

**SUSPENDED CEILING GENERAL NOTES:**

SUSPENDED CEILING SYSTEMS SHALL BE DESIGNED TO RESIST A LATERAL FORCE OF 20% OF THE WEIGHT OF THE CEILING ASSEMBLY AND ANY LOADS TRIBUTARY TO THE SYSTEM. A MINIMUM CEILING WEIGHT OF 5 POUNDS PER SQ. FT. SHALL BE USED.

SUSPENDED CEILINGS ARE TO BE INSTALLED TO ASTM STANDARDS, ASTM C635 & C636 & THE GUIDELINES FOR SEISMIC RESTRAINT FOR DIRECT-HUNG SUSPENDED CEILING ASSEMBLIES FOR THE REQUIRED SEISMIC ZONE AS MODIFIED BY THE FOLLOWING:

A. A HEAVY DUTY T-GRID SYSTEM SHALL BE USED.

B. THE WIDTH OF THE PERIMETER SUPPORTING ANGLE SHALL NOT BE LESS THAN 2" IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 0.75 INCH CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE.

C. CEILING AREAS EXCEEDING 1,000 S.F. SHALL HAVE HORIZONTAL RESTRAINT OF THE CEILING TO THE STRUCTURAL SYSTEM.

D. CEILINGS EXCEEDING 2,500 S.F. SHALL HAVE SEISMIC RESTRAINT OR A FULL HEIGHT PARTITION THAT BREAKS THE CEILING UP INTO AREAS NOT EXCEEDING 2,500 S.F. UNLESS STRUCTURAL ANALYSIS ARE PROVIDED FOR THE CEILING BRACING SYSTEM FOR THE PRESCRIBED SEISMIC FORCES THAT DEMONSTRATE CEILING SYSTEM PENETRATIONS AND CLOSURE ANGLES PROVIDE SUFFICIENT CLEARANCE TO ACCOMMODATE THE ANTICIPATED LATERAL DISPLACEMENT. EACH AREA SHALL BE PROVIDED WITH CLOSURE ANGLES IN ACCORDANCE WITH ITEM 2 AND HORIZONTAL RESTRAINTS SHALL BE IN ACCORDANCE WITH ITEM 6.

E. SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2 INCH OVERSIZE RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF AT LEAST 1 INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, A SWING JOINT THAT CAN ACCOMMODATE 1 INCH IN ALL DIRECTIONS IS PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION.

F. PROVIDE POSITIVE CEILING BRACING AT ANY CHANGES IN CEILING ELEVATION. CABLE TRAYS AND ELECTRICAL CONDUITS MUST BE SUPPORTED INDEPENDENTLY OF THE CEILING.

WHERE THE CEILING LOADS DO NOT EXCEED 5 POUNDS PER SQ. FT. AND WHERE PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM, THE FOLLOWING BRACING SYSTEM MAY BE EMPLOYED:

A. LATERAL SUPPORT MAY BE PROVIDED BY FOUR WIRES OF MAX. NO 12 GA. SPPLIED IN FOUR DIRECTIONS 90 DEGREES APART, AND CONNECTED TO THE MAIN RUNNER WITHIN 2 INCHES OF THE CROSS RUNNER AND TO THE STRUCTURE ABOVE AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. THESE LATERAL SUPPORT POINTS SHALL BE PLACED 12'-0" ON CENTER IN EACH DIRECTION, WITH THE FIRST POINT WITHIN 6'-0" FROM EACH WALL.

B. ALLOWANCE SHALL BE MADE FOR LATERAL MOVEMENT OF THE SYSTEM. MAIN RUNNERS MAY BE ATTACHED AT TWO ADJACENT WALLS WITH CLEARANCE BETWEEN THE WALL AND THE RUNNERS MAINTAINED AT THE OTHER TWO WALLS.

C. VERTICAL SUPPORT SHALL BE PROVIDED AS REQUIRED IN BUILDING STANDARDS, WITH THE ADDED REQUIREMENT THAT DISCONTINUOUS ENDS OF CROSS RUNNERS SHALL BE VERTICALLY SUPPORTED WITHIN 12" OF SUCH DISCONTINUITIES AS MAY OCCUR WHEN THE CEILING IS INTERRUPTED BY A WALL.

