





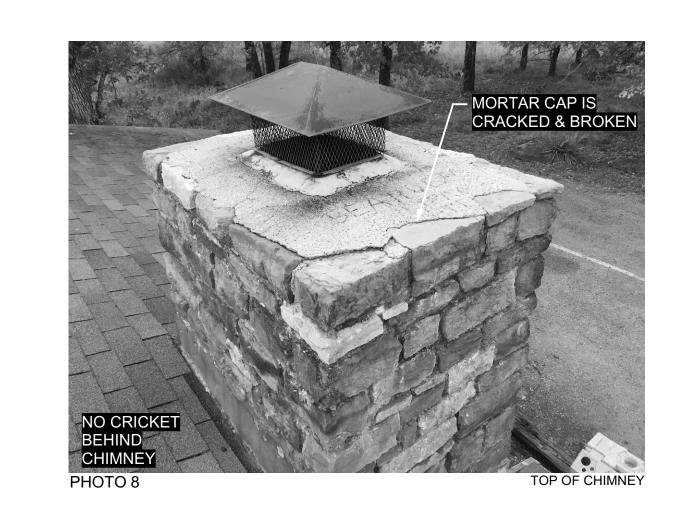


EXTENDED RAKE



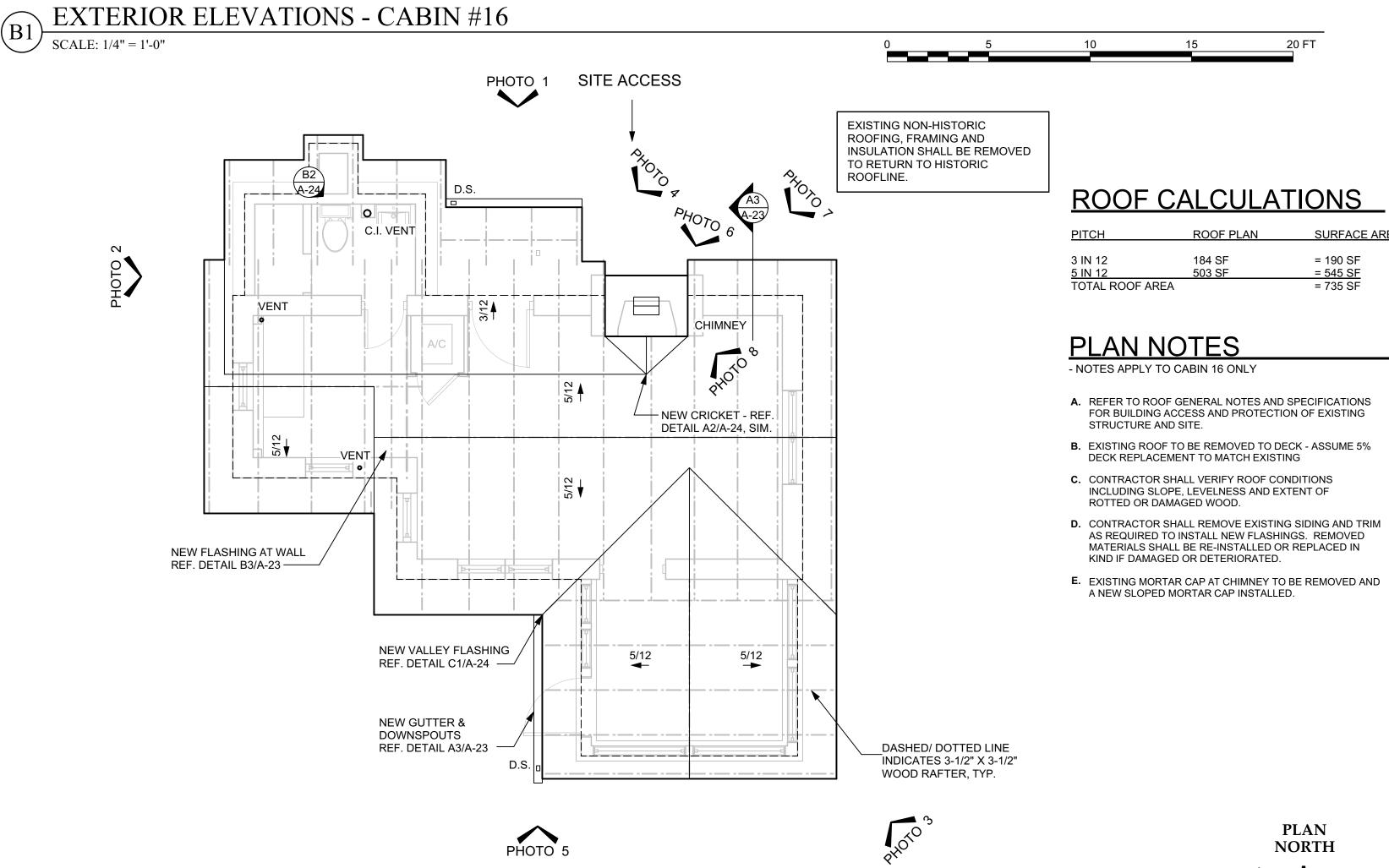


PHOTO 5



A2 ROOF PLAN - CABIN #16

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



SURFACE AREA

DATE: 04/26/2021 DESIGNED BY:

CHRIS H. DRAWN BY: PAT N.

REVIEWED BY:

no. revision.

