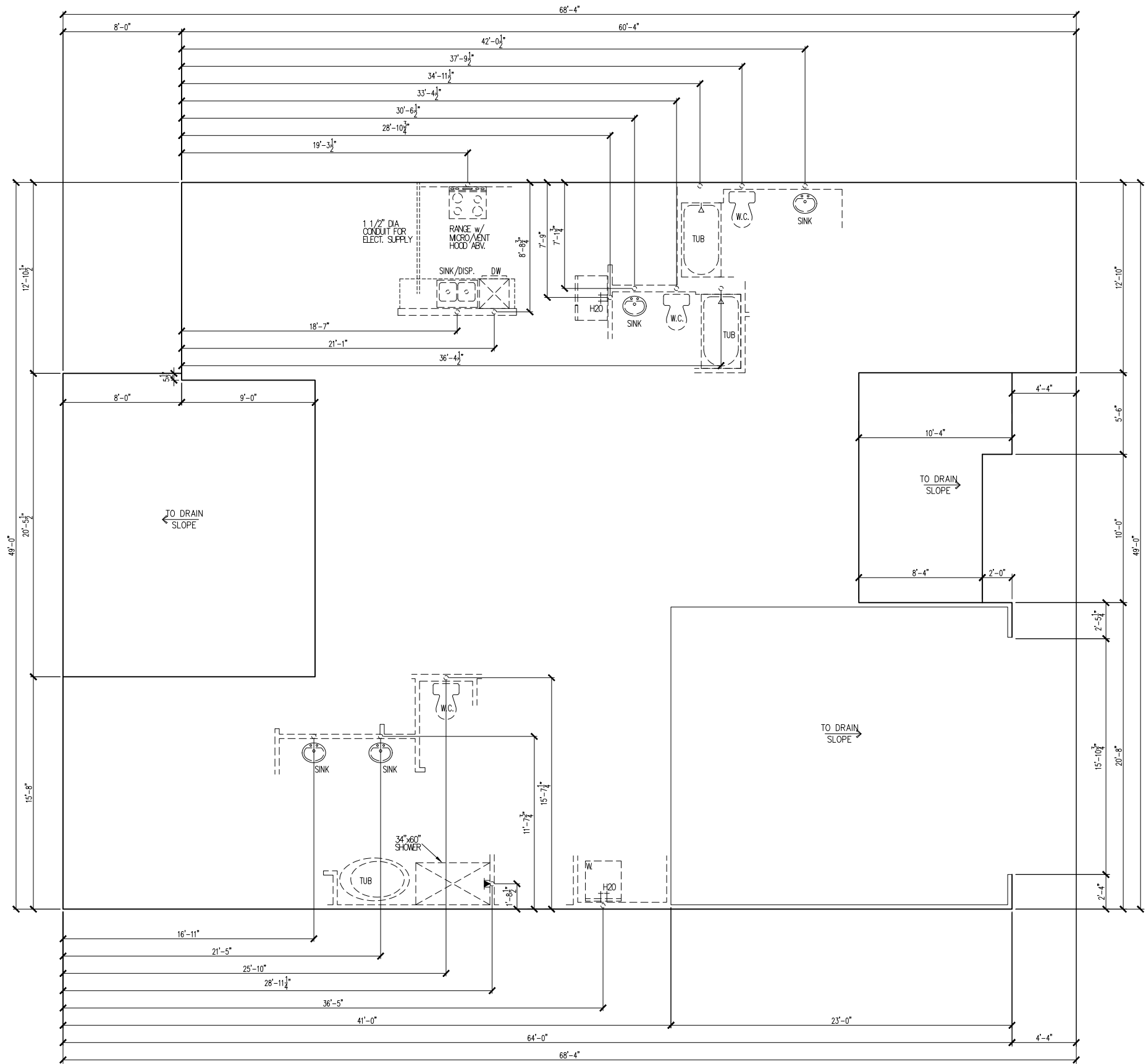
LOT: 364

Issue Date: 10-01-24
Drawn By: ACC

PLAN #:
5921-07

PLAN NAME:
ASPEN CREEK

SHEET #:
G0.01



BASE FOUNDATION PLAN

SUBDIVISION: ALTIS @ SERENITY
ADDRESS: 93 SHADY CREEK WAY
LOT: 364

Issue Date: 10-01-24
Drawn By: ACC

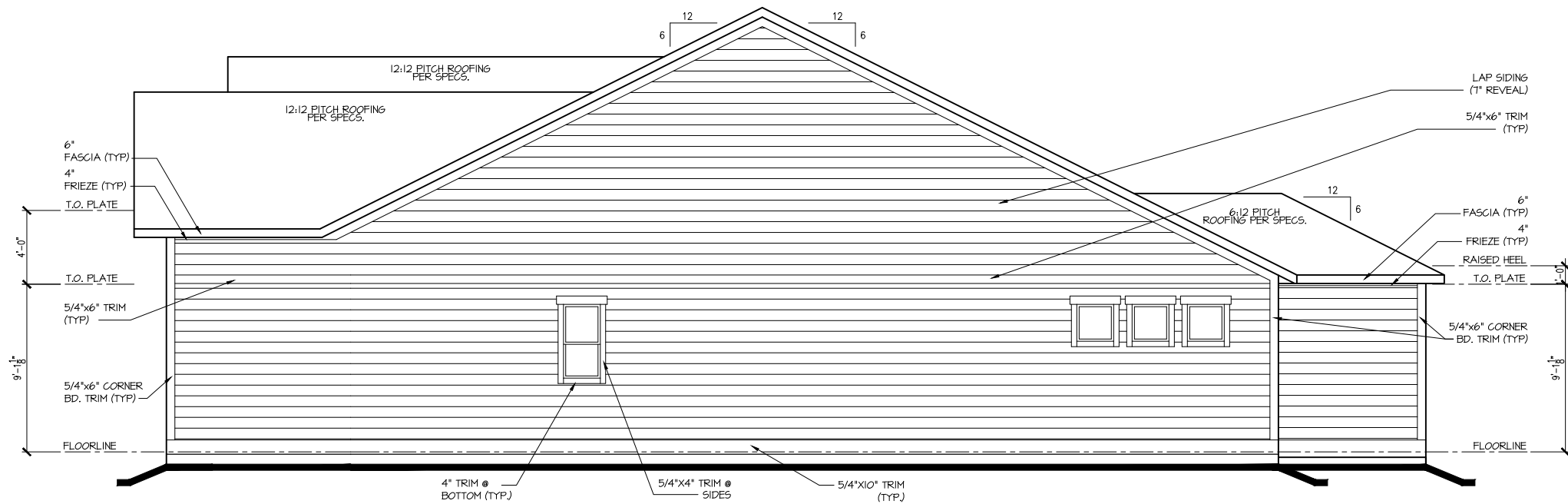
PLAN #:
5921-07

PLAN NAME:
ASPEN CREEK

SHEET #:
S1.10A

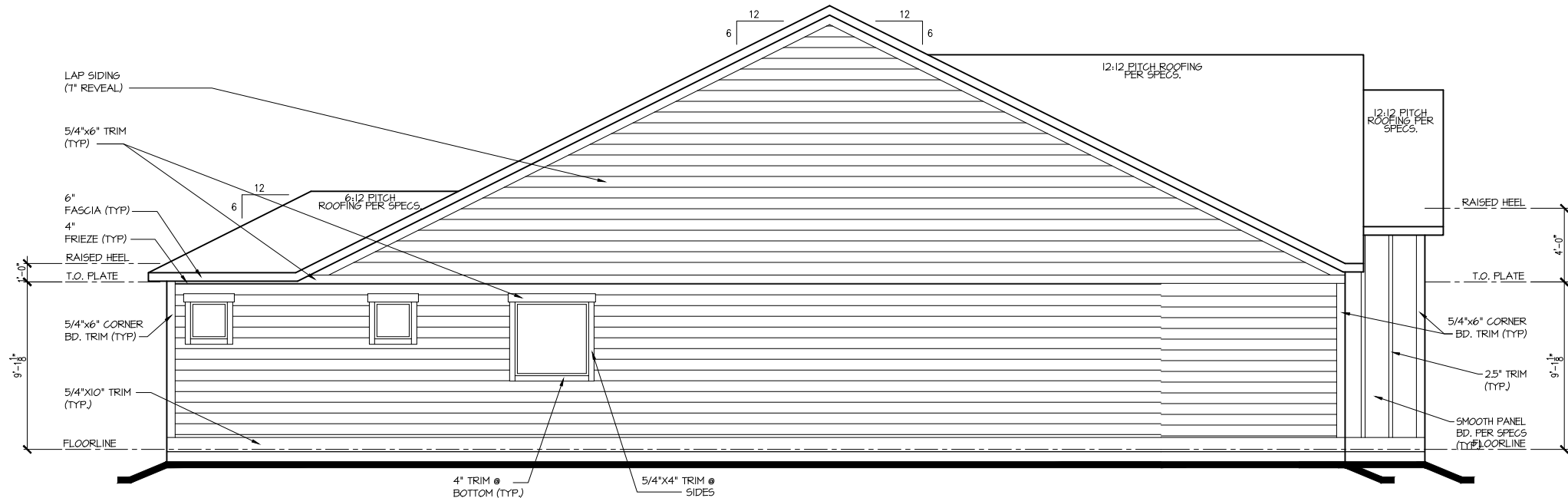
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RIGHT ELEV. "A"

1/8"=1'-0"



LEFT ELEV. "A"

1/8"=1'-0"

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EXTERIOR ELEVATIONS

SUBDIVISION: ALTIS @ SERENITY
ADDRESS: 93 SHADY CREEK WAY
LOT: 364

Issue Date: 10-01-24
Drawn By: ACC

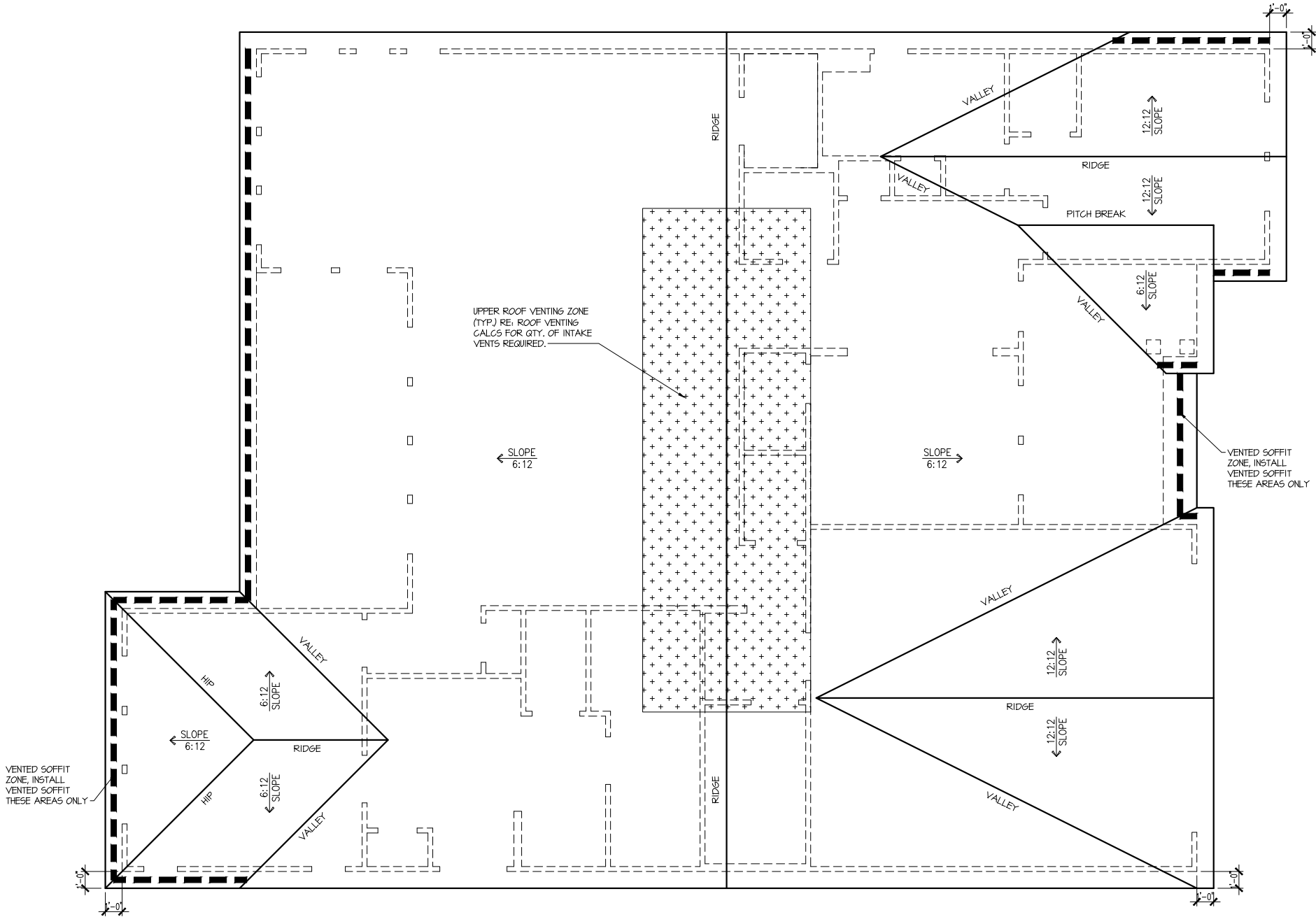
PLAN #:
5921-07

PLAN NAME:
ASPEN CREEK

SHEET #:
A2.02A

Attic Venting Calculations Elev. "A"	
ROOF INFORMATION	BASE
TOTAL SF ROOF AREA	3156
AVAILABLE L.F. ROOF SOFFIT	88
AVAILABLE L.F. ROOF RIDGE	94
VENT TYPES	QTY VENTS REQ'D
LOWER VENTS CONTINUOUS SOFFIT VENTING @ 5 S/LF	151 LF
UPPER VENTS SLANT 150 VENTS @ 150 S/VENT	5
UPPER VENTS RIDGE VENTS @ 72 S/VENT	11

NOTE:
QTY OF UPPER VENTS SHOWN COVERS 100% OF
UPPER VENTING. NO MIXING OF VENT TYPES FOR
UPPER VENTING IS FIGURED FOR IN THIS TABLE.



ROOF PLAN 'A'
SCALE: 1/8" = 1'-0"

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ROOF PLAN

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ADDRESS: 93 SHADY CREEK WAY
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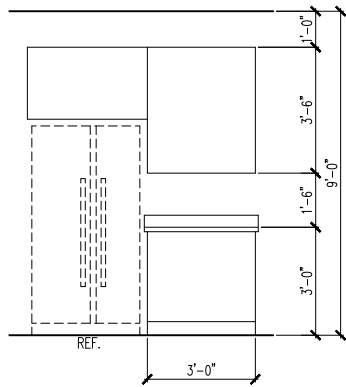
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Drawn By: ACC

PLAN #:
5921-07

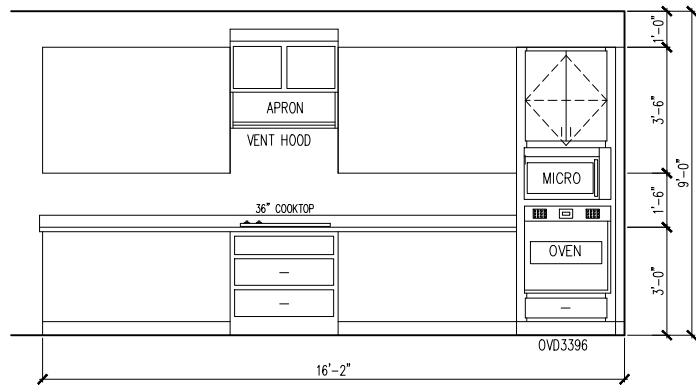
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ASPEN CREEK

SHEET #:
A3.01A

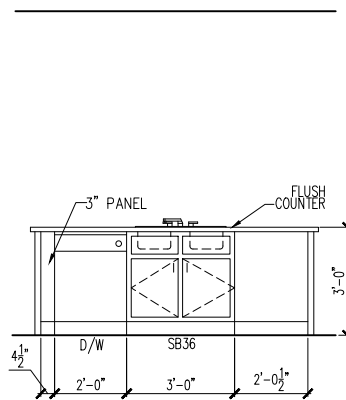
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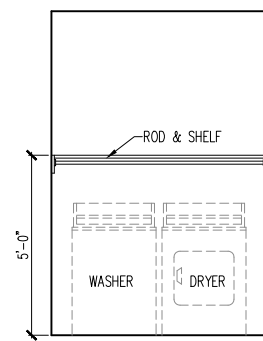
1 KITCHEN



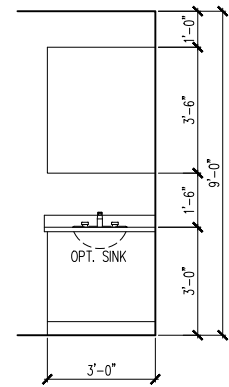
2 KITCHEN



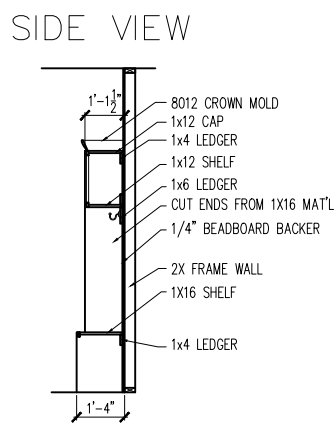
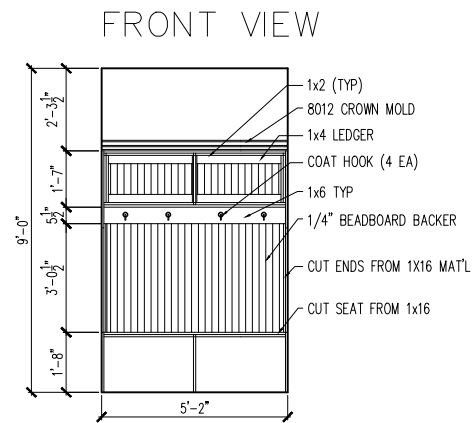
3 KITCHEN ISLAND



