COOPERTOWN ELEMENTARY SCHOOL
SCHOOL DISTRICT OF HAVERFORD TOWNSHIP
800 COOPERTOWN ROAD
BRYN MAWR, PA 19010

BUILDING CODE INFORMATION:

APPLICABLE BUILDING CODE(S):
- INTERNATIONAL EXISTING BUILDING CODE / 2018
- INTERNATIONAL BUILDING CODE / 2018
- ICC/ANSI A117.1 / 2009 & 2010 ADA STANDARDS (ADA)

BUILDING #1:

ADDITION/ALTERATIONS LEVEL II
CONSTRUCTION CLASSIFICATION(S): TYPE II B
OCCUPANCY CLASSIFICATION(S): GROUP E
EGRESS DESIGN OCCUPANT LOADS: 1,179
TABULAR HEIGHT & AREA: T-504.3 (S) T-504.4 (S) T-506.2 (S1)
75 FEET 3-STORY 58,000 SQUARE FEET
PROPOSED BUILDING AREA: 56,843 SQUARE FEET
MAXIMUM ALLOWABLE FIRE AREA WITHOUT AUTOMATIC SPRINKLERS: 12,000 SQUARE FEET
PROPOSED FIRE AREA WITHOUT AUTOMATIC SPRINKLERS: 0 SQUARE FEET
ALLOWABLE BUILDING HEIGHT: 75 FEET AND 3 STORIES
PROPOSED BUILDING HEIGHT: < 50 FEET AND 1 STORY
REQUIRED NUMBER OF EXITS: 4
PROPOSED NUMBER OF EXITS: 6
PROPOSED EGRESS WIDTHS: DOOR(S): STAIRWAY(S):
FIRST FLOOR: 510 INCHES N/A
EXIT CAPACITY (# PERSONS):
OCCUPANT LOAD: EXIT DOOR(S): STAIRWAY(S): TOTAL:
FIRST FLOOR: 1,179 3,400 N/A 3,400
ACCESSIBLE MEANS OF EGRESS: REQUIRED: PROVIDED:
FIRST FLOOR: 2 6
NON-ACCESSIBLE MEZZANINE(S): 0 SQUARE FEET

BUILDING #2:

ADDITION/ALTERATIONS LEVEL II
CONSTRUCTION CLASSIFICATION(S): TYPE II B
OCCUPANCY CLASSIFICATION(S): GROUP E
EGRESS DESIGN OCCUPANT LOADS: 692
TABULAR HEIGHT & AREA: T-504.3 (S) T-504.4 (S) T-506.2 (S1)
75 FEET 3-STORY 58,000 SQUARE FEET
ALLOWABLE BUILDING AREA: 58,000 SQUARE FEET
PROPOSED BUILDING AREA: 27,573 SQUARE FEET
MAXIMUM ALLOWABLE FIRE AREA WITHOUT AUTOMATIC SPRINKLERS: 12,000 SQUARE FEET
PROPOSED FIRE AREA WITHOUT AUTOMATIC SPRINKLERS: 0 SQUARE FEET
ALLOWABLE BUILDING HEIGHT: 75 FEET AND 3 STORIES
PROPOSED BUILDING HEIGHT: < 50 FEET AND 1 STORY
REQUIRED NUMBER OF EXITS: 3
PROPOSED NUMBER OF EXITS: 5
PROPOSED EGRESS WIDTHS: DOOR(S): STAIRWAY(S):
FIRST FLOOR: 340 INCHES N/A
EXIT CAPACITY (# PERSONS):
OCCUPANT LOAD: EXIT DOOR(S): STAIRWAY(S): TOTAL:
FIRST FLOOR: 692 2,266 N/A 3,006
ACCESSIBLE MEANS OF EGRESS: REQUIRED: PROVIDED:
FIRST FLOOR: 2 5
NON-ACCESSIBLE MEZZANINE(S): 0 SQUARE FEET