PARKS &

**WILDLIFE** 

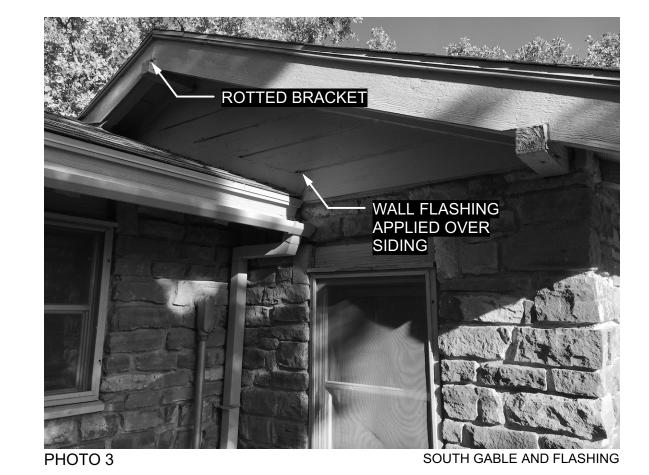
SHEET TITLE

CABIN #16 - ROOF PLAN & ELEVATIONS

SHEET NUMBER



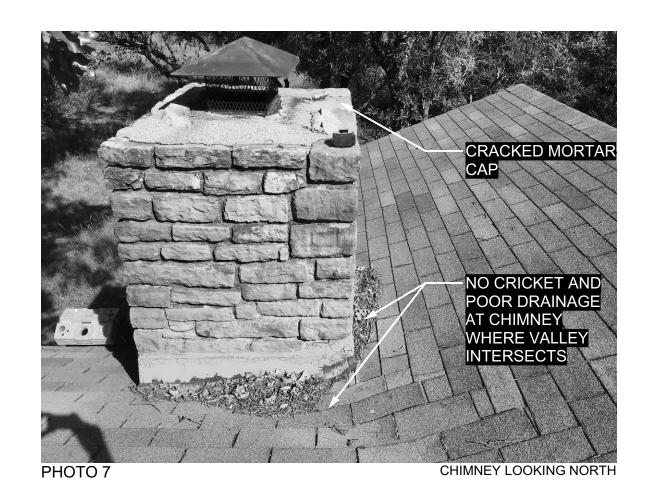


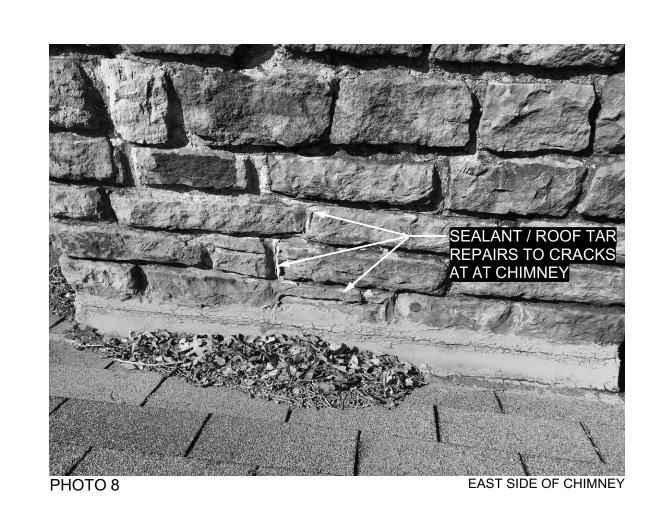


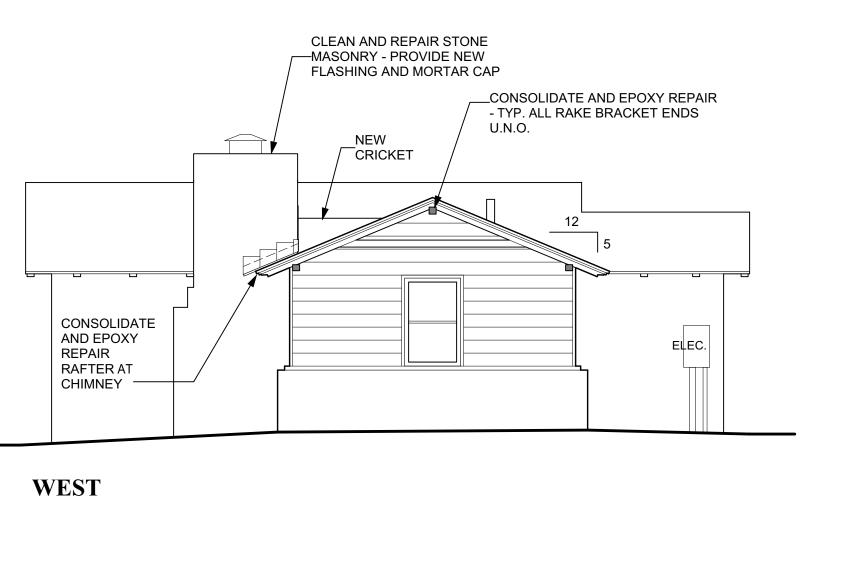


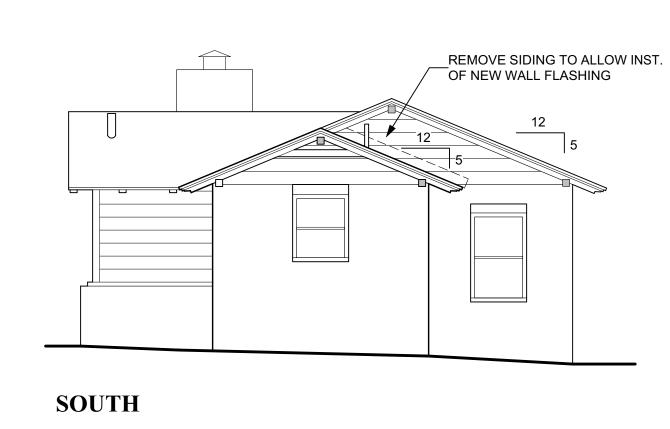


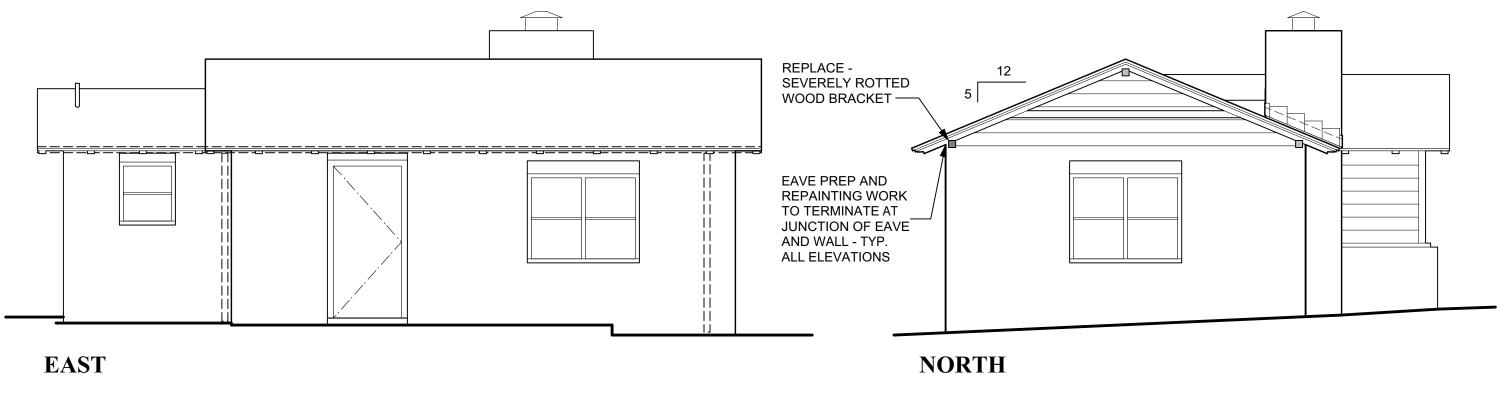




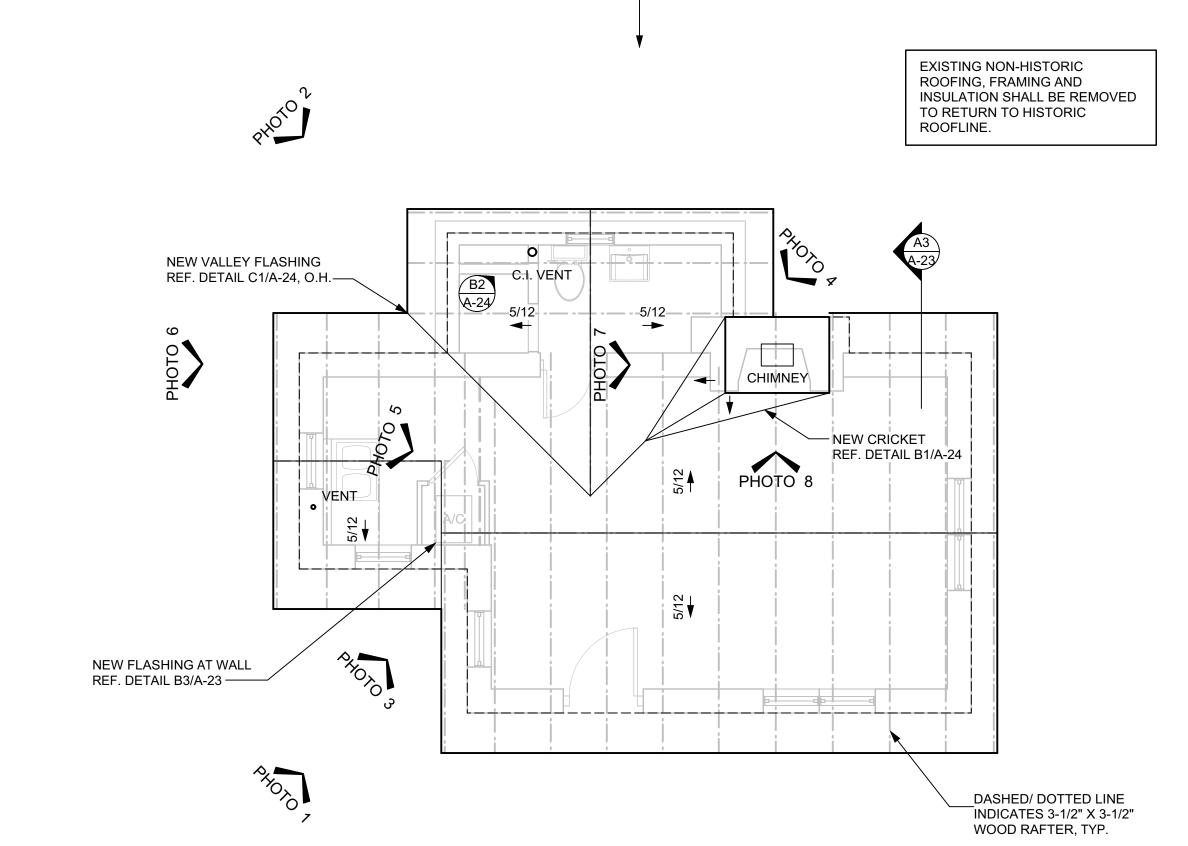












SITE ACCESS

# ROOF CALCULATIONS

PITCH	ROOF PLAN	SURFACE ARE
5 IN 12	570 SF	= 618 SF
TOTAL ROOF AREA		= 618 SF

# PLAN NOTES

- NOTES APPLY TO CABIN 17 ONLY

- A. REFER TO ROOF GENERAL NOTES AND SPECIFICATIONS FOR BUILDING ACCESS AND PROTECTION OF EXISTING STRUCTURE AND SITE.
- **B.** EXISTING ROOF TO BE REMOVED TO DECK ASSUME 5% DECK REPLACEMENT TO MATCH EXISTING
- C. CONTRACTOR SHALL VERIFY ROOF CONDITIONS INCLUDING SLOPE, LEVELNESS AND EXTENT OF ROTTED OR DAMAGED WOOD.
- D. CONTRACTOR SHALL REMOVE EXISTING SIDING AND TRIM AS REQUIRED TO INSTALL NEW FLASHINGS. REMOVED MATERIALS SHALL BE RE-INSTALLED OR REPLACED IN KIND IF DAMAGED OR DETERIORATED.
- E. CONTRACTOR SHALL FRAME NEW CRICKET AT REAR OF CHIMNEY TO DRAIN WATER - REFER TO DETAILS FOR ATTACMENT TO MASONRY.
- F. EXISTING MORTAR CAP AT CHIMNEY TO BE REMOVED AND A NEW SLOPED MORTAR CAP INSTALLED.



SHEET NUMBER

SHEET TITLE

CABIN #17 - ROOF PLAN & ELEVATIONS

DATE: 04/26/2021 DESIGNED BY:

CHRIS H.
DRAWN BY: PAT N.
REVIEWED BY:

no. revision.