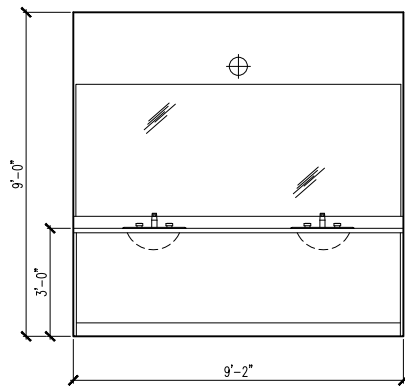
4 LAUNDRY ROOM



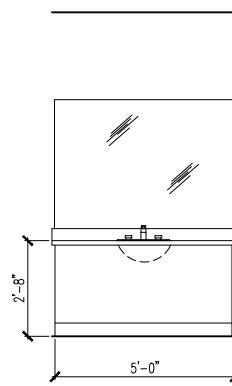
5 LAUNDRY ROOM



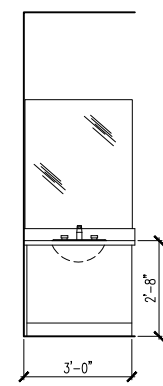
6 TYPICAL BENCH DETAIL (DROP ZONE)



7 PRIMARY BATH



8 BATH 2



9 BATH 3

INTERIOR DETAIL SHEET

SUBDIVISION: ALTIS @ SERENITY
ADDRESS: 93 SHADY CREEK WAY
LOT: 364

Issue Date: 10-01-24
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PLAN #:
5921-07

PLAN NAME:
ASPEN CREEK

SHEET #:
A4.01

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ELECTRICAL FIXTURE SCHEDULE	
DESCRIPTION	SYMBOL
110V OUTLET	⌀
220V OUTLET	⌀ 220
1/2 HOT OUTLET	⌀
GFI OUTLET	⌀ GFI
WP GFI OUTLET	⌀ WP/GFI
GARAGE DOOR OPENER OUTLET	⌀ GDO
SECURITY SYSTEM	⌀ SEC SYS
DISHWASHER	⬤ DW
JUNCTION BOX	⌀
CEILING MOUNTED LIGHT	⌀
CEILING FAN w/ LIGHT KIT	⌀ PROVIDE BRACING
RECESSED CEILING LIGHT	⌀
RECESSED WATER PROOF LIGHT	⌀ WP
WALL MOUNTED LIGHT	⌀
WALL MOUNTED PUSH BUTTON	⌀ PB
TWO WAY SWITCH	⌀
THREE WAY SWITCH	⌀
FOUR WAY SWITCH	⌀
DIMMER SWITCH	⌀ DIM
EXHAUST VENTS	⌀ VENT TO EXT
LOW VOLTAGE PANEL	⌀
PHONE OUTLET	⌀ PH
TV OUTLET	⌀ TV
DATA & RG6 COMBO BOX	⌀
SMOKE DETECTOR	⌀
CARBON MONOXIDE SMOKE DETECTOR COMBO	⌀ CM/SD
DOOR CHIMES	CHIMES
ELECTRICAL PANEL	⌀ EP
SURFACE MOUNT LED	⌀
EXTERIOR WALL MOUNT UPLIGHT	⌀
SOFFIT MOUNT FLOOD LIGHT	⌀
UNDER COUNTER LIGHTING	⌀ UCL
SMURF TUBE

ELECTRICAL NOTES:

1.

PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE AND CARBON MONOXIDE DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES
2.

PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRIC CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
3.

ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS.
4.

HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.
5.

ALL ELECTRICAL AND MECHANICAL EQUIPMENT (I.E. FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS, DRAIN TILE SUMP, AND WATER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS.
- ELECTRICAL DEVICES:

ABOVE FINISHED FLOOR:

SWITCHES OVER COUNTER. 48". TO CL

WALL OUTLETS OVER COUNTER.

+42" TO BOTTOM OF HORIZONTAL OUTLET(TYP. @ COUNTER)

REMAINING SWITCHES. 48". TO CL

WALL OUTLETS. 12". TO CL . . .

BATH VANITY BRACKET OUTLET. 1.2

(1" ABOVE TOP OF VANITY)

WATER SOFTENER AND SUMP OUTLETS. . . . 48" TO CL

EXTERIOR GFI OUTLETS. 12". TO CL

GARAGE GFI (ABOVE GARAGE FLOOR). . . . 48" TO CL

FRONT DOOR COACH LIGHT. 80". TO CL

GARAGE DOOR COACH LIGHT. 84". TO CL

(ABOVE GARAGE FLOOR).

THERMOSTAT. 54". TO CL . . .

DOORBELL CHIMES. 84". TO CL

LEVEL W/ DR HANDLE

DOORBELL BUTTON.

KITCHEN HOOD FAN "WHIP". 66". TO CL

KITCHEN WALL HUNG MICROWAVE OUTLET . . . 72". TO CL

KITCHEN DISHWASHER RECEPTACLE. UNDER SINK

KITCHEN RANGE. 24". TO CL . . .

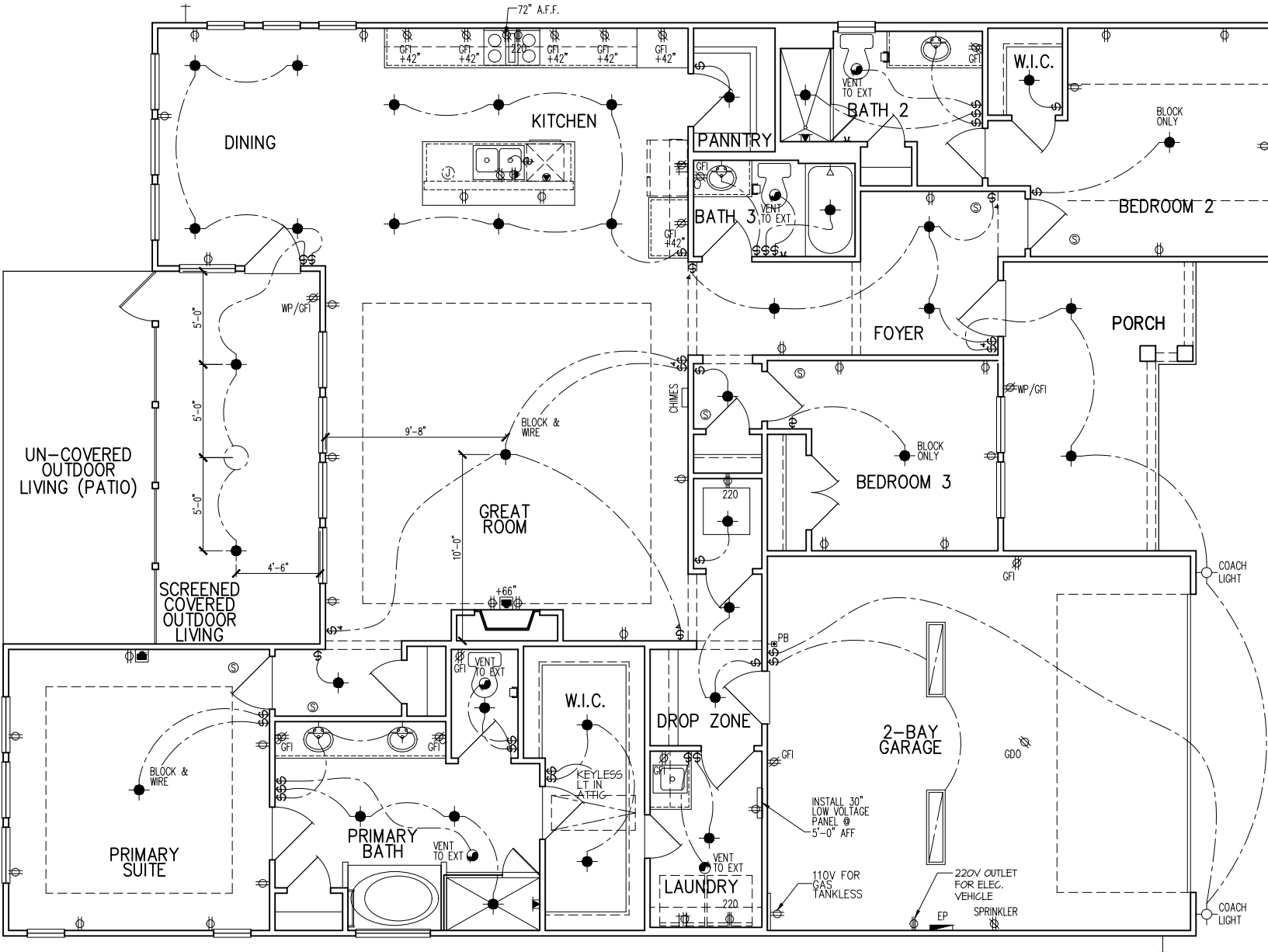
KITCHEN REFRIGERATOR. 48". TO CL

WASHER/DRYER OUTLET. 48". TO CL

CL = CENTER LINE

1 = FIELD VERIFY

2 = MASTER BATH STANDARD 30" HIGH VANITY TO BE RAISED 4"



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1st FLOOR ELECTRICAL PLAN

SUBDIVISION: ALTIS @ SERENITY
ADDRESS: 93 SHADY CREEK WAY
LOT: 364

Issue Date: 10-01-24
Drawn By: ACC

PLAN #:
5921-07

PLAN NAME:
ASPEN CREEK

SHEET #:
E1.10A

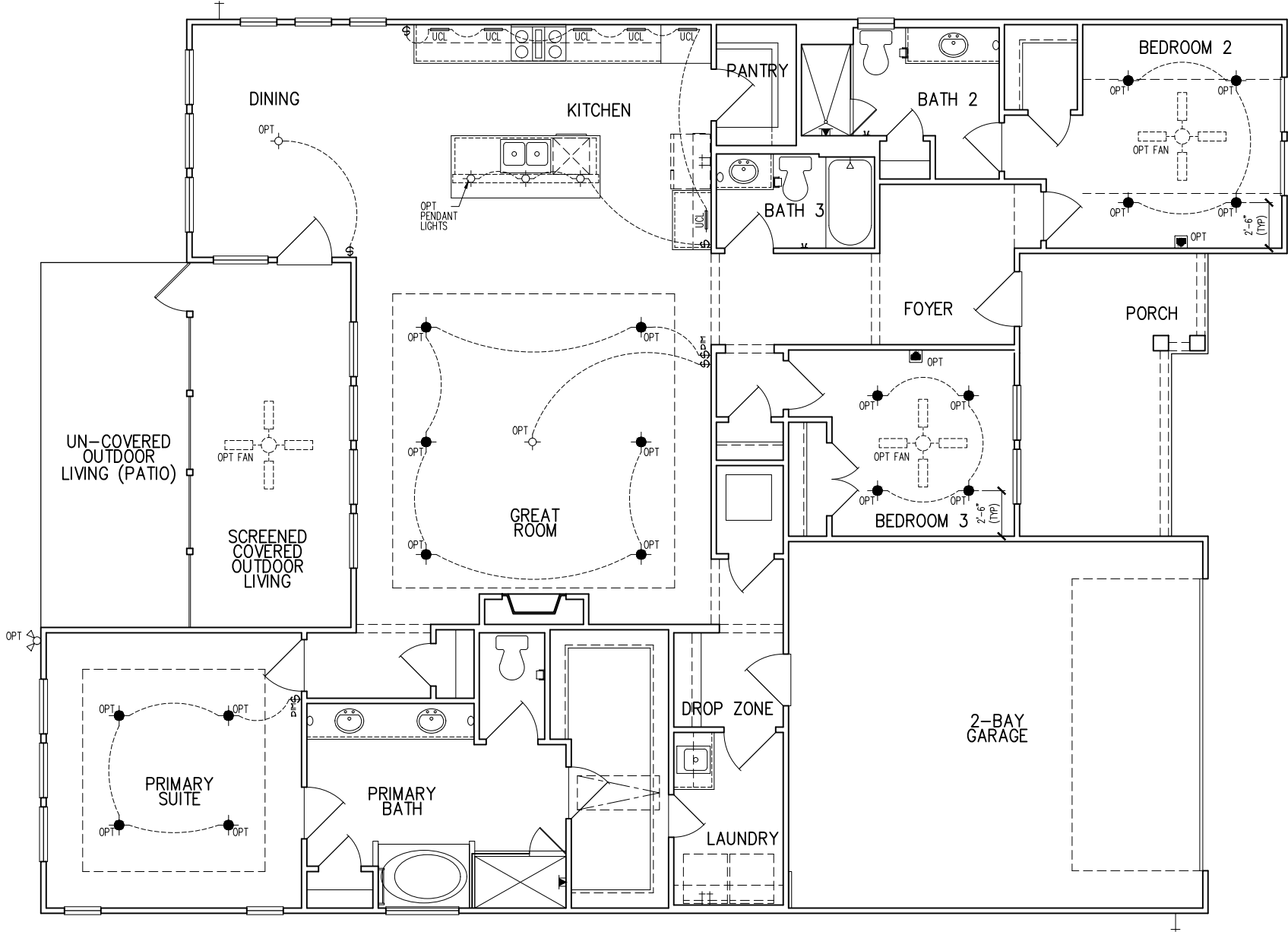
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JUNCTION BOX	⌀
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CEILING FAN w/ LIGHT KIT	⌀ PROVIDE BRACING
RECESSED CEILING LIGHT	⌀
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WALL MOUNTED LIGHT	⌀
WALL MOUNTED PUSH BUTTON	⌀ PB
TWO WAY SWITCH	⌀
THREE WAY SWITCH	⌀
FOUR WAY SWITCH	⌀
DIMMER SWITCH	⌀ DIM
EXHAUST VENTS	⌀ VENT TO EXT
LOW VOLTAGE PANEL	⌀
PHONE OUTLET	⌀ PH
TV OUTLET	⌀ TV
DATA & RG6 COMBO BOX	⌀
SMOKE DETECTOR	⌀
CARBON MONOXIDE SMOKE DETECTOR COMBO	⌀ CM/SD
DOOR CHIMES	CHIMES
ELECTRICAL PANEL	⌀ EP
SURFACE MOUNT LED	⌀
EXTERIOR WALL MOUNT UP LIGHT	⌀
SOFFIT MOUNT FLOOD LIGHT	⌀
UNDER COUNTER LIGHTING	⌀ UCL
SMURF TUBE	⌀

ELECTRICAL NOTES:

1. PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE AND CARBON MONOXIDE DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES
2. PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRIC CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
3. ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS.
4. HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.
5. ALL ELECTRICAL AND MECHANICAL EQUIPMENT (I.E. FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS, DRAIN TILE SUMP, AND WATER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS.

ELECTRICAL DEVICES: ABOVE FINISHED FLOOR:
SWITCHES OVER COUNTER. 48" TO CL
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KITCHEN DISHWASHER RECEPTACLE. UNDER SINK
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KITCHEN REFRIGERATOR. 48" TO CL
WASHER/DRYER OUTLET. 48" TO CL

CL = CENTER LINE
1 = FIELD VERIFY
2 = MASTER BATH STANDARD 30" HIGH VANITY TO BE RAISED 4"



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1st FLOOR ELEC. PLAN - OPITONS

SUBDIVISION: ALTIS @ SERENITY
ADDRESS: 93 SHADY CREEK WAY
LOT: 364

Issue Date: 10-01-24
Drawn By: ACC

PLAN #:
5921-07

PLAN NAME:
ASPEN CREEK

SHEET #:
E1.11A

GENERAL STRUCTURAL NOTES
FLOOR FRAMING
<ul style="list-style-type: none">• I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES STONE/MARBLE OR NET BED CONSTRUCTED FLOORS - CONTACT MKK FOR EXCLUDED FLOOR DESIGNS)• PER THE GUIDELINES OF THE TILE COUNCIL OF NORTH AMERICA (TCNA HANDBOOK), IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO VERIFY THAT THE FINISHES TO BE INSTALLED MATCH THE DESIGN CRITERIA NOTED ABOVE (UNDER "DESIGN LOADS").• FLOOR SYSTEMS & SHEATHING HAVE BEEN DESIGNED TO SUPPORT ADDITIONAL DEAD LOAD FROM CERAMIC TILE (EXCLUDING MARBLE OR STONE). HOWEVER, IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO PROVIDE PROPER UNDERLAYMENT, UNCOUPLING MEMBRANE AND MORTAR/GROUT PER THE ASSEMBLY DESIGNATIONS IN THE TCNA HANDBOOK (TILE COUNCIL OF NORTH AMERICA).• AT I-JOIST FLOORS, PROVIDE 1 1/8" MIN. OSB RIM BOARD.• METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.• I-JOIST/TRUSS SHOP DWGS. SHALL BE SUBMITTED TO ARCH. & ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.• FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C. EXPOSURE 1 (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W/ GLUE AND:<ul style="list-style-type: none">- 2 1/2" x 0.131" NAILS @ 6" O.C. @ PANEL EDGES @ 12" O.C. FIELD.- 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES @ 8" O.C. FIELD.- 2 3/8" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES @ 6" O.C. IN FIELD.
ROOF FRAMING
<ul style="list-style-type: none">• ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE 1 (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS - W/ 2 1/2" x 0.131" NAILS @ 6" O.C. @ PANEL EDGES @ 12" O.C. FIELD. - W/ 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES @ 8" O.C. FIELD. - W/ 2 3/8" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES @ 6" O.C. FIELD.• WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIPs FASTEN ROOF SHEATHING FIELDS PER EDGE NAILING SPEC.• FASTEN EACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H2.5T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H2.5T CLIPS AT 2-PLY GIRDER TRUSSES, (3) H2.5T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS.• METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.• ROOF TRUSS SHOP DWGS. SHALL BE SUBMITTED TO ARCH. & ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.• ERECT AND INSTALL ROOF TRUSSES PER ITCA & TP1'S BC51 I "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."• SUPPORT SHORT SPAN ROOF TRUSSES W/2x4 LEDGER FASTENED TO FRAMING W/(2) 3" x 0.120" NAILS @ 16" O.C. (UP TO 1" SPAN).

MMK STD. - MAR 2016

CONNECTION SPECIFICATIONS (TYP. U.N.O.)

