20'x20' Rectangle Hampton Pavilion

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GENERAL NOTES

All notes do not necessarily apply due to different requirements on each project. This plan is intended to reflect only the structural design of this building. The contractor shall review all applicable local, state, and federal building codes prior to the start of construction to ensure building conformance. Timber Tech Engineering, Inc. is not responsible for information pertaining to this project if not shown on drawings or listed below. Revisions to the plans shall be approved by engineer of record.

DESIGN REQUIREMENTS

Governing Code:
 Including, not limited to: IBC 2009

2. Dead Loads:

A. Roof 5 pef
B. Floor n/a pef
C. Other n/a pef

3. Live Loads:
A. Roof (See also note \$4)
B. Floor
n/a pef
C. Other
n/a pef

4. Snow Loads:
A. Ground Snow (Pg) 45 per
B. Flat Roof Snow (Pf) 37.8 per

C. Snow Exposure Factor (Ce) 1.0
D. Snow Load Importance Factor (I) 1.0
E. Unbalanced Snow

B. Wind Load Importance Factor (I) 10
C. Wind Exposure Category C
D. Enclosure Category Conen

D. Enclosure Category Open
E. Components and Cladding: +72 pef/-87 pef
6. Earthquake Design Data:

(Analysis based on equivalent lateral force procedure)

A. Spectral Response Acceleration at 1 sec, S 0.3

B. Spectral Response Acceleration at short periods, S 0.5

C. Seismic Occupancy Category 1
D. Occupancy Importance Factor, I 1

E. Site Class D F. Seismic Design Category D

G. Basic Structural System

Cantilevered Column: Timber Frame H. Response Modification Factor (R)

I. Deflection Amplification Factor (Cd) 1.5

ABBREVATIONS

mex. meximum

ADDIE TO THE TOTAL OF THE TOTAL				
e bm. conc. cont. dia. exist. fir. ft. ga. hdw. hdr. jet. ksi lbs.	at beam concrete continuous diameter existing floor foot/feet gauge hardware header joist kips per square inch pounds	mil. min. nts o/c pcf ptl pef pei req'd. e.e ett. thk. trd. typ. w/ mfr.	millimeter minimum not to scale on center pounds per cubic foot plywood pounds per square foot pounds per square inch required stantees steel thick treated typical with manufacturer	

WOOD

1. General Requirements

- A. Structural wood members and connections shall be of sufficient size or capacity to carry all design loads without exceeding the allowable design values specified in 'The National Design specification for Wood Construction' (NDS), 2005 edition, and its "Supplement" by the American Forest and Paper Association (AF+PA).
- B. Wood members used for load supporting purposes shall have the grade mark of a lumber grading agency certified by the American Lumber Standards Committee.

2. Dimension Lumber

- A. All lumber species, graded visually or mechanically, shall comply with the NDS by AE+PA, and the 'American Softwood Lumber Standard' (PS 20-94) by the U.S. Department of Commerce.
- B. The minimum grade and species for posts, beams, headers, and other primary structural members shall be Dense Select Structural Southern Pine, unless specified otherwise.
- C. Lumber used for secondary framing shall be #1 Southern Yellow Pine (SYP) or better.

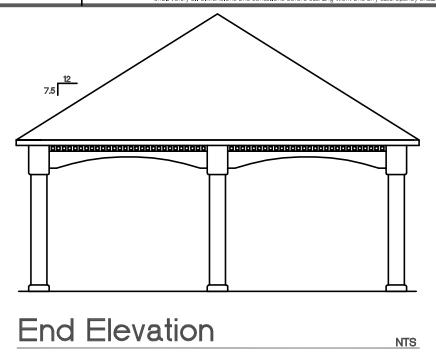
 D. Post frame headers shall be two-span continuous beams with all multiple ply
- headers overlapping so that the butt joints for each ply do not occur at the same post.

