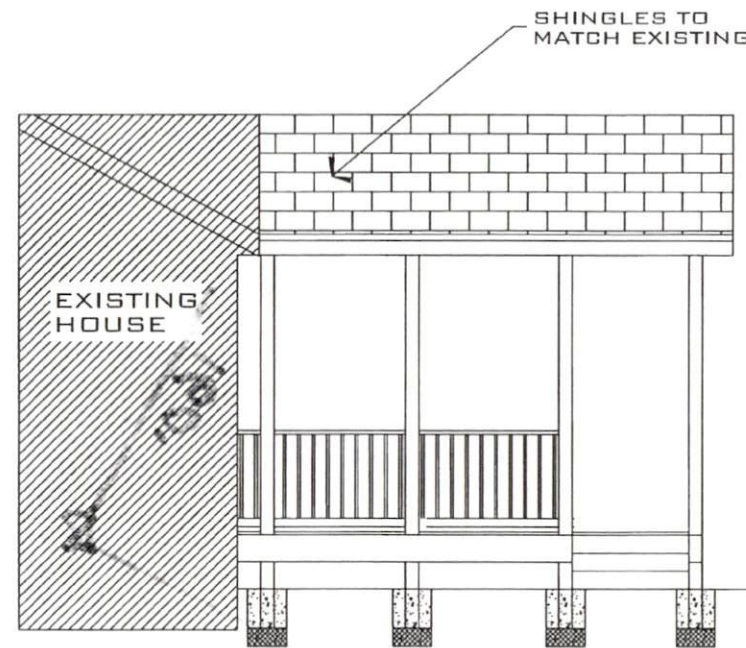


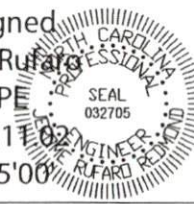
1 FRONT ELEVATION
B1 SCALE: 1/4" = 1'-0"



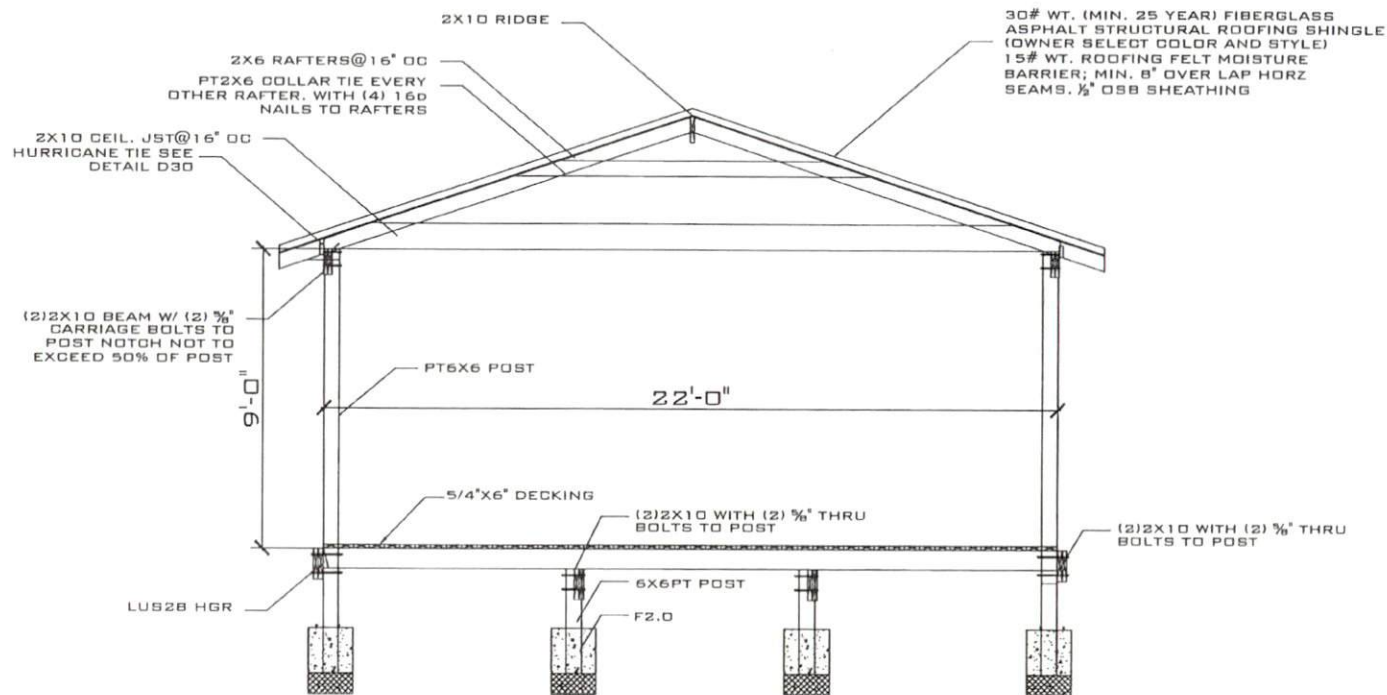
2 SIDE ELEVATION
B1 SCALE: 1/4" = 1'-0"

