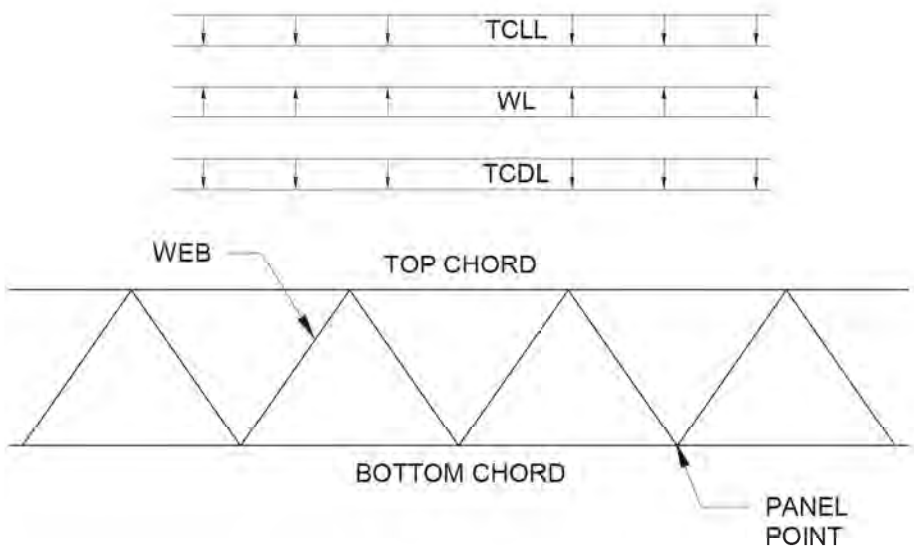


WOOD SHEATHING

- A. GENERAL
- WOOD SHEATHING REFERS TO WOOD STRUCTURAL PANELS, OF EITHER PLYWOOD OR ORIENTED STRAND BOARD (OSB).
 - WOOD SHEATHING IS APA-RATED SHEATHING, COMPLYING WITH PRODUCT STANDARD DOC PS1 OR DOC PS2. WOOD SHEATHING MANUFACTURER MUST BE A MEMBER OF THE AMERICAN PLYWOOD ASSOCIATION (APA).
 - PROTECT WOOD SHEATHING FROM WEATHER AND PROVIDE FOR AIR CIRCULATION AROUND STACKS AND UNDER COVERINGS.
 - PANELS MUST HAVE FACTORY MARKS INDICATING COMPLIANCE WITH APPLICABLE STANDARDS.
 - THICKNESS NOT LESS THAN INDICATED, AND AS REQUIRED TO COMPLY WITH SPECIFIED REQUIREMENTS.
 - INSTALL SHEATHING WITH THE STRENGTH DIRECTION (TYPICALLY LONG DIMENSION) PERPENDICULAR TO FRAMING AND WITH END JOINTS STAGGERED.
 - DO NOT USE MATERIALS WITH DEFECTS IMPAIRING THE QUALITY OF SHEATHING OR PIECES TOO SMALL TO USE WITH MINIMUM NUMBER OF JOINTS. LAYOUT PANELS TO SPAN BETWEEN AT LEAST THREE SUPPORT MEMBERS.
 - COORDINATE SHEATHING INSTALLATION WITH FLASHING AND JOINT-SEALANT INSTALLATION SO MATERIALS ARE INSTALLED IN A SEQUENCE AND MANNER PREVENTING EXTERIOR MOISTURE FROM PASSING THROUGH THE COMPLETED ASSEMBLY.
 - DO NOT BRIDGE BUILDING EXPANSION JOINTS.
 - WHERE EITHER 2 INCH OR 2 1/2 INCH FASTENER SPACINGS ARE SPECIFIED TO 2 INCH OR LESS FRAMING MEMBERS, THE FRAMING MEMBER AT ADJOINING PANEL EDGES MUST BE 2 1/2 INCH WIDE OR GREATER. STAGGER FASTENERS AT PANEL EDGES IN TWO LINES.
- B. PRESERVATIVE-TREATED (PT):
- PRESERVATIVE TREATMENT PROCESS: AWPA U1
 - CATEGORY UC2 FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND
 - CATEGORY UC3b FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND
 - CATEGORY UC4a FOR ITEMS IN CONTACT WITH GROUND
 - CHEMICALS USED MUST BE ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND NOT CONTAIN ARSENIC, CHROMIUM, NOR AMMONIA-CAL COPPER ZINC ARSENATE (ACZA).
 - MARK SHEATHING WITH APPROPRIATE CLASSIFICATION MARKING OF AN INSPECTION AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