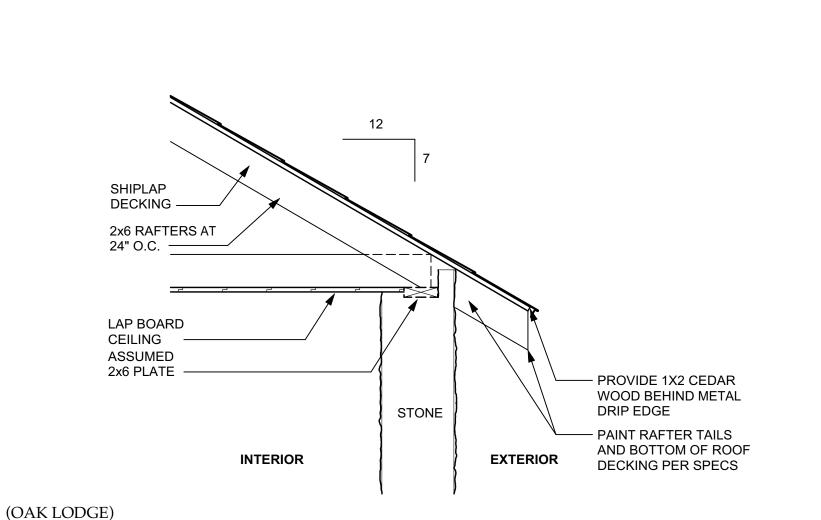
PARKS &

WILDLIFE

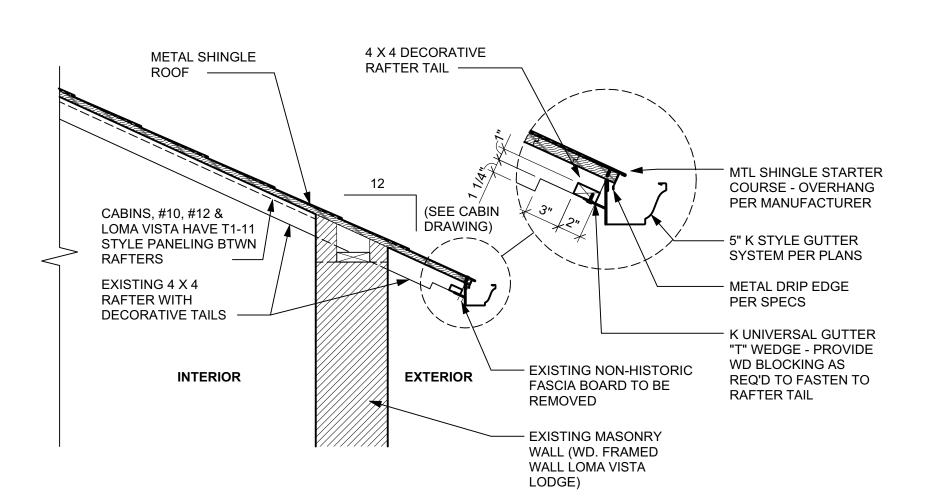


(STAIRCASE PAVILION)

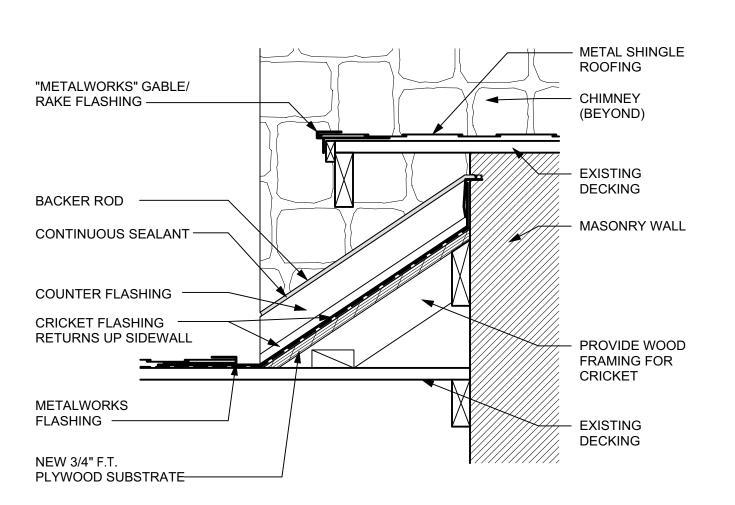
## SECTION DETAIL - EAVE @ ROOF



SECTION - EAVE @ MASONRY WALL

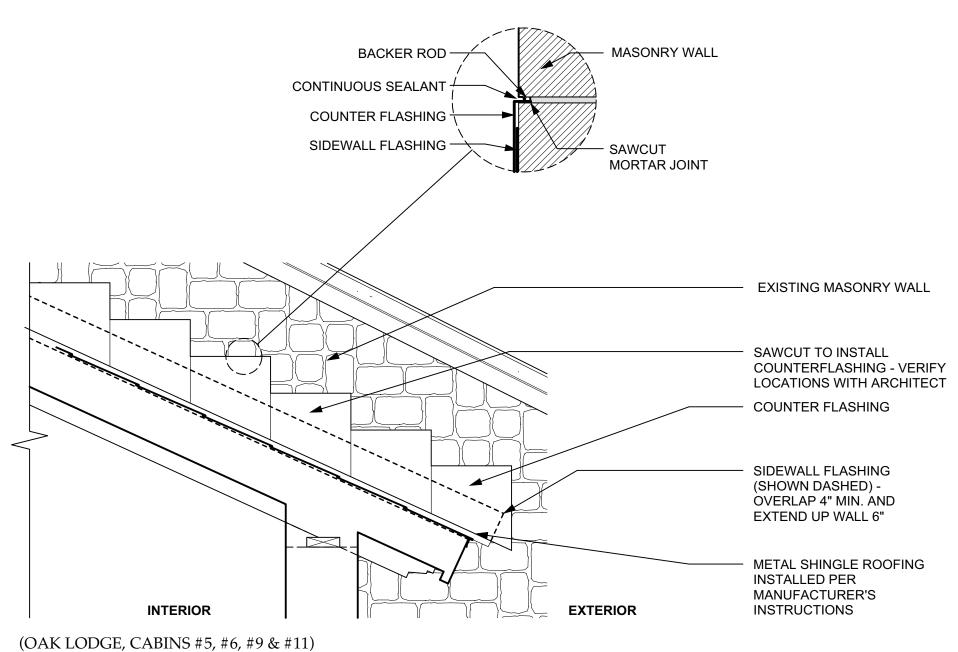


(CABINS #5, #6, #10, #12 & LOMA VISTA) SECTION DETAIL - EAVE @ ROOF TYPE "A"

