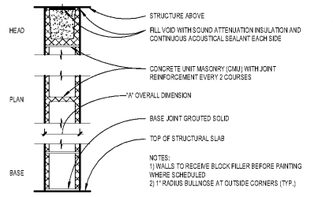


OM NON-RATED CONCRETE MASONRY PARTITION
NON-LOAD BEARING

DESIGNATION NO.	"A" DIM.	FIRE TEST	LIMITING HEIGHT (NOTE 1) CURRENT CMU	LIMITING HEIGHT (NOTE 1) REINF CMU	EQUIVALENT THICKNESS (NOTE 10)
0M040	3 5/8"	N/A	12'-0"	(NOTE 9)	2.67"
					3.625"
					3.625"
0M060	5 5/8"	N/A	18'-0"	(NOTE 9)	3.09"
					5.625"
					5.625"
0M080	7 5/8"	N/A	24'-0"	(NOTE 9)	4.04"
					7.625"
					7.625"
0M120	11 5/8"	N/A	36'-0"	(NOTE 9)	5.66"
					11.625"
					11.625"

"S" MODIFIER DESIGNATION	STC CLASS (NOTE 2 & 4)	WEIGHT CLASS (NOTE 7)	CELL FILL MATERIAL (NOTE 3)
S1	44	LIGHT	HOLLOW
S2	45	LIGHT	GROUT
S3	45	LIGHT	SAND
S1	44	LIGHT	HOLLOW
S2	46	LIGHT	GROUT
S3	47	LIGHT	SAND
S1	45	LIGHT	HOLLOW
S2	53	LIGHT	GROUT
S3	50	LIGHT	SAND
S1	47	LIGHT	HOLLOW
S2	60	LIGHT	GROUT
S3	55	LIGHT	SAND

CMU PARTITIONS

CONCRETE MASONRY UNIT (CMU) PARTITIONS (NON- LOAD BEARING)

CMU GENERAL NOTES

1. LIMITING HEIGHT PROVIDED IN PARTITION SCHEDULES IS ABBREVIATED AND MAY NOT ADDRESS ALL CONDITIONS OF THE PROJECT. THIS INFORMATION IS PROVIDED FOR USE AS A GUIDE AND DOES NOT ALLEVIATE THE CONTRACTOR FROM PROVIDING WALL ASSEMBLIES THAT MEET THE DESIGN CRITERIA FOR EACH CONDITION. THE INFORMATION NOTED IS BASED ON UNREINFORCED INTERIOR MASONRY PARTITIONS PER IBC 2006, SECTION 2105 EMPIRICAL DESIGN OF MASONRY, TABLE 2109.A.1 SEE STRUCTURAL DRAWINGS FOR ALL REINFORCED MASONRY PARTITIONS.

2. SOUND TRANSMISSION CLASS (STC) INDICATED IS BASED ON INFORMATION FROM MASONRY DESIGN AND DETAILING, FIFTH EDITION, FIGURES 8-50, 8-51 & 8-52, ADAPTED FROM THE MASONRY SOCIETY'S STANDARD METHOD FOR DETERMINING THE SOUND TRANSMISSION CLASS RATING FOR MASONRY UNITS. STC INDICATED ARE THE LOW END PUBLISHED RANGE BASED ON THE CMU DENSITY OF 80-105 LBS/CF FOR LIGHTWEIGHT, IF NORMAL OR MEDIUM WEIGHT MASONRY IS USED CONTRACTOR SHALL SUBMIT DATA CONFIRMING THAT MIN. STC CAN BE MET.

3. STC CLASS RATINGS FOR GROUT-FILLED AND SAND-FILLED UNITS REQUIRE THAT THE MATERIALS COMPLETELY FILL ALL VOIDS IN AND AROUND THE UNITS AND ARE BASED ON GROUT DENSITY OF 140 LBS/CF AND SAND UNIT OF 100 LBS/CF.