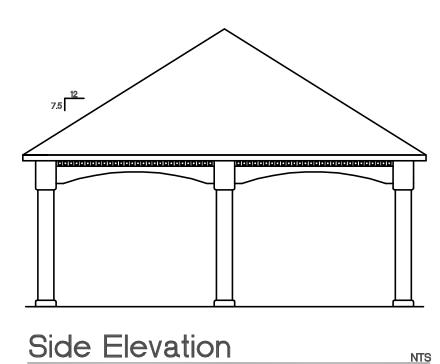
 E. Mechanically laminated columns shall conform with ANSI/ASAE EP 559.
- 3. Pressure Preservative Treatment (PPT)
- Association (AWPA) standards.
- B. Pressure treated members shall have the inspection mark of an agency accredited by the American Lumber Standards Committee.
- C. Preservative: Ammonia Copper Quaternary ammonia (ACQ) or Copper Boron Azole (CBA)
- D. Minimum waterborne treatment retention shall be 0.4 pcf for members above ground, and 0.6 pcf for members in contact with earth.
- E. Treat indicated items and the following:
- 1. Wood members exposed to weather or insect infestation.
- 2. Wood members in direct contact with earth or concrete.
- Wood members exposed to high moisture content ()19% for dimension lumber,)16% for glued laminated timber).
- 4. Wood members less than 12 inches above grade.
- F. Field treat newly exposed wood where cutting, drilling or notching pressure treated lumber.
- G. Metal connectors used in treated wood shall be hot-dip galvanized as per ASTM A153-01a.
- Connections shall be designed and constructed according to the NDS by AF+PA and shall conform to the following:
- A. The minimum connection shall be two 12 penny nails, or as detailed on the drawings.
- B. Other connections as per standard construction practice.

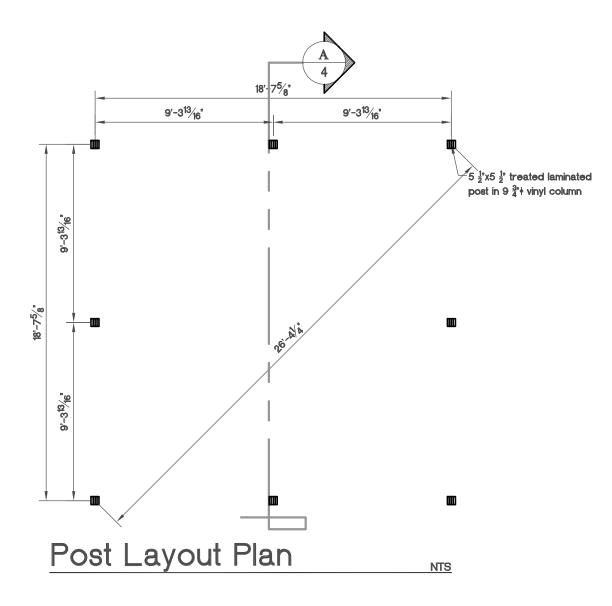
Design Reaction Chart				
Max. Moment in column	4975 lb-ft.			
Max. uplift at column base	1850 lb			
Max. downward force at column base	5850 lb			
Max. shear at column base	600 lb			

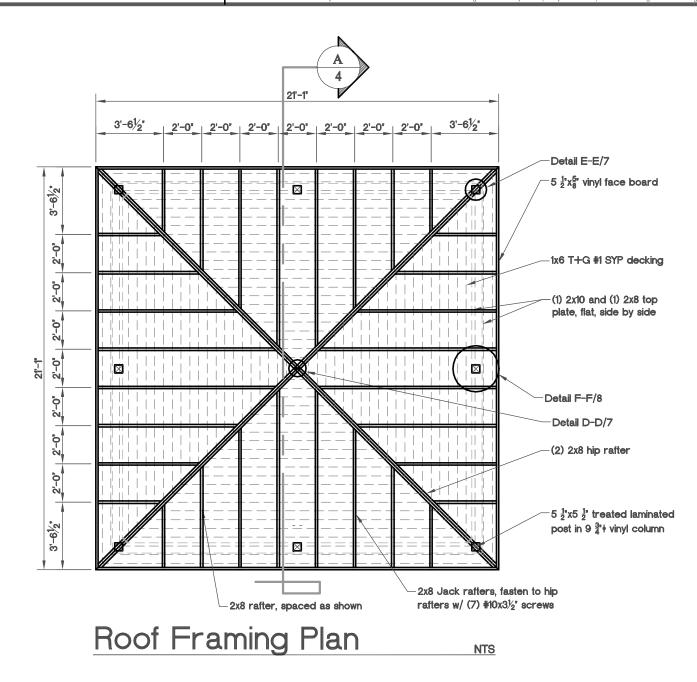
JOB NUMBER: E261-10 PAGE: 1 OF 9 PROJECT: STANDARD PLANS FOR 20'x20' RECTANGLE HAMPTON PAVILION