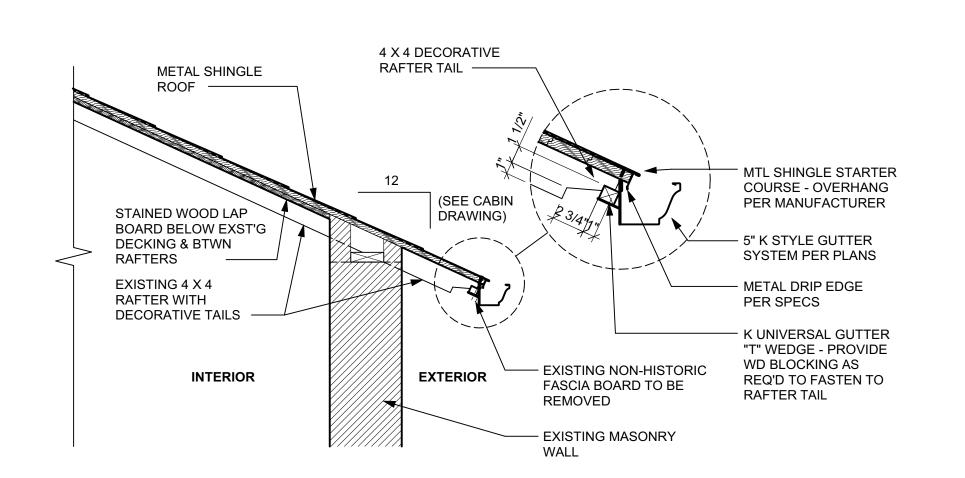


(OAK LODGE)

## DETAIL - CRICKET @ ABANDONED CHIMNEY



SECTION DETAIL - SIDEWALL FLASHING @ MASONRY WALL



(CABINS #7, #9, #11 & #13) SECTION DETAIL - EAVE @ ROOF TYPE "B"

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

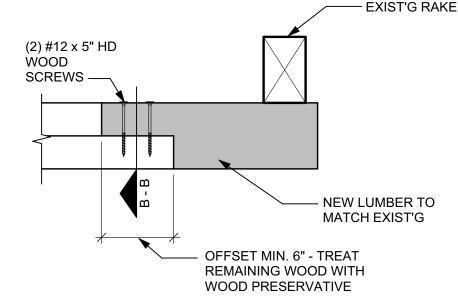
REPLACE CAP AT ALL BEAM ENDS **VERIFY AND** CHAMFER TO MATCH ALL SIZES MATCH EXST'G 8 1/2" SECTION B - B SECTION A - A (2) #12 x 5" HD (4) #12 x 5" HD WOOD WOOD SCREWS\_ SCREWS — SEAL BEAM END AND INSTALL NEW WD CAP W/ S.S. SCREWS NEW LUMBER TO MATCH EXIST'G MATCH EXIST'G OFFSET MIN. 6" -

SIDE ELEVATION (CABIN #10 ONLY)

