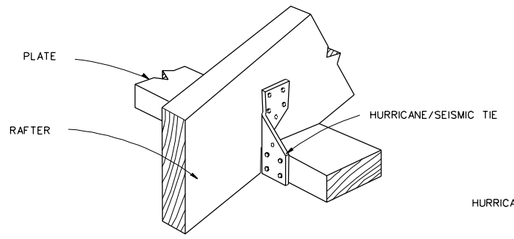
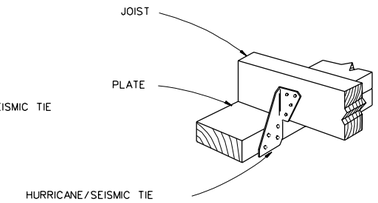
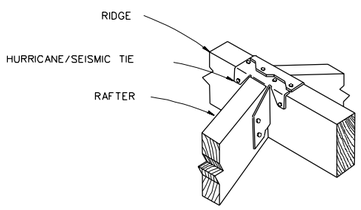


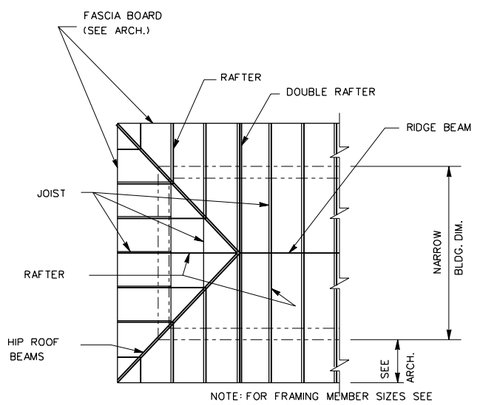

RAFTER DETAIL 1 S-8
SCALE : N.T.S.




JOIST DETAIL 2 S-8
SCALE : N.T.S.




RIDGE DETAIL 3 S-8
SCALE : N.T.S.




NOTE: FOR FRAMING MEMBER SIZES SEE
ROOF FRAMING SCHEDULE

TYP. ROOF FRAMING PLAN
SCALE : N.T.S.

NOTES FOR ROOF FRAMING

1. USE EXTERIOR GRADE PLYWOOD.
2. PLYWOOD SHALL BE NOT LESS THAN 1200 x 2400 SHEETS EXCEPT AT EDGES WHERE MINIMUM DIMENSION SHALL BE 600 UNLESS ALL EDGES OF UNDERSIZED SHEETS ARE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.
3. SOLID BLOCKING SHALL BE PROVIDED FOR ALL JOISTS AND RAFTERS AT A MAXIMUM OF 2400 O.C.
4. PLYWOOD SHEETS SHALL BE NAILED USING 10d COMMON NAILS. NAILS SHALL BE PLACED NOT LESS THAN 10 IN FROM PANEL EDGE, NOT MORE THAN 300 APART ALONG INTERMEDIATE SUPPORTS, AND 150 ALONG PANEL EDGE BEARINGS AND WILL BE FIRMLY DRIVEN INTO FRAMING MEMBERS.
5. IN GENERAL PANEL EDGES WILL BEAR ON FRAMING MEMBERS AND BUTT ALONG THEIR CENTER LINES.
6. JOINTS IN THE NEXT ROW OF PLYWOOD PANELS SHALL BE STAGGERED ON DIFFERENT RAFTERS IN A RUNNING BOND TYPE PATTERN.
7. ONE (1) HURRICANE/SEISMIC TIE, SIMILAR TO THOSE SHOWN, SHALL BE USED ON EACH JOIST AND EACH RAFTER USING THE MINIMUM NUMBER OF NAILS AS RECOMMENDED BY THE TIE MANUFACTURER OR FOUR 8d NAILS ON EACH END, WHICHEVER IS GREATER. THE TIE SHALL BE GALVANIZED STEEL AND SHALL BE DESIGNED TO WITHSTAND AN ALLOWABLE UPLIFT LOAD OF 113 kg EACH. WHERE THE JOISTS/RAFTERS BEAR ON STEEL BEAMS THE TIE SHALL BE DESIGNED TO BE WELDED TO THE BEAM AND SHALL BE DESIGNED TO RESIST AN ALLOWABLE UPLIFT LOAD OF 226 kg ON THE JOIST/RAFTER SET.
8. JOISTS AND RAFTERS SHALL BE SECURELY NAILED TOGETHER WITH A MINIMUM OF FOUR 12d NAILS FROM EACH SIDE.
9. ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
10. SEE S-1 FOR GENERAL STRUCTURAL NOTES.

ROOF FRAMING SCHEDULE

| MEMBER | FRAMING MEMBER SIZE AND SPACING | | |
|---|---|---|---|
| | OPERATIONS/STORAGE BLDG.<br>GENERAL INSTRUCTION BLDG. | VAULT LATRINE<br>WET LATRINE<br>AMMO BREAKDOWN | COVERED MESS |
| HIP ROOF BEAM | DOUBLE 50X250 | DOUBLE 50X200 | DOUBLE 50X250 |
| RAFTER | 50X200 | 50X150 | 50X200 |
| RIDGE BEAM | 50X250 | 50X200 | 50X250 |
| JOIST | 50X250 | 50X200 | 50X250 |
| SPACING | 400 O.C. | 600 O.C. | 600 O.C. |

NOTE: FRAMING MEMBER SIZES GIVEN IN NOMINAL MILLIMETERS.
NOTE: PREFAB TRUSS MAY BE USED INSTEAD.

US Army Corps of Engineers

| Symbol | Description | Date | Approved | Symbol | Description | Date | Approved |
|---|---|---|---|---|---|---|---|

Designed by: REH
Date: 01 APR 98
Rev.
Dwn by: RLA
Ckd by: REH
Design file no.
Reviewed by: WAW
Drawing code: STD (71-00-01)
Submitted by: AF
File name: S10S08.DGN
Plot date: 20 MAR 98
Plot scale: FULL

U.S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE
HUNTSVILLE, ALABAMA

FORCE XXI/FORCE MODERNIZATION PROGRAM
STANDARD DESIGN

STANDARD ROOF DETAILS

Sheet reference number:
S-08
Sheet of