CODE ANALYSIS FOR NEW CONSTRUCTION (2007 KBC)

OCCUPANCY GROUP: B EDUCATION (304) CONSTRUCTION TYPE: 3B, UNPROTECTED ORDINARY NUMBER OF STORIES: THREE, PLUS BASEMENT APPROXIMATE AREAS: BASEMENT 11,695 SF **1ST FLOOR** 46,294 SF 2ND FLOOR 41,798 SF **3RD FLOOR** 12,098 SF TOTAL 112,115 SF (ALLOWED UP TO FOUR STORIES AND 65,360 SF PER TABLE 503.) OCCUPANCY LOAD (1004.1.1): BASEMENT: 11,695 GSF / 100 PER OCC. = 117 1ST FLOOR: 46,294 GSF / 100 PER OCC. = 508 2ND FLOOR: 41,798 GSF / 100 PER OCC. = 389

3RD FLOOR: 12,098 GSF / 100 PER OCC. =				116			
		BUILD	DING TO	ЭТА	L 1'	130	
PLUMBING FI	XTURES:						
WATER CL	OSETS FOR	MEN:			C. / 50 = 12 RE /IDED + 6 UR		
WATER CL	OSETS FOR	WOMEN	(18 F	PRC	C. / 25 = 23 RE VIDED, PLUS RESTROOM	SEVEN	
LAVATORIES FOR MEN:			565. (10 F	565. / 50 = 12 REQ. (10 PROVIDED, PLUS SEVEN UNISEX LAVATORIES)			
	ES FOR WOM	\sim	565 (11 F UNIS	OC PRC SEX	C. / 50 = 12 RE VIDED, PLUS LAVATORIES	EQ. S SEVEN S)	
DRINKING	FOUNTAINS:				CC. / 75 = 15 R)VIDED)	EQ.	
EGRESS (TABLE 1	COMPONENT 003.2.3)	S					
					REQUIRED	ACTUA	
FIRST FLC	DOR				(463 OCCUF	PANTS)	
NUMBER	OF EXITS						
	(TABLE 1019	9.1)			2	3	
EGRESS [DOORS						
	Z	463 >	< 0.2	=	92.6 inches	216 inche	
EGRESS	CORRIDORS						
	Z	463 >	(0.2	=	92.6 inches	216 inche	
	NTINUOUS DUSTICAL SE						
	TH SIDES OF						

BOTH SIDES OF WALL -

DO NOT ATTACH GYPSUM BOARD

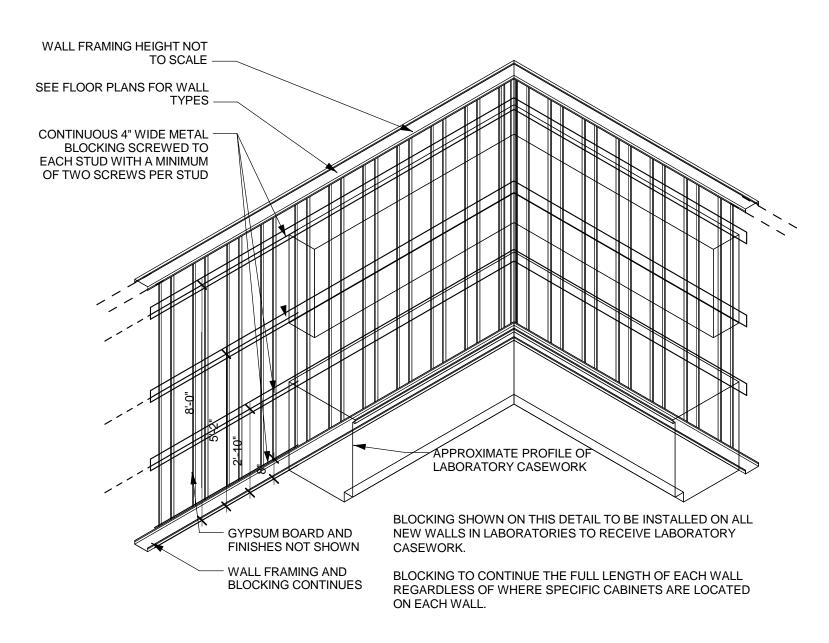
TO TOP TRACK -- ANCHOR TO VERTICAL STUDS ONLY

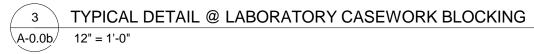
4 TYPICAL DETAIL @ TOP OF NEW WALLS A-0.0b 3" = 1'-0"

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5 TYPICAL DETAIL @ BASE OF NEW WALLS A-0.0b 3" = 1'-0"