4. STC CLASS RATINGS BASED ON MINIMUM PERCENT SOLID THICKNESS OF TYPICAL UNITS AS FOLLOWS: 8" = 75.8% SOLID, 6" = 55% SOLID, 8" = 53% SOLID, 10" = 51.7% SOLID AND 12" = 46.7% SOLID. CONTRACTOR SHALL VERIFY CMU MANUFACTURER MEETS OR EXCEEDS THESE PERCENTAGES.

5. ALL PARTITIONS SHALL EXTEND TO AND TERMINATE AT THE UNDERSIDE OF STRUCTURE ABOVE UNLESS NOTED OTHERWISE. COORDINATE STRUCTURAL DEFLECTION REQUIREMENTS AND OTHER WALL DETAILS TO ACCOMMODATE MOVEMENT.

6.ALL RATED PARTITIONS SHALL BE PERMANENTLY IDENTIFIED IN CONCEALED SPACES EITHER AS REQUIRED BY CODE OR WITH 2" HIGH LETTERING IN COLOR/VALUE CONTRASTING WITH THE BACKGROUND AND SPACED NO MORE THAN 12 FEET ON CENTER. TEXT SHALL READ AS REQUIRED BY CODE (EXAMPLE: "1 HOUR FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS.") WHERE REQUIREMENTS CONFLICT, REQUIREMENTS BY LOCAL AUTHORITY HAVING JURISDICTION THEN JURISDICTION MOST LIKELY LOCAL AUTHORITY SHALL GOVERN.

7. WEIGHT CLASSIFICATION SHALL BE AS FOLLOWS: LIGHTWEIGHT (LIGHT) - CMU DENSITY LESS THAN 105 LBS/CF, MEDIUM WEIGHT (MED) - CMU DENSITY 105-125 LBS/CF, NORMAL WEIGHT (NORMAL) - CMU DENSITY GREATER THAN 125 LBS/CF.

8. CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR THE FIRE RATING OF THE CMU FROM THE MANUFACTURER BASED ON THE AGGREGATE MATERIAL USED AND EQUIVALENT THICKNESS. FIRE RATING BASED ON IBC 2006, TABLE 720.1 AND CALCULATED EQUIVALENT THICKNESS AS FOLLOWS:

	AGGREGATE TYPE	EQUIVALENT THICKNESS FACE-TO-FACE (INCHES) 4 HOUR	3 HOUR	2 HOUR	1 HOUR
CONCRETE MASONRY UNITS	EXPANDED SLAG OR PUMICE	4.7	4.0	3.2	2.1
	EXPANDED CLAY, SHALE OR SLATE	5.1	4.4	3.6	2.6
	LIMESTONE, CINDERS OR AIR-COOLED SLAG	5.9	5.0	4.0	2.7
	CALCEROUS OR SILICEOUS GRAVEL	6.2	5.3	4.2	2.8

9. ALL REINFORCED CMU PARTITIONS TO BE DESIGNED AND DETAILED BY THE STRUCTURAL ENGINEER. REFERENCE STRUCTURAL DRAWINGS FOR ALL REINFORCING REQUIREMENTS AND DETAILS. COORDINATE U.L. DESIGN DETAILS FOR PARTITION TERMINATIONS AT STRUCTURE ABOVE AND CONTROL JOINTS WITH STRUCTURAL DETAILS.