FIRE PROTECTION SYSTEMS:
AUTOMATIC SPRINKLERS: THROUGHOUT - PER NFPA-13
STANDPIPE SYSTEM(S): N/A
EMERGENCY VENTILATION: N/A
FIRE ALARM SYSTEM: PER NFPA-72 – MANUAL ALARM WITH VOICE ALARM COMMUNICATION
FIRE EXTINGUISHERS: PER INTERNATIONAL FIRE CODE & NFPA-10
MAXIMUM TRAVEL DISTANCES TO EXTINGUISHERS:
CLASS 'A' HAZARDS: 75 FEET
CLASS 'B' HAZARDS: 30 OR 50 FEET
TYPE 'K': 30 FEET TO COOKING EQUIPMENT

TYPICAL BUILDING CONSTRUCTION – TYPE II B:

EXTERIOR WALLS:
FIRE SEPARATION LESS THAN 10 FEET = 1-HOUR RATED
FIRE SEPARATION AT LEAST 10 FEET = 0-HOUR RATED
WITHIN 10 FEET OF LOT LINES = 1-HOUR RATED
FLOOR / CEILINGS: 0-HOUR RATED CONSTRUCTION
ROOF / CEILING: 0-HOUR RATED CONSTRUCTION
FIRE WALL: 2-HOUR RATED CONSTRUCTION – BETWEEN BUILDINGS

OTHER TYPICAL CONSTRUCTION:

2-HOUR RATED FIRE BARRIERS:
EMERGENCY GENERATOR ROOM
HORIZONTAL EXIT

1-HOUR RATED FIRE BARRIERS:
SHAFTS CONNECTING < 4 FLOORS – N/A
EXIT STAIR ENCLOSURES CONNECTING < 4 FLOORS – N/A
ELEVATOR HOISTWAY CONNECTING < 4 FLOORS – N/A
ELEVATOR MACHINE ROOM (SAME AS HOISTWAY) – N/A
STAGE & APPURTENANT ROOMS – N/A
FIRE PUMP ROOM

1-HOUR RATED FIRE PARTITIONS: N/A
CONSTRUCTION RESISTING PASSAGE OF SMOKE:
BOILER ROOM – MECHANICAL ROOM
LABORATORIES & VOCATIONAL SHOPS – N/A

COOPERTOWN ELEMENTARY — CRA 3758

2/27/2025

Per IBC 2018 Occupant Load Table 1004.5 and 2018 IPC Min. Plumbing Fixture Table 403.1

