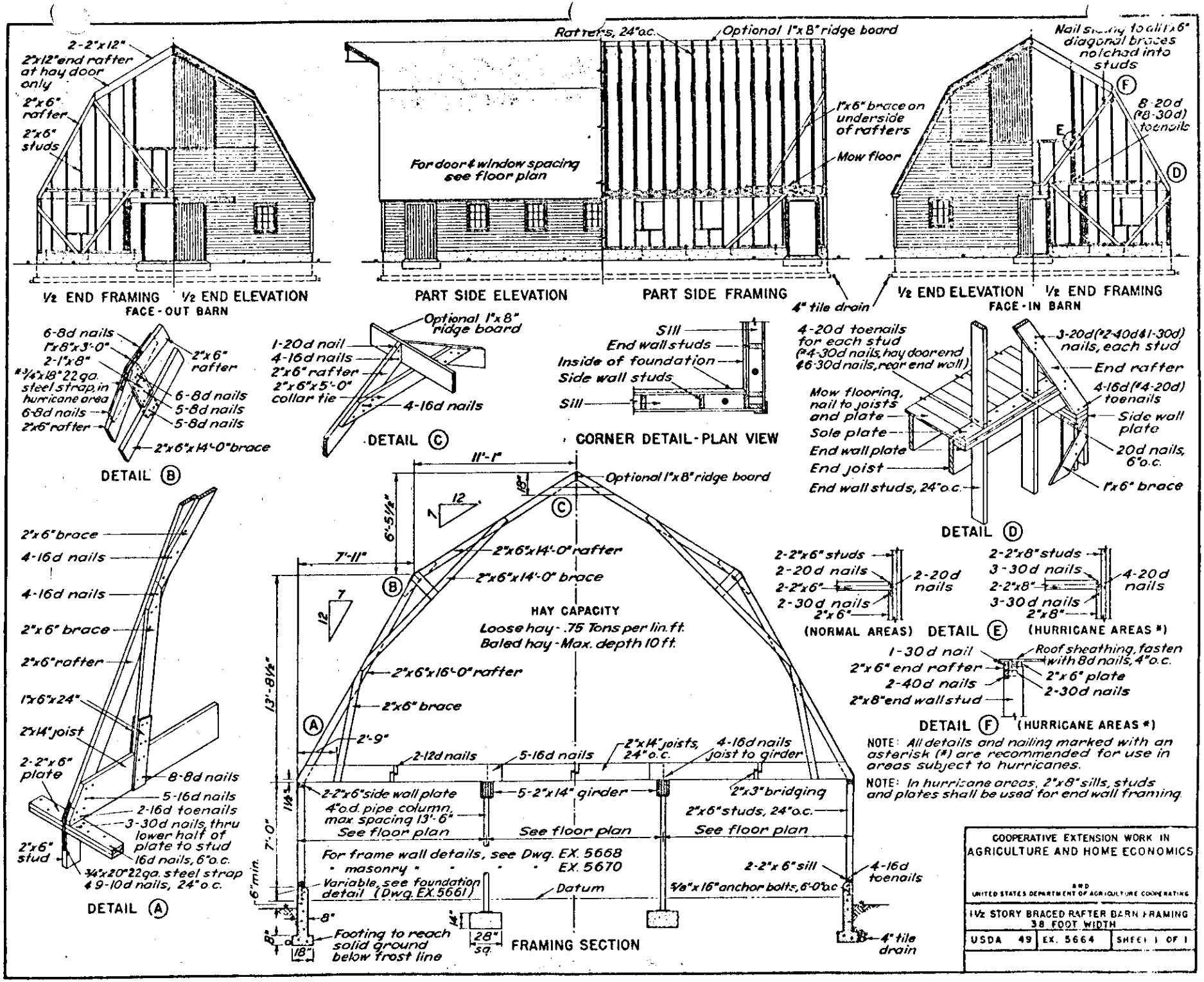
2-2"x12"
2"x12" end rafter at hay door only
2"x6" rafter
2"x6" studs
1/2 END FRAMING
1/2 END ELEVATION
FACE-OUT BARN
Rafters, 24" o.c.