10. EQUIVALENT THICKNESS IS THE SOLID THICKNESS THAT WOULD BE OBTAINED IF THE SAME AMOUNT OF MASONRY CONTAINED IN A HOLLOW UNIT WERE RECAST WITHOUT CORE HOLES. THE EQUIVALENT THICKNESS OF A HOLLOW UNIT IS EQUAL TO THE PERCENTAGE OF SOLID (SEE NOTE NO. 4 ABOVE) TIMES THE ACTUAL THICKNESS OF THE UNIT. EQUIVALENT THICKNESS FOR HOLLOW UNITS WITH ALL CELLS COMPLETELY FILLED WITH APPROVED FILL MATERIALS INCLUDES: SAND, PEA GRAVEL, CRUSHED STONE, OR SLAG THAT MEETS ASTM C 33 (REF. 3); PUMICE, SCORIA, EXPANDED SHALE, EXPANDED CLAY, EXPANDED SLATE, EXPANDED SLAG, EXPANDED FLY ASH , OR CINDERS THAT MEET ASTM C 331 (REF. 4) OR C 333 (REF. 5), OR PERLITE OR VERMICULITE THAT MEETS ASTM C 549 AND C 516 (REFS. 6 & 5) RESPECTIVELY. CONTRACTOR TO VERIFY THAT THE CMU MANUFACTURER MEETS OR EXCEEDS THE MINIMUM EQUIVALENT THICKNESS NOTED IN PARTITION TABLE.

11. SPACE MASONRY CONTROL JOINTS AT THE LESSER OF LENGTH TO HEIGHT RATIO = 1.5 OR 25'-0" IN ADDITION, PROVIDE CONTROL JOINTS AT LOCATIONS OF STRESS CONCENTRATIONS SUCH AS:

A. AT CHANGES IN WALL HEIGHT

B. AT CHANGES IN WALL THICKNESS, SUCH AS AT PIPE AND DUCT CHASES AND PILASTERS

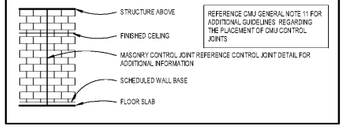
C. AT (ABOVE) MOVEMENT JOINTS IN FOUNDATIONS AND FLOORS

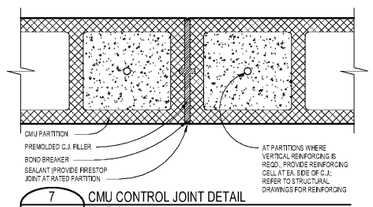
D. AT (BELOW) MOVEMENT JOINTS IN ROOFS AND FLOORS THAT BEAR ON WALL

E. NEAR ONE OR BOTH SIDES OF DOOR AND WINDOW OPENINGS. TYPICALLY ONE SIDE OF OPENING LESS THAN 6'-0" WIDE AND AT BOTH SIDES OF AN OPENING GREATER THAN 6'-0" WIDE. CONTROL JOINTS MAY BE OMITTED IF ADEQUATE TENSILE REINFORCEMENT IS PLACED ABOVE AND BELOW WALL OPENINGS IF REVIEWED AND APPROVED BY STRUCTURAL ENGINEER.

F. ADJACENT TO CORNERS OF WALLS OR INTERSECTIONS WITHIN A DISTANCE EQUAL TO HALF THE CONTROL JOINT SPACING.

CMU MASONRY CONTROL JOINT PLACEMENT DIAGRAM





7 / AF9.04 CMU CONTROL JOINT DETAIL
SCALE: 3" = 1'-0"

COOPER CARRY
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191 Peachtree Street NE
Suite 2400
Atlanta, GA 30303-1770
(404) 237-2000
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ISSUANCES No.	Drawing Issue Description	Date
	ISSUED FOR BID	11/04/19

PEBBLEBROOK HS S5B007 - FIELDHOUSE
DOE Facility Code 7010
FTE = 2787
IU = 143
991 OLD ALABAMA ROAD
MABLETON, GA 30126
COBB COUNTY SCHOOL DISTRICT

INTERIOR PARTITIONS (CMU)

ROBERT JUST, Principal-in-Charge	20190224.01, Project No.
SOPHIA TARKHAN, Project Manager	11/04/19, Date
MARC NUNES, Project Architect	
WILLIAM CALLAHAN, Staff Architect	AF9.04, Drawing No.

ISSUED FOR CONSTRUCTION

PROJECT NUMBER: 20190224.01 PROJECT NAME: PEBBLEBROOK HS S5B007 - FIELDHOUSE
SHEET NUMBER: AF9.04 SHEET NAME: INTERIOR PARTITIONS (CMU)
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