Room name		Area (SF)	Casework	SF Per Occupant	Occupant Loads Plumbing	Occupant Loads Egress	Water Closets Male	Water Closets Female	Lavatory Male	Lavatory Female	Drinking Foun.
BUILDING #1 -56843 SQ FT											
KINDERGARTEN	A101	860		20	0.00	43.00					
KINDERGARTEN	A102	759		20	0.00	37.95					
KINDERGARTEN	A103	758		20	0.00	37.90		RESTROOM PROVIDED IN AREA			
FIRST GRADE	A104	779		20	0.00	38.95					
FIRST GRADE	A105	739		20	0.00	36.95					
KINDERGARTEN	A109	845		20	0.00	42.25					
INTERVENTION	A110	371		50	7.42	7.42	0.07	0.07	0.07	0.07	0.07
READING SUPPORT	A111	407		50	8.14	8.14	0.08	0.08	0.08	0.08	0.08
AUTISTIC SUPPORT	A112	743		20	0.00	37.15					
FIRST GRADE	A113	761		20	0.00	38.05		RESTROOM PROVIDED IN AREA			
FIRST GRADE	A114	787		20	0.00	39.35					
MDF	A117	106		300	0.00	0.35	0.00	0.00	0.00	0.00	0.00
ART	A118	907		50	18.14	18.14	0.18	0.18	0.18	0.18	0.18
KILN	A119	85		50	1.70	1.70	0.02	0.02	0.02	0.02	0.02
IT OFFICE	A120	134		150	0.89	0.89	0.01	0.01	0.01	0.01	0.01
ART STORAGE	A121	239		300	0.00	0.80	0.00	0.00	0.00	0.00	0.00
MECHANICAL	A122	36		300	0.00	0.12	0.00	0.00	0.00	0.00	0.00
ADMIN SUITE		2874		150	0.00	19.16		RESTROOM PROVIDED IN AREA			
NURSE SUITE		1121		150	0.00	7.47		RESTROOM PROVIDED IN AREA			
BUILDING SUPPORT		218		300	0.00	0.73	0.00	0.00	0.00	0.00	0.00
FACULTY DINING	B119	350		15	23.33	23.33	0.23	0.23	0.23	0.23	0.23
LIBRARY	B121 READING	1467		50	29.34	29.34	0.29	0.29	0.29	0.29	0.29
LIBRARY	STACK	1258		100	12.58	12.58	0.13	0.13	0.13	0.13	0.13
LIBRARY ADMIN	B122	294		150	1.96	1.96	0.02	0.02	0.02	0.02	0.02
CAFETERIA	B123	2596		15	173.07	173.07	1.73	1.73	1.73	1.73	1.73
EMOTIONAL SUPPORT	B126	312		20	15.60	15.60	0.16	0.16	0.16	0.16	0.16
BUILDING SUPPORT		1831		300	0.00	6.10	0.00	0.00	0.00	0.00	0.00
KITCHEN		2175		200	10.88	10.88	0.11	0.11	0.11	0.11	0.11
LOCKER	B136	75		50	1.50	1.50	0.02	0.02	0.02	0.02	0.02
OFFICE	B137	114		150	0.76	0.76	0.01	0.01	0.01	0.01	0.01
CUSTODIAL	B142	75		300	0.00	0.25	0.00	0.00	0.00	0.00	0.00
OT/PT	C101	392		20	19.60	19.60	0.20	0.20	0.20	0.20	0.20
SPEECH	C103	387		20	19.35	19.35	0.19	0.19	0.19	0.19	0.19
LEARNING SUPPORT	C102	393		50	7.86	7.86	0.08	0.08	0.08	0.08	0.08
LEARNING SUPPORT	C104	388		50	7.76	7.76	0.08	0.08	0.08	0.08	0.08
SECOND GRADE	C105	795		20	39.75	39.75	0.40	0.40	0.40	0.40	0.40
SECOND GRADE	C106	797		20	39.85	39.85	0.40	0.40	0.40	0.40	0.40
SECOND GRADE	C107	797		20	39.85	39.85	0.40	0.40	0.40	0.40	0.40
SECOND GRADE	C108	796		20	39.80	39.80	0.40	0.40	0.40	0.40	0.40
STORAGE	C110	111		300	0.00	0.37	0.00	0.00	0.00	0.00	0.00
CALM ROOM	C111	105		50	2.10	2.10	0.02	0.02	0.02	0.02	0.02
MUSIC	C112	763		20	38.15	38.15	0.38	0.38	0.38	0.38	0.38
INSTRUMENTAL	C113	338		20	16.90	16.90	0.17	0.17	0.17	0.17	0.17
INSTRUMENTAL	C129	363		20	18.15	18.15	0.18	0.18	0.18	0.18	0.18
AUTISTIC SUPPORT	C114	668		20	33.40	33.40	0.33	0.33	0.33	0.33	0.33
