

NOTE:
ALL QUANTITIES SHOWN ARE BASED ON AN
8'x8'x8' SAFE ROOM.
QUANTITIES MAY VARY BY APPLICATION.

SAFE ROOM: INSULATING CONCRETE FORMS ON
SLAB-ON-GRADE

INSULATING CONCRETE FORMS-FLAT WALL ALTERNATIVE

| MATERIAL | SIZE | MEASURE | QUANTITY | REMARKS |
|-------------------------------|------|-------------|----------|---------|
| FORMS | | SQUARE FEET | 256 | |
| CONCRETE 4" FLAT WALL | | CUBIC YARDS | 3 | |
| CONCRETE 6" FLAT WALL | | CUBIC YARDS | 5 | |
| REINFORCING BARS 4" FLAT WALL | #4 | LINEAR FEET | 672 | |
| REINFORCING BARS 6" FLAT WALL | #4 | LINEAR FEET | 528 | |

INSULATING CONCRETE FORMS-WAFFLE GRID WALL ALTERNATIVE

| MATERIAL | SIZE | MEASURE | QUANTITY | REMARKS |
|------------------------------|----------|-------------|------------|---------|
| FORMS | | SQUARE FEET | 256 | |
| CONCRETE 6" WAFFLE GRID WALL | | CUBIC YARDS | 3.5 | |
| CONCRETE 8" WAFFLE GRID WALL | | CUBIC YARDS | 5 | |
| REINFORCING BARS | #4 #5 | LINEAR FEET | 416 256 | |

SLAB-ON-GRADE FOUNDATION

| MATERIAL | SIZE | MEASURE | QUANTITY | REMARKS |
|-------------------------|---------------------|-------------|----------|---------|
| CONCRETE | | CUBIC YARDS | 2 | |
| REINFORCING BARS | #4 | LINEAR FEET | 192 | |
| WIRE MESH REINFORCEMENT | 6"x6"- W2.9XW2.9 | EA. | 1 | |

INSULATING CONCRETE FORM ROOF ALTERNATIVE

| MATERIAL | SIZE | MEASURE | QUANTITY | REMARKS |
|------------------|----------|-------------|-----------|---------|
| FORMS | | SQUARE FEET | 64 | |
| CONCRETE | | CUBIC YARDS | 1 | |
| REINFORCING BARS | #4 #5 | LINEAR FEET | 128 32 | |

FLAT CONCRETE ROOF ALTERNATIVE

| MATERIAL | SIZE | MEASURE | QUANTITY | REMARKS |
|------------------|------|-------------|----------|---------|
| CONCRETE | | CUBIC YARDS | 1 | |
| REINFORCING BARS | #4 | LINEAR FEET | 128 | |

HARDWARE

| MATERIAL | SIZE | MEASURE | QUANTITY | REMARKS |
|------------|------|---------|----------|-------------------------------------|
| DEADBOLTS | | EACH | 3 | SEE DETAIL 3 ON DRAWING MS-01 |
| DOOR FRAME | | EACH | 1 | SEE DETAIL 1 ON DRAWING AG-01 |
| DOOR | | EACH | 1 | SEE DETAIL 3 AND 4 ON DRAWING MS-01 |

SAFE ROOM: WOOD-FRAME WITH CMU INFILL
WALL ON SLAB-ON-GRADE

WALLS

| MATERIAL | SIZE | MEASURE | QUANTITY | REMARKS |
|-------------|---------------|---------------|----------|-------------|
| SYP. LUMBER | 2" X 4" X 8' | EACH | 38 | |
| P.T. LUMBER | 2" X 4" X 8' | EACH | 4 | |
| SYP. LUMBER | 2" X 6" X 8' | EACH | 1 | |
| PLYWOOD | 3/4" | 4' X 8' SHEET | 24 | |
| SOLID BLOCK | 4" X 8" X 16" | EACH | 128 | DRY - STACK |
| SYP. LUMBER | 2" X 8" X 10" | EACH | 2 | |
| SYP. LUMBER | 1" X 4" X 8' | EACH | 19 | |

CEILING

| MATERIAL | SIZE | MEASURE | QUANTITY | REMARKS |
|-----------------|--------------|---------------|----------|---------|
| SYP. LUMBER | 2" X 6" X 8' | EACH | 10 | |
| PLYWOOD | 3/4" | 4" X 8" SHEET | 4 | |
| STEEL SHEATHING | 14 GA. | 4' X 8' SHEET | 2 | |

