GENERAL NOTES:

SPECIFICATIONS, MATERIALS AND CONSTRUCTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR CONSTRUCTION OF TRAILS AND TRAIL BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-03) AND STANDARD SPECIFICATIONS FOR CONSTRUCTION OF TRAILS AND TRAIL BRIDGES ON FEDERAL PROJECTS.

LOG MEMBERS: LOGS USED FOR STRINGERS SHALL BE DOUGLAS FIR OR WESTERN LARCH WITH MINIMUM FEEDER, MID-SPAN LOG DIAMETER AS NOTED FOR THE VARIOUS SPAN AND DESIGN LOADING. NATIVE TREES TO BE USED FOR BRIDGE STRINGERS SHALL BE STRAIGHT, SOUND, AND FREE OF DEFECTS AND NOT STRINGERS SHALL BE CHOSEN FROM TREES WITH RELATIVELY FEW LUNKS AND HAVE NO KNOT GREATER THAN 3-INCH IN DIAMETER. LOGS SHALL BE CARRIED AT ENDS TO CREATE A LEVEL SEEING SURFACE AT SUPPORTS TAKING CARE TO AVOID CUTTING. HEAVY UPPER SURFACE OF LOGS TO PROVIDE A LEVEL SEEING SURFACE REFERS TO PLANS FOR HEAT DETAILS.

TIMBER & TIMBER: STRINGER TIMBER MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF THE GROWING RULES AGENCY FOR THE SPECIES, TYPE, AND GRADE SPECIFIED BELOW.

DECK PLANKS, SILLS, AND BACKING PLANKS:
- SOUTHERN PINE NO.2 GRADE GRADING RULES AGENCY = SPB
- RUNNING PLANKS:
  - SOUTHERN PINE NO.2 GRADE GRADING RULES AGENCY = SPB
- Rails & Posts (See Project Criteria):
  - SAWN - Untreated
  - KILNCURED, S4S, NO.1 GRADE GRADING RULES AGENCY = SPB
  - WHITE OAK, S4S, SELECT STRUCTURAL GRADE GRADING RULES AGENCY = NELMA
  - SAWN - TREATED
  - SOUTHERN PINE, S4S, NO. 2 GRADE GRADING RULES AGENCY = SPB
- POLES:
  - SOUTHERN PINE, FEEDER AND DRIED GRADING RULES AGENCY = SPB

TREATMENT: SEE PROJECT CRITERIA FOR MEMBERS IDENTIFIED TO BE TREATED AND FOR TREATMENT TYPE. PRESERVATIVE TREATMENT SHALL BE IN ACCORDANCE WITH THE CURRENT AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) SPECIFICATIONS USING THE TREATMENT MATERIALS LISTED BELOW. TREATMENT WILL COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE NORTHERN WOOD PRESERVERS INSTITUTE (NWPI) "BEST MANAGEMENT PRACTICES FOR THE USE OF TREATED WOOD IN AQUATIC ENVIRONMENTS".

STRINGERS, DECKING, RUNNING PLANKS, & RAILING SYSTEM, IF TREATED:
- AWPA USE CATEGORY SYSTEM (U) FOR USE CATEGORY 3B ABOVE GROUND-EXPOSED (LC30)
- PENTACHLORPHENOL IN LIGHT OIL (TYPE C SOLVENT)
- COPPER NAPHTHALENATE (CNA) IN LIGHT OIL (TYPE C SOLVENT)
- Sills, Backing Planks, Obs, & Timber Walls, if Treated:
  - AWPA USE CATEGORY SYSTEM (U) FOR USE CATEGORY 4B GROUND CONTACT-HEAVY DUTY (LC4B)
  - PENTACHLORPHENOL IN HEAVY OIL (TYPE A SOLVENT)
  - COPPER NAPHTHALENATE (CNA) IN HEAVY OIL (TYPE A SOLVENT)

FIELD TREATMENT: COPPER NAPHTHALENATE (CNA) SOLUTION SHALL BE FURNISHED FOR FIELD TREATMENT OF WOOD. ALL ABRASIONS AND FIELD CUTS - APPROVED BY THE CIR - SHALL BE CAREFULLY TRIMMED AND GIVEN THREE BRUSH COATS OF THE FIELD TREATMENT SOLUTION. WHERE APPROVED, FIELD DRILLING OF BOLT, SCREW OR NAIL HOLE IS REQUIRED, THE HOLES SHALL BE FILLED WITH PRESERVATIVE PRIOR TO INSERTING THE FASTENERS.

THE ENDS OF UNTREATED LOG STRINGERS (REFER TO THE PROJECT DESIGN CRITERIA) SHALL ALSO RECEIVE THREE BRUSH COATS OF THE FIELD TREATMENT PRIOR TO INSTALLATION OF THE STRINGER BLOCKS.

WATER AND STRUCTURAL STEEL: SEE PROJECT DESIGN CRITERIA FOR STEEL HARDWARE. GAIN-ASSEMBLED OR CEMENTED HARDWARE SHALL MEET THE REQUIREMENTS OF ASTM A490, GRADE 50. WOOD-NUTS AND BOLTS CONFIRMING TO ASTM A325, GRADE 5 WARMING STEEL AND HARDWARE SHALL MEET THE REQUIREMENTS OF ASTM A490, GRADE 50, WITH BOLTS AND NUTS CONFIRMING TO ASTM A325, TYPE 3, USE WORLDE WORM WASHERS AGAINST WOOD UNLESS OTHERWISE NOTED.

WHEN STRUCTURAL STEEL IS TO BE WELDED, THE WELDING PROCEDURE SHALL BE IN ACCORDANCE WITH AWS D1.1 AND SHALL BE SUITABLE FOR THE GRADE OF STEEL AND INTENDED USE OR SERVICE.

FABRICATION: SUBMIT SHOP DRAWINGS FOR ALL MANUFACTURED BRIDGE COMPONENTS (EXCEPT STRINGER RUNNING PLANKS). SHOW ALL DIMENSIONS AND FABRICATION DETAILS FOR ALL CUT OR BORED TIMBERS, FIELD DRILLING OF HOLES SHALL NOT BE ALLOWED UNLESS OTHERWISE NOTED ON THE PLANS.

TREES TO BE USED FOR STRINGERS SHALL BE FEEDER AND THEN HAVE AN ADDED 1/2-INCH OF THE OUTER SAWMILL REMOVED PRIOR TO BEING USED FOR STRINGERS.