D. LIGHTING FIXTURES AND AIR DIFFUSERS SHALL BE SUPPORTED DIRECTLY BY WIRES TO THE STRUCTURE ABOVE.

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SCHEDULE		
METAL STUD SIZE & GAUGE	SINGLE STUD	DOUBLE STUD
250 S125-33 (20 GA.)	12'-0"	20'-0"
362 S125-33 (20 GA.)	13'-0"	27'-0"
362 S125-43 (18 GA.)	13'-0"	27'-0"
600 S125-33 (20 GA.)	14'-0"	41'-0"
600 S125-43 (18 GA.)	14'-0"	42'-0"

NOTES:  
1. WHEN ATTACHING TO 2"x4" SUB PURLINS ADD ADDITIONAL 2"x4" WITH 6 D'S @ 24" O.C.  
2. HANGING FROM BOTTOM OF TRUSS IS OK.  
3. FOR BRACING WIRES - SULLY EMBED EYELET SCREW THREADS IN DIRECTION OF WIRE.

**CEILING JOISTS GENERAL NOTES:**

**CEILING JOISTS**

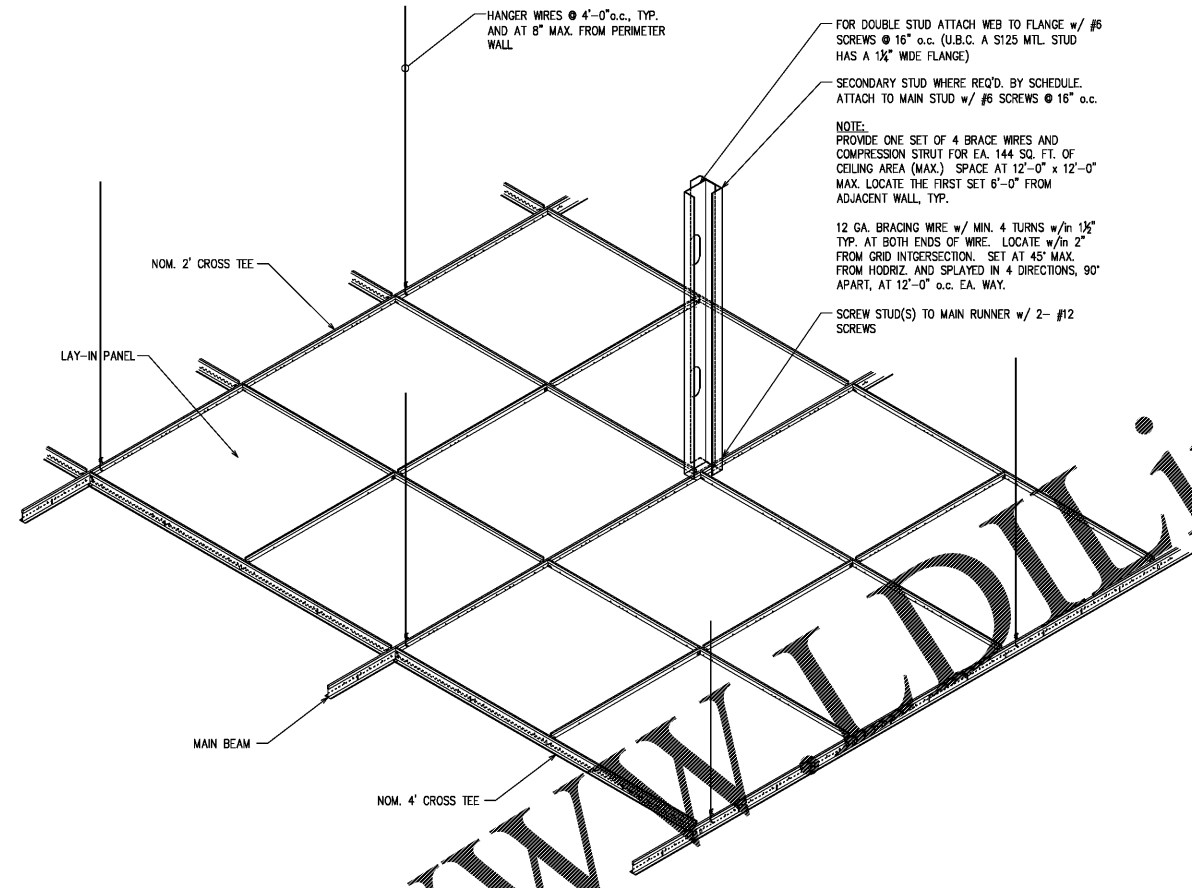
- USE S125 EXT NO. 3064 OR APPROVED EQUAL.
- WHERE CEILINGS SUPPORTED TOILET PARTITIONS OCCUR, USE 600 S125-43 @ 16" O.C. UP TO 16'-0" MAXIMUM SPACING.
- STUD TRACKS SHALL BE UNPUNCHED STUDS OF THE SAME GAUGE AS STUD UNLESS NOTED OTHERWISE.
- 362 S125-43 CEILING TIES WITH 1 - #8 SCREWS @ EACH JOIST.

