

CODE INFORMATION

- Jurisdiction - Calvert County, Maryland
- Applicable Codes:
 - 2009 International Building Code
 - 2011 International Energy Conservation Code
 - 2012 International Mechanical Code
 - 2012 National Standard Plumbing Code
 - 2011 National Electrical Code w/ Local Amendments (NFPA 70)
 - 2015 NFPA 101 Life Safety Code
 - 2015 NFPA 1 Fire Prevention Code
 - 2015 NFPA 1 Fire Prevention Code
 - Maryland Accessibility Code
- Building Use and Occupancy: (IBC 302.1)
 - A. Non-Separated Mixed-Uses
 - A-3 Assembly
 - B Business
 - R-2 Residential
 - S-2 Low-Hazard Storage
- Type of Construction: **IB, Sprinklered** (IBC 602.2)
- Building Height and Area: Use most restrictive use, R-2 (IBC 503)

Floor Area	Allowable	Increase	Adjusted	Provided
16,000 sq/foot	200% w/sprinkler system (IBC 506.3)		32,000 sq/foot	19,839 - First Floor 10,956 - Second Floor 29,795 - Total
- Means of Egress:
 - A. Allowances per occupant (IBC Table 1004.1.1) (SE, OCC, Assembly (unconcentrated))
 - Business 15 sq/ft
 - Residential 200 sq/ft
 - Dormitories 50 sq/ft
 - Exercise Room 50 sq/ft
 - Kitchen 200 sq/ft
 - Storage 300 sq/ft
 - Locker Rooms 50 sq/ft
 - B. Number of exits per occupant load (IBC Table 1021.1): 2
 - C. Exit access travel distance with sprinkler system (IBC Table 1016.1):
 - B 300 feet
 - R 250 feet
 - S 400 feet
 - D. Dead-end corridor for Groups B, R, S (IBC 1018.4): 50 feet maximum
 - E. Minimum Ceiling Height (IBC 1003.2): 7'-6"
 - F. Minimum Headroom of Protruding Objects (1003.3.1): 6'-4"
 - G. Egress Width (inches/occupant):
 - Stairways (IBC 1005.1): 0.2
 - Other components (IBC 1005.1): 0.15
 - H. Minimum stair width (IBC 1009.1): 44"
 - Exc. 1: Stairways with occupant load less than 50: Width shall be not less than 36"
 - I. Handrail height (IBC 1012.2): 34" - 38"
 - J. Guard Height (IBC 1013.2): 42"
 - K. Egress through intervening spaces shall comply with IBC 1014.2
 - L. Common Path of Egress Travel with sprinkler system (IBC Table 1014.3)
 - B, S 100 feet
 - R, S 125 feet
- Fire Resistance of Elements for Type IB (IBC Table 601)

Element	Required	Provided
A. Primary Structural Frame	0 hr	0 hr
B. Bearing Walls		
Exterior	0 hr	0 hr
Interior	0 hr	0 hr
C. Nonbearing Walls and Partitions	See Table 602	
Exterior	0 hr	0 hr
Interior	0 hr	0 hr
D. Floor Construction and Secondary Members	0 hr	0 hr
E. Roof Construction and Secondary Members	0 hr	0 hr
- Fire resistance rating of exterior walls for Groups B, R, S-2, Type IB (IBC Table 602):

Fire Separation Dist. (feet)	Fire Resistance Rating Required (hr)	Provided
0-4	1	NA
5-9	1	NA
10-29	0	NA
30+	0	0
- Interior Finish and Trim, Sprinklered (IBC Table 803.9):