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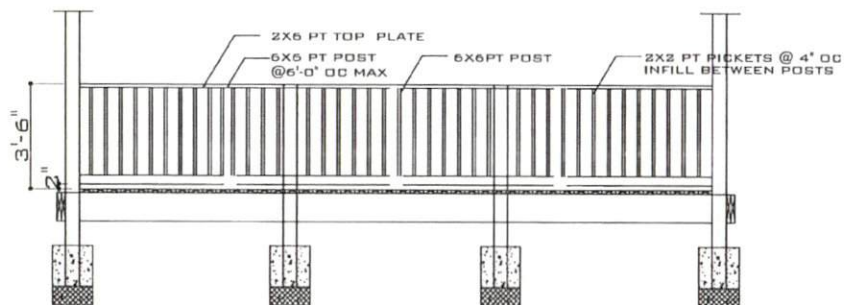
Digitally signed
by Jerome Rufaro
Redmond, PE
Date: 2025.11.02
19:11:02 -05'00'



<p>JEROME RUFARO REDMOND, PE STRUCTURAL ENGINEER 1019 HWY 17 SOUTH STE. 224 N. MYRTLE BEACH, SC 29582 T: 910.915.6529 E: JREDND5@YAHOO.COM</p>	<p>PROJECT: COVERED DECK ADDITION 590 CHEROKEE LANE LILLINGTON, NC</p>	<p>PROJECT NO: IN025341 DATE: 10.28.25 REV: SCALE: AS SHOWN DRAWN BY: JRR CHECKED BY: JRR</p>	<p>SHEET NO: B1</p>
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A TYPICAL SECTION
S3 SCALE: NTS



B RAILING DETAIL
S3 SCALE: NTS

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PE

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by Jerome Rufaro
Redmond, PE
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19:13:31 -05'00