DESCRIPTION OF BLDG. ELEMENT	3"x0.131" NAILS	3"x0.120" NAILS
JOIST TO SOLE PLATE SOLE PL. TO JOIST/RIM OR BLK'G STUD TO PLATE	(3) TOENAILS NAILS @ 4" O.C. (4) TOENAILS/ (3)END NAILS	(3) TOENAILS* NAILS @ 4" O.C. (4) TOENAILS/ (4)END NAILS*
RIM TO TOP PLATE BLK'G, BTWN. JOISTS TO TOP PL.	TOENAILS @ 6" O.C. (3) TOENAILS EA. END	TOENAILS @ 4" O.C.* (3) TOENAILS EA. END*
DOUBLE STUD	NAILS @ 16" O.C.	NAILS @ 16" O.C.
DOUBLE TOP PLATE	NAILS @ 12" O.C.	NAILS @ 8" O.C.
DOUBLE TOP PLATE LAP SPLICE (24" MIN.)	(12) NAILS IN LAPPED AREA (3) NAILS	(15) NAILS IN LAPPED AREA (3) NAILS
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(3) NAILS	(3) NAILS
RAFTER/TRUSS TO TOP PLATE	(4) TOENAILS + (1) SIMPSON H2.5T TOENAILS @ 8" O.C.	(4) TOENAILS + (1) SIMPSON H2.5T TOENAILS @ 6" O.C.
GAB. END TRUSS TO DBL. TOP PL. R.T. w/ HEEL HT. 9 1/4" TO 12"	2x10 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W/ TOENAILS @ 6" O.C.	2x10 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. 12" TO 16"	2x12 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W/ TOENAILS @ 6" O.C.	2x12 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. UP TO 24"	LAP WALL SHTG. W/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN W/ NAILS @ 6" O.C.	LAP WALL SHTG. W/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN W/ NAILS @ 6" O.C.*
R.T. w/ HEEL HT. 24" TO 48"	LAP WALL SHTG. W/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN W/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL	LAP WALL SHTG. W/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN W/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL.*
WALL TO FOUNDATION	WALL SHTG. LAP W/ SILL PL. & FASTENED PER SHEAR WALL FASTENING SPEC.	

* 2 1/2"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. (ONLY ACCEPTABLE WHERE * ARE SHOWN)

GENERAL STRUCTURAL NOTES
DESIGN LOADING
<ul style="list-style-type: none">• DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.• WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.• DESIGN LOADS:<ul style="list-style-type: none">ROOF SNOW = 15 PSF (12 PSF GROUND SNOW, TRUSSES) LIVE = 20 PSF (REDUCIBLE BASED ON ROOF PITCH) DEAD = 1 PSF T.C., 10 PSF B.C. LOAD DURATION FACTOR = 1.25FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (1-JOISTS), 15 PSF (FLOOR TRUSSES) ADDL 10 PSF @ CERAMIC TILE IN KITCHEN, SUNROOMS, BATHS, FOYER, LAUND. & MUDRM'SSOIL 2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)WIND 115 MPH, EXPOSURE B

GENERAL FRAMING

- ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE (IRC TABLE R602.3(1)) OR ON PLANS. ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- EXT. & INT. BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. SPP/SP #2 GRADE LUMBER, OR BETTER, U.N.O..
 - WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL INTERIOR BEARING WALLS ARE ASSUMED TO BE SHEATHED W/ GYP WALL BOARD (ONE SIDE MIN.) OR PROVIDE MID HT. BLOCKING.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SP) LUMBER, OR BETTER. SUPPORT ALL HEADERS/ BEAMS W/ (1)2x JACK STUD & (1)2x KING STUD, MINIMUM.
 - THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O..
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x STUD/ GRADE MEMBERS SPACED @ 24" O.C. (MAX., U.N.O.)
 - HEADERS IN NON-LOAD BEARING WALLS SHALL BE: (1)2x4/6 FLAT @ OPENINGS UP TO 4'; (2)2x4/6 FLAT UP TO 8'.
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:
 - 'LVL' - Fb=2600 psi; Fv=285 psi; E=2.0x10⁶ psi
- ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING:
 - 'LVL' - Fb=2400 psi; FcII=2500 psi; E=1.8x10⁶ psi
- FOR 2 & 3 PLY BEAMS OF EQUAL 1 3/4" MAX. WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS 1/2"x3/8" SIMPSON SDS SCREWS (OR 3/4" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3 1/2" OR 5 1/4" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 & 2x8 MEMBERS.
- FOR 4 PLY BEAMS OF EQUAL 1 3/4" MAX. WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 1/2"x6" SIMPSON SDS SCREWS (OR 6 3/4" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREWS 2" FROM EDGE. A SOLID 1" BEAM IS ACCEPTABLE.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND/BEARINGS. BLOCKING TO MATCH POST ABOVE.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BC52-2/4 CAP & ABW44 BASE, U.N.O.
- CORROSION NOTES:
 - BUILDER RESPONSIBLE TO DETERMINE CORROSION-RESISTANCE REQUIREMENTS AND COMPATIBILITY OF HARDWARE, FASTENERS AND CONNECTORS FOR ENVIRONMENTAL EXPOSURE AND IN CONTACT W/ PRESERVATIVE-TREATED WOOD OF ACTUAL FINAL CONDITIONS AND SOURCED MATERIALS. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- FOOTING DESIGN - 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2x4/6 SILL PLATES TO CONC FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING:
 - 1/2" DIA. ANCHOR BOLTS @ 6'-0" O.C." MIN. EMBEDMENT
 - 1/2" DIA. x 6" LONG SIMPSON TITEN HD @ 6'-0" O.C.
 - SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONCRETE)
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ PERIMETER FOUNDATION SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- FOOTINGS SHALL BE PLAIN CONCRETE, U.N.O.
- CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:
 - Fc = 3,000 psi: FOOTINGS & INTERIOR SLABS ON GRADE 3,500 psi: GARAGE & EXTERIOR SLABS ON GRADE fy = 60,000 psi

- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 1% AIR ENTRAINMENT.
- ALL FOOTINGS SHALL BEAR BELOW FROST LINE (TYP.) OR 12" MIN IN REGIONS WHERE CODE FROST DEPTH IS NOT APPLICABLE. CONSULT SOILS REPORT OR BUILDING DEPT. FOR MINIMUM DEPTH BELOW GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.
 - JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-0" O.C. (MAXIMUM)
 - JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIO
 - CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SLABS
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.

MMK STD. - MAY 2002

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENTS IN CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO: FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY, OR WARRANTY TOLERANCES.

VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L3"x3"x1/4"
6'-0"	3 FT. MAX	L3"x3"x1/4"
	12 FT. MAX	L4"x3"x1/4"
8'-0"	20 FT. MAX	L5"x3 1/2"x3/8"
	12 FT. MAX	L4"x4"x1/4" **
9'-6"	12 FT. MAX	L5"x3 1/2"x3/8"
	16 FT. MAX	L6"x3 1/2"x3/8"
9'-6"	12 FT. MAX	L6"x3 1/2"x3/8"
16'-0"	2 FT. MAX	L7"x4"x1/2" **
	3 FT. MAX	L8"x4"x1/2" **

ALL LINTELS:
- SHALL SUPPORT 2 3/8" - 3 1/2" VENEER W/ 40 psf MAXIMUM HEIGHT.
- 16" SHALL HAVE 4" MIN BEARING
- 16" SHALL HAVE 8" MIN BEARING
- 16" SHALL NOT BE FASTENED BACK TO HEADER
- 16" SHALL BE FASTENED BACK TO WOOD HEADER IN WALL @ 48" O.C. W/ 1/2" DIA. x 3 1/2" LONG LAG SCREWS IN 2" LONG VERTICALLY SLOTTED HOLES.
- MAX. VENEER HT. APPLIES TO ANY PORTION OF BRICK OVER THE OPENING.
- ALL LINTELS SHALL BE LONG LESS VERTICAL
- WHEN SUPPORTING VENEER < 3" WIDE THE EXTERIOR TOE OF THE HORIZONTAL LEG MAY BE CUT IN THE FIELD TO BE 3 1/2" WIDE OVER THE BEARING LENGTH ONLY. THIS IS TO ALLOW FOR MORTAR JOINT FINISHING.
- SEE STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT ENCOMPASSED BY THE ABOVE PARAMETERS.
** FOR GREEN VENEER USE 1 1/2"x4 1/2".
** FOR 3 1/2" VENEER ONLY, SEE PLAN FOR VENEER SUPPORT IF VENEER < 3 1/2" THICK.

MMK STD. - MAY 2016

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN. MULHERN & KULP CANNOT BE HELD RESPONSIBLE FOR ANY STRUCTURAL ISSUES RELATED TO ANY BUILDING COMPONENT IF COMPONENT SHOP DRAWINGS ARE NOT SUBMITTED TO MKK FOR REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.

TRUSSES/JOISTS SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUSH BEAMS DO NOT EXCEED THE FOLLOWING:
A. ROOF TRUSSES:
1/4" DEAD LOAD
B. FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:
1/8" DEAD LOAD
ABSOLUTE DEAD LOAD DEFLECTION OF FLOOR TRUSSES/ATTIC TRUSSES WHEN ADJACENT TO FLOOR FRAMING BY OTHERS SHALL BE LIMITED TO 3/16". (NOT DIFFERENTIAL DEFLECTION)

FLOOR JOIST NOTES

- ALL FLOOR JOISTS SHALL BE THE DEPTH SPECIFIED ON PLAN
- FLOOR JOISTS SERIES & SPACING IS PER THE FLOOR JOIST MANUF.
 - SPACING SHALL NOT EXCEED 19.2" O.C. (MAX.)
 - @ LOCATION OF TILE, SPACING SHALL NOT EXCEED 16" O.C. (MAX.)

LATERAL/WALL BRACING & WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:
115 MPH WIND IN 2018 NCSEBG:RC
(115 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10, AS PERMITTED BY R301.1.3 OF THE 2018 NCSEBG:RC. ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSEBG:RC SECTION R802.11.1.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5 & R802.11.

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD:
FASTEN SHEATHING W/ 2 3/8"x0.113 NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD. (TYP, U.N.O.)
- ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE FASTENING.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1 3/4" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C. IN FIELD.

3" O.C. EDGE NAILING

- AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W/ 2 3/8" x 0.113" NAILS @ 3" O.C. AND 12" O.C. IN THE PANEL FIELD NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUD) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

TYP. UNIT SEPARATION WALL SHEATHING SPECIFICATION

- 1/2" OR 5/8" GYPSUM WALL BOARD:
FASTEN GWB SHEATHING TO FRAMING W/ 1 5/8"x0.086" COOLER NAILS OR 1 1/4" DRYWALL SCREWS @ 1" O.C. TO PANEL EDGES & PANEL FIELD (INCLUDING T&B PLATES).

NOTES

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C. MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.
- PRE-MANUFACTURED PANELIZED WALLS:
FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

--- INDICATES EXTENT OF INT. OSB SHEARWALL, BLOCKED PANEL EDGES, AND/OR 3" O.C. EDGE NAILING
▶ INDICATES HOLDOWN

MMK STD. - MAR 2016



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Mulhern+Kulp project number:

243-24033

project mgr: SMK
drawn by: KMV
issue date: 08-16-2024

REVISIONS:
date: initial:
11/08/2024 SMK
UPDATED MODEL NAME, OPT. EXT. COVD. PORCH
4/28/2025 FC
MISC. ARCH. UPDATE

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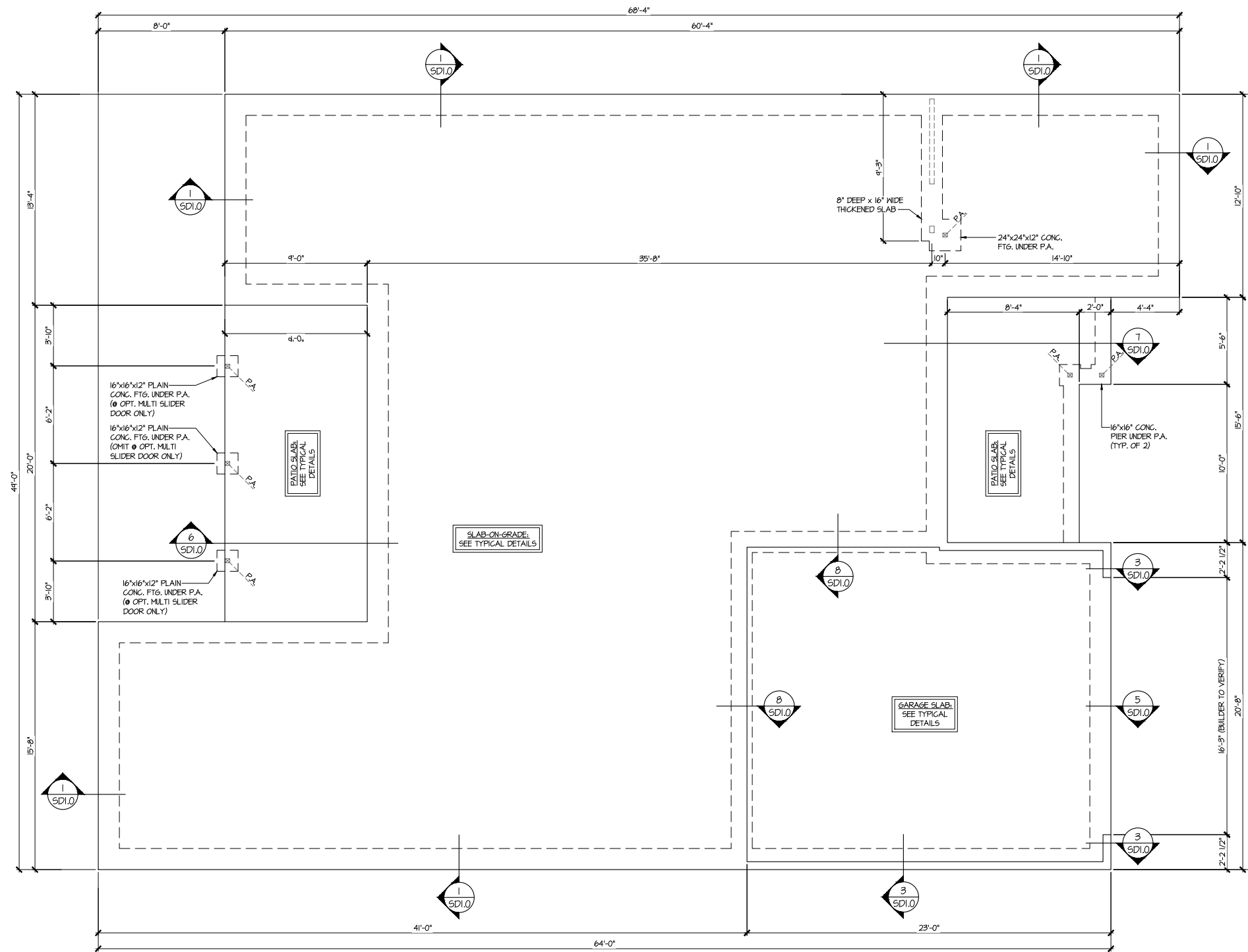
GENERAL NOTES

5921-07 MODEL

SERENITY
MASTER SET
RALEIGH, NC

sheet:

S0.0



SLAB FOUNDATION PLAN
SCALE: 1/4"=1'-0" (22x24 SHEET)
1/8"=1'-0" (11x17 SHEET)
ELEV. A

LEGEND

- INTERIOR BEARING WALL
- BEARING WALL ABOVE (B.W.A.)
- BEAM / HEADER
- INDICATES EXTENT OF INT. OSB SHEARWALL AND/OR 3" O.C. EDGE NAILING
- EXTENT OF VALLEY TRUSS OVERFRAMING @ 24" O.C. (MAX.)
- EXTENT OF FLOOR SYSTEM TO BE DESIGNED FOR TILE
- INDICATES HOLDDOWN
- METAL HANGER
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

REFER TO S.O. FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES

seal:

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Mulhern+Kulp project number:
243-24033

project mgr: **SMK**
drawn by: **KMV**
issue date: **08-16-2024**

REVISIONS:

date:	initial:
11/08/2024	SMK
4/28/2025	FC
MSG. ARCH. UPDATE	

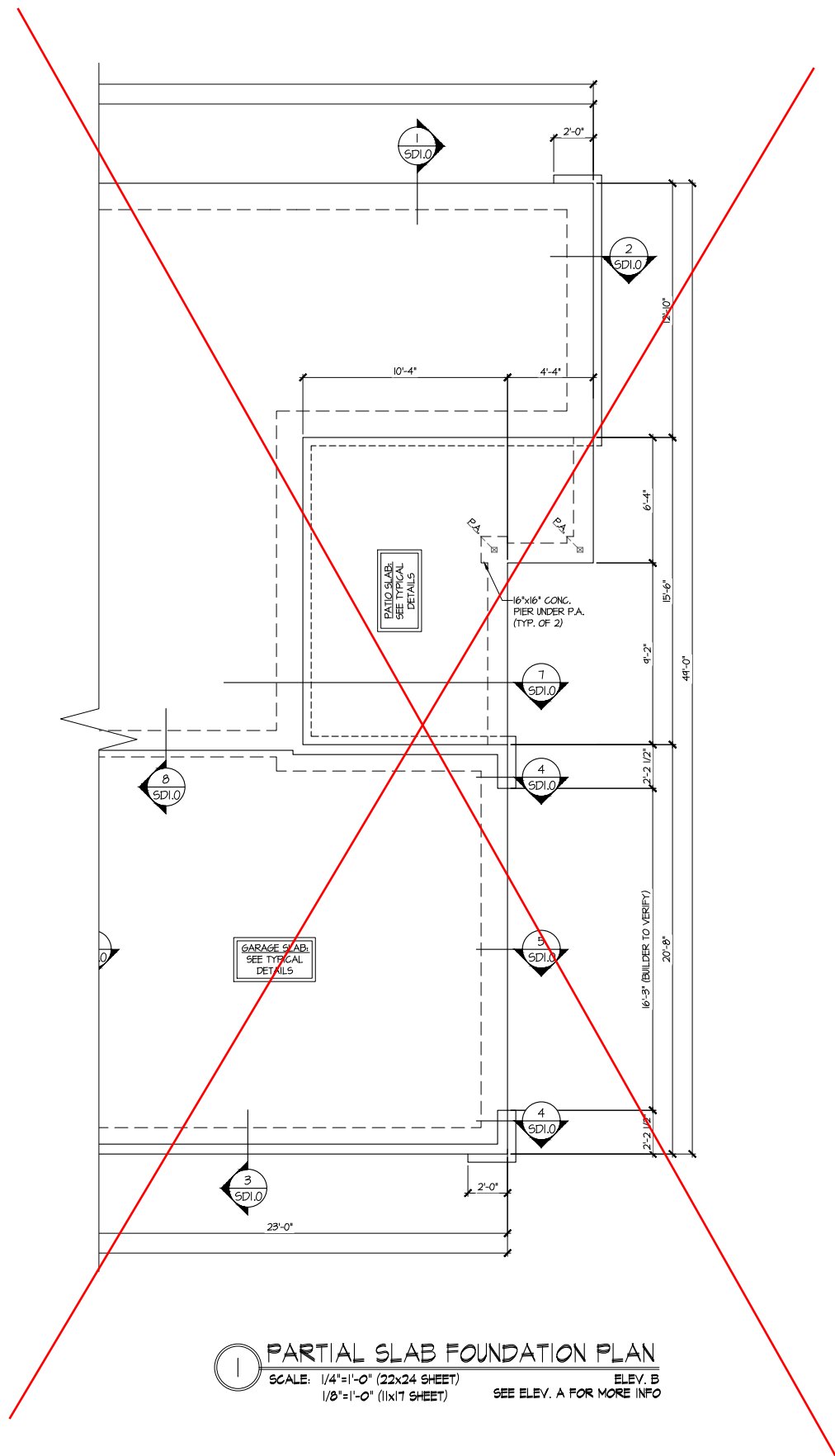
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FOUNDATION PLAN

