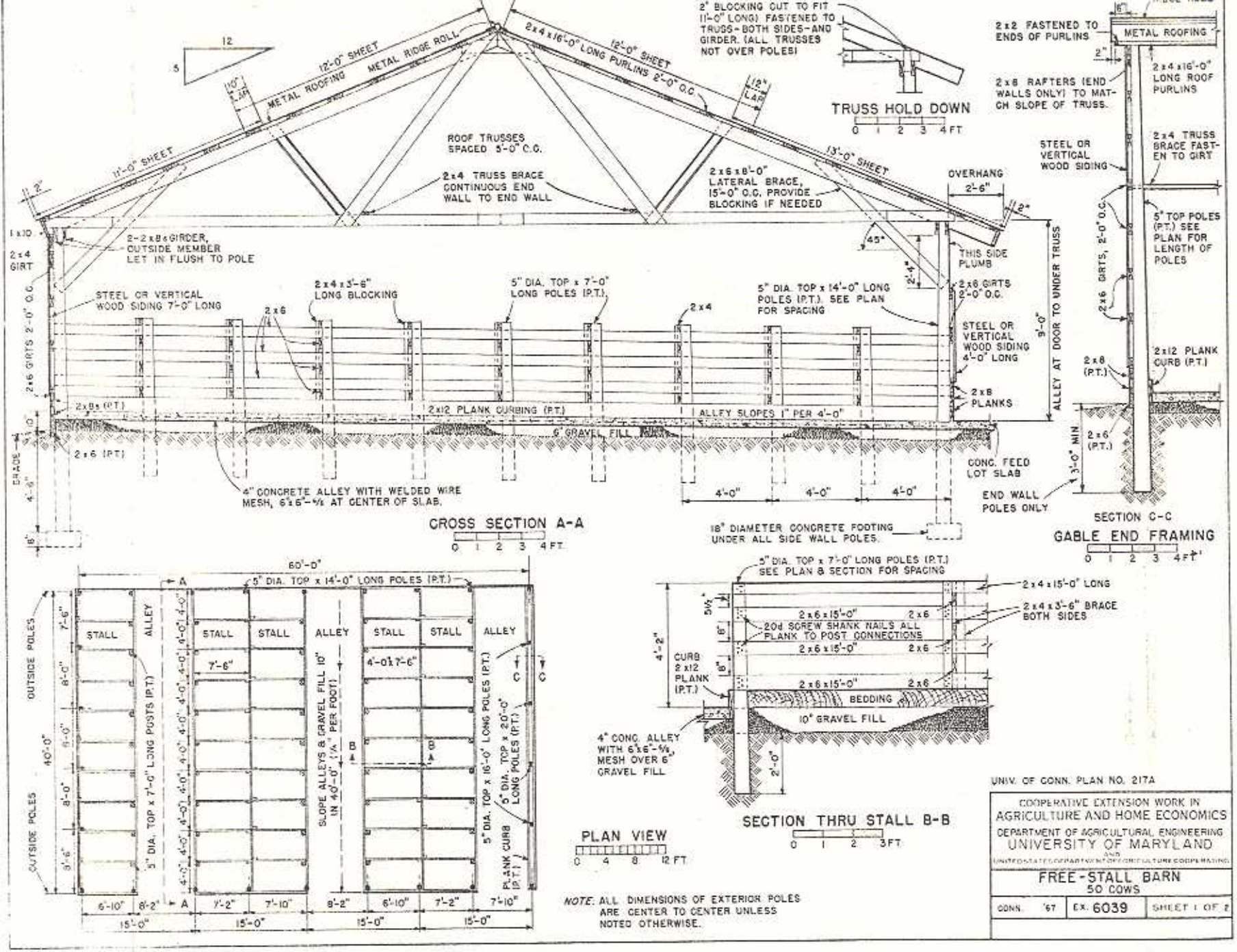
12
5
12'-0" SHEET
METAL RIDGE ROLL
METAL ROOFING
10" LAP
2x4 x 16'-0" LONG PURLINS 2'-0" O.C.
12'-0" SHEET
12" LAP
11'-0" SHEET
13'-0" SHEET
ROOF TRUSSES SPACED 3'-0" O.C.