Optional 1"x8" ridge board
1"x6" brace on underside of rafters
For door & window spacing see floor plan
Mow floor
4" tile drain
PART SIDE ELEVATION
PART SIDE FRAMING
Nail sheating to all 1"x6" diagonal braces notched into studs
8-20d (*8-30d) toenails
1/2 END ELEVATION
1/2 END FRAMING
FACE-IN BARN
6-8d nails
1"x8"x3'-0"
2-1"x8"
*3/4"x18" 22 ga. steel strap, in hurricane area
6-8d nails
2"x6" rafter
2"x6" rafter
6-8d nails
5-8d nails
5-8d nails
2"x6"x14'-0" brace
DETAIL (B)
Optional 1"x8" ridge board
1-20d nail
4-16d nails
2"x6" rafter
2"x6"x5'-0" collar tie
4-16d nails
DETAIL (C)
Sill
End wall studs
Inside of foundation
Side wall studs
Sill
CORNER DETAIL-PLAN VIEW
4-20d toenails for each stud (*4-30d nails, hay door end & 6-30d nails, rear end wall)
3-20d (*2-40d & 1-30d) nails, each stud
End rafter
4-16d (*4-20d) toenails
Mow flooring, nail to joists and plate
Sole plate
End wall plate
End joist
End wall studs, 24" o.c.
Side wall plate
20d nails, 6" o.c.
1"x6" brace
DETAIL (D)
2"x6" brace
4-16d nails
4-16d nails
2"x6" brace
2"x6" rafter
1"x6"x24"
2"x14" joist
2-2"x6" plate
8-8d nails
5-16d nails
2-16d toenails
3-30d nails, thru lower half of plate to stud
16d nails, 6" o.c.
2"x6" stud
3/4"x20" 22 ga. steel strap & 9-10d nails, 24" o.c.
DETAIL (A)
11'-1"
Optional 1"x8" ridge board
6'-5 1/2"
7'-11"
2"x6"x14'-0" rafter
2"x6"x14'-0" brace
HAY CAPACITY
Loose hay - .75 Tons per lin. ft.
Baled hay - Max. depth 10 ft.
13'-8 1/2"
2"x6"x16'-0" rafter
2"x6" brace
2'-9"
2-12d nails
5-16d nails
2"x14" joists, 24" o.c.
4-16d nails joist to girder
2-2"x6" side wall plate
5-2"x14" girder
2"x3" bridging
4" o.d. pipe column, max spacing 13'-6"
See floor plan
See floor plan
See floor plan
2"x6" studs, 24" o.c.
7'-0"
For frame wall details, see Dwg. EX. 5668
masonry " " " EX. 5670
Variable, see foundation detail (Dwg. EX. 5661)
Datum
2-2"x6" sill
4-16d toenails
5/8"x16" anchor bolts, 6'-0" o.c.
6" min.
8"
8"
18"
Footing to reach solid ground below frost line
28" sq.
FRAMING SECTION
4" tile drain
2-2"x6" studs
2-20d nails
2-2"x6"
2-30d nails
2"x6"
2-20d nails
(NORMAL AREAS)
DETAIL (E)
2-2"x8" studs
3-30d nails
2-2"x8"
3-30d nails
2"x8"
4-20d nails
(HURRICANE AREAS *)
1-30d nail
2"x6" end rafter
2-40d nails
2"x8" end wall stud
Roof sheathing, fasten with 8d nails, 4" o.c.
2"x6" plate
2-30d nails
DETAIL (F)
(HURRICANE AREAS *)
NOTE: All details and nailing marked with an asterisk (*) are recommended for use in areas subject to hurricanes.
NOTE: In hurricane areas, 2"x8" sills, studs and plates shall be used for end wall framing.
COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS
AND
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING
1 1/2 STORY BRACED RAFTER BARN FRAMING
38 FOOT WIDTH
USDA 49
EX. 5664
SHEET 1 OF 1