BUILDING SUPPORT		781		300	0.00	2.60	0.00	0.00	0.00	0.00	0.00
GYM	C124	5761		50	115.22	115.22	1.15	1.15	1.15	1.15	1.15
OFFICE	C125	120		150	0.80	0.80	0.01	0.01	0.01	0.01	0.01
PLATFORM	C126	673		15	44.87	44.87	0.45	0.45	0.45	0.45	0.45
GYM STORAGE	C127	295		300	0.00	0.98	0.00	0.00	0.00	0.00	0.00
		Plumbing		**T-1004.1.2**							
	Occupant Load	**788.72**		**1179.21**							
Required Door Widths at 0.15 inches per person =		**176.88**									
BUILDING #2-27573 SQ FT											
SGI	D101	384		20	19.20	19.20	0.19	0.19	0.19	0.19	0.19
AUTISTIC SUPPORT	D102	394		20	19.70	19.70	0.20	0.20	0.20	0.20	0.20
IDF	D103	151		300	0.50	0.50	0.01	0.01	0.01	0.01	0.01
WORKROOM	D104	182		150	1.21	1.21	0.01	0.01	0.01	0.01	0.01
FOURTH GRADE	D105	772		20	38.60	38.60	0.39	0.39	0.39	0.39	0.39
OPEN CLASSROOM	D106	963		20	48.15	48.15	0.48	0.48	0.48	0.48	0.48
SPECIAL EDUCATION	D108	785		50	15.70	15.70	0.16	0.16	0.16	0.16	0.16
FOURTH GRADE	D109	786		20	39.30	39.30	0.39	0.39	0.39	0.39	0.39
THIRD GRADE	D111	772		20	38.60	38.60	0.39	0.39	0.39	0.39	0.39
LEARNING SUPPORT	D112	527		50	10.54	10.54	0.11	0.11	0.11	0.11	0.11
STORAGE	D113	439		300	1.46	1.46	0.01	0.01	0.01	0.01	0.01
CUSTODIAL	D119	59		300	0.20	0.20	0.00	0.00	0.00	0.00	0.00
BUILDING SUPPORT		221		300	0.74	0.74	0.01	0.01	0.01	0.01	0.01
THIRD GRADE	D120	809		20	40.45	40.45	0.40	0.40	0.40	0.40	0.40
THIRD GRADE	D121	809		20	40.45	40.45	0.40	0.40	0.40	0.40	0.40
THIRD GRADE	D124	773		20	38.65	38.65	0.39	0.39	0.39	0.39	0.39
FOURTH GRADE	E101	773		20	38.65	38.65	0.39	0.39	0.39	0.39	0.39
SPECIAL EDUCATION	E105	803		50	16.06	16.06	0.16	0.16	0.16	0.16	0.16
FOURTH GRADE	E106	787		20	39.35	39.35	0.39	0.39	0.39	0.39	0.39
OPEN CLASSROOM	E108	962		20	48.10	48.10	0.48	0.48	0.48	0.48	0.48
BUILDING SUPPORT		221		300	0.74	0.74	0.01	0.01	0.01	0.01	0.01
FIRE PUMP	E114	286		300	0.95	0.95	0.01	0.01	0.01	0.01	0.01
PLUMBING	E115	120		300	0.40	0.40	0.00	0.00	0.00	0.00	0.00
TEACHERS AIDES	E116	144		150	0.96	0.96	0.01	0.01	0.01	0.01	0.01
SGI	E117	497		20	24.85	24.85	0.25	0.25	0.25	0.25	0.25
LEARNING SUPPORT	E118	527		50	10.54	10.54	0.11	0.11	0.11	0.11	0.11
FIFTH GRADE	E119	772		20	38.60	38.60	0.39	0.39	0.39	0.39	0.39
FIFTH GRADE	E120	771		20	38.55	38.55	0.39	0.39	0.39	0.39	0.39
FIFTH GRADE	E122	812		20	40.60	40.60	0.41	0.41	0.41	0.41	0.41
FIFTH GRADE	E123	812		20	40.60	40.60	0.41	0.41	0.41	0.41	0.41
		Plumbing		**T-1004.1.2**							
	Occupant Load	**692.40**		**692.40**							
Required Door Widths at 0.15 inches per person =		**103.86**									
					1481.12	1874.84	14.81	14.81	14.81	14.81	14.81
					Total Occupant Loads						
					Plumbing	**Egress**					
					1482	**1872**	14.82	14.82	14.82	14.82	7.41
							Water Closets		**Lavatory**		**Drinking**
							Male	**Female**	**Male**	**Female**	**Fountains**
Required Plumbing Fixtures; Normal Daily Use:		**Totals:**					**15**	**15**	**15**	**15**	**8**