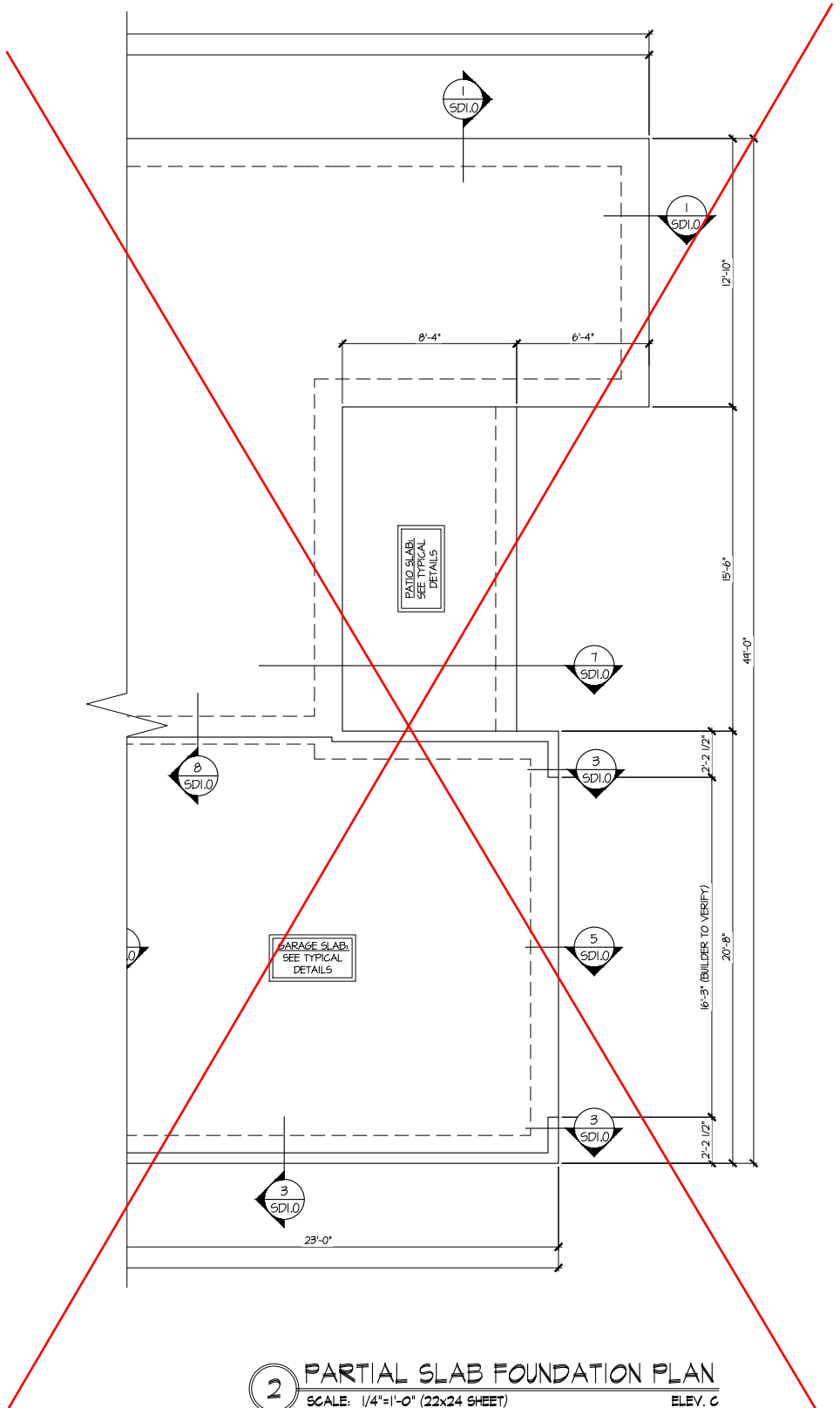
5921-07 MODEL

SERENITY
MASTER SET
RALEIGH, NC

sheet:
S1.0



1 PARTIAL SLAB FOUNDATION PLAN
SCALE: 1/4"=1'-0" (22x24 SHEET)
1/8"=1'-0" (11x17 SHEET)
ELEV. B
SEE ELEV. A FOR MORE INFO



2 PARTIAL SLAB FOUNDATION PLAN
SCALE: 1/4"=1'-0" (22x24 SHEET)
1/8"=1'-0" (11x17 SHEET)
ELEV. C
SEE ELEV. A FOR MORE INFO

REFER TO S.O. FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES

LEGEND	
•	INTERIOR BEARING WALL
•	BEARING WALL ABOVE (B.W.A.)
•	BEAM / HEADER
•	INDICATES EXTENT OF INT. OSB SHEARWALL AND/OR 3" O.C. EDGE NAILING
•	EXTENT OF VALLEY TRUSS OVERFRAMING @ 24" O.C. (MAX)
•	EXTENT OF FLOOR SYSTEM TO BE DESIGNED FOR TILE
▶	INDICATES HOLDDOWN
⌈	METAL HANGER
*	INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

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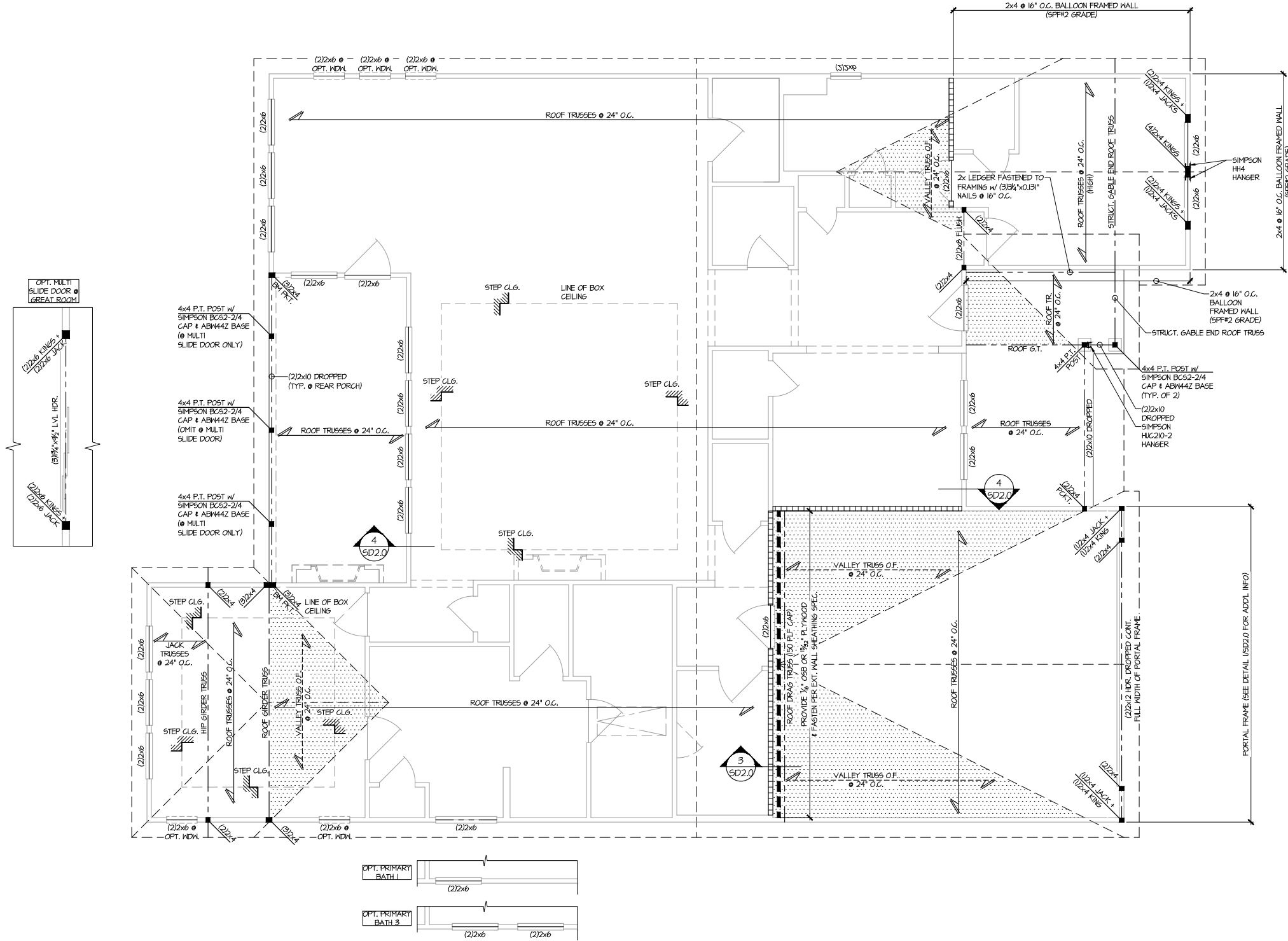
project mgr: SMK
drawn by: KMV
issue date: 08-16-2024

REVISIONS:
date: 11/08/2024 initial: SMK
updated model name, opt, ext, cov'd, porch
4/28/2025 FC
misc. arch. update

FOUNDATION PLAN

5921-07 MODEL
SERENITY
MASTER SET
RALEIGH, NC

sheet:
S1.1



1 ROOF FRAMING PLAN
SCALE: 1/4"=1'-0" (22x24 SHEET)
1/8"=1'-0" (11x17 SHEET)
ELEV. A

THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT

REFER TO S0.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

LEGEND

- INTERIOR BEARING WALL
- BEARING WALL ABOVE (B.W.A.)
- BEAM / HEADER
- INDICATES EXTENT OF INT. OSB SHEARWALL AND/OR 3" O.C. EDGE NAILING
- EXTENT OF VALLEY TRUSS OVERFRAMING @ 24" O.C. (MAX.)
- EXTENT OF FLOOR SYSTEM TO BE DESIGNED FOR TILE
- INDICATES HOLDDOWN
- METAL HANGER
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

seal:

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REVISIONS:

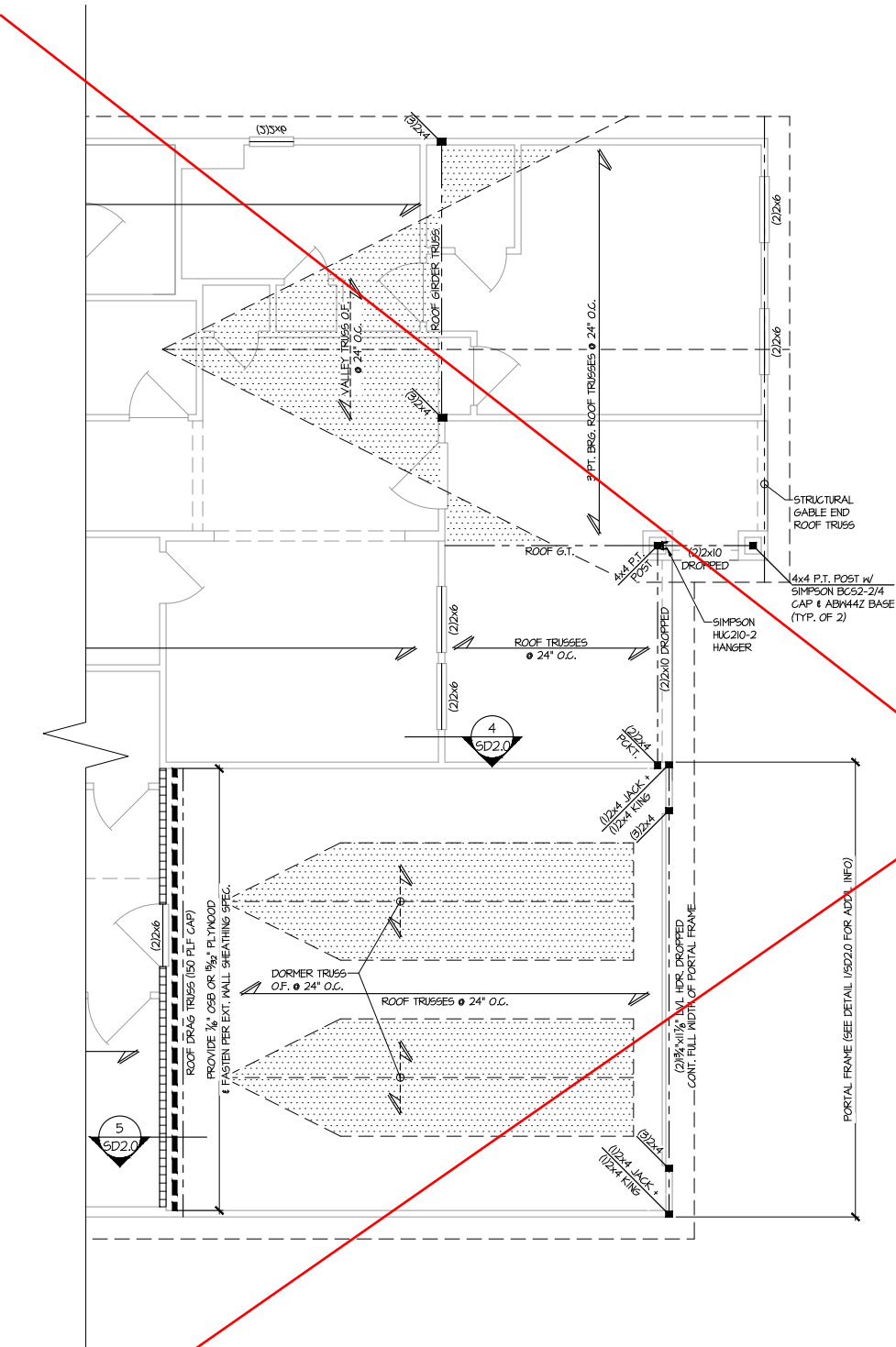
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11/08/2024	SMK
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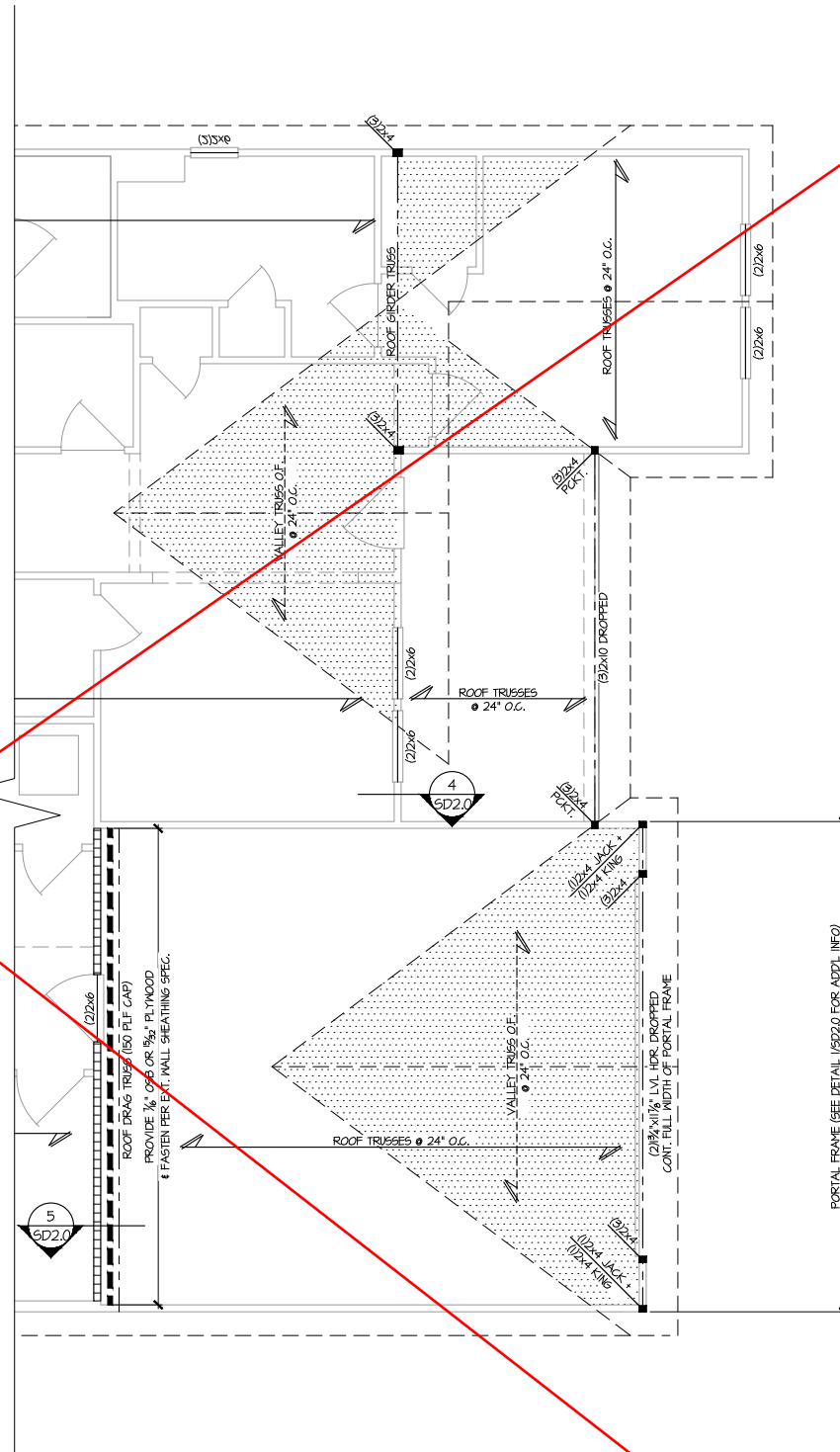
ROOF FRAMING PLAN