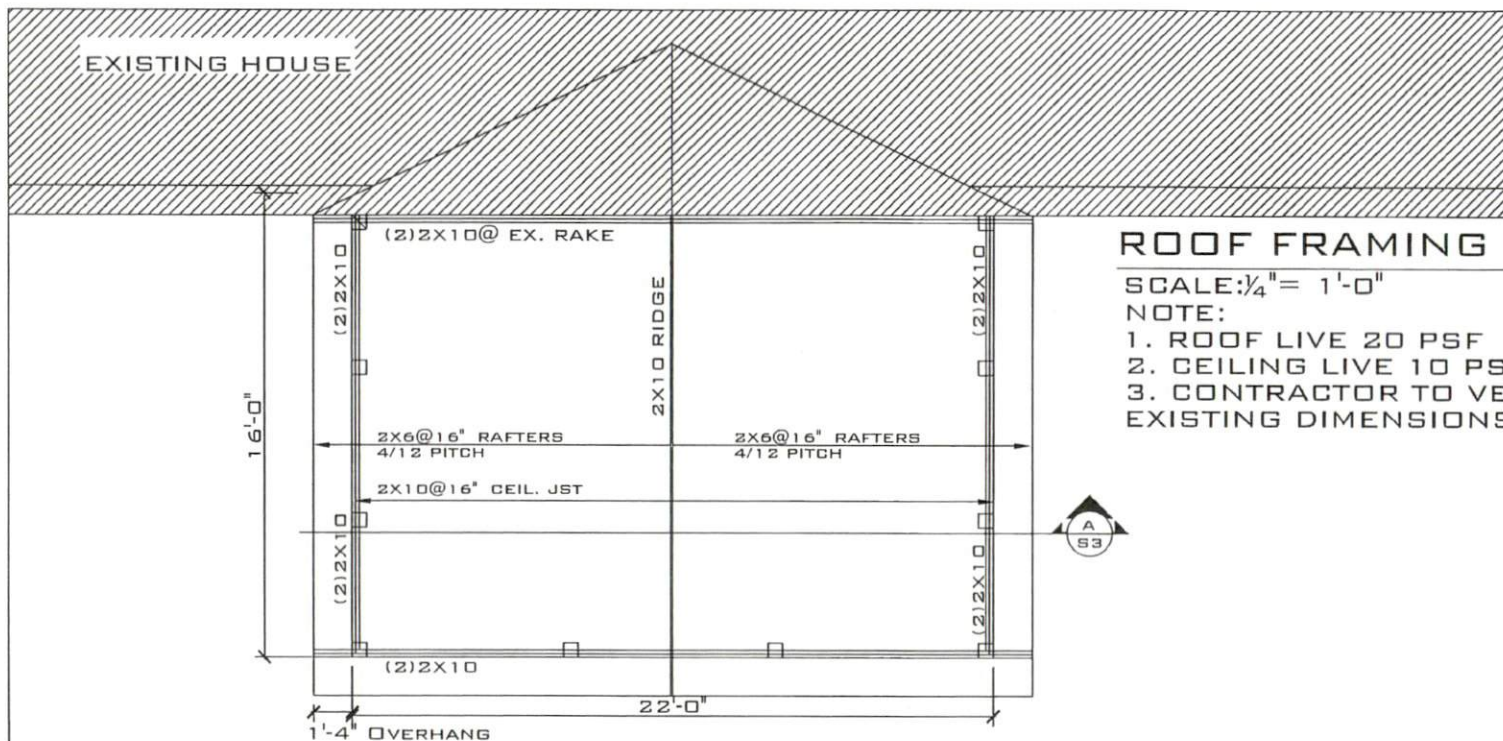


SHEET NO:
53

PROJECT NO: IN025341
DATE: 10.28.25 REV:
SCALE: AS SHOWN
DRAWN BY: JRR
CHECKED BY: JRR

PROJECT:
COVERED DECK ADDITION
590 CHEROKEE LANE
LILLINGTON, NC

JEROME RUFARO REDMOND, PE
STRUCTURALENGINEER
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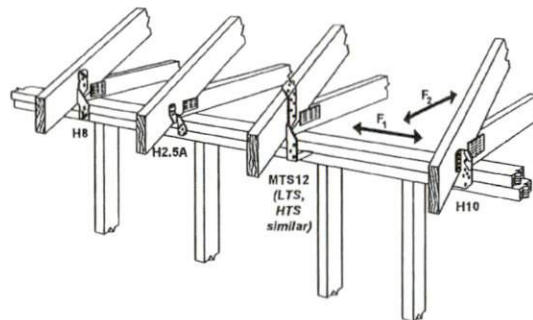


ROOF FRAMING PLAN

SCALE: $\frac{1}{4}" = 1'-0"$

NOTE:

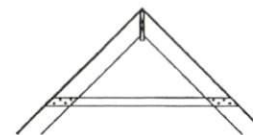
1. ROOF LIVE 20 PSF
2. CEILING LIVE 10 PSF
3. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS



D30
DET

HURRICANE TIE OPTIONS

NOTE: FASTENING SCHEDULE PER MANUFACTURER'S RECOMMENDATIONS



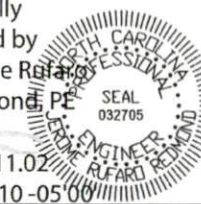
INSTALL 2X6 COLLAR TIES TO EVERY OTHER RAFTER WITH (4) 10D NAILS EACH END. LOCATE COLLAR TIES IN THE UPPER THIRD OF THE ROOF.

COLLAR TIE DETAIL

SCALE: NTS

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d, PE

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signed by
Jerome Rufaro
Redmond, PE
Date:
2025.11.02
19:13:10-05'00'