Group	Passageways	Stairs/Ramps	Corridors, Exit Access Rooms or Closets	Enclosed Spaces
B	Class B	Class C	Class C	Class C
R-2	Class C	Class C	Class C	Class C
S	Class C	Class C	Class C	Class C
- Interior Floor Finish (IBC 804.4.2): Class II
- Interior Trim (IBC 806.5): Class C
- Interior Wall Base (IBC 806.6): Class II
- Minimum Roof Covering Classification for Type IB (Table 1505.1): C
- Combustible Materials permitted (IBC 603.1):
 - Fire-retardant-treated wood
 - non-bearing partitions of fire resistance rating < 2 hours
 - non-bearing non-rated exterior walls
 - roof construction
 - Acoustical insulation of flame spread index of not more than 25
- Sleeping units must be separated from other occupancies contiguous to them by fire partitions and horizontal assemblies (IBC 420) of 1-hour fire-resistance (IBC 708.3)
- Fire partitions separating sleeping units in Type IB need not extend to the underside of deck and the supporting construction need not be provided (708.4)
- Where the corridor ceiling is constructed with the same fire-resistance as the corridor walls, the walls shall be permitted to terminate at the top of the ceiling (708.4, Exception 3)
- Exit access stairway enclosures shall be constructed as 1-hour fire barriers (IBC 1009.3.1.2)
- Shall enclosures connecting less than four stories shall have a fire-resistance rating of 1 hour minimum (IBC 713.4)
- Opening Fire Protection (IBC Table 716.5)

Assembly Type	Door Rating
1-hr fire barrier	1-hr
0.5-hr fire partition	20 min
- Ventilate concealed roof spaces. Cross section areas to be 1/150 of horizontal area ventilated.
- Fire protection systems shall comply with 2010 NFPA 13.
- Fire Extinguishers shall be provided in occupancies and locations as required by 2012 NFPA 1.
 - a. Locate extinguisher within 30 feet of commercial cooking equipment.
 - b. Maximum Floor Area per Extinguisher: 11,250 sq/ft
 - c. Maximum Travel Distance to Extinguisher: 75 feet
- Structural loads shall be furnished by the structural engineer and materials testing service.
- All building materials and construction methods shall be in accordance with all applicable codes including OSHA.

ABBREVIATIONS

A.C.F.	ACOUSTICAL CEILING TILE	FD	FLOOR DRAIN	N.T.S.	NOT TO SCALE
A.F.F.	ACRO-FINISH FLOOR	FDN	FOUNDATION	O.D.	OUTSIDE DIAMETER
ALT.	ALTERNATE	F.L.	FLOOR LINE	O.R.D.	OVERFLOW ROOF DRAIN
APPROX.	APPROXIMATE	F.L.	FLOOR	O.S.	OVERHEAD
ALUM.	ALUMINUM	F.L.R.	FLORING	O.P.P.	OPPOSITE
ACQUIT.	ACOUSTICAL	FTG.	FOOTING	O.C.	ON CENTER
ASPH.	ASPHALT	F.T.	FINISHES	O.P.G.	OPENING
B.L.O.C.K.	BLOCKING	F.R.T.	FIRE RESISTANT TREATED	P.E.M.B.	PRE-ENGINEERED METAL BUILDING
SO.	BOARD	GA.	GALVE	P.L.S. LAM.	PLASTIC LAMINATE
B.L.D.G.	BUILDING	GLV.	GALVANIZED	P.W.D.	PLATE
DL.	DOWN	G.L.	GUTTER DRAIN	P.W.	PLYWOOD
SO.	SOFT	GL.	GLASS	PR	PAIR
CONTR.	CONTRACTOR	G.P.	GYPSUM	RAD.	RADIUS
C.L.S.	CEILING	G.W.B.	GYPSUM WALL BOARD	REID.	REQUIRED
CONC.	CONCRETE	H.W.	HARDWOOD	REIN.	REINFORCED
C.J.	CONTROL JOINT	H.	HIGHT	RESIL.	RESILIENT
C.O.L.	COLUMN	H.C.	HOLLOW CORE	R.O.	ROUGH OPENING
C.M.	CONSTRUCTION MANAGER	H.C.	HOLLOW CORE	S.P.M.	SPRAY APPLIED FIRE RESISTIVE MATERIAL
C.M.U.	CONCRETE MASONRY UNITS	H.C.R.	HORIZONTAL	S.P.	STEEL
CLR.	CLEAR	H.M.	HOLLOW METAL	S.S.P.	SUSP. CLG.
C.N.T.	CONCRETE	H.P.	HIGH POINT	S.S.	STEEL
D.	DOWN	I.D.	INSIDE DIMENSION	S.S.P.	SUSPENDED CEILING
DIA.	DIAMETER	I.D.C.	INSIDE DIAMETER	S.S.	SQUARE
D.W.G.	DRAWING	INSUL.	INSULATION	S.S.	STANDING
DR.	DOOR	J.T.	JOINT	S.T.R.	STRUCTURAL
OUTLET.	OUTLET	JAN.	JANITOR	T.O.M.	TOP OF MASONRY
E.P.S.	EXTERIOR INSULATION FINISH SYSTEM	JAN.	JANITOR	T.O.S.	TYPICAL
E.W.C.	ELECTRIC WATER COOLER	JAW.	JAW	TYP.	TYPICAL
EXIST.	EXISTING	LAW.	LAWYER	U.C.N.	UNLESS OTHERWISE NOTED
EXPAN.	EXPANSION	LAV.	LAVATORY	V.C.T.	VERIFY COMPOSITION TITLE
EQ.	ELECTRICAL	L.P.	LOW POINT	V.I.F.	VERIFY IN FIELD
EQ.	ELECTRICAL	M.A.M.	MASONRY	W.	WIDE
EA.	EACH	M.L.	METAL	W.	WOOD
ELEV.	ELEVATION	M.M.	MASONRY	W.D.	WOOD
NO.	NUMBER	M.N.	MASONRY NOT IN CONTRACT		