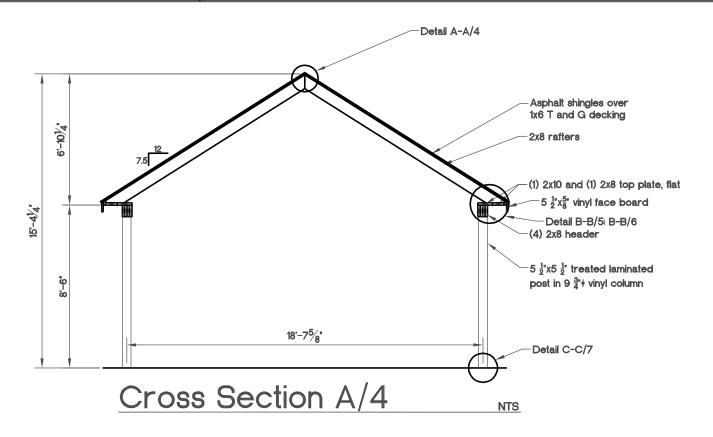
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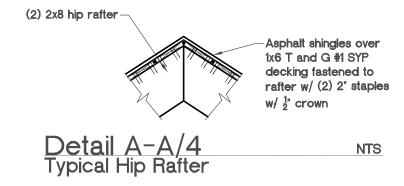