5921-07 MODEL
SERENITY
MASTER SET
RALEIGH, NC

sheet:
S2.0



1 PARTIAL ROOF FRAMING PLAN
 SCALE: 1/4"=1'-0" (22x24 SHEET)
 1/8"=1'-0" (11x17 SHEET)
 SEE ELEV. A FOR MORE INFO
 ELEV. B



2 PARTIAL ROOF FRAMING PLAN
 SCALE: 1/4"=1'-0" (22x24 SHEET)
 1/8"=1'-0" (11x17 SHEET)
 SEE ELEV. A FOR MORE INFO
 ELEV. C

THIS LEVEL HAS BEEN DESIGNED
 FOR 9'-1" PLATE HEIGHT

REFER TO S.O. FOR
 TYPICAL STRUCTURAL NOTES
 & SCHEDULES

LEGEND	
•	INTERIOR BEARING WALL
•	BEARING WALL ABOVE (B.W.A.)
•	BEAM / HEADER
•	INDICATES EXTENT OF INT. OSB SHEARWALL AND/OR 3" O.C. EDGE NAILING
•	EXTENT OF VALLEY TRUSS OVERFRAMING @ 24" O.C. (MAX.)
•	EXTENT OF FLOOR SYSTEM TO BE DESIGNED FOR TILE
▶	INDICATES HOLDDOWN
HL	METAL HANGER
*	INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

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project mgr: **SMK**
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REVISIONS:

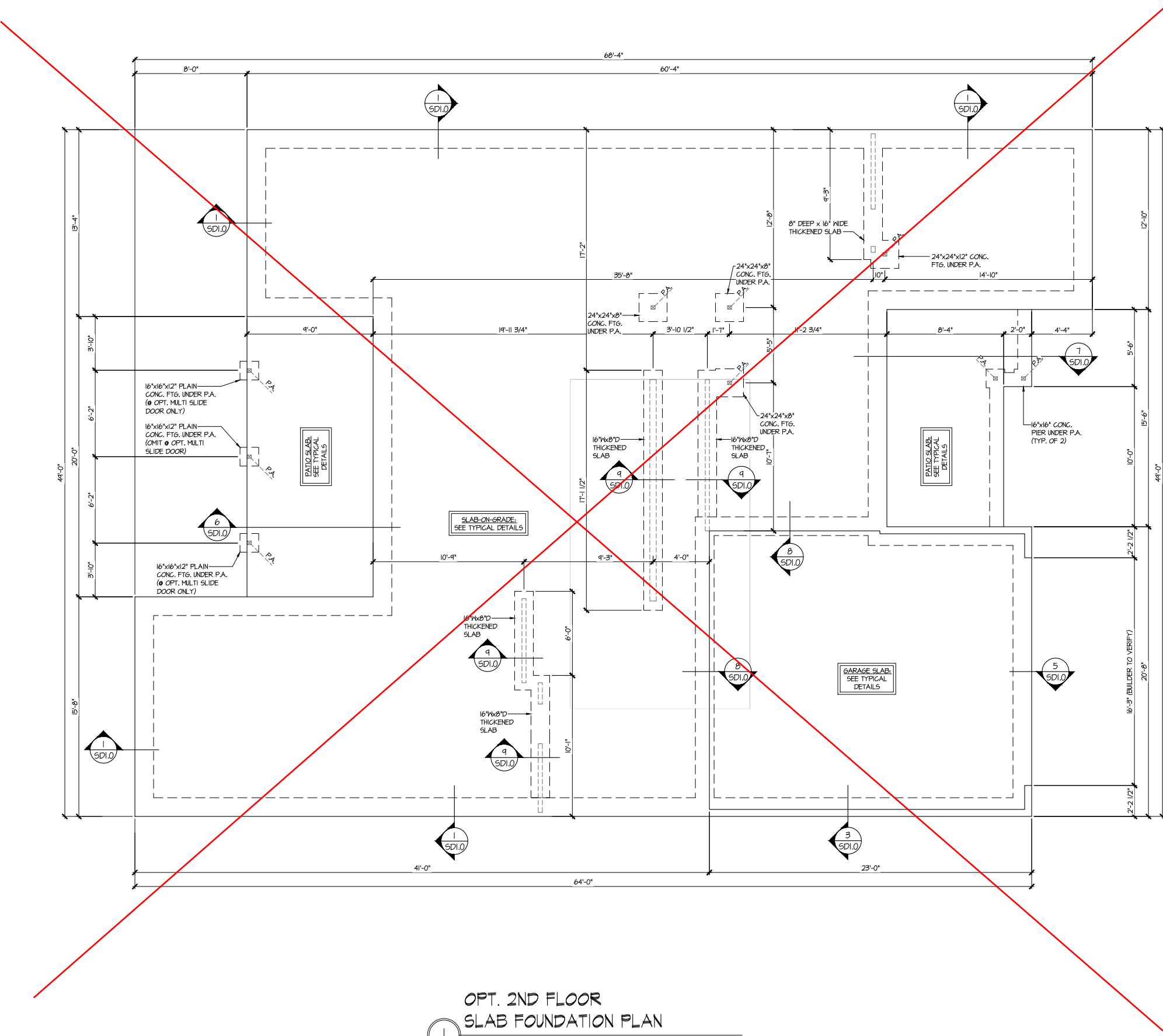
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ROOF FRAMING PLAN

5921-07 MODEL

SERENITY
 MASTER SET
 RALEIGH, NC

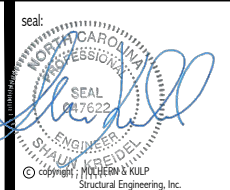
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OPT. 2ND FLOOR
SLAB FOUNDATION PLAN
SCALE: 1/4"=1'-0" (22x24 SHEET)
1/8"=1'-0" (11x17 SHEET)
ELEV. A

- LEGEND
- INTERIOR BEARING WALL
 - BEARING WALL ABOVE (B.W.A.)
 - BEAM / HEADER
 - INDICATES EXTENT OF INT. OSB SHEARWALL AND/OR 3" O.C. EDGE NAILING
 - EXTENT OF VALLEY TRUSS OVERFRAMING @ 24" O.C. (MAX.)
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 - INDICATES HOLDDOWN
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 - INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

REFER TO S.O. FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES



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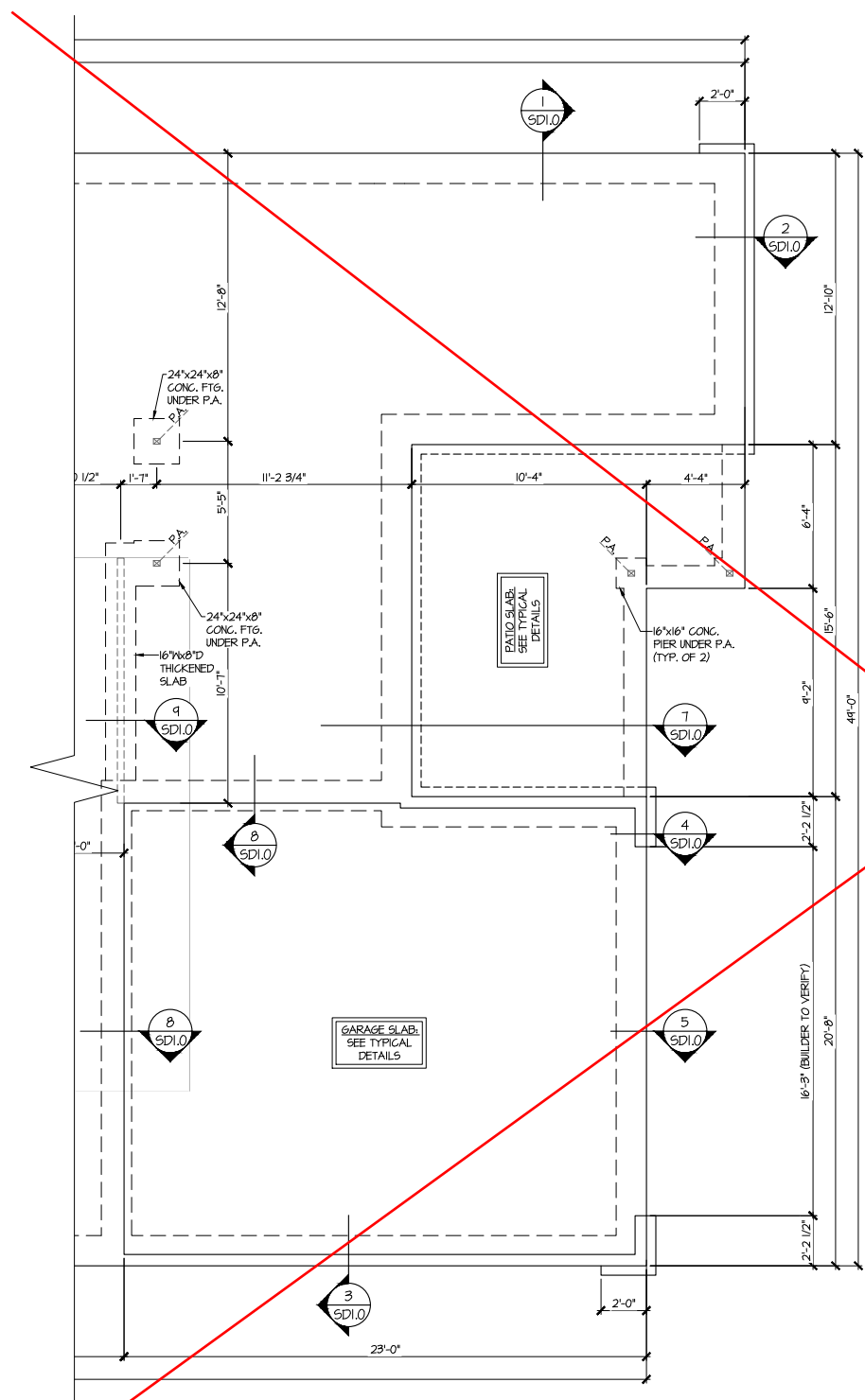
Mulhern+Kulp project number:
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drawn by: **KMV**
issue date: **08-16-2024**

REVISIONS:	
date:	initial:
11/08/2024	SMK
UPDATED MODEL NAME, OPT. EXT. COVD. PORCH	
4/28/2025	FC
MISC. ARCH. UPDATE	

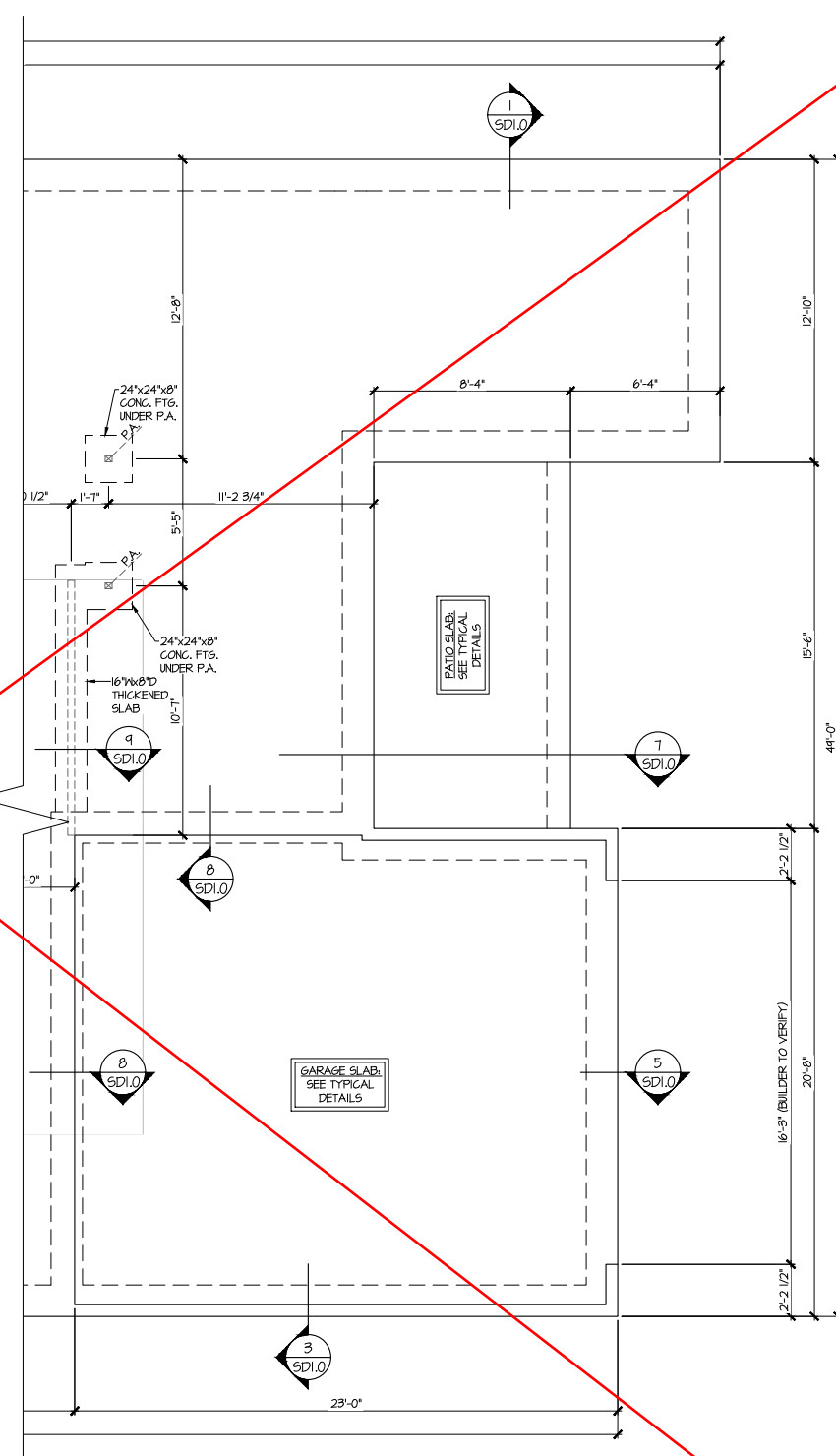


STRUCTURAL OPTIONS
5921-07 MODEL
SERENITY
MASTER SET
RALEIGH, NC

sheet:
S3.0



1
OPT. 2ND FLOOR
PARTIAL SLAB FOUNDATION PLAN
SCALE: 1/4"=1'-0" (22x24 SHEET)
1/8"=1'-0" (11x17 SHEET)
ELEV. B
SEE ELEV. A FOR MORE INFO



2
OPT. 2ND FLOOR
PARTIAL SLAB FOUNDATION PLAN
SCALE: 1/4"=1'-0" (22x24 SHEET)
1/8"=1'-0" (11x17 SHEET)
ELEV. C
SEE ELEV. A FOR MORE INFO

REFER TO S.O. FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES

LEGEND	
•	INTERIOR BEARING WALL
•	BEARING WALL ABOVE (B.W.A.)
•	BEAM / HEADER
•	INDICATES EXTENT OF INT. OSB SHEARWALL AND/OR 3" O.C. EDGE NAILING
•	EXTENT OF VALLEY TRUSS OVERFRAMING @ 24" O.C. (MAX.)
•	EXTENT OF FLOOR SYSTEM TO BE DESIGNED FOR TILE
▶	INDICATES HOLDDOWN
⌈	METAL HANGER
*	INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.



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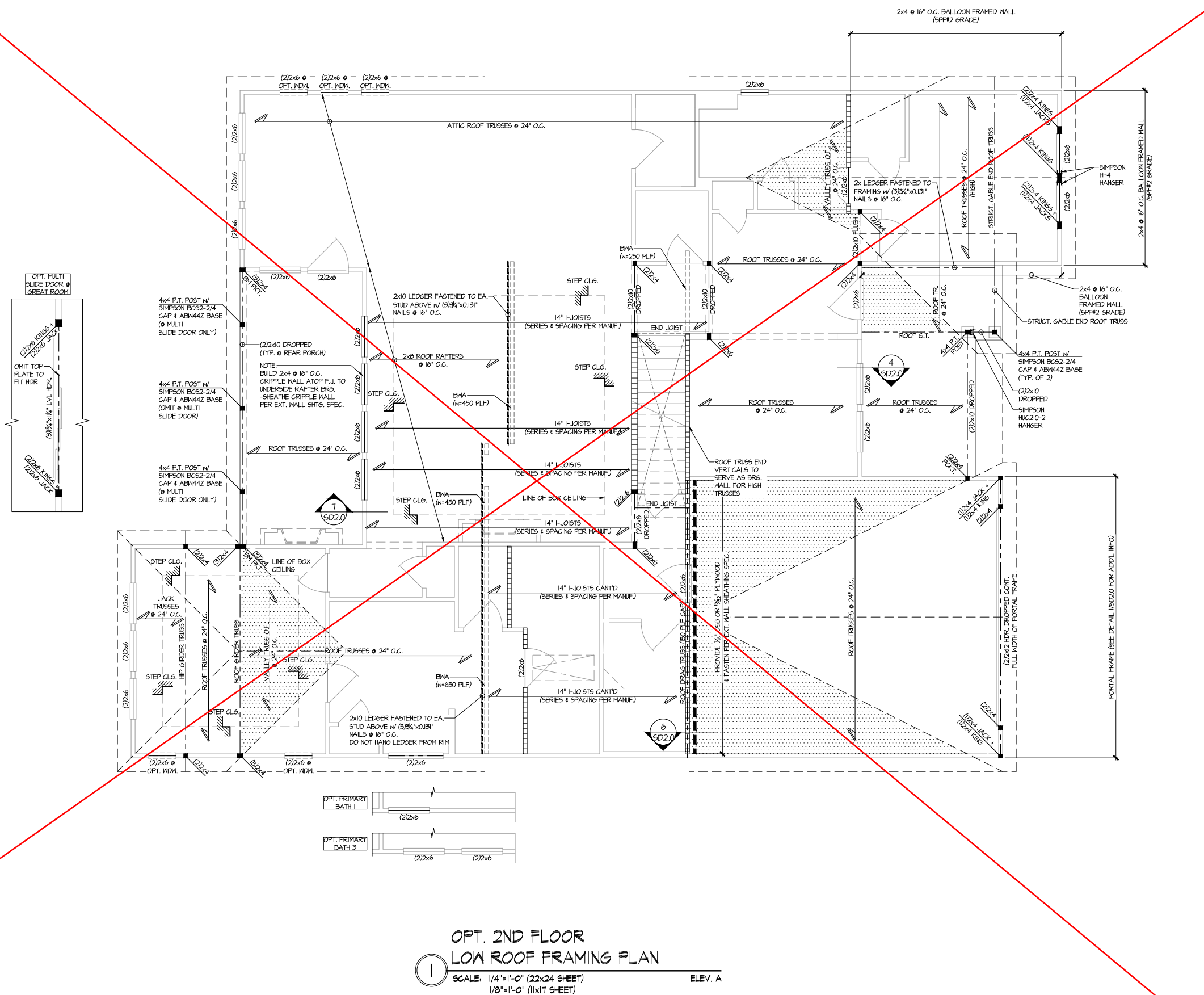
Mulhern+Kulp project number:
243-24033
project mgr: SMK
drawn by: KMV
issue date: 08-16-2024