PRINCE FREDERICK VOLUNTEER FIRE STATION 2

CALVERT COUNTY STATION 2

PRINCE FREDERICK, MARYLAND

OWNER:
CALVERT COUNTY GENERAL SERVICES DIVISION
30 DUKE STREET
PRINCE FREDERICK, MD 20678
CONTACT: CJ JONES
410.535.1600

LIST OF DRAWINGS

CIVIL

1 OF 18	CIVIL COVER SHEET
2 OF 18	EXISTING CONDITIONS PLAN
3 OF 18	PROPOSED SITE PLAN
3A OF 18	PROPOSED GRADING PLAN
4 OF 18	SEDIMENT AND EROSION CONTROL PLAN
5 OF 18	SEDIMENT AND EROSION CONTROL DETAILS
6 OF 18	STORM DRAIN PROFILES AND DETAILS
7 OF 18	UTILITY PROFILES AND DETAILS
8 OF 18	SITE DRAINAGE AREA MAPS
9 OF 18	SD DRAINAGE AREA MAP
10 OF 18	ESD DRAINAGE AREA MAPS
11 OF 18	ESD DETAILS
T1A OF 18	SUBMERGED GRAVEL WETLANDS DETAILS
12 OF 18	SITE DETAILS
12A OF 18	SITE DETAILS
12B OF 18	SITE DETAILS
13 OF 18	PAINT STRIPPING PLAN
13A OF 18	PROPOSED PAVEMENT PLAN
14 OF 18	TRUCK TURN EXHIBIT
15 OF 18	SIGHT DISTANCE PLAN
16 OF 18	LANDSCAPE PLAN
17 OF 18	LANDSCAPE DETAILS
18 OF 18	SWM PLANTING PLAN

ARCHITECTURAL CONTINUED

A3.08	SECTIONS
A4.01	STAIR 1 PLANS AND SECTIONS
A4.02	STAIR 2 PLANS AND SECTIONS
A4.03	ELEVATOR AND TOWER SECTIONS
A4.04	ENLARGED PLANS & MILLWORK ELEVATIONS
A4.05	ENLARGED PLANS & MILLWORK ELEVATIONS
A4.06	MILLWORK SECTIONS
A4.07	MILLWORK SECTIONS
A4.08	ENLARGED TOILET PLANS AND ELEVATIONS
A4.09	ENLARGED TOILET PLANS & ELEVATIONS
A5.01	MISC. DETAILS & PLAN DETAILS
A6.01	DOOR SCHEDULE & DETAILS
A6.02	WINDOW SCHEDULE & DETAILS
A6.03	FINISH SCHEDULE
A9.01	ALTERNATES