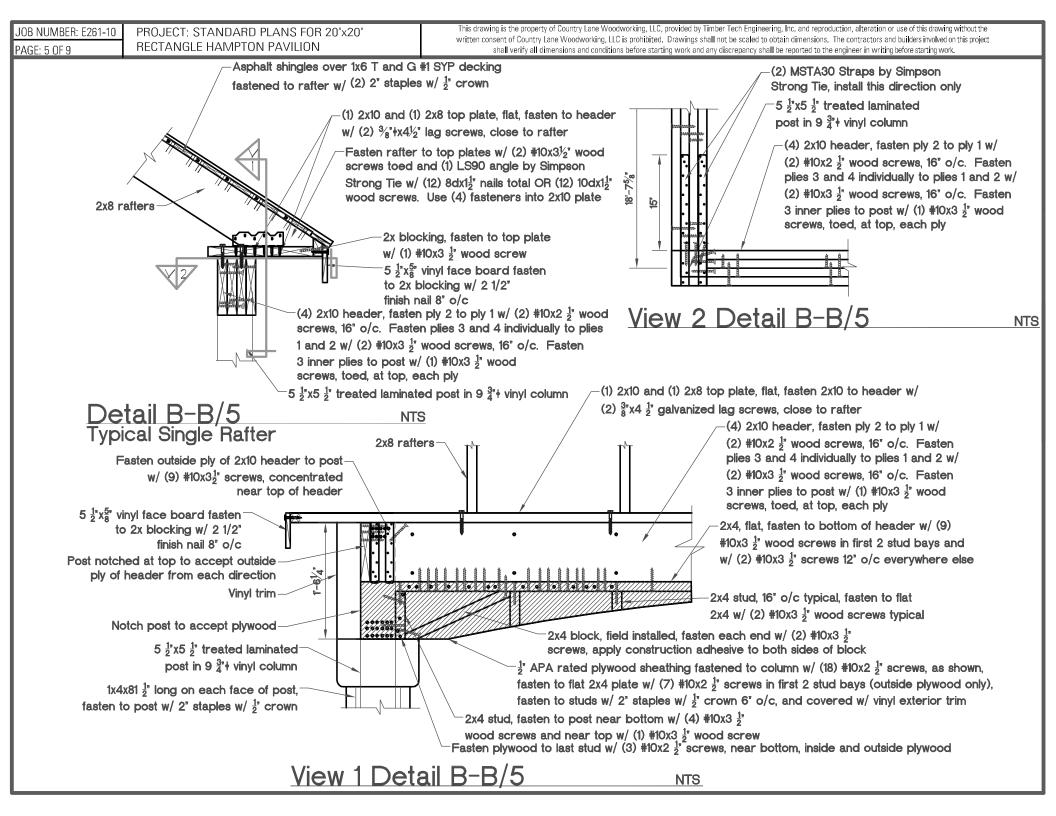




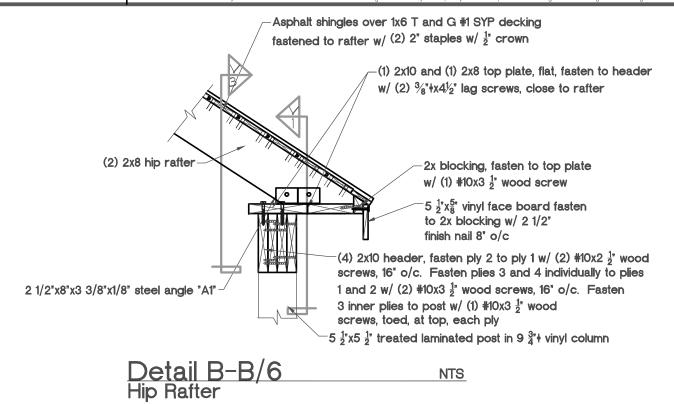


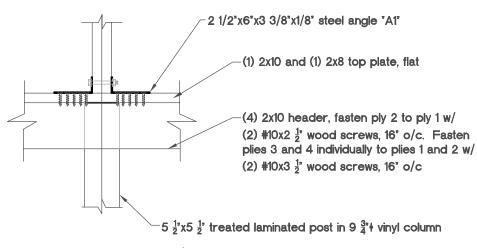






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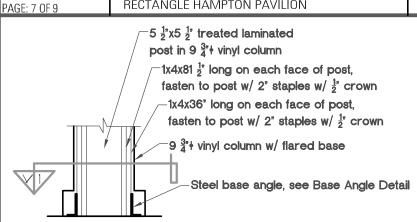


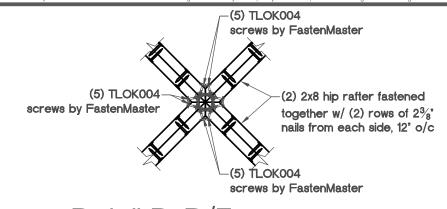
View 3 Detail B-B/6 Hip Rafter

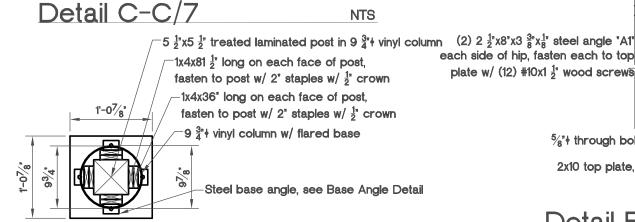


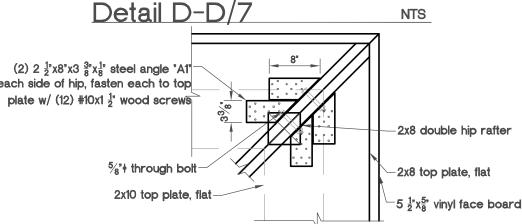
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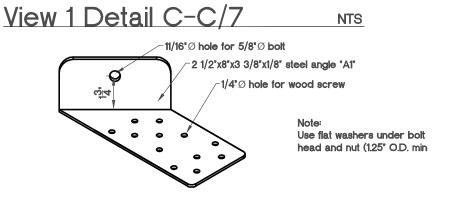
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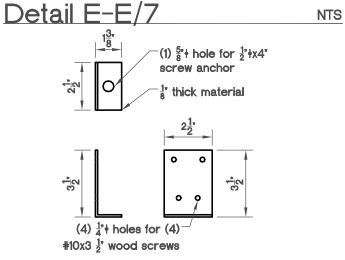