REVISIONS:	
date:	initial:
11/08/2024	SMK
UPDATED MODEL NAME, OPT. EXT. COVD. PORCH	FC
4/28/2025	
MISC. ARCH. UPDATE	



STRUCTURAL OPTIONS
5921-07 MODEL
SERENITY
MASTER SET
RALEIGH, NC

sheet:
S3.1



OPT. 2ND FLOOR
LOW ROOF FRAMING PLAN
SCALE: 1/4"=1'-0" (22x24 SHEET)
1/8"=1'-0" (11x17 SHEET)
ELEV. A

THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT

LEGEND

- INTERIOR BEARING WALL
- BEARING WALL ABOVE (B.W.A.)
- BEAM / HEADER
- INDICATES EXTENT OF INT. OSB SHEARWALL AND/OR 3" O.C. EDGE NAILING
- EXTENT OF VALLEY TRUSS OVERFRAMING @ 24" O.C. (MAX.)
- EXTENT OF FLOOR SYSTEM TO BE DESIGNED FOR TILE
- INDICATES HOLDDOWN
- METAL HANGER
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

REFER TO S.O. FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES

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Mulhern+Kulp project number:
243-24033

project mgr: **SMK**
drawn by: **KMV**
issue date: **08-16-2024**

REVISIONS:

date:	initial:
11/08/2024	SMK
4/28/2025	FC
MSG. ARCH. UPDATE	

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STRUCTURAL OPTIONS

5921-07 MODEL
SERENITY
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Mulhern + Kulp project number:
243-24033

project mgr: **SMK**
drawn by: **KMV**
issue date: **08-16-2024**

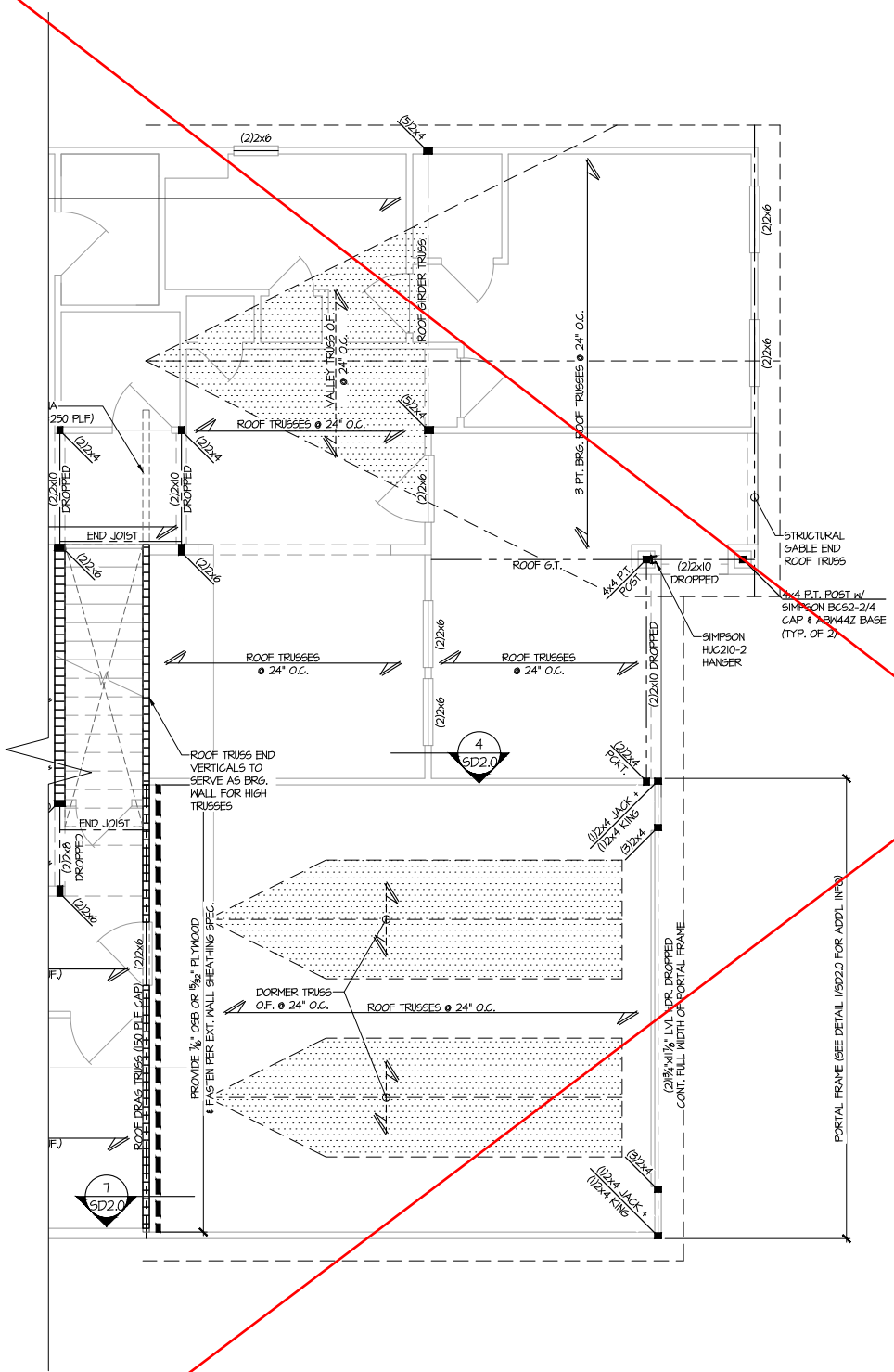
REVISIONS:
date: 11/08/2024 initial: SMK
4/28/2025 updated model name, opt. ext. cov'd porch
4/28/2025 MISC. ARCH. UPDATE FC



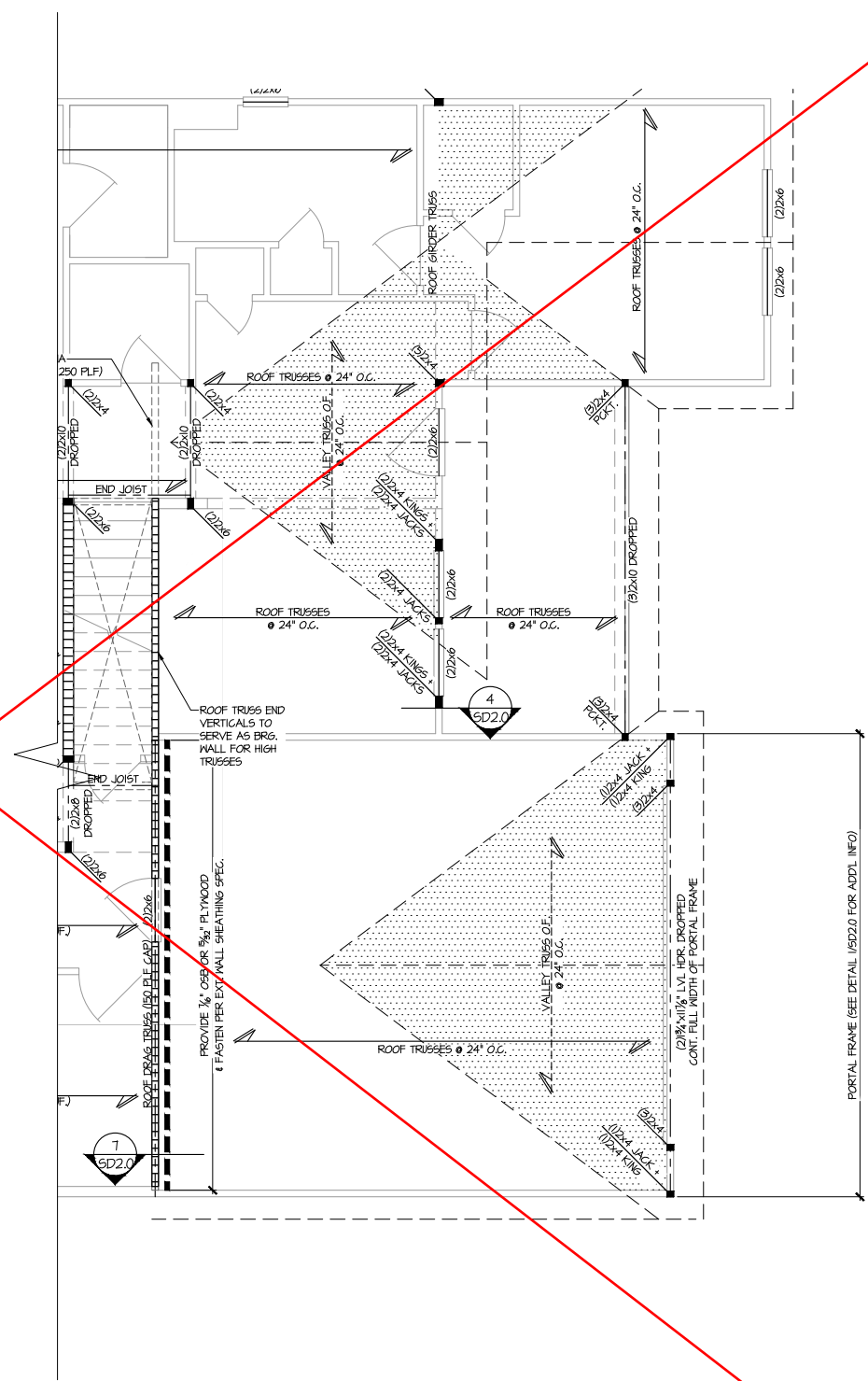
STRUCTURAL OPTIONS

5921-07 MODEL
SERENITY
MASTER SET
RALEIGH, NC

sheet:
S3.3



**OPT. 2ND FLOOR
PARTIAL LOW ROOF FRAMING PLAN**
SCALE: 1/4"=1'-0" (22x24 SHEET)
1/8"=1'-0" (11x17 SHEET)
ELEV. B
SEE ELEV. A FOR MORE INFO

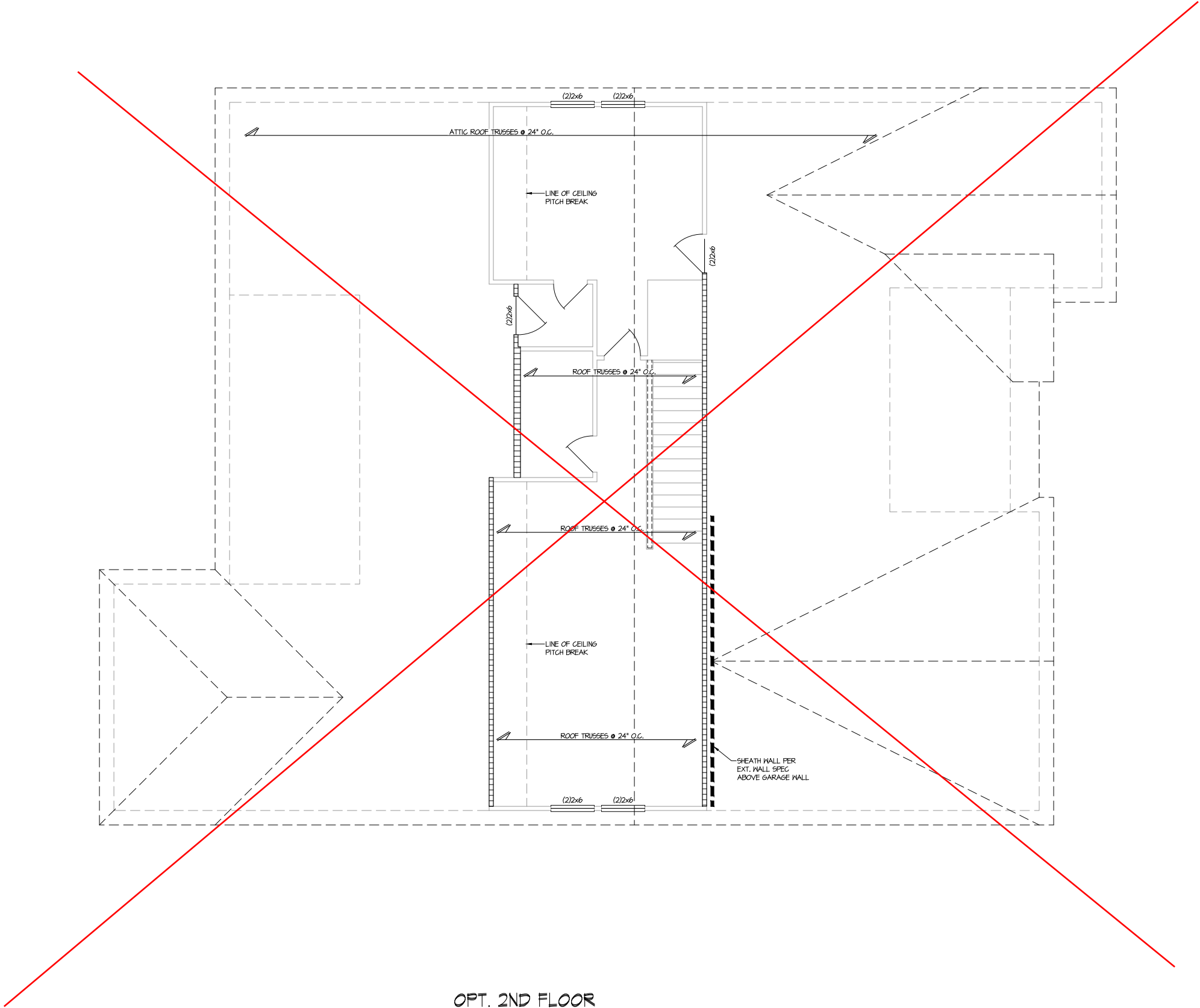


**OPT. 2ND FLOOR
PARTIAL LOW ROOF FRAMING PLAN**
SCALE: 1/4"=1'-0" (22x24 SHEET)
1/8"=1'-0" (11x17 SHEET)
ELEV. C
SEE ELEV. A FOR MORE INFO

THIS LEVEL HAS BEEN DESIGNED
FOR 9'-1" PLATE HEIGHT

REFER TO S.O. FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES

LEGEND	
•	INTERIOR BEARING WALL
•	BEARING WALL ABOVE (B.W.A.)
•	BEAM / HEADER
•	INDICATES EXTENT OF INT. OSB SHEARWALL AND/OR 3" O.C. EDGE NAILING
•	EXTENT OF VALLEY TRUSS OVERFRAMING @ 24" O.C. (MAX.)
•	EXTENT OF FLOOR SYSTEM TO BE DESIGNED FOR TILE
▶	INDICATES HOLDDOWN
HL	METAL HANGER
*	INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.



OPT. 2ND FLOOR
HIGH ROOF FRAMING PLAN

SCALE: 1/4"=1'-0" (22x24 SHEET)
1/8"=1'-0" (11x17 SHEET)

ELEV. A
ALL ELEV. SIM.

THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT

LEGEND

- INTERIOR BEARING WALL
- BEARING WALL ABOVE (B.W.A.)
- BEAM / HEADER
- INDICATES EXTENT OF INT. OSB SHEARWALL AND/OR 3" O.C. EDGE NAILING
- EXTENT OF VALLEY TRUSS OVERFRAMING @ 24" O.C. (MAX.)
- EXTENT OF FLOOR SYSTEM TO BE DESIGNED FOR TILE
- INDICATES HOLDOWN
- METAL HANGER
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

REFER TO S.O. FOR TYPICAL STRUCTURAL NOTES & SCHEDULES



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Mulhern+Kulp project number:
243-24033

project mgr: SMK
drawn by: KMV
issue date: 08-16-2024

REVISIONS:	
date:	initial:
11/08/2024	SMK
UPDATED MODEL NAME, OPT. EXT. COVD. PORCH	
4/28/2025	FC
MISC. ARCH. UPDATE	

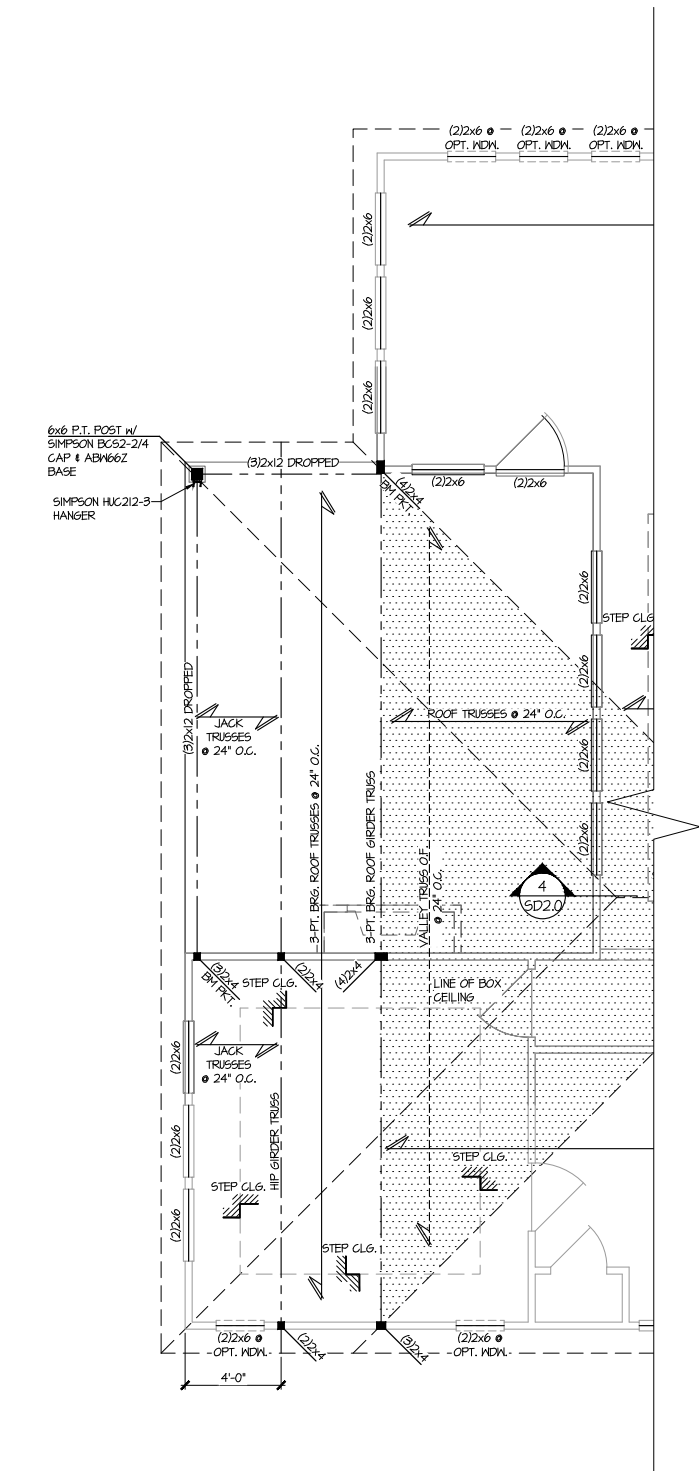


STRUCTURAL OPTIONS

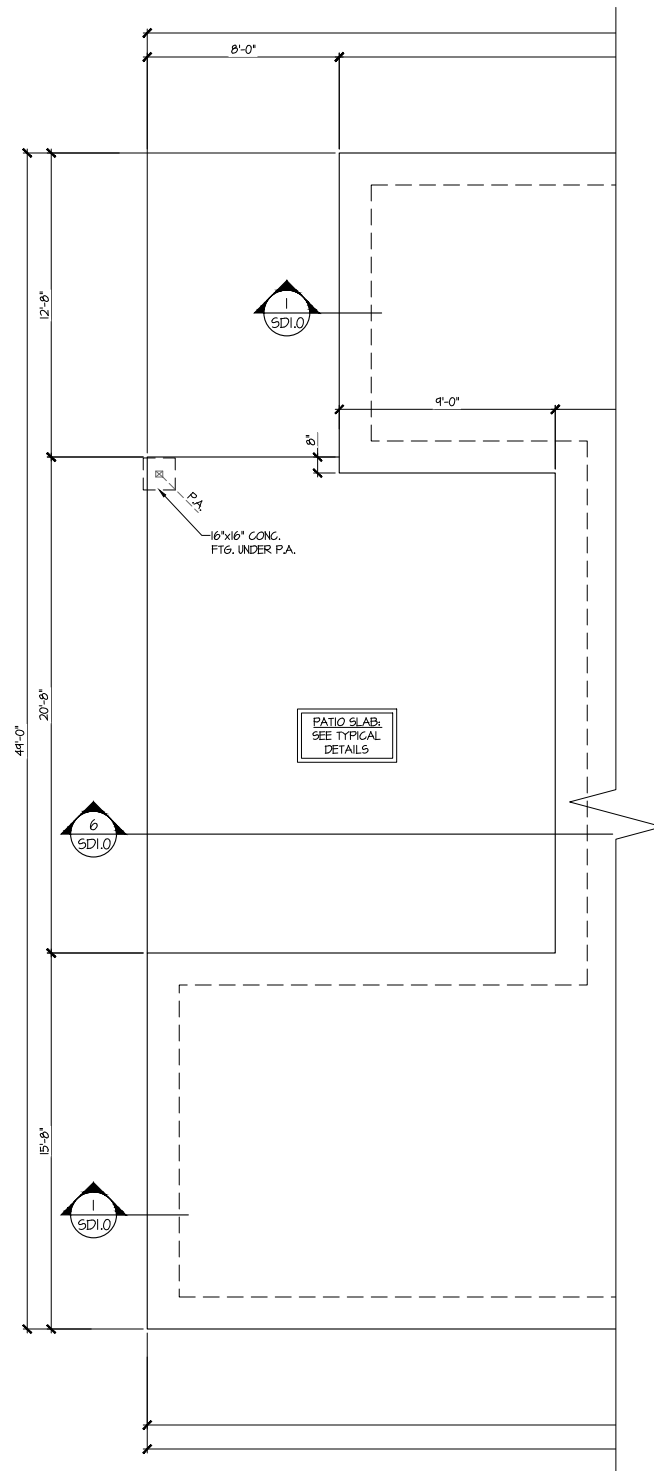
5921-07 MODEL

SERENITY
MASTER SET
RALEIGH, NC

sheet:
S3.4



1 OPT. EXTENDED COVERED PORCH
PARTIAL ROOF FRAMING PLAN
SCALE: 1/4\"=1'-0\" (22x24 SHEET)
1/8\"=1'-0\" (11x17 SHEET)
ELEV. A
ALL ELEV. SIM.



2 OPT. EXTENDED COVERED PORCH
PARTIAL SLAB FOUNDATION PLAN
SCALE: 1/4\"=1'-0\" (22x24 SHEET)
1/8\"=1'-0\" (11x17 SHEET)
ELEV. A
ALL ELEV. SIM.

LEGEND	
•	INTERIOR BEARING WALL
•	BEARING WALL ABOVE (B.W.A.)
•	BEAM / HEADER
•	INDICATES EXTENT OF INT. OSB SHEARWALL AND/OR 3\" O.C. EDGE NAILING
•	EXTENT OF VALLEY TRUSS OVERFRAMING @ 24\" O.C. (MAX.)
•	EXTENT OF FLOOR SYSTEM TO BE DESIGNED FOR TILE
▶	INDICATES HOLDDOWN
HL	METAL HANGER
*	INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

THIS LEVEL HAS BEEN DESIGNED
FOR 9'-1\" PLATE HEIGHT

REFER TO S.O. FOR
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& SCHEDULES



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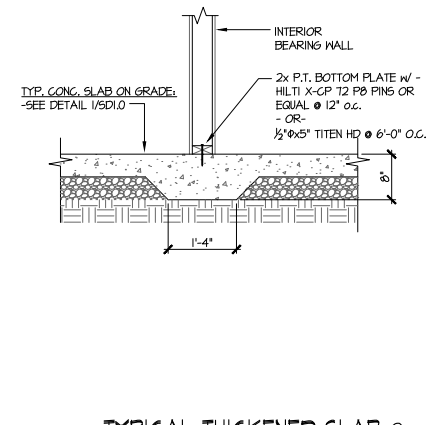
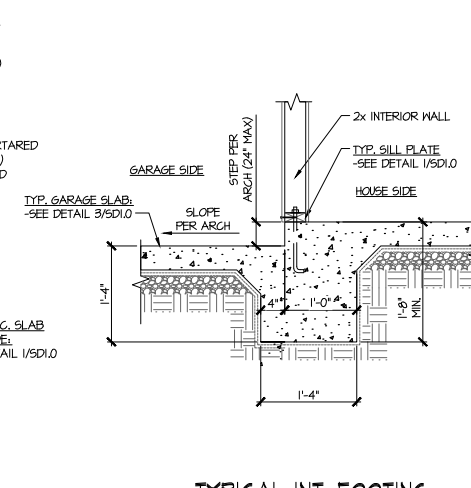
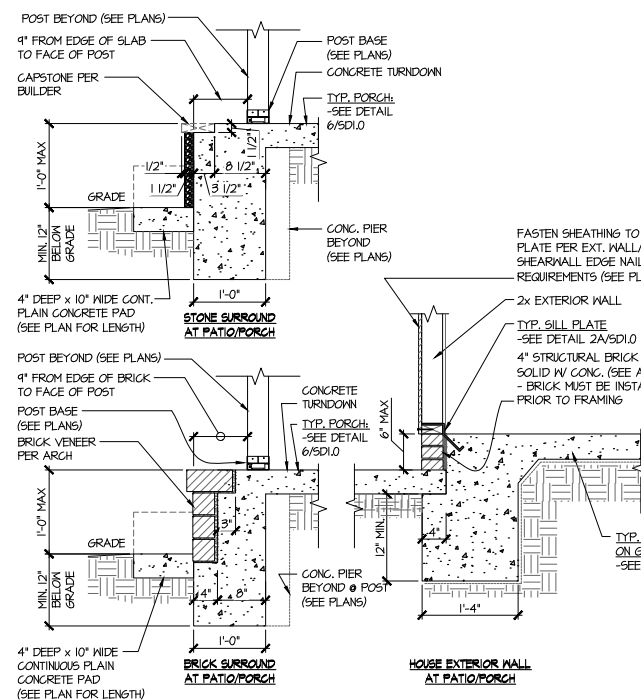
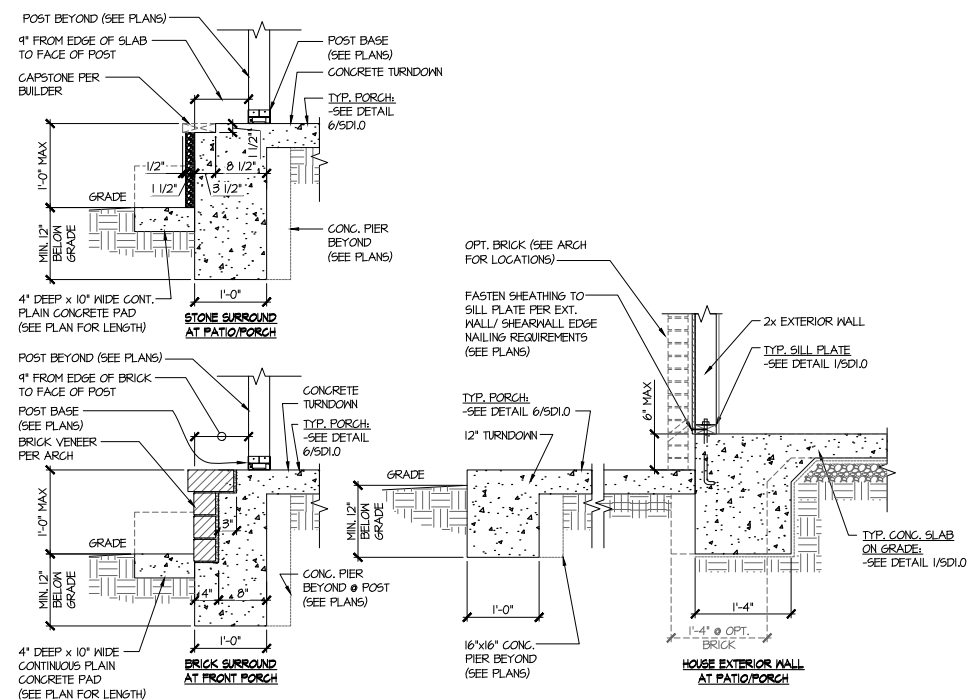
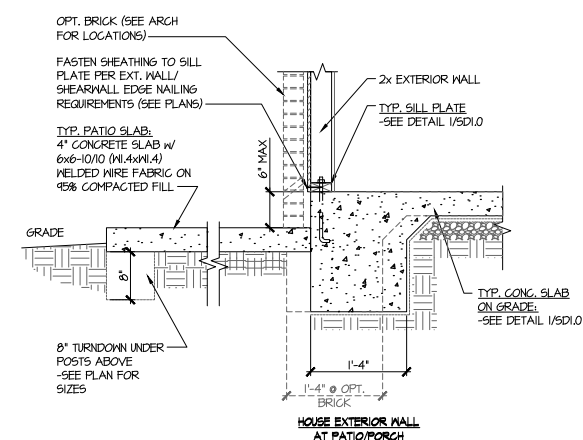
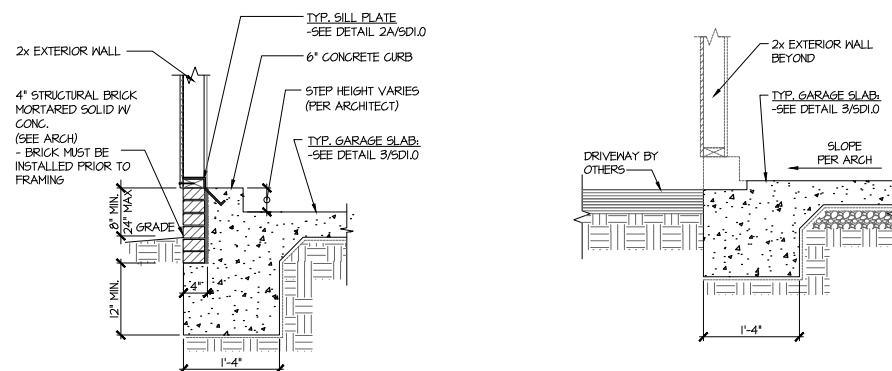
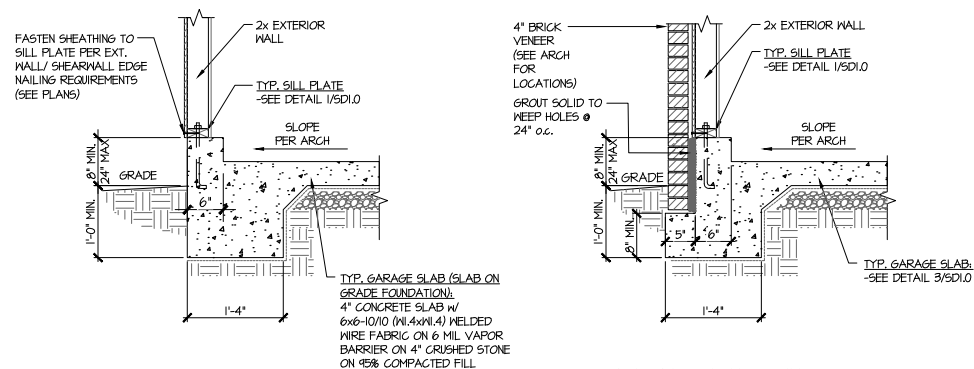
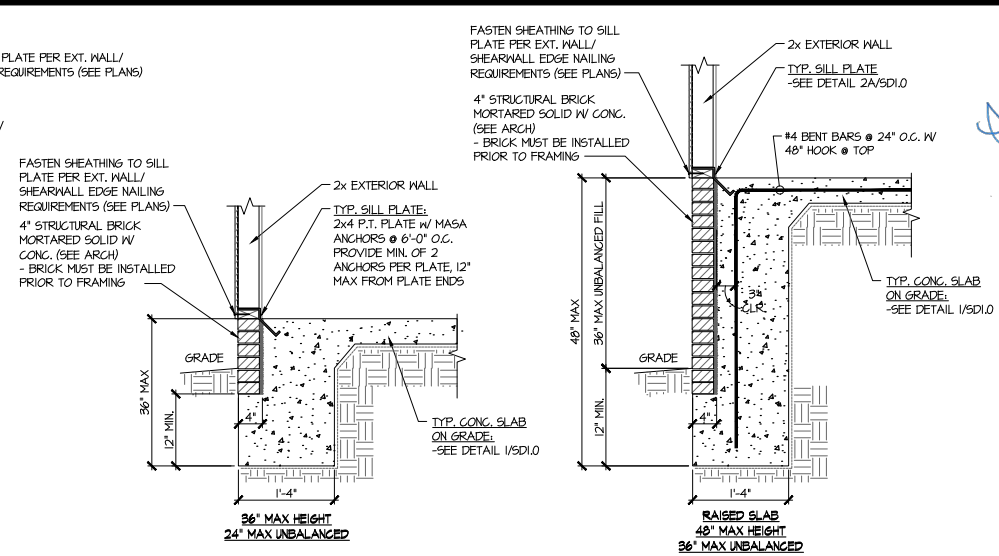
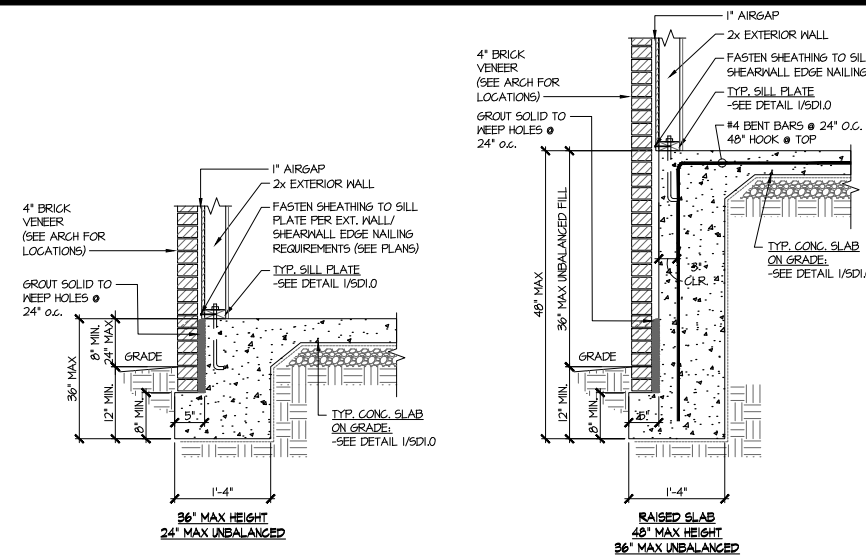
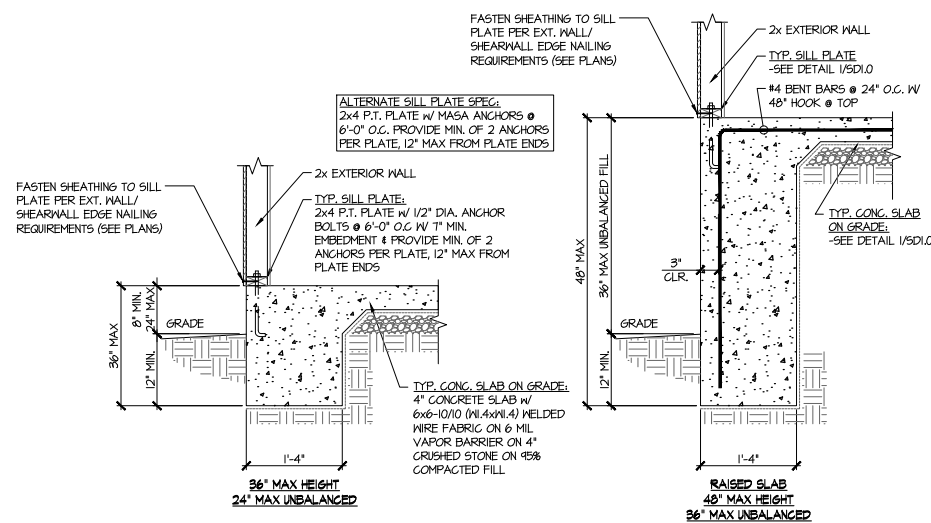
Mulhern+Kulp project number:
243-24033
project mgr: SMK
drawn by: KMV
issue date: 08-16-2024