HARDWARE

| MATERIAL | DIAMETER | LENGTH | MEASURE | QUANTITY | REMARKS |
|---------------------|----------|--------------------|---------|----------|--------------------------------------|
| DOOR FRAME | | | EACH | 1 | SEE DETAILS 5 AND 6 ON DRAWING AG-05 |
| DOOR | | | EACH | 1 | SEE DETAIL 3 AND 4 ON DRAWING MS-01 |
| ANCHOR BOLTS | 1/2" | MIN. 2-1/8" EMBED. | EACH | 25 | |
| TYPE "E" CONNECTORS | | | EACH | 2 | SEE DETAIL 2 ON DRAWING MS-01 |
| TYPE "F" CONNECTORS | | | EACH | 14 | SEE ITEM 2 ON DRAWING MS-01 |
| TYPE "G" CONNECTORS | | | EACH | 14 | SEE DETAIL 2 ON DRAWING MS-01 |
| DEADBOLTS | | | EACH | 3 | SEE DETAIL 3 ON DRAWING MS-01 |
| 16D NAILS | | | LB. | 20 | |

CHASE WALL

| MATERIAL | SIZE | MEASURE | QUANTITY | REMARKS |
|-------------|--------------|---------|----------|---------|
| P.T. LUMBER | 2" X 6" X 8' | EACH | 1 | |
| SYP. LUMBER | 2" X 6" X 8' | EACH | 10 | |

SAFE ROOM: WOOD-FRAME WITH PLYWOOD AND STEEL
SHEATHING WALL ON SLAB-ON-GRADE

WALLS

| MATERIAL | SIZE | MEASURE | QUANTITY | REMARKS |
|-----------------|---------------|---------------|----------|---------|
| SYP. LUMBER | 2" X 4" X 8' | EACH | 58 | |
| P.T. LUMBER | 2" X 4" X 8' | EACH | 4 | |
| PLYWOOD | 3/4" | 4' X 8' SHEET | 16 | |
| STEEL SHEATHING | 14 GA. | 4' X 8' SHEET | 8 | |
| SYP. LUMBER | 2" X 10" X 8' | EACH | 2 | |
| SYP. LUMBER | 2" X 6" X 8' | EACH | 1 | |

CEILING

| MATERIAL | SIZE | MEASURE | QUANTITY | REMARKS |
|-----------------|--------------|---------------|----------|---------|
| SYP. LUMBER | 2" X 6" X 8' | EACH | 10 | |
| PLYWOOD | 3/4" | 4' X 8' SHEET | 4 | |
| STEEL SHEATHING | 14 GA. | 4' X 8' SHEET | 2 | |

HARDWARE

| MATERIAL | DIAMETER | LENGTH | MEASURE | QUANTITY | REMARKS |
|---------------------|----------|--------------------|---------|----------|--------------------------------------|
| DOOR FRAME | | | EACH | 1 | SEE DETAILS 5 AND 6 ON DRAWING AG-05 |
| DOOR | | | EACH | 1 | SEE DETAIL 3 AND 4 ON DRAWING MS-01 |
| ANCHOR BOLTS | 1/2" | MIN. 2-1/8" EMBED. | EACH | 25 | |
| TYPE "E" CONNECTORS | | | EACH | 2 | SEE DETAIL 2 ON DRAWING MS-01 |
| TYPE "F" CONNECTORS | | | EACH | 14 | SEE DETAIL 2 ON DRAWING MS-01 |
| TYPE "G" CONNECTORS | | | EACH | 14 | SEE DETAIL 2 ON DRAWING MS-01 |
| DEADBOLTS | | | EACH | 3 | SEE DETAIL 3 ON SHEET MS-01 |
| 16D NAILS | | | LB. | 20 | |

CHASE WALL

| MATERIAL | SIZE | MEASURE | QUANTITY | REMARKS |
|-------------|--------------|---------|----------|---------|
| P.T. LUMBER | 2" X 6" X 8' | EACH | 1 | |
| SYP. LUMBER | 2" X 6" X 8' | EACH | 10 | |

MATERIALS LISTS

DRAWING NO: ML-02 SHEET 18 OF 18

DATE: OCTOBER 1998

REVISED: AUGUST 2008 REV. NO. 2



FEMA