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FIRE-RESISTANCE RATINGS REQUIREMENTS (TABLE 601)		
BUILDING ELEMENTS	HOURS	
STRUCTURAL FRAME		
INCLUDING COLUMNS, GIRDERS, TRUSSES (EXCLUDES DIAGONAL BRACING FOR WIND LOADS)	0	
BEARING WALLS (PER TABLE 602)		
EXTERIOR	2	
INTERIOR	0	
NON BEARING WALLS AND PARTITIONS		
EXTERIOR (BASED ON FIRE SEPARATION DISTANCE GREATER THAN 30 FEET PER TABLE 602)	0	
INTERIOR	0	
FLOOR CONSTRUCTION		
INCLUDING METAL DECK, SUPPORTING BEAM, AND JOIST	0	
ROOF CONSTRUCTION		
INCLUDING METAL DECK, SUPPORTING BEAM, AND JOIST	0	
SPECIAL CONDITIONS		
STORAGE ROOMS OVER 100 SF (PER 508.2.2)	SMOKE TIGHT	
SHAFT ENCLOSURES (PER 707.4)	2	
CORRIDOR FIRE RESISTANCE PER TABLE 1017.1	0	
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WALL TYPES	PLAN DETAIL	
· (1A) ·	5/8" 3 5/8"	ONE LAYER 5/8" GYPSUM WAL TO EACH SIDE OF 3 5/8" METAL
· (1B) ·	5/8" 5/8"35/8" 5/8"35/8" 5/8"	ONE LAYER 5/8" GYPSUM WAL PLYWOOD, WITH 1" TYPE "S" D 16" O.C. WITH 1" TYPE "S" DRY TILE BACKERBOARD APPLIED DRYWALL SCREWS @ 12" O.C.
	5/8" 5/8" 5/8" 5/8" 5/8" 5/8"	ONE LAYER 5/8" GYPSUM WAL PLYWOOD WITH 1" TYPE "S" DF @ 16" O.C. WITH 1" TYPE "S" DF
· (1D) ·	5/8" 3 5/8" 5/8" 4 7/8"	ONE LAYER 5/8" GYPSUM WAL TO EACH SIDE OF 3 5/8" METAL PROVIDE ACOUSTICAL BATT IN
TE		ONE LAYER 5/8" GYPSUM WAL PLYWOOD, WITH 1" TYPE "S" D 16" O.C. WITH 1" TYPE "S" DRY TILE BACKER BOARD APPLIED DRYWALL SCREWS @ 12" O.C.
· (1F) ·		ONE LAYER 5/8" GYPSUM WAL PLYWOOD WITH 1" TYPE "S" DF @ 16" O.C. WITH 1" TYPE "S" DF
1G		ONE LAYER 5/8" GYPSUM WAL TO ONE SIDE 3 5/8" METAL STU
· (1H) ·		ONE LAYER 5/8" GYPSUM WAL PLYWOOD, WITH 1" TYPE "S" D 16" O.C. WITH 1" TYPE "S" DRY\
2A		ONE LAYER 5/8" GYPSUM WAL TO EACH SIDE OF 6" METAL ST
2B	5/8"	ONE LAYER 5/8" GYPSUM WAL PLYWOOD, WITH 1" TYPE "S" D 16" O.C. WITH 1" TYPE "S" DRY APPLIED AT RIGHT ANGLES OF 12" O.C. ONE LAYER 5/8" GYPSUM WAL TO EACH SIDE OF 6" METAL ST
2D		ONE LAYER 5/8" GYPSUM WAL
2E	5/8" 6" 5/8" 7 1/4"	PLYWOOD, WITH 1" TYPE "S" D 16" O.C. WITH 1" TYPE "S" DRYV TILE BACKER BOARD APPLIED DRYWALL SCREWS @ 12" O.C. ONE LAYER 5/8" GYPSUM WALL STUDS @ 16" O.C. WITH 1" TYP
2G		HIGHEST ADJACENT CEILING.
(3A)		ONE LAYER 5/8" GYPSUM WAL
3E		PLYWOOD, WITH 1" TYPE "S" D 16" O.C. WITH 1" TYPE "S" DRYV BACKER BOARD APPLIED AT R DRYWALL SCREWS @ 12" O.C. ONE LAYER 5/8" GYPSUM WALL HAT CHANNELS @ 16" O.C. WIT
AA		ONE LAYER 5/8" GYPSUM WAL
4B		METAL STUDS @ 16" O.C. WITH

WALL TYPES

- COPE NEW WALLS TO FOLLOW PROFILE OF EXISTING CONCRETE STRUCTURE

- EXISTING STRUCTURE ABOVE - ATTACH METAL SINGLE LONG-LEG RUNNER TO UNDER SIDE OF DECK ABOVE AT 16" O.C.