REVISIONS:	
date:	initial:
11/08/2024	SMK
4/28/2025	FC
MSG. ARCH. UPDATE	



STRUCTURAL OPTIONS
5921-07 MODEL
SERENITY
MASTER SET
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seal:



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243-24033

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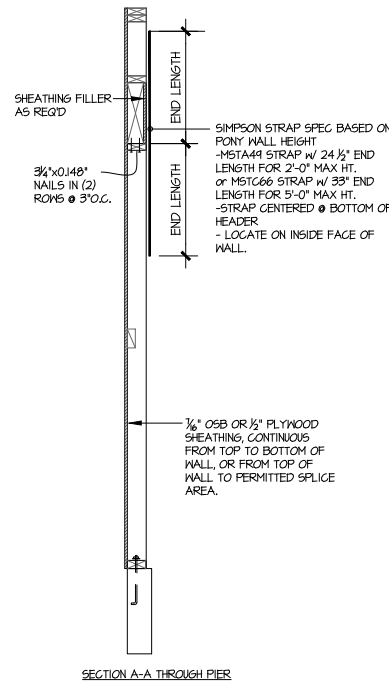
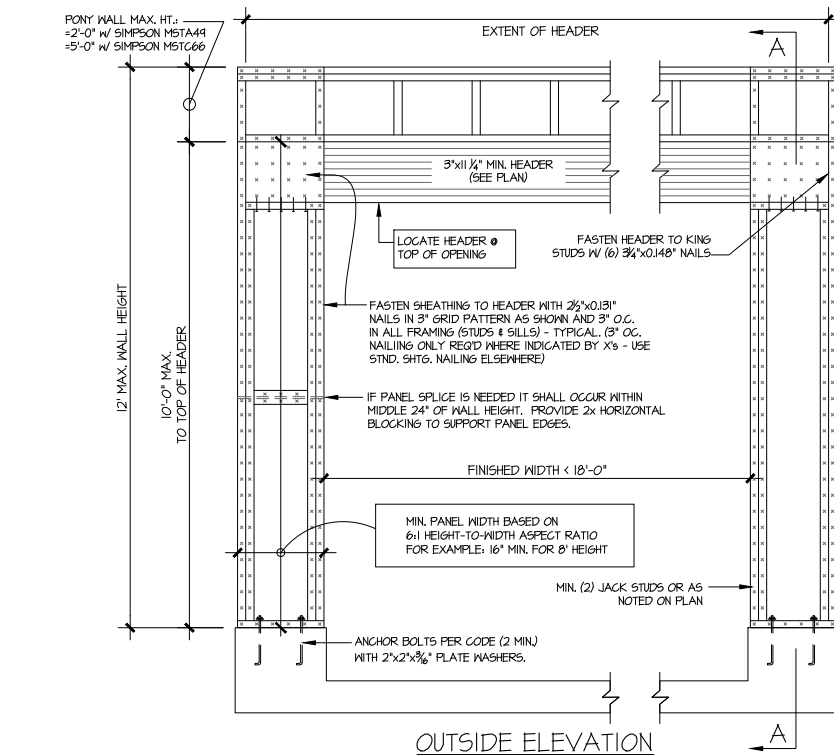
REVISIONS:	
date:	initial:
11/08/2024	SMM
UPDATED MODEL NAME, OPT. EXT. COVD, PORCH	
4/28/2025	FC
MISC. ARCH. UPDATE	

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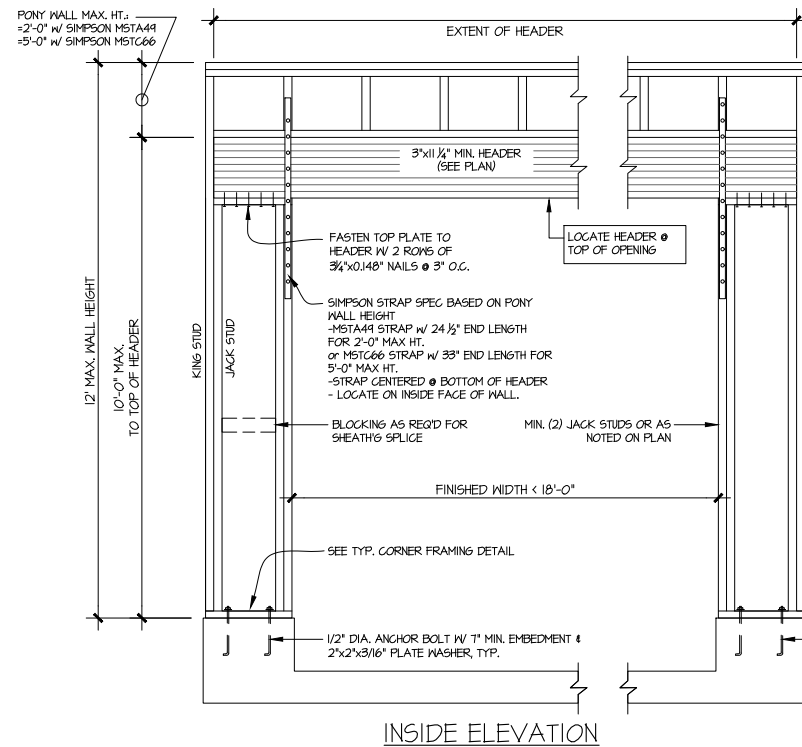
FOUNDATION DETAILS
5921-07 MODEL
SERENITY
MASTER SET
RALEIGH, NC

sheet:

SD 1.0

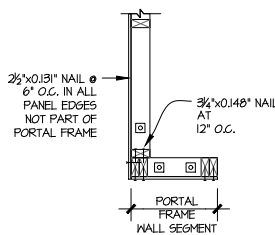


OUTSIDE ELEVATION



NOTE: ALL SHEATHABLE AREAS OF EXTERIOR WALL SHALL BE FULLY SHEATHED WITH 1/2" PLYWOOD OR 3/4" OSB

WALL FRAMING SPECIFICATION: USE SPP/SYP STUD GRADE STUDS (OR BETTER)



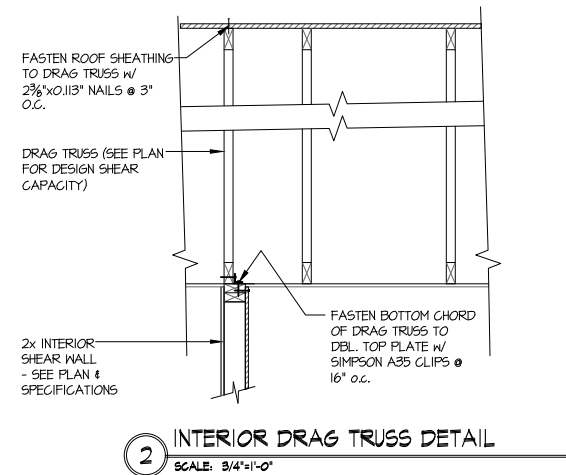
PLAN VIEW OF CORNER DETAIL

ALTERNATIVES TO 1/2" DIA. ANCHOR BOLT:
1) 1/2" DIA. x 6" LONG SIMPSON TITEN HD
2) 1/2" DIA. THREADED ROD EPOXY SET w/4 1/2" EMBED. (MIN UTILIZING HILTI HY200 EPOXY ANCHORING SYSTEM OR EQUAL)

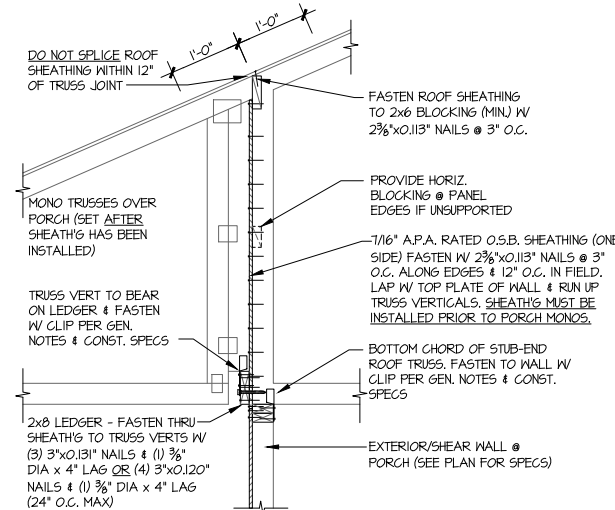
INSIDE ELEVATION

1 GARAGE PORTAL FRAME BRACING ELEVATION SCALE: N.T.S.

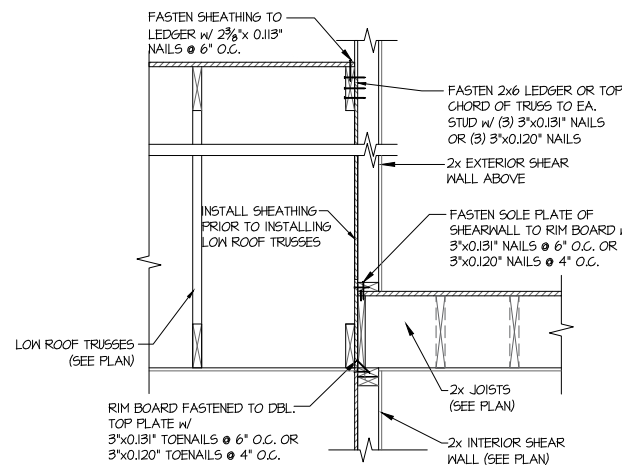
BOTH SIDES OF GARAGE DOOR
115 MPH WIND SPEED (ULT)



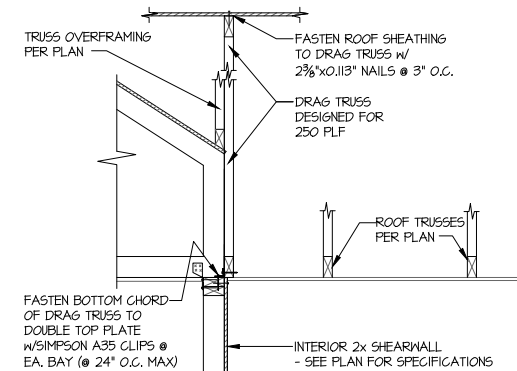
2 INTERIOR DRAG TRUSS DETAIL
SCALE: 3/4"=1'-0"



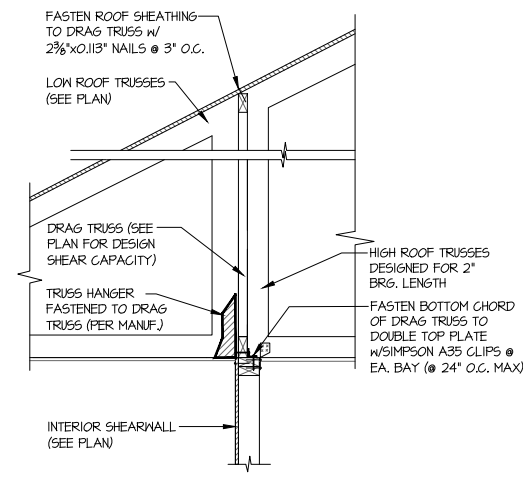
4 SHEAR TRANSFER DETAIL @
BREAK IN TRUSSES OVER SHEAR WALL
SCALE: 3/4"=1'-0" - 22x34
3/8"=1'-0" - 11x17



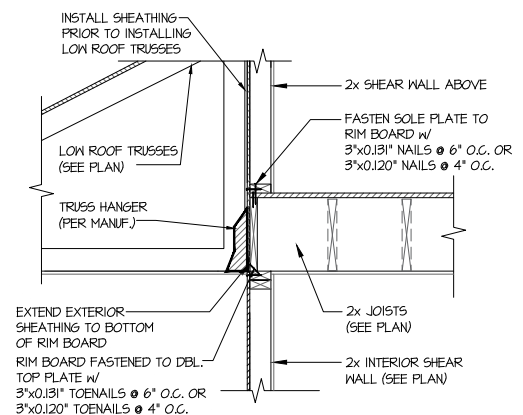
6 TYPICAL SHEAR TRANSFER DETAIL
BETWEEN FLOORS @ INTERIOR WALL
SCALE: 3/4"=1'-0"



3 SHEAR TRANSFER DETAIL
AT INTERIOR SHEARWALL BELOW
SCALE: 3/4"=1'-0"



5 SHEAR TRANSFER DETAIL
AT INTERIOR SHEARWALL BELOW
SCALE: 3/4"=1'-0"



7 TYPICAL SHEAR TRANSFER DETAIL
BETWEEN FLOORS @ INTERIOR WALL
SCALE: 3/4"=1'-0"



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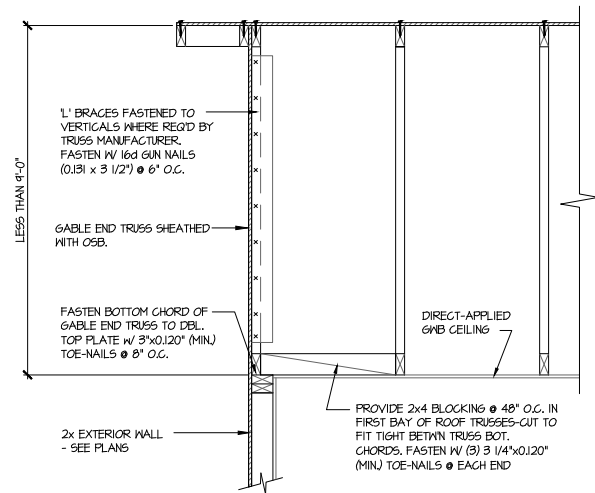
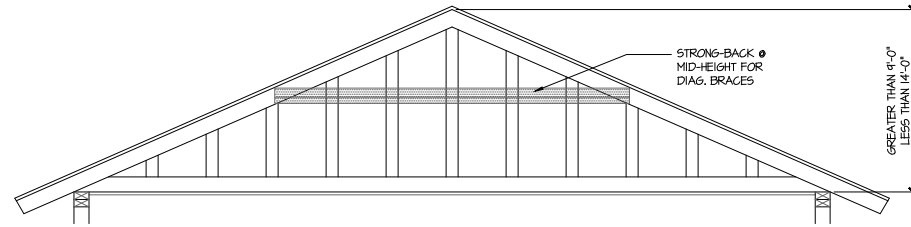
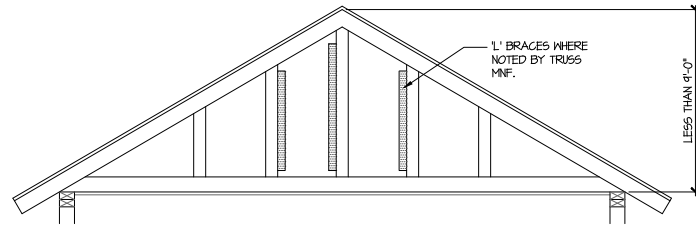
Mulhern+Kulp project number:
243-24033
project mgr: SMK
drawn by: KMV
issue date: 08-16-2024

REVISIONS:
date: initial:
11/08/2024 SMM
4/28/2025 FC
MISC. ARCH. UPDATE

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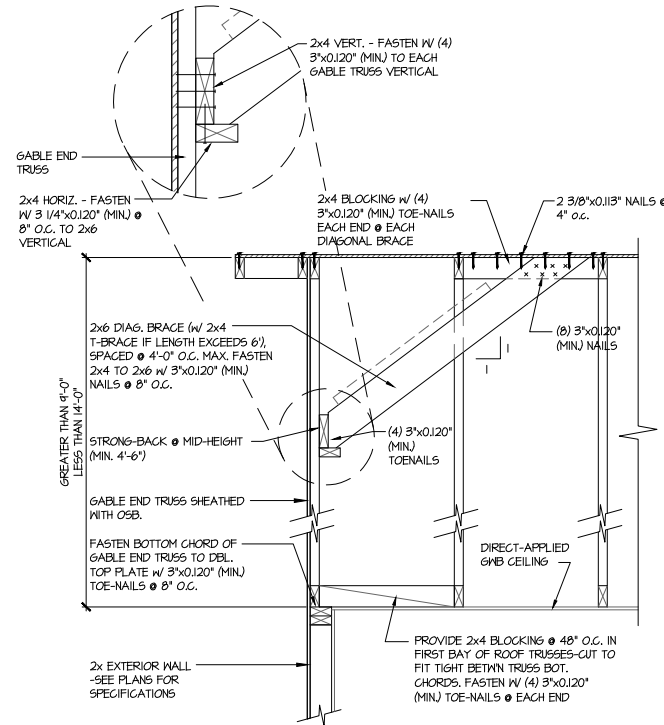
FRAMING DETAILS
5921-07 MODEL
SERENITY
MASTER SET
RALEIGH, NC

sheet:
SD2.0



A TYPICAL GABLE END BRACING DETAIL
SCALE: NONE
REQ'D @ GABLE END TRUSS
HEIGHT UP TO 9'-0"

BRACE GABLE END TRUSSES PER ABOVE DETAIL WHEN GABLE HEIGHT IS LESS THAN 9'-0". 1" BRACES REQUIRED WHERE NOTED BY TRUSS MANUFACTURER.



B TYPICAL GABLE END BRACING DETAIL
SCALE: NONE
REQ'D @ GABLE END TRUSS
HEIGHT BETWEEN 9'-0" TO 14'-0"

BRACE GABLE END TRUSSES PER ABOVE DETAIL WHEN GABLE HEIGHT EXCEEDS 9'-0". 1" BRACES NOT REQUIRED.



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MSG: ARCH: UPDATE	



FRAMING DETAILS

5921-07 MODEL
SERENITY
MASTER SET
RALEIGH, NC

sheet:
SD2.1