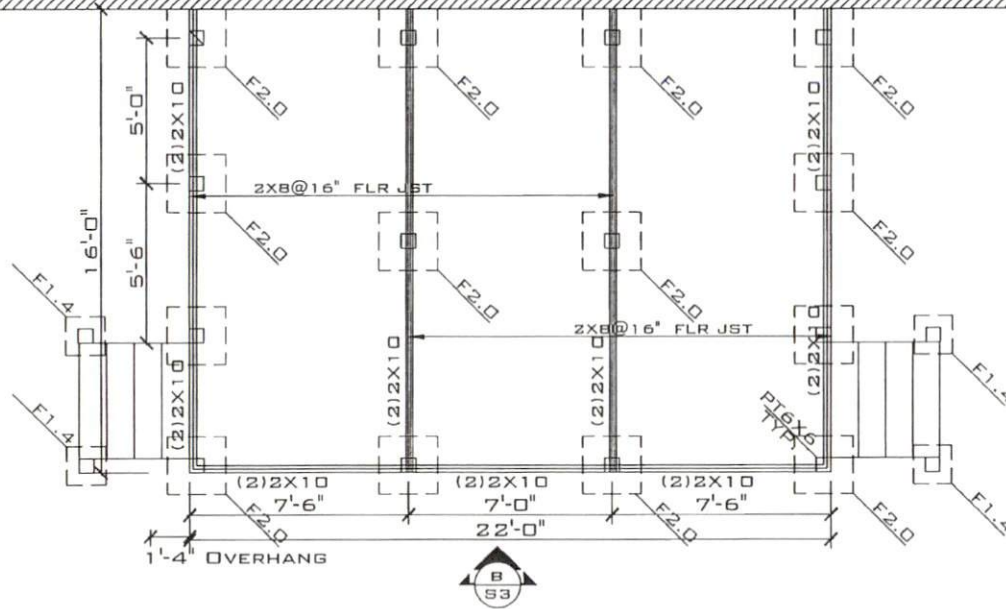


PROJECT NO: IN025341
DATE: 10.30.25 REV:
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CHECKED BY: JRR

PROJECT:
COVERED DECK ADDITION
590 CHEROKEE LANE
LILLINGTON, NC

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EXISTING HOUSE



FRAMING/FOUNDATION PLAN

SCALE: $\frac{1}{4}" = 1'-0"$

NOTE:

1. ROOF LIVE 20 PSF
2. WOOD: SPF NO. 2 OR HIGHER
3. CONCRETE: $F'_c = 3000$ PSI
4. ASSUMED SOIL BEARING: 2000 PSF
5. F2.O: 24"X24"X24" W/ 8" CMU BASE WITH 2 #5 THRU POST
6. F1.4: 16"X16"X16"
7. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS

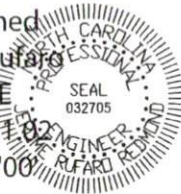
SHEET NO:
51

PROJECT NO: IN025341
DATE: 10.28.25 REV:
SCALE: AS SHOWN
DRAWN BY: JRR
CHECKED BY: JRR

PROJECT:
COVERED DECK ADDITION
590 CHEROKEE LANE
LILLINGTON, NC

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GENERAL NOTES:

GENERAL: ALL NOTES ARE FOR SUPPLEMENTING THE PLANS AND SPECIFICATIONS AND ARE IN NO WAY TO BE CONSIDERED AS EXCLUDING ANY ITEM IN THEM.

CONTRACTOR TO OBTAIN ALL MISC. UTILITIES AND UTILITY CLEARANCES AND EXCAVATION PERMITS.

CODE: DESIGN AND CONSTRUCTION TO BE IN ACCORD WITH THE 2018 NC RESIDENTIAL CODE (NCRG) AND THE PARTICULAR CODES AS REFERENCED IN NCRG.

DESIGN CRITERIA:
FLOOR LIVE: 40 PSF
ROOF LIVE: 20 PSF
CEILING LIVE: 10 PSF
WIND SPEED: 120 PSF
THERMAL ZONE: 3A
ATTIC INSULATION R-38

FOUNDATION:
MATERIAL SATISFACTORY FOR CONTROLLED FILL AND BACKFILL MATERIAL AROUND AND ABOVE FOOTINGS SHALL INCLUDE CLEAN SOIL OR BANKRUN SAND AND GRAVEL (GW, GC, SC, SM, ML & CL), BUT EXCLUDE HIGHLY PLASTIC CLAYS (MH & CH) OR HIGH SHRINK SWELL SOILS. THE FILL MATERIALS SHALL BE FREE FROM TOPSOIL, ORGANIC CONTAMINATED SOIL AND ROCK FRAGMENTS HAVING A MAJOR DIMENSION GREATER THAN FOUR (4) INCHES, AND SHALL CONTAIN NO ICE OR SNOW.

FOOTINGS ARE DESIGNED FOR AN ASSUMED SOIL BEARING PRESSURE OF 2000 PSF.

CARE SHOULD BE TAKEN TO ASSURE THAT DURING PLACING OF CONCRETE FOOTINGS ON GRADE NO ORGANIC MATTER, SALTS, OR CLAYS ARE MIXED WITH THE CONCRETE.

