NOTES

1. USE TRUSS RAFTERS SIZED FOR 48" SPACING TO SUIT LOCAL ROOF SNOW AND DEAD LOAD AND SPAN OF BUILDING. IF LOADS REQUIRE SPACING LESS THAN 48", ADJUST STUD SPACING SO THAT SHEET BRACING ALIGNS WITH TRUSS RAFTER AND STUDS. GRAIN PRESSURE AGAINST WALLS REQUIRES EXTRA TIE STRENGTH AT TOP OF PLATE. SEE (8) ON SHEET 2 AND (12) ON SHEET 3.

2. LENGTH VARIABLE IN MULTIPLES OF 8'-0".

3. STUD WALL HEIGHT MAY BE 10'-0", 12'-0", OR 14'-0".

4. SLIDING DOORS

5. MAN DOOR, 2'-0" x 6'-0"

6. CONTRACT JOINT IN CONCRETE FOUNDATION NOT OVER 50'-0" C.C.

7. TRUSS RAFTER CROSS-BRACING, SEE SHEET 2, NOTE (20).

8. L-ANCHORS, SEE SHEET 3, NOTE (*), (**)..

9. SIDING AND ROOFING CAN BE OWNER'S CHOICE. DETAILS SHOWN FOR METAL ROOFING AND METAL SIDING.

10. CONCRETE APROX 5" THICK MINIMUM, WIDTH AND LENGTH TO SUIT SUFFICIENTLY ACCOMMODATE TRUCK OR OTHER LARGE EQUIPMENT.

11. RIDGE VENTILATION. CAPACITY TO SUIT THE INTENDED USE.

12. LIGHTNING PROTECTION SYSTEM.

SPECIFICATIONS

UNLESS OTHERWISE SPECIFIED, ALL CAST-IN-PLACE CONCRETE IS TO BE MINIMUM OF 4000 PSI AT 28 DAYS, 0.5% AIR-ENTRAINMENT.

ALL REINFORCING STEEL TO BE MINIMUM OF 60,000 PSI DEFORMED BARS; PROVIDE 2" CONCRETE COVER OVER REINFORCING STEEL.

ALL EXPOSED STEEL TO BE GALVANIZED OR PAINTED TO RESIST CORROSION FROM MOISTURE.

ALL FRAMING LUMBER, INCLUDING STUDS, IS NO.2 OR BETTER, S-P-P SPECIES GROUP, UNLESS OTHERWISE SPECIFIED.

COOPERATIVE EXTENSION SERVICE
AGRICULTURE AND HOME ECONOMICS

UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

MACHINERY OR GRAIN STORAGE
KNEE BRACED CONSTRUCTION

MD '87 6394 Sheet 1 of 3
NOTE: Each stud to be anchored to 2x6 nail plates with framing anchor. Framing anchors, 20 gauge, 6" wide (min) to resist outward horizontal thrust as follows: 8' depth, a total of 100 lbs. for every 2 ft. o.c.; 8' depth, 700 lbs. for every 2 ft. o.c.; 8' depth, 900 lbs. for every 2 ft. o.c.; 8' depth (With tie rod) 1200 lbs. for every 2 ft. o.c.

Standard stud anchor usually is rated at 400 lbs. Be sure to adequately nail.

NOTE: Lay plywood with wood grain perpendicular to studs (as shown). If grain can split over top of plywood allow 1 inch slot above nail plate for class out.