 - UNLESS NOTED OTHERWISE, INSTALL PT SHEATHING IN CONTACT WITH MASONRY, MORTAR, GROUT OR CONCRETE, OR, WHEN USED WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATER PROOFING.
- C. WALL SHEATHING
- SPAN RATING: NOT LESS THAN 32/16
 - NOMINAL THICKNESS: NOT LESS THAN 1/2 INCH
 - EXPOSURE AND DURABILITY CLASSIFICATION: EXPOSURE 1
 - FASTENING METHOD, UNLESS NOTED OTHERWISE:
 - FASTENERS: 10d RING SHANK NAILS
 - BOUNDARY EDGE SPACING: 6 INCHES OC
 - PANEL EDGE SPACING: 6 INCHES OC
 - FIELD SPACING: 12 INCHES OC
 - REFERENCE SHEARWALL DETAILS FOR SHEARWALL SHEATHING FASTENING, BLOCKING AND OTHER DETAILS.
- D. ROOF SHEATHING
- SPAN RATING: NOT LESS THAN 40/20
 - NOMINAL THICKNESS: NOT LESS THAN 5/8 INCH
 - EXPOSURE AND DURABILITY CLASSIFICATION: EXPOSURE 1
 - FASTENING METHOD, UNLESS NOTED OTHERWISE:
 - FASTENERS: 8d RING SHANK NAILS
 - BOUNDARY EDGE SPACING: 4 INCHES OC
 - PANEL EDGE SPACING: 6 INCHES OC
 - FIELD SPACING: 12 INCHES OC
 - UNLESS NOTED OTHERWISE, INSTALL BLOCKING AT ALL SHEATHING EDGES AND FASTEN SHEATHING EDGES TO BLOCKING ACCORDING TO PANEL EDGE SPACING.
- E. FASTENERS
- AS A MINIMUM, FASTENING TO COMPLY WITH THE "FASTENING SCHEDULE" OF THE REFERENCED BUILDING CODE AND THE ICC-ES EVALUATION REPORT FOR FASTENERS
 - USE STEEL COMMON NAILS INTO WOOD FRAMING AND SCREWS INTO COLD-FORMED METAL FRAMING, UNLESS NOTED OTHERWISE.
 - NAILS, BRADS, AND STAPLES: ASTM F1667.
 - SCREWS FOR FASTENING SHEATHING TO WOOD FRAMING: ASTM C1002.
 - SCREWS FOR FASTENING SHEATHING TO COLD-FORMED METAL FRAMING: ASTM C954, EXCEPT WITH WAFER HEADS (MIN HEAD DIA=0.333 INCHES) AND REAMER WINGS, LENGTH AS RECOMMENDED BY SCREW MANUFACTURER.
 - FOR ROOF, PARAPET, AND WALL SHEATHING, USE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A153 OR TYPE 304 STAINLESS STEEL.
 - FOR ROOF, PARAPET, AND WALL SHEATHING WITH ORGANIC-POLYMER OR OTHER CORROSION-PROTECTION COATINGS, USE FASTENERS WITH A SALT-SPRAY RESISTANCE OF MORE THAN 800 HOURS ACCORDING TO ASTM B117.