CONCRETE: REINFORCED CONCRETE TO HAVE THE FOLLOWING COMPRESSIVE STRENGTH (f'c)

FOOTINGS: 3000 PSI

EXPOSED CONCRETE SHALL BE AIR-ENTRAINED.

REINFORCING STEEL: ASTM A615 GRADE 60.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

REINFORCING STEEL MARKED CONTINUOUS (CONT.) SHALL BE LAPPED 48 X BAR DIAMETER AT SPLICES. ALL REINFORCING STEEL SHALL BE HELD SECURELY IN PLACE TO PREVENT DISLOCATION DURING THE POURING OPERATION.

SLAB REINFORCING BARS SHALL BE SUPPORTED ON HIGH CHAIRS AND BAR SPACERS OF SUITABLE DESIGN. "HOOKING" OF WELDED WIRE FABRIC SHALL NOT BE PERMITTED.

DETAILING OF ALL CONCRETE STEEL REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (A.C.I. 315-89).

NO CONCRETE SHALL BE PLACED UNTIL ALL EMBEDDED WORK HAS BEEN INSTALLED, TESTED AND INSPECTED.

EXCEPT AS OTHERWISE SHOWN, MINIMUM PROTECTION (CONCRETE COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

CONCRETE SURFACES EXPOSED TO SOIL:
1 1/2" FOR SLABS
3" FOR FOOTINGS

INTERIOR CONCRETE SURFACES:
3/4" FOR SLABS

CONCRETE SURFACES EXPOSED TO WEATHER:
1 1/2" FOR SLABS

WOOD: ALL EXPOSED WOOD TO BE PRESSURE TREATED SOUTHERN YELLOW PINE (SYP) NO. 2 OR HIGHER. PRESERVATIVE PRESSURE TREATMENT TO BE IN ACCORDANCE WITH AWPA STANDARD M4-06 & U1-07. MINIMUM PRESERVATION TREATMENTS:

PILES: UC4A
ALL OTHER WOOD MEMBERS: UC3B

ROOF SHEATHING C-D GRADE "APA" EXTERIOR STRUCTURAL PANELS OR APPROVED EQUAL. PLACE WITH LONG DIMENSION PERPENDICULAR TO FRAMING. STAGGER END JOINTS. FASTEN WITH 8d HOT-DIPPED GALVANIZED BOX NAILS AT 6" O.C. AT ALL SUPPORTED EDGES, EXCEPT WITHIN THE FIRST 4' FROM ROOF EDGE. FASTENERS WITHIN THE FIRST 4' SHALL BE AT 4" O.C.

PLYWOOD SUBFLOOR SHALL BE 3/4" T. & G. PLYWOOD WITH #8 SCREWS AT 6" O.C. AT ALL SUPPORTED PERIMETER EDGES & INTERIOR SUPPORTS.

ALL MULTI-PLY LAMINATED VENEER LUMBER (LVL) HEADERS LINTELS & STUD COLUMNS SHALL BE CONNECTED SUCH THAT THEY ACT AS A SINGLE MEMBER.
LVL SPECS: Fb=2900 PSI Fv=285 PSI
E=2,100,000 PSI

MASONRY: LOAD BEARING CONCRETE MASONRY CONSTRUCTION TO BE IN ACCORDANCE WITH ASCE 5/ACI 530/TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", AND ASCE 6/ACI 530.1/TMS/602, SPECIFICATIONS FOR MASONRY STRUCTURES." BEARING WALLS AND PIERS TO CONSIST ENTIRELY OF LOAD BEARING UNITS.

ALL MASONRY CONSTRUCTION TO BE IN ACCORDANCE WITH ACCEPTABLE INDUSTRY STANDARDS AND METHODS OF CONSTRUCTION.

PROVIDE DUR O WAL OR EQUAL EVERY BLOCK COURSE BELOW FINISHED FLOOR AND EVERY OTHER COURSE ABOVE FINISHED FLOOR UNLESS OTHERWISE SHOWN ON THE ARCHITECTURAL SECTION. ALL HORIZONTAL WALL REINFORCING TO BE TRUSSED AND GALVANIZED. AT CORNERS AND INTERSECTIONS HORIZONTAL WALL REINFORCING TO BE FULLY LAPPED WITH TRUSSED GALVANIZED CORNERS AND TEES.

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SHEET NO:

50

PROJECT NO: IN025341

DATE: 10.28.25 REV:

SCALE: AS SHOWN

DRAWN BY: JRR

CHECKED BY: JRR

PROJECT: COVERED DECK ADDITION

590 CHEROKEE LANE

LILLINGTON, NC

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