ELECTRICAL

E0.0	ELECTRICAL COVER SHEET
E1.0	ELECTRICAL SITE PLAN
E1.1	FIRST FLOOR PLAN - LIGHTING
E1.2	SECOND FLOOR PLAN - LIGHTING
E2.1	FIRST FLOOR PLAN - POWER
E2.2	SECOND FLOOR PLAN - POWER
E2.3	ROOF PLAN - POWER
E3.1	FIRST FLOOR PLAN - FIRE ALARM
E3.2	SECOND FLOOR PLAN - FIRE ALARM
E6.1	ELECTRICAL DETAILS
E6.2	ELECTRICAL DETAILS
E8.1	ELECTRICAL SCHEDULES
E8.2	ELECTRICAL SCHEDULES
E8.3	LIGHTING CONTROL SCHEDULE & DETAILS
E8.4	LIGHTING CONTROL SCHEDULE & DETAILS
E8.5	ELECTRICAL COMCHECK FORMS

STRUCTURAL

S0.0	GENERAL NOTES
S0.01	SCHEDULES
S1.01	FOUNDATION PLAN
S1.01A	FOUNDATION PLAN - ALTERNATE 1
S1.02	SECOND FLOOR FRAMING PLAN
S1.02A	SECOND FLOOR FRAMING PLAN - ALTERNATE 1
S1.03	ROOF FRAMING PLAN
S1.03A	ROOF FRAMING PLAN - ALTERNATE 1
S1.04	CANOPY FRAMING PLANS AND SECTIONS
S2.01	TYPICAL FOUNDATION DETAILS
S3.01	FOUNDATION SECTIONS
S4.01	TYPICAL FRAMING DETAILS
S5.01	FRAMING SECTIONS
S5.02	FRAMING SECTIONS
S5.03	FRAMING SECTIONS
S5.04	FRAMING SECTIONS
S6.01	ROOF TRUSS PROFILES
S7.01	COLUMN SCHEDULE & LATERAL FRAME DETAILS