PREFABRICATED WOOD TRUSSES

- A. DESIGN TRUSSES IN ACCORDANCE WITH THE "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" (NDS) AND ITS "SUPPLEMENT", AS WELL AS THE TRUSS PLATE INSTITUTE (TPI). DESIGN TRUSSES FOR THE DESIGN CRITERIA INDICATED.
- B. FABRICATE, INSTALL AND BRACE TRUSSES IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE (TPI).
- C. SUBMIT SHOP DRAWINGS AND CALCULATIONS SEALED BY REGISTERED PROFESSIONAL ENGINEER, INCLUDING TRUSS LAYOUT, TRUSS PROFILES, INSTALLATION INSTRUCTIONS, DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. DESIGN TRUSSES USING 'PIN' CONNECTION AT ONE SUPPORT AND 'ROLLER' CONNECTION AT OTHER SUPPORT LOCATIONS. 'PIN' IS DEFINED AS A SUPPORT RESISTING VERTICAL AND HORIZONTAL LOADS. 'ROLLER' IS DEFINED AS RESISTING ONLY VERTICAL LOADS. DO NOT FABRICATE TRUSSES UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED AND RETURNED. DESIGN TRUSSES TO BEAR ONLY ON THE STRUCTURAL SUPPORT MEMBERS INDICATED.
- D. WOOD FRAMING MEMBERS: PS 20 'AMERICAN SOFTWOOD LUMBER STANDARD'
- DOUGLAS FIR LARCH NO. 2 OR BETTER, SPIB
 - 19 PERCENT MAXIMUM MOISTURE CONTENT
 - SELECT FRAMING MEMBERS SO KNOTS OR OTHER WOOD IMPERFECTIONS DO NOT OCCUR AT PANEL POINTS/CONNECTOR PLATES.
- E. METAL CONNECTOR PLATES, UNLESS NOTED OTHERWISE:
- AT INDOOR LOCATIONS: ASTM A653 WITH G60 GALVANIZED COATING
 - AT PRESERVATIVE TREATED LUMBER: ASTM A653 WITH G185 GALVANIZED COATING TO 0.036 INCH MIN THICKNESS
- F. REFERENCE ROUGH CARPENTRY NOTES FOR WOOD-PRESERVATIVE-TREATED LUMBER
- G. LIMIT TRUSS AND MEMBER DEFLECTIONS PER REFERENCED BUILDING CODE.
- H. TRUSS TO TRUSS CONNECTIONS ARE BY THE TRUSS ENGINEER. WHERE MULTIPLE TRUSS PLIES ARE INDICATED, FASTEN TOGETHER AS INDICATED BY THE TRUSS MANUFACTURER.
- I. TRUSS CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION OF THE TRUSSES, OR AS RECOMMENDED BY THE MANUFACTURER AND TPI, IN ADDITION TO ANY BRACING INDICATED.
- J. DESIGN AND INSTALL BOTTOM CHORD BRACING WHERE CEILING SHEATHING DOES NOT ATTACH DIRECTLY TO TRUSS BOTTOM CHORD. COORDINATE EXTENTS OF CEILING SHEATHING WITH ARCHITECTURAL DRAWINGS.
- K. REFER TO THE ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES. TRUSS PROFILES INDICATED ON THE STRUCTURAL DRAWINGS ARE FOR SCHEMATIC PURPOSES ONLY. COORDINATE TRUSS WEB CONFIGURATION WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS. TRUSS MANUFACTURER MAY USE ALTERNATIVE TRUSS WEB CONFIGURATIONS SUBJECT TO APPROVAL OF THE ARCHITECT. ALIGN WEB MEMBERS IN ADJACENT TRUSSES OF THE SAME PROFILE TO PERMIT PASSAGE OF DUCTWORK.
- L. TRUSS ANCHORAGES AND HOLDOWNS ARE BASED ON TRUSS LAYOUT INDICATE. COORDINATE FINAL LOCATION OF GANGED STUDS AND HOLDOWNS WITH TRUSS SHOP DRAWINGS.
- M. INSTALL TRUSS HOLDOWNS PRIOR TO SHEATHING.
- N. DO NOT ALTER TRUSSES IN FIELD WITHOUT WRITTEN DIRECTION FROM TRUSS ENGINEER. DO NOT CUT, DRILL, NOTCH OR REMOVE TRUSS MEMBERS.
- O. TRUSS DIAGRAMS BELOW ARE FOR SCHEMATIC PURPOSES ONLY TO SHOW THE APPLICATION OF DESIGN LOADS. COMBINE LOADS PER THE REFERENCED BUILDING CODE.



ROOF TRUSS DESIGN CRITERIA

- TCCL = 10 PSF
TCLL = ROOF LIVE LOAD PER DESIGN CRITERIA
WL = WIND LOAD PER DESIGN CRITERIA
SL = SNOW LOAD (INCLUDING DRIFT) PER DESIGN CRITERIA
BCDL = 10 PSF
BCCL = 10 PSF