TREAT REMAINING WOOD

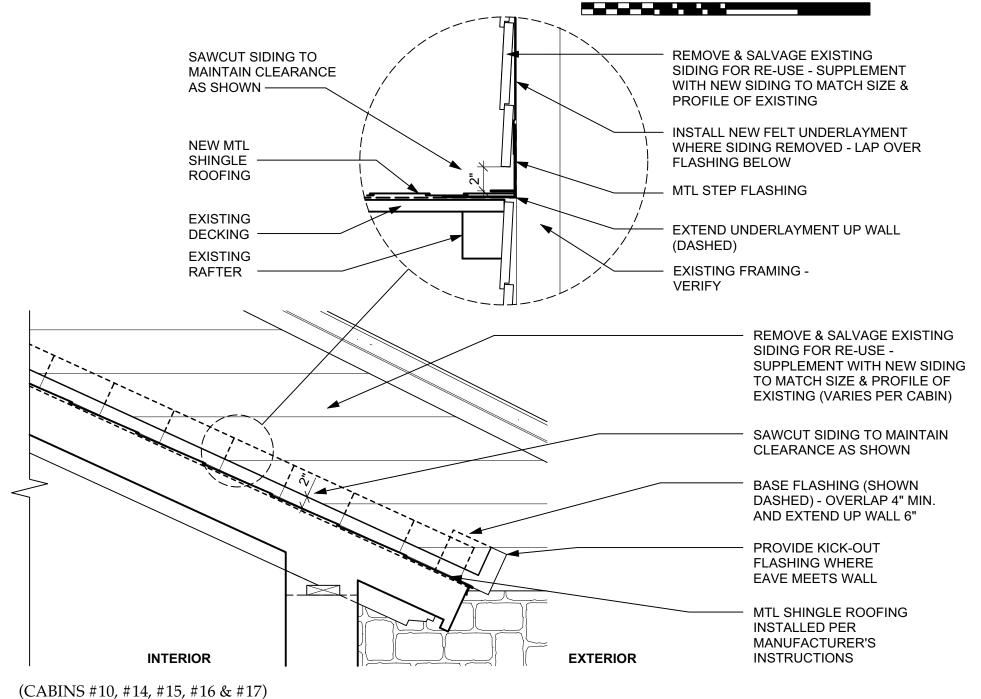
WITH WOOD

PRESERVATIVE -

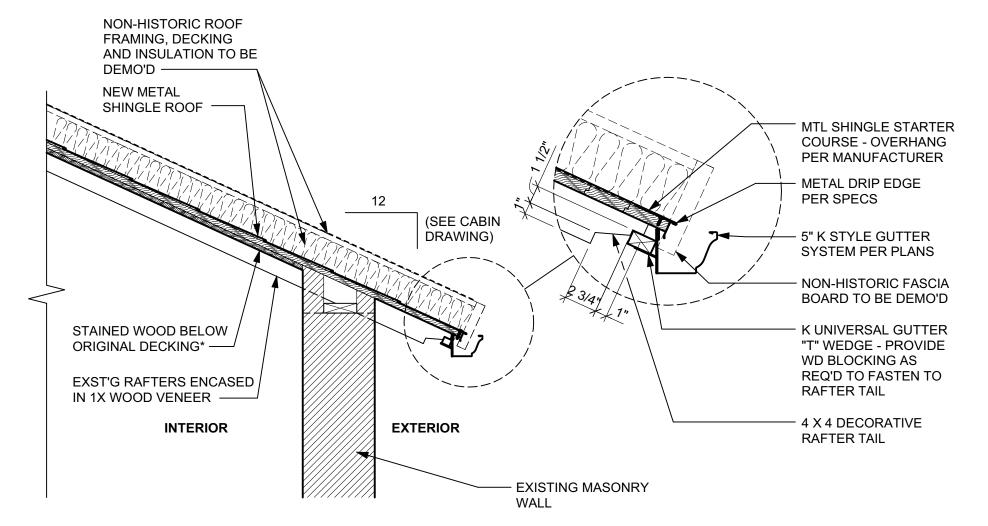


SIDE ELEVATION (ALL OTHER LOCATIONS)

DETAIL - BEAM END REPLACEMENT



SECTION DETAIL - SIDEWALL FLASHING @ SIDING



\* CABINS #14 & #15 HAVE WOOD LAP BOARD BTWN INTERIOR RAFTERS. CABINS #16 AND #17 HAVE V-GROOVE BOARD BTWN RAFTERS.

(CABINS #14, #15, #16 & #17) SECTION DETAIL - EAVE @ ROOF TYPE "C"

TEXAS PARKS & WILDLIFE

Fallagh

DATE: 04/26/2021 **DESIGNED BY:** CHRIS H. DRAWN BY: PAT N. REVIEWED BY:

BR

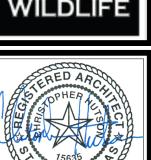
no. revision. date

SHEET TITLE STAIRCASE PAVILLION, OAK LODGE,LOMA VISTA LODGE & CABINS -**ROOF DETAILS** 

SHEET NUMBER

A-23

PARKS & **WILDLIFE** 



Gallagh utson

DATE: 04/26/2021 **DESIGNED BY:** CHRIS H. DRAWN BY: PAT N. REVIEWED BY:

no. revision.

SHEET TITLE OAK LODGE & **CABINS - ROOF** DETAILS

SHEET NUMBER

#### COORDINATION

- THE CONTRACTOR SHALL COMPARE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL ELECTRICAL, PLUMBING, AND OTHER SERIES DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS PRIOR TO FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR FLOOR ELEVATIONS, SLOPES, DRAINS AND LOCATION OF DEPRESSED AND ELEVATED FLOOR AREAS.
- THE DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE STRUCTURAL DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE
- ALL DIMENSIONS AND CONDITIONS OF EXISTING CONSTRUCTION SHALL BE VERIFIED AT THE JOB SITE PRIOR TO THE PREPARATION OF SHOP DRAWINGS. DIFFERENCES BETWEEN EXISTING CONSTRUCTION AND THAT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE REFERRED TO THE ARCHITECT. DIFFERENCES SHALL ALSO BE CLOUDED ON THE SHOP DRAWINGS. CUTTING OR CORING OF ANY STRUCTURAL CONCRETE OR STEEL ELEMENTS SHALL BE COORDINATED WITH THE ENGINEER.
- ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE LATERAL-LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND THE STRUCTURE IS COMPLETELY TIED TOGETHER. TEMPORARY SUPPORTS SHALL NOT RESULT IN THE OVERSTRESS OR DAMAGE OF THE ELEMENTS TO BE BRACED NOR ANY ELEMENTS USED AS BRACE SUPPORTS.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR AND THEIR SUB-CONTRACTORS SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES AND SAFETY MEASURES INCLUDING, BUT NOT LIMITED TO, ADHERENCES TO ALL OSHA GUIDELINES. THE ENGINEER SHALL NOT HAVE CONTROL OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THESE PERSONS TO CARRY OUT THE WORK IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS.
- WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.
- PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF TSEN ENGINEERING IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION IS NOT INTENDED TO BE A CHECK OF THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER A PERIODIC CHECK IN AN EFFORT TO INFORM THE OWNER AGAINST DEFECTS AND DEFICIENCIES IN THE WORK OF THE CONTRACTOR

#### **SUBSTITUTIONS**

- ALL REQUESTS FOR SUBSTITUTIONS OF MATERIALS OR DETAILS SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS SHALL BE SUBMITTED FOR APPROVAL DURING THE
- ONCE BIDS ARE ACCEPTED, PROPOSED SUBSTITUTIONS WILL BE CONSIDERED ONLY WHEN THEY ARE OFFICIALLY SUBMITTED WITH AN IDENTIFIED SAVINGS OR DURATION TO BE DEDUCTED FROM THE CONTRACT AND/OR SCHEDULE IMPACT. A STATEMENT THAT THE GC WILL ASSUME ANY UNIDENTIFIED COST IMPACT RELATED TO THE SUBSTITUTION SHALL ALSO BE PROVIDED. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.

### **CODES & REFERENCED REPORTS**

- A. THE GENERAL BUILDING CODE(S) USED AS THE BASIS FOR THE STRUCTURAL DESIGN ARE AS FOLLOWS:
- 1. INTERNATIONAL BUILDING CODE, 2015 EDITION 2. INTERNATIONAL EXISTING BUILDING CODE. 2015 EDITION
- WOOD FRAMING: NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION WITH
- SUPPLEMENT, NATIONAL FOREST AND PAPER PRODUCTS ASSOCIATION, AS REFERENCED BY THE GENERAL BUILDING CODE.

## **DESIGN LOADS**

- DEAD LOADS INCLUDE THE SELF-WEIGHT OF THE STRUCTURAL ELEMENTS AND THE FOLLOWING SUPERIMPOSED LOADS:
- CEILING AND MECHANICAL AT ROOF

ROOFING AND RIGID INSULATION

10 PSF 8 PSF

LIVE LOADS INCLUDE THE FOLLOWING UNIFORMLY DISTRIBUTED LOADS OR CONCENTRATED LOADS, WHICHEVER PRODUCES THE GREATER LOAD EFFECTS.

	OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs.)
	1. ROOF - UNREDUCED	16	N/A
C.	SNOW LOADS		
	<ol> <li>GROUND SNOW LOAD, Pg</li> </ol>		5 PSF
D	WINDLOADS		

WIND LATERAL LOAD ON STRUCTURAL FRAME IS BASED ON ASCE 7-10 USING THE FOLLOWING:

BASIC WIND SPEED (ULTIMATE) 115 MPH **EXPOSURE** c. INTERNAL PRESSURE COEFFICIENT, Gcpi +/-0.18 d. RISK CATEGORY

#### **TIMBER FRAMING**

- A. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, ALL STRUCTURAL FRAMING LUMBER SHALL BE CLEARLY MARKED NO. 1 DOUGLAS FIR
- WOOD PRESERVATIVE TREATED LUMBER (PRESSURE TREATED):
- 1. PRESERVATIVE TREATED LUMBER SHALL BE DOUGLAS FIR AND SHALL BE TREATED
- PRESERVATIVE TREATMENT BY PRESSURE PROCESS SHOULD BE PERFORMED ACCORDING TO THE AWPA METHODS DESCRIBED BELOW. THE PRESERVATIVE CHEMICALS SHALL BE WATERBORNE AND CAN INCLUDE ALKALINE COPPER QUAT (ACQ-C, ACQ-D) AND COPPER AZOLE (CBA-C & CA-B) FOR INTERIOR OR EXTERIOR USES AND INORGANIC BORON (SBX) FOR INTERIOR USE ONLY. PRESERVATIVE SHALL NOT CONTAIN ARSENIC OR CHROMIUM AND SHALL NOT CONTAIN AMMONIA CARRIERS.
- WOOD INSTALLED FOR ABOVE GROUND USE SHALL BE PRESERVATIVE TREATED USING WATER-BORNE PRESERVATIVES IN ACCORDANCE WITH AWPA U2, USE CATEGORY UC3B. THE LOCATIONS TO BE TREATED ARE AS FOLLOWS:
- a. WOOD JOISTS OR WOOD FLOOR WITHOUT JOISTS ARE CLOSER THAN 18 INCHES OR WOOD GIRDERS ARE CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRAWL SPACE.
- WOOD FRAMING MEMBERS INCLUDING WOOD SHEATHING WHICH REST ON EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8INCHES FROM THE
- WOOD FRAMING MEMBERS OR FURRING STRIPS ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR OR CONCRETE WALLS BELOW GRADE.
- WOOD SLEEPERS AND SILL PLATES ON CONCRETE OR MASONRY SLAB THAT IS
- IN DIRECT CONTACT WITH EARTH. WOOD GIRDER ENDS SUPPORTED BY EXTERIOR MASONRY OR CONCRETE WALLS UNLESS 1/2 INCH AIRSPACE IS PROVIDED ON TOP, SIDES, AND END.
- WOOD SIDING CLOSER THAN 6 INCHES TO EARTH.
- POSTS OR COLUMNS SUPPORTED DIRECTLY ON A FOOTING UNLESS SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER AND A MINIMUM 6 INCHES ABOVE GRADE AND 1 INCH ABOVE SLAB WHERE A SLAB EXISTS OR 8 INCHES ABOVE EARTH ON A CONCRETE PIER WHERE NO SLAB EXISTS.
- h. PORTIONS OF GLUED-LAMINATED TIMBERS EXPOSED TO WEATHER. WOOD IN CONTACT WITH GROUND (EXPOSED EARTH) OR FRESH WATER SHALL BE PRESERVATIVE TREATED USING WATER-BORNE PRESERVATIVES IN ACCORDANCE WITH AWPA U1, WITH USE CATEGORY UC4C.
- WOOD MEMBER THAT FORM SUPPORTS OF BUILDINGS, BALCONIES, PORCHES, OR SIMILAR PERMANENT BUILDING APPURTENANCES WHERE SUCH MEMBERS ARE EXPOSED TO THE WEATHER WITHOUT ADEQUATE PROTECTION FROM THE ROOF, EAVE, OVERHANG, ETC. TO PREVENT WATER ACCUMULATION ON THE SURFACE OR BETWEEN JOINTS SHALL BE PRESERVATIVE TREATED USING WATER-BORNE PRESERVATIVES IN ACCORDANCE WITH AWPA U1 WITH USE CATEGORY UC3A
- OTHER WOOD MEMBERS NOTED IN THE DRAWINGS SHALL BE PRESERVATIVE TREATED USING WATER-BORNE PRESERVATIVES IN ACCORDANCE WITH AWPA U1 WITH USE CATEGORY UC3A.
- C. ROOF SHEATHING: 3/4" SHIPLAP (MATCH EXISTING AND FIELD VERIFY DEPTH). PLANKS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS. NAIL WITH 8D COMMON NAILS AT 6" ON CENTER AT SUPPORTED EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS.
- D. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WOOD FRAMING MEMBERS. PROVIDE ADDITIONAL WOOD FRAMING MEMBERS SHOWN ON THE ARCHITECTURAL DRAWINGS EVEN THOUGH THEY MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.