				Water Closets Male	Water Closets Female	Lavatory Male	Lavatory Female	Drinking Foun.
BUILDING #1:								
A108	**CORRIDOR**							**2.0**
A115	**SINGLE USER TOILET**			**0.5**	**0.5**	**0.5**	**0.5**	
A116	**SINGLE USER TOILET**			**0.5**	**0.5**	**0.5**	**0.5**	
A123	**MALE TOILETS**		**EXTG.**	**3.0**				
A124	**FEMALE TOILETS**		**EXTG.**		**3.0**			
B114	**VESTIBULE**		**EXTG.**			**1.5**	**1.5**	**2.0**
B120	**SINGLE USER TOILET**		**EXTG.**	**0.5**	**0.5**	**0.5**	**0.5**	
B135	**SINGLE USER TOILET**			**0.5**	**0.5**	**0.5**	**0.5**	
B144	**SERVING/CAFETERIA**					**0.5**	**0.5**	**2.0**
C117	**FEMALE TOILETS**		**EXTG.**		**2.0**		**2.0**	
C118	**MALE TOILETS**		**EXTG.**	**2.0**		**2.0**		
C124	**GYM**							**2.0**
BUILDING #2:								
D110	**CORRIDOR**							**4.0**
D114	**FEMALE TOILETS**				**4.0**		**4.0**	
D115	**MALE TOILETS**			**4.0**		**4.0**		
D117	**SINGLE USER TOILET**			**0.5**	**0.5**	**0.5**	**0.5**	
D118	**SINGLE USER TOILET**			**0.5**	**0.5**	**0.5**	**0.5**	
E102	**MALE TOILETS**		**EXTG.**	**3.0**		**3.0**		
E103	**FEMALE TOILETS**		**EXTG.**		**3.0**		**3.0**	
E110	**FAMILY TOILET**			**0.5**	**0.5**	**0.5**	**0.5**	
E111	**SINGLE USER TOILET**			**0.5**	**0.5**	**0.5**	**0.5**	
				Water Closets Male	**Water Closets Female**	**Lavatory Male**	**Lavatory Female**	**Drinking Fountains**
Total Provided Plumbing Fixtures:				**16.0**	**16.0**	**15.0**	**15.0**	**12.0**
Total Required Plumbing Fixtures:				**15**	**15**	**15**	**15**	**8**
		Excess Fixtures / Deficit =		**1.00**	**1.00**	**0.00**	**0.00**	**4**