POST-INSTALLED ANCHORS

- A. ONLY USE POST-INSTALLED ANCHORS WHERE SPECIFIED ON THE DRAWINGS.
- B. OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
- C. LOCATE EXISTING REBAR, REINFORCING AND ANCHORS PRIOR TO DRILLING. DO NOT DAMAGE OR DISTURB EXISTING REBAR, REINFORCING OR ANCHORS.
- D. INSTALL ANCHORS ACCORDING TO MANUFACTURER'S INSTRUCTIONS, INCLUDING BUT NOT LIMITED TO: EXPIRATION DATE, INSTALLATION TEMPERATURE, DRILLING METHOD, HOLE SIZE, HOLE DEPTH, HOLE CLEANING, MIXING PROCEDURE, ANCHOR INSTALLATION AND CURING. CONTACT THE MANUFACTURER PRIOR TO DRILLING IF TRAINING IS REQUIRED.
- E. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR MINIMUM EDGE DISTANCES AND SPACING.
- F. UNLESS NOTED OTHERWISE, EMBED ANCHORS IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT REQUIRED TO SUPPORT THE INTENDED LOAD.
- G. ADHESIVE ANCHOR DESIGN BOND STRENGTH IS BASED ON CRACKED CONCRETE, ACI 355.4 TEMPERATURE CATEGORY B, AND INSTALLATIONS INTO DRY HOLES DRILLED USING A HAMMER DRILL INTO CONCRETE CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS MUST BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318.
- H. INSPECT ANCHOR INSTALLATION PER APPLICABLE BUILDING CODE AND SPECIAL INSPECTION REQUIREMENTS.
- I. SUBMIT SUBSTITUTION REQUESTS TO THE STRUCTURAL ENGINEER, INCLUDING CALCULATIONS PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER SHOWING THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE BUILDING CODE.

SPECIAL INSPECTIONS AND TESTING

- A. SPECIAL INSPECTIONS AND TESTING ARE PERFORMED IN ACCORDANCE WITH IBC CHAPTER 17 AND LOCAL JURISDICTION PROVISIONS, BY AN INDEPENDENT INSPECTION AND TESTING AGENCY. THE SPECIAL INSPECTOR MUST OBSERVE AND TEST THE WORK FOR CONFORMANCE TO THE CONTRACT DOCUMENTS.
- B. THE SPECIAL INSPECTOR MUST FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD, AND ALL OTHER DESIGNATED INDIVIDUALS. ALL DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF NOT CORRECTED, TO THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
- C. THE SPECIAL INSPECTOR MUST SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK IS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, SOILS REPORT AND APPLICABLE WORKMANSHIP OF THE BUILDING CODE.

SUBMITTALS

- A. CONTRACTOR MUST REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING FOR REVIEW. SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND/OR ENGINEER FOR REVIEW. FABRICATE AND CONSTRUCT FROM THE REVIEWED SUBMITTALS. ALLOW 10 BUSINESS DAYS FOR EACH SUBMITTAL REVIEW UNLESS AN ALTERNATE REVIEW TIME IS AGREED UPON BY ALL PARTIES. IN THE EVENT MULTIPLE SUBMITTALS ARE SUBMITTED AT THE SAME TIME, THE CONTRACTOR MUST INDICATE WHICH SUBMITTALS HAVE PRIORITY.
- B. MAINTAIN A RECORD SET OF APPROVED SHOP DRAWINGS IN THE FIELD.
- C. SUBMIT IN WRITING ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO, THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED, TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE 'IN-WRITING' UNLESS IT IS CLEARLY NOTED SPECIFIC CHANGES ARE BEING REQUESTED.
- D. PREPARE A LIST AND SCHEDULE OF ALL STRUCTURAL SUBMITTALS PRIOR TO CONSTRUCTION.
- E. SUBMIT THE FOLLOWING SHOP DRAWINGS FOR THE ENGINEER'S REVIEW:
- REINFORCING STEEL
 - PREFABRICATED WOOD TRUSSES (1, 3)
 - CANOPIES (1, 3)
 - FREEZER/COOLER (1, 3)
- F. SUBMIT ITEMS MARKED (1) SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMIT ITEMS MARKED (2) FOR OWNER'S RECORD ONLY AND WILL NOT HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED. SUBMIT ITEMS MARKED (3) WITH DESIGN CALCULATIONS SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED.
- THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
- G. THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEM TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

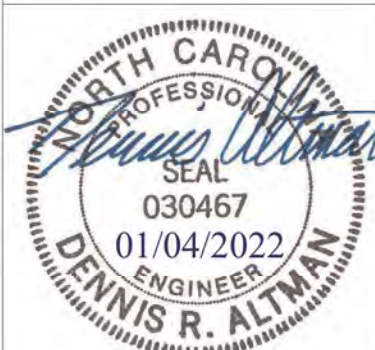
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PROJECT: HIGHWAY 55

3.0 PROTOTYPE

1424 CURTIS BRIDGE ROAD
WILKESBORO, NC 28697

DRAWING: GENERAL NOTES

Revisions

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AS

Checked by
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S1.2