**ALLOWABLE CEILING SPAN CHART**

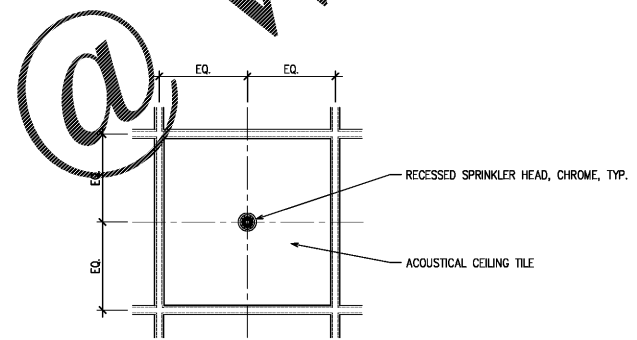
- VALUES ARE FOR SINGLE SPANS.
- ALLOWABLE CEILING SPAN CALCULATIONS BASED ON 33 KSI YIELD STRENGTH STEEL.
- FOR FULLY BRACED CEILINGS, USE MID-SPAN BRACED VALUES.
- END BEARING LENGTH = 1 INCH MINIMUM.

SECTION	THICKNESS (MIL)	6 PSF					
		LATERAL SUPPORT OF COMPRESSION FLANGE UNSUPPORTED			MIDSPAN		
		12	16	24	12	16	24
362 S125	30	9'-10"	9'-2"	8'-2"	14'-1"	13'-1"	11'-7"
	33	10'-3"	9'-5"	8'-6"	14'-6"	13'-6"	12'-1"
	43	11'-4"	10'-5"	9'-3"	15'-11"	14'-8"	13'-1"
362 S137	27	10'-10"	10'-1"	9'-1"	15'-8"	14'-6"	12'-10"
	33	11'-7"	10'-8"	9'-7"	16'-7"	15'-4"	13'-8"
	43	12'-8"	11'-9"	10'-5"	18'-0"	16'-7"	14'-10"
362 S162	33	13'-2"	12'-2"	10'-11"	18'-2"	16'-6"	14'-5"
	43	14'-5"	13'-4"	11'-11"	19'-9"	17'-11"	15'-6"
	27	11'-1"	10'-4"	9'-3"	16'-1"	14'-11"	13'-5"
600 S125	30	11'-5"	10'-7"	9'-6"	16'-6"	15'-4"	13'-9"
	33	11'-9"	10'-11"	9'-10"	17'-0"	15'-9"	14'-2"
	43	12'-10"	11'-10"	10'-7"	18'-4"	16'-11"	15'-3"
600 S137	33	13'-4"	12'-4"	11'-1"	19'-2"	17'-10"	15'-1"
	43	14'-6"	13'-4"	12'-0"	20'-8"	19'-2"	17'-3"
	27	11'-1"	10'-4"	9'-3"	16'-1"	14'-11"	13'-5"
600 S162	33	15'-2"	14'-0"	12'-8"	21'-11"	20'-4"	18'-4"
	43	16'-5"	15'-2"	13'-8"	23'-7"	21'-10"	19'-8"