2x4 TRUSS BRACE CONTINUOUS END WALL TO END WALL
2x6 x 8'-0" LATERAL BRACE, 15'-0" O.C. PROVIDE BLOCKING IF NEEDED
2" BLOCKING CUT TO FIT (1'-0" LONG) FASTENED TO TRUSS-BOTH SIDES-AND GIRDER. (ALL TRUSSES NOT OVER POLES)
TRUSS HOLD DOWN
0 1 2 3 4 FT
2x2 FASTENED TO ENDS OF PURLINS
METAL ROOFING
2x4 x 16'-0" LONG ROOF PURLINS
2x8 RAFTERS (END WALLS ONLY) TO MATCH SLOPE OF TRUSS.
STEEL OR VERTICAL WOOD SIDING
2x4 TRUSS BRACE FASTEN TO GIRT
OVERHANG 2'-6"
5" TOP POLES (P.T.) SEE PLAN FOR LENGTH OF POLES
2x6 GIRTS, 2'-0" O.C.
1x10
2x4 GIRT
2-2x8 GIRDER, OUTSIDE MEMBER LET IN FLUSH TO POLE
45°
THIS SIDE PLUMB
2'-4"
2x6 GIRTS 2'-0" O.C.
STEEL OR VERTICAL WOOD SIDING 7'-0" LONG
2x4 x 3'-6" LONG BLOCKING
5" DIA. TOP x 7'-0" LONG POLES (P.T.)
2x6
2x4
5" DIA. TOP x 14'-0" LONG POLES (P.T.) SEE PLAN FOR SPACING
STEEL OR VERTICAL WOOD SIDING 4'-0" LONG
9'-0"
ALLEY AT DOOR TO UNDER TRUSS
2x12 PLANK CURB (P.T.)
2x8 (P.T.)
2x8 PLANKS
2x6 GIRTS 2'-0" O.C.
2x8s (P.T.)
2x12 PLANK CURBING (P.T.)
ALLEY SLOPES 1" PER 4'-0"
6" GRAVEL FILL
GRADE
2x6 (P.T.)
2x6 (P.T.)
3'-0" MIN
CONC. FEED LOT SLAB
4" CONCRETE ALLEY WITH WELDED WIRE MESH, 6'x6'-4/4 AT CENTER OF SLAB.
4'-0"
4'-0"
4'-0"
END WALL POLES ONLY
18" DIAMETER CONCRETE FOOTING UNDER ALL SIDE WALL POLES.
CROSS SECTION A-A
0 1 2 3 4 FT
SECTION C-C
GABLE END FRAMING
0 1 2 3 4 FT
60'-0"
5" DIA. TOP x 14'-0" LONG POLES (P.T.)
OUTSIDE POLES
STALL
ALLEY
STALL
STALL
ALLEY
STALL
STALL
ALLEY
7'-6"
8'-0"
8'-0"
8'-0"
8'-6"
40'-0"
4'-0"
4'-0"
4'-0"
4'-0"
4'-0"
4'-0"
4'-0"
4'-0"
7'-6"
4'-0" 7'-6"
5" DIA. TOP x 7'-0" LONG POSTS (P.T.)
SLOPE ALLEYS & GRAVEL FILL 10" IN 40'-0" (1/4" PER FOOT)
5" DIA. TOP x 16'-0" LONG POLES (P.T.)
5" DIA. TOP x 20'-0" LONG POLES (P.T.)
PLANK CURB (P.T.)
6'-10"
6'-2"
7'-2"
7'-10"
8'-2"
6'-10"
7'-2"
7'-10"
15'-0"
15'-0"
15'-0"
15'-0"
PLAN VIEW
0 4 8 12 FT
5" DIA. TOP x 7'-0" LONG POLES (P.T.) SEE PLAN & SECTION FOR SPACING
2x4 x 15'-0" LONG
2x4 x 3'-6" BRACE BOTH SIDES
5½"
2x6 x 15'-0"
2x6
20d SCREW SHANK NAILS ALL PLANK TO POST CONNECTIONS
4'-2"
CURB 2x12 PLANK (P.T.)
BEDDING
10" GRAVEL FILL
4" CONC. ALLEY WITH 6'x6'-4/4 MESH OVER 6" GRAVEL FILL
2'-0"
SECTION THRU STALL B-B
0 1 2 3 FT
NOTE: ALL DIMENSIONS OF EXTERIOR POLES ARE CENTER TO CENTER UNLESS NOTED OTHERWISE.
UNIV. OF CONN. PLAN NO. 217A
COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS
DEPARTMENT OF AGRICULTURAL ENGINEERING
UNIVERSITY OF MARYLAND
AND
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING
FREE-STALL BARN
50 COWS
CONN. '67
EX. 6039
SHEET 1 OF 2