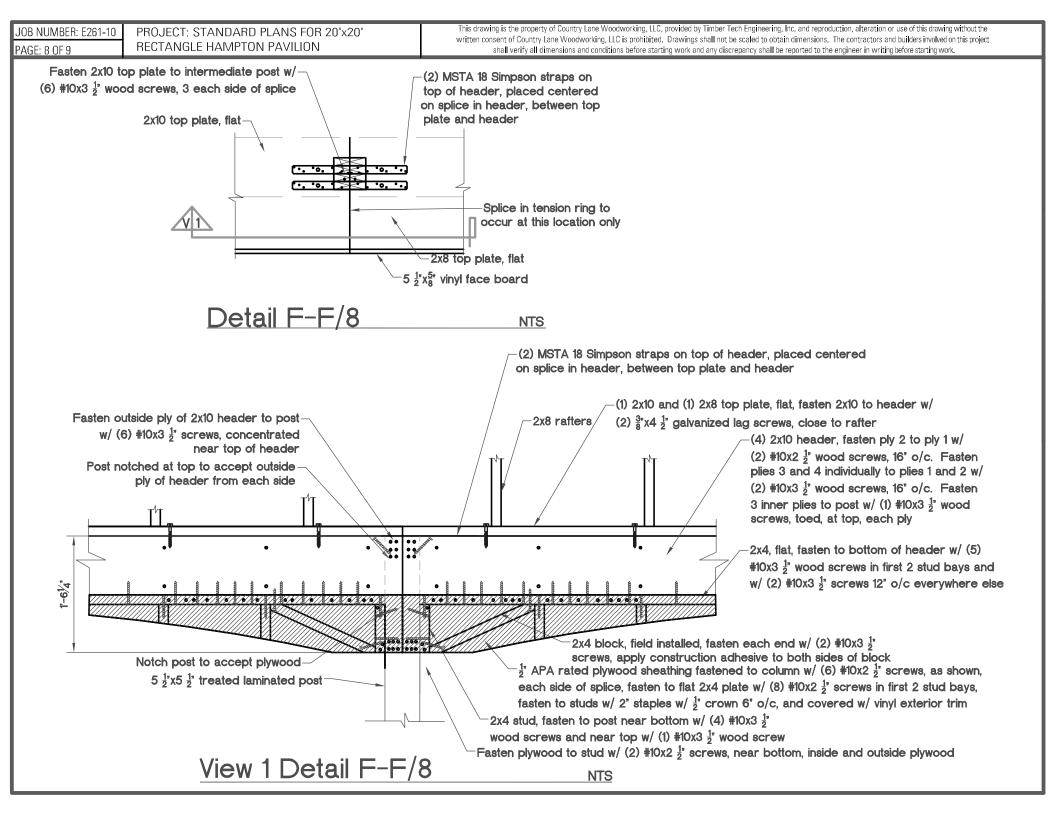
NTS

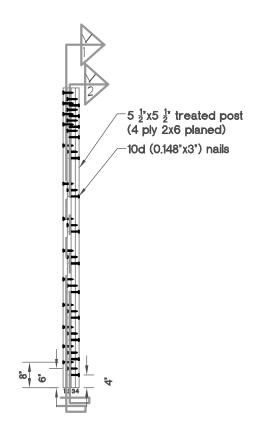
Angle "A1"

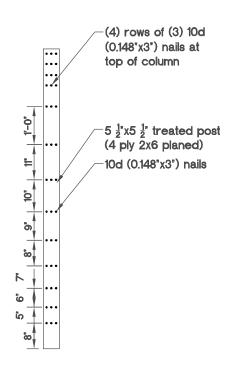


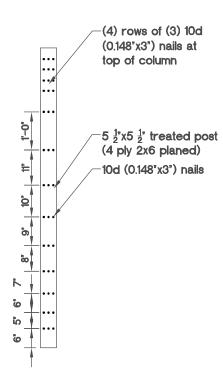
Base Angle Detail

NTS









Nail-Laminated Post Nailing Detail

NTS View 1 Nailing Detail for Ply 2 to Ply 3 View 2 Nailing Detail for Ply 1 to Ply 2 Nailing Detail for Ply 1 to Ply 2