- FRICTION FIT STUDS INTO RUNNER. PROVIDE BRIDGING WITHIN 12" OF TOP OF STUDS - ACOUSTICAL BATT INSULATION

FULL HEIGHT -- SEE A-0.0 FOR WALL TYPES

	NEW PARTITION WITH GYPSUM BOARD WITH PAINTED FINISH
	ACOUSTICAL BATT INSULATION FULL HEIGHT SEE A-0.0 FOR WALL TYPES
	CONTINUOUS ACOUSTICAL SEALANT ON BOTH SIDES OF WALL
	BASE AND FINISHES NOT SHOWN - SEE FINISH SCHEDULES FOR TYPE

- FLOOR LINE - SEE FINISH SCHEDULES FOR TYPE

	WALL SCHEDULE	Ŷ			
					HEAD OF WALL JOINT
			HEIGHT	FIRE RATING	SYSTEM
	TILE BACKER BOARD APPLIED AT F 5" O.C. WITH 1" TYPE "S" DRYWALL		FULL HEIGHT		
RYWALL SCR WALL SCREW	LIED AT RIGHT ANGLES OR PARAL EWS @ 12" O.C., APPLIED TO ONE /S @ 12" O.C. WITH ONE LAYER OI GLES OR PARALLEL TO THE OPPC	SIDE OF 3 5/8" METAL STUDS @ F 5/8" GYPSUM WALLBOARD OR	HEIGHT, PLYWOOD		
RYWALL SCRI	LIED AT RIGHT ANGLES OR PARAL EWS @ 12" O.C., APPLIED TO EACH EWS @ 12" O.C.		TO 8' A.F.F. WALL FULL HEIGHT, PLYWOOD		
	TILE BACKER BOARD APPLIED AT I 5" O.C. WITH 1" TYPE "S" DRYWALL ULL HEIGHT.		TO 8' A.F.F. FULL - HEIGHT	NON-RATED. STC-40	
RYWALL SCR WALL SCREW AT RIGHT AN MAXIMUM - F LBOARD APPI RYWALL SCRI	LIED AT RIGHT ANGLES OR PARAL REWS @ 12" O.C., APPLIED TO ONE /S @ 12" O.C. WITH ONE LAYER OF IGLES OR PARALLEL TO THE OPPO PROVIDE ACOUSTICAL BATT INSUL LIED AT RIGHT ANGLES OR PARAL EWS @ 12" O.C., APPLIED TO EACH	E SIDE OF 3 5/8" METAL STUDS @ F 5/8" GYPSUM WALLBOARD OR DSITE SIDE WITH 1" TYPE "S" LATION FULL HEIGHT. LEL TO EACH SIDE OF 5/8"	HEIGHT, PLYWOOD TO 8' A.F.F. WALL FULL		
RYWALL SCRE	EWS @ 12" O.C.		HEIGHT, PLYWOOD		
	TILE BACKER BOARD APPLIED AT I C. WITH 1" TYPE "S" DRYWALL SCR		TO 8' A.F.F. FULL HEIGHT		
RYWALL SCR	LIED AT RIGHT ANGLES OR PARAL REWS @ 12" O.C., APPLIED TO ONE /S @ 12" O.C. MAX		FULL HEIGHT		
	TILE BACKER BOARD APPLIED AT I .C. WITH 1" TYPE "S" DRYWALL SC		FULL HEIGHT		
RYWALL SCR WALL SCREW	LIED AT RIGHT ANGLES OR PARAL REWS @ 12" O.C., APPLIED TO ONE /S @ 12" O.C. WITH ONE LAYER OI TO THE OPPOSITE SIDE WITH 1" TY	SIDE OF 6" METAL STUDS @ F 5/8" GYPSUM WALLBOARD	WALL FULL HEIGHT, PLYWOOD TO 8' A.F.F.		
	TILE BACKER BOARD APPLIED AT I .C. WITH 1" TYPE "S" DRYWALL SC ULL HEIGHT.		FULL HEIGHT		
RYWALL SCR WALL SCREW AT RIGHT AN	LIED AT RIGHT ANGLES OR PARAL EWS @ 12" O.C., APPLIED TO ONE /S @ 12" O.C. WITH ONE LAYER OI IGLES OR PARALLEL TO THE OPPO PROVIDE ACOUSTICAL BATT INSUL	E SIDE OF 6" METAL STUDS @ F 5/8" GYPSUM WALLBOARD OR OSITE SIDE WITH 1" TYPE "S"	WALL FULL HEIGHT, PLYWOOD TO 8' A.F.F.		
E "S" DRYWA	LIED AT RIGHT ANGLES OR PARAL LL SCREWS @ 12" O.C. MAX WAL VARIES WITH WALL HEIGHT -SEE	L TO EXTEND 6" ABOVE	FULL HEIGHT		
	LIED AT RIGHT ANGLES OR PARAL LL SCREWS @ 12" O.C.	LEL TO EACH SIDE OF 8" META	- FULL HEIGHT		
RYWALL SCR WALL SCREW	LIED AT RIGHT ANGLES OR PARAL EWS @ 12" O.C., APPLIED TO ONE /S @ 12" O.C. WITH ONE LAYER ON S OR PARALLEL TO THE OPPOSITE PROVIDE ACOUSTICAL BATT INSUL	E SIDE OF 8" METAL STUDS @ F 5/8" GYPSUM BOARD OR TILE E SIDE WITH 1" TYPE "S"	FULL HEIGHT		
LBOARD APPI	LIED AT RIGHT ANGLES OR PARAL " DRYWALL SCREWS @ 12" O.C. M	LEL TO ONE SIDE 7/8" METAL	FULL HEIGHT		
			FULL		

