



- TYP. BRACING WIRE W/(4)TIGHT TURNS PUNCH OR DRILL 3/16" HOLES IN 1 1/2" @ 1" CENTER TO CENTER -ROOF JOIST -ROOF JOIST 10 SHEET METAL SCREW FOR BRACING WIRES USE I-LAG #750 SD SCREW I-LAG SCREW #750 SD - EYE SHANK IN DIRECTION OF WIRE - TYP. BRACING 1/2" EMT PIPE STRUT WIRE W/(4)TIGHT TURNS -WHERE OCCURS FASTEN W/ 2-#8X1" SHT. METAL SCREWS IN 1 1/2" 1:6 MAX. FOR TYPICAL HANGER WIRE 12 GA. HANGER WIRE W/(3)45° MAX. FROM HORIZ. FOR SPLAY BRACING - TIGHT TURNS IN 1 1/2" @ --& FOR SLACK BRACING OF FIXTURES & REGISTERS 4'-0" O.C. MAX. SLIP CONN. -© TEE ALTERNATE WIRE AT STEEL JOIST TO BOTTOM OF CONNECTIONS JOIST OR RAFTER OR RAFTER - CADDY FASTENER VF-14 FOR VERTICAL WIRES ONLY. CLIP TO "Z" PURLIN AS SHOWN. BENT 1/2" EMT PIPE STRUT WHERE OCCURS FASTEN W/ 12 GA. HANGER WIRE W/(3)TIGHT TURNS IN 1 1/2" @ 1-#8X1" SHT. METAL SCREWS TO BOTTOM OF 4'-0" O.C. MAX. JOIST OR RAFTER ALTERNATE WIRE

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

1. 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0 GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY

CONNECTION

DSA/ORS.
PROVIDE 12 GA HANGER WIRES WITHIN 8" OF THE ENDS
OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE
LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE

PERIMETER OF THE CEILING AREA.
PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT
MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER
SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR
BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS
OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE
THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED

CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE
THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS
SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS.
IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM
RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD
BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.

AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.

PROVIDE SETS OF 4-#12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:

(A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY
WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12
FEET ON CENTER.

PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2
THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT
THE EDGE OF VERTICAL CEILING OFFSETS.

FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.

DETAIL

CONNECTIONS TO STEEL JOISTS OR PURLINS

NO SCALE

- SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC., IT IS ACCEPTABLE TO ATTACH LIGHT—WEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA.
- ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
- 10. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
- 11. CLASSIFICATION OF CEILING GRID:
  CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" CHICAGO
  METALLIC, PER ASTM C635

MANUFACTURER'S CATALOG NUMBER - MAIN RUNNER HEAVY DUTY MAIN TEE #270-01.

MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER CHICAGO

METALLIC 1254-01 CROSS TEES.

MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER

MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER
SPLICE N/A.
ACQUISTICAL DANIELS SHALL BE 5/8" MINIMUM THICK MINERA

ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS I, 24" X 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION SCIONAL COEFFICIENT OF 0.65 MINIMUM. MAXIMUM SMOKES DENSITY NO. 2310

## CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES

40'-0" EXC. EXT. PANEL

FLOOR PLAN #925

SCALE: 3/16"=1'-0"

NOTE: #926 MIRROR OF #925

THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA.

MANUFACTURER		Y GRID COMP H.D. 4' CROSS TEE	
DONN/USG	DX-26	DX-424	DX-216
ARMSTRONG	7301	7341	7323
CHICAGO MET.	200-01	1204-01	1226-01

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

ACAMPLE

DATE

D

48 X 40 PC RELOCATABLE

CLASSROOMS

FLOOR PLAN #924

CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES



SCALE: 3/16"=1'-0"

CUSTOMER:

MOBILE MODULAR MANAGEMENT CORP.

#924, #925 AND #926

CEILING GRID, DETAILS AND NOTES

	DATE: 12-18-00
	SCALE: NONE
	DRAWN BY: M.H.
١	CHECKED BY:
1	CHECKED BY:
	SERIAL NO.

PROJECT No.

SHEET No.