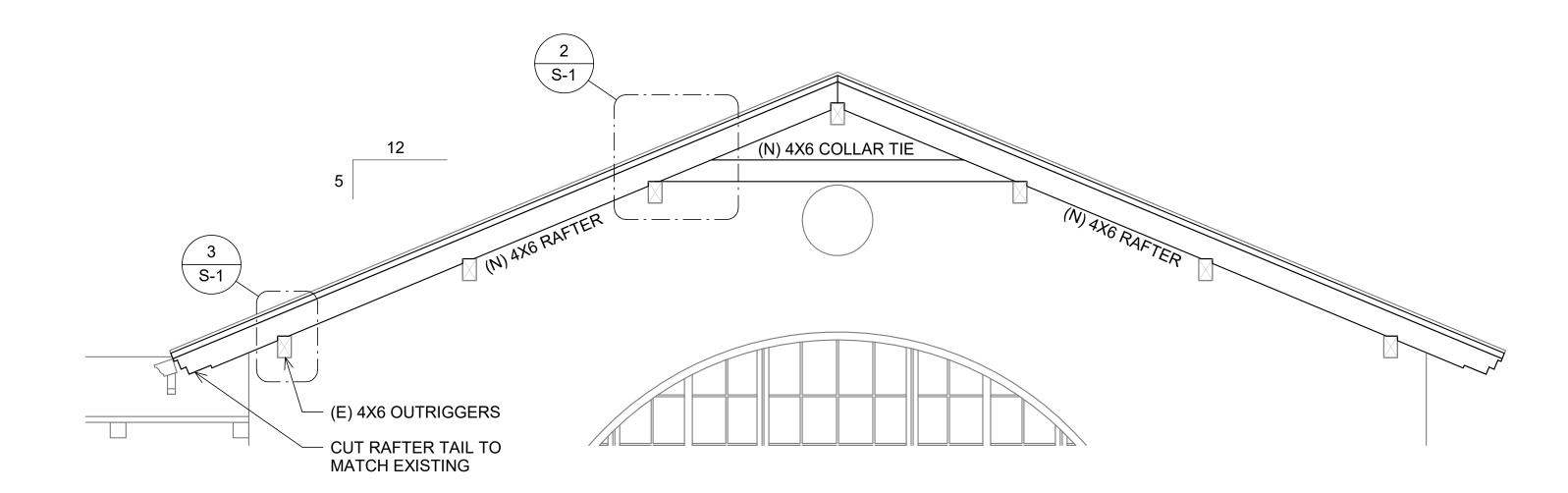
#### **TIMBER FRAMING CONNECTIONS**

A. NAILING AND ATTACHMENT OF ALL FRAMING MEMBERS AND SHEATHING SHALL BE AS SPECIFIED IN THE INTERNATIONAL BUILDING CODE NAILING SCHEDULE UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS. COMMON WIRE NAILS OR SPIKES. OR GALVANIZED BOX NAILS SHALL BE USED FOR ALL FRAMING UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS. LIST OF FASTENERS (WITH PENNY WEIGHT/NAIL TYPE CONVERSIONS) USED IN TABLE R602.3(1) AND THROUGHOUT THE DRAWINGS ARE AS FOLLOWS:

### NAIL SIZE

2 1/2" X 0.113" (8d BOX) 2 1/2" X 0.131" (8d COMMON)

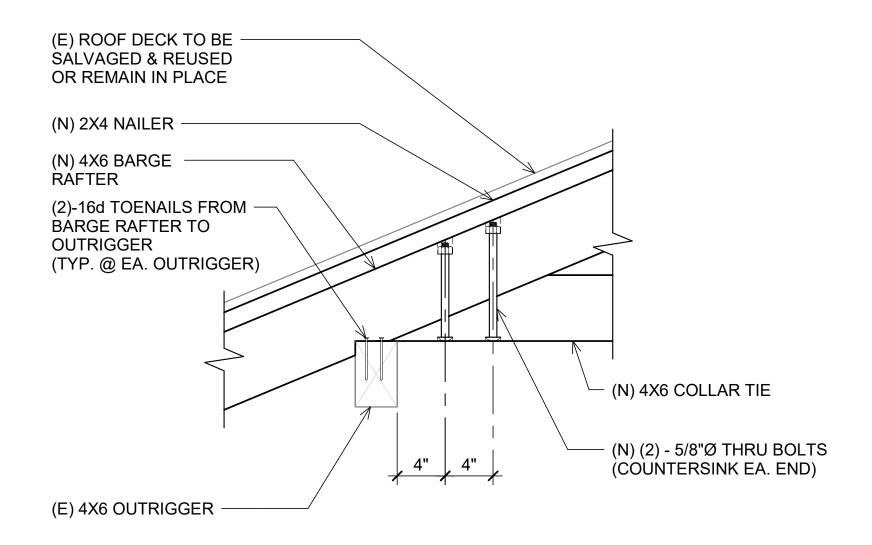
- 3" X 0.128" (10d BOX) 3" X 0.131"
- 3" X 0.148" (10d COMMON)
- 3 1/2" X 0.135" (16d BOX)
- 3 1/2" X 0.162" (16d COMMON)
- ALL BOLTS AND LAG SCREWS SHALL HAVE STANDARD WASHERS. ALL ANCHOR AND EXPANSION BOLTS USED IN WOOD TO CONCRETE CONNECTIONS IN CRAWLSPACE AREAS SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL.

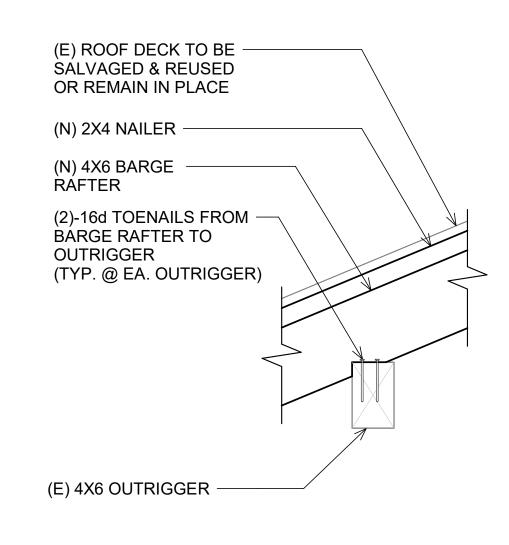


# BARGE RAFTER REPLACEMENT - SOUTH ELEVATION (NORTH ELEVATION SIM.) SCALE: 1/2" = 1'-0"

#### PLAN NOTES:

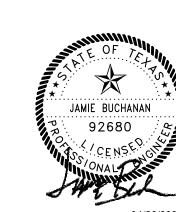
1. ALL LUMBER TO BE PRESSURE TREATED DOUGLAS FIR NO. 1 GRADE.







TPBE Firm F-12778 210 Barton Springs Rd. Ste. 250 Austin, TX 78704 (512) 474 4001 Project # 9210015



BARGE RAFTER REPLACEMENT

SHEET TITLE

SHEET NUMBER

DATE: 04/26/2021 DESIGNED BY: JB DRAWN BY: AA REVIEWED BY: JB

no. revision. date

TEXAS

PARKS 8

WILDLIFE