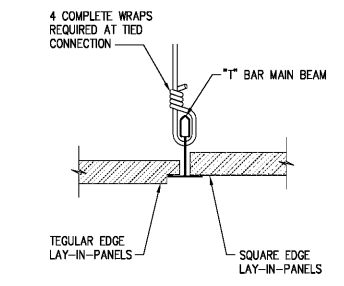
\* WEB STIFFENERS REQUIRED AT SUPPORTS



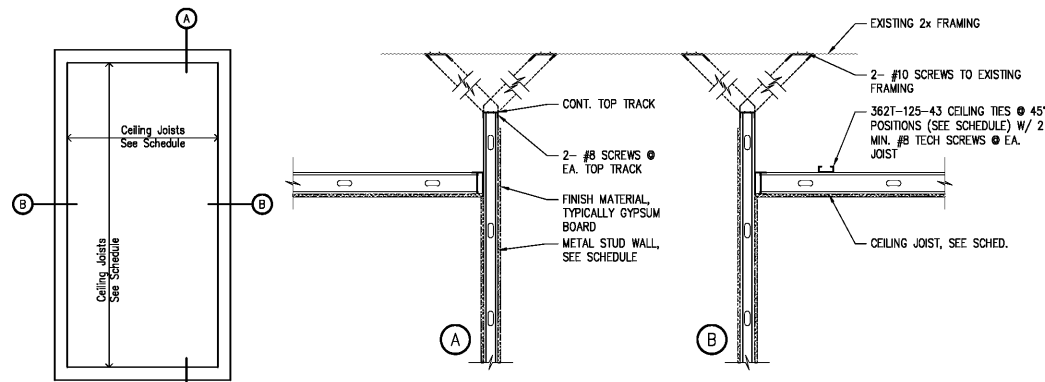
**1D TYPICAL SUSPENDED CEILING GRID**  
Scale: 1" = 1'-0"



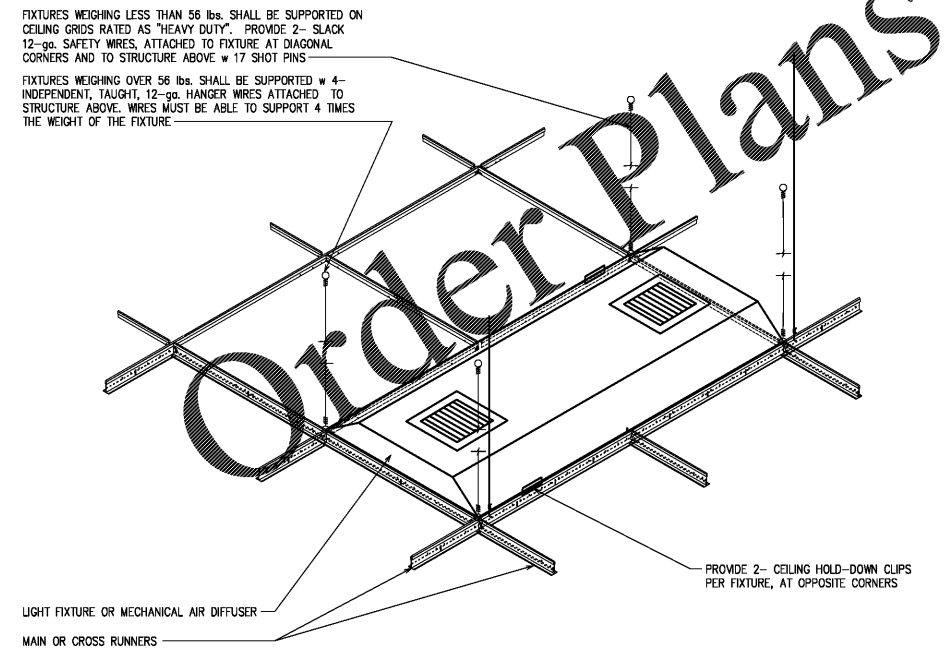
**2D TYPICAL SPRINKLER HEAD DETAIL AT ACOUSTICAL TILE**  
Scale: 1" = 1'-0"



**2E TYP. 1" BAR SECTION**  
Scale: N. T. S.

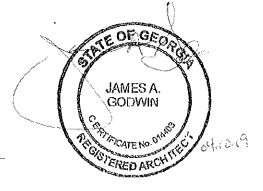


**1D GYPSUM BOARD CEILING AT WALL**  
Scale: 1/2" = 1'-0"



**1A TYPICAL SUSPENDED CEILING GRID**  
Scale: 1" = 1'-0"

Professional Seal



Professional Seal

Revisions

No.	Description

**SPECIAL NOTICE:**  
In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

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Project Number: 49034  
Drawn By: PHM  
Reviewed By: JAG  
Date: 04.10.19

**True Rest Float Spa**  
2995 Cobb Parkway Southeast  
Cobb County, GA 30339

**Reflected Ceiling Plans and Notes**