GYMNASIUM	(CHAIR SEATING)	5761	net	7	823.00	823.00	3.29	6.33	2.06	2.06	1.65
PLATFORM		673	net	15	44.87	44.87	0.18	0.35	0.11	0.11	0.09
				Total	867.87		3.47	6.68	2.17	2.17	1.74
							Water Closets Male	**Water Closets Female**	**Lavatory Male**	**Lavatory Female**	**Drinking Fountains**
							4	**7**	**3**	**3**	**2**

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REVISIONS

MM-DD-YR	NAME	DESCRIPTION OF CHANGES

CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS
401 EAST WINDING HILL ROAD
MECHANICSBURG PA 17055
717-458-0272
www.cra-architects.com
TOWSON, MARYLAND
CHARLOTTESVILLE, VIRGINIA
WHITE SULPHUR SPRINGS, WEST VIRGINIA

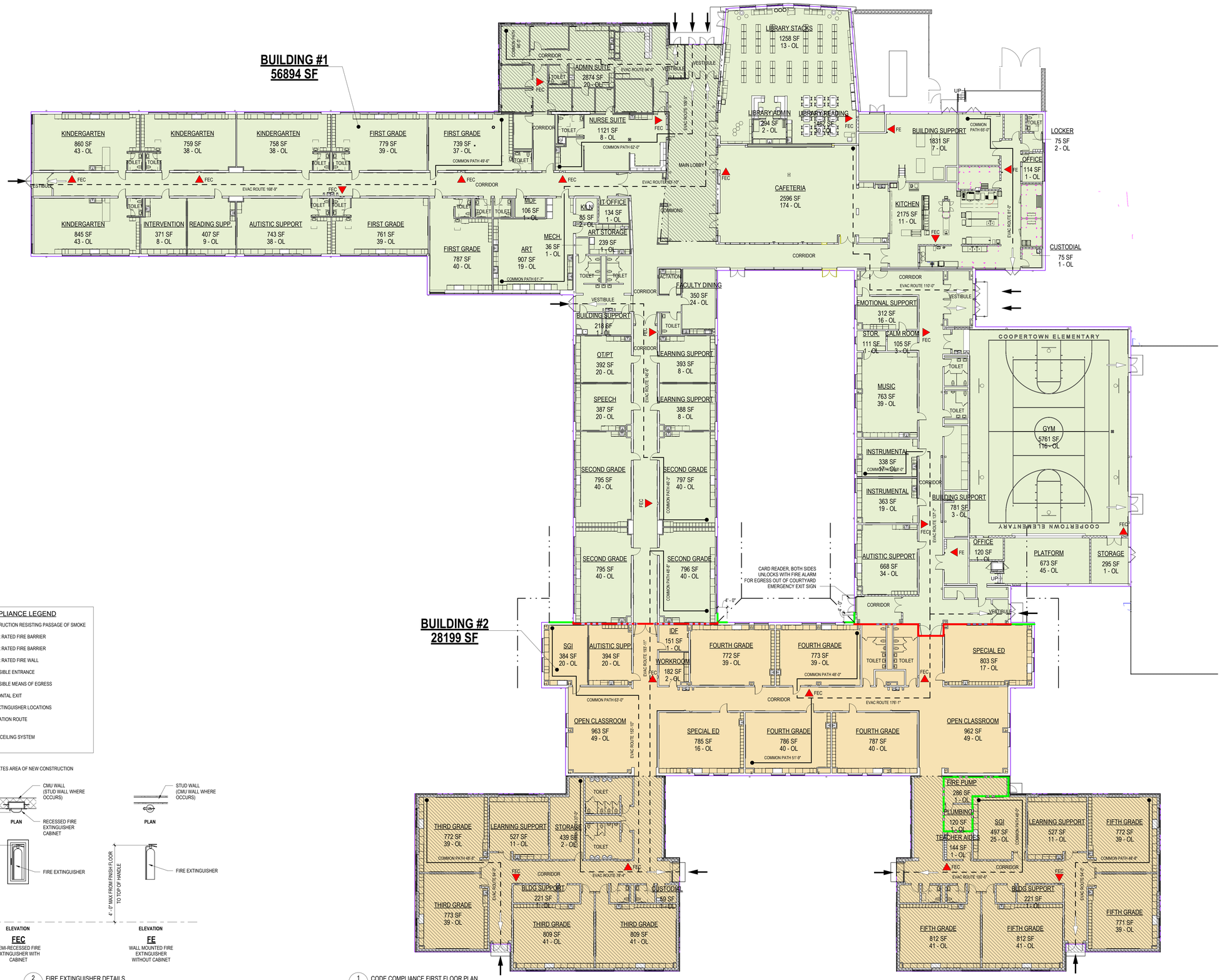
ADDITIONS AND RENOVATIONS TO
COOPERTOWN ELEMENTARY SCHOOL
SCHOOL DISTRICT OF HAVERFORD TOWNSHIP
800 COOPERTOWN ROAD
BRYN MAWR, PA. 19010

CODE ANALYSIS & BUILDING CODE INFORMATION

PLOT SCALE:
FILENAME:
DATE: MARCH 10, 2025

PROJECT 3758

CC.0

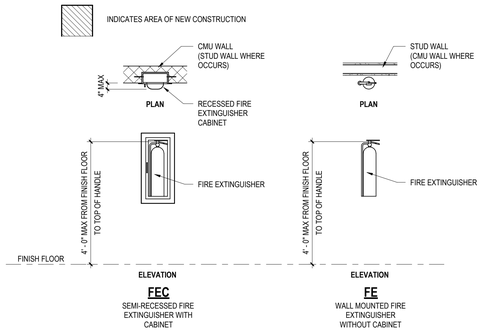


1 CC.1 CODE COMPLIANCE FIRST FLOOR PLAN
1/16" = 1'-0"

CODE COMPLIANCE LEGEND

- CONSTRUCTION RESISTING PASSAGE OF SMOKE
- 1 HOUR RATED FIRE BARRIER
- 2 HOUR RATED FIRE BARRIER
- 2 HOUR RATED FIRE WALL
- ACCESSIBLE ENTRANCE
- ACCESSIBLE MEANS OF EGRESS
- HE — HORIZONTAL EXIT
- FIRE EXTINGUISHER LOCATIONS
- EVACUATION ROUTE
- RATED CEILING SYSTEM

INDICATES AREA OF NEW CONSTRUCTION



2 CC.1 FIRE EXTINGUISHER DETAILS
1/2" = 1'-0"

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CODE COMPLIANCE FIRST FLOOR PLAN

PLOT SCALE: As indicated
FILENAME:
DATE: MARCH 10, 2025

PROJECT 3758

CC.1