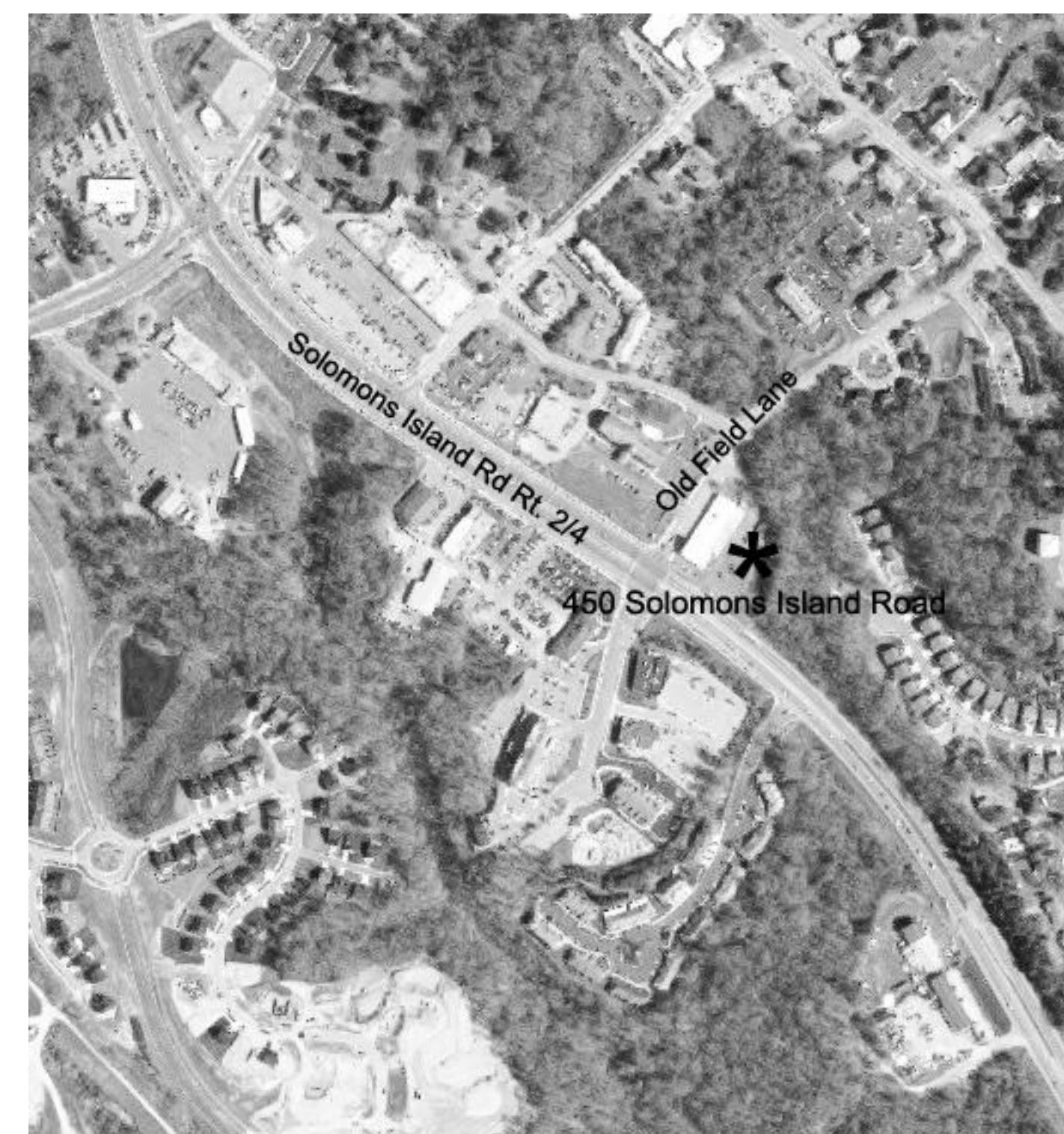
MECHANICAL

M0.0	MECHANICAL COVER SHEET
M0.1	AIR DEVICE SCHEDULE
M0.2	MECHANICAL SCHEDULES
M1.1	FIRST FLOOR PLAN - MECHANICAL
M1.2	SECOND FLOOR PLAN - MECHANICAL
M1.3	ROOF PLAN - MECHANICAL
M5.1	MECHANICAL DETAILS
M0.3	MECHANICAL CALCULATIONS
M3.0	MECHANICAL PARTIAL PLANS

PRE-ENGINEERED METAL BUILDING

C1	COVER SHEET - PEMB
FP1	FLOOR PLAN - PEMB
AB1	ANCHOR BOLT PLAN - PEMB
AB1-1	ANCHOR BOLT DETAILS - PEMB
FX-1	FRAME CROSS SECTIONS - PEMB
FX-2	FRAME CROSS SECTIONS - PEMB
FX-3	FRAME CROSS SECTIONS - PEMB
FX-4	FRAME CROSS SECTIONS - PEMB
FX-5	FRAME CROSS SECTIONS - PEMB
FX-6	FRAME CROSS SECTIONS - PEMB
RF-1	ROOF FRAMING PLAN - PEMB
ST-5	STRUCTURAL ELEVATIONS
ST-6	STRUCTURAL ELEVATIONS
ST-7	STRUCTURAL ELEVATIONS
ST-8	STRUCTURAL ELEVATIONS

SITE INFORMATION



VICINITY MAP



Bignell Watkins Hasser

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Revision Schedule

#	Date	Revision
4	5/9/19	ADDENDUM 4
7	5/15/19	ADDENDUM 7
9	5/22/19	ADDENDUM 9

BID/ CONSTRUCTION

Client:
CALVERT COUNTY - GENERAL SERVICES DIVISION

Location:
450 SOLOMONS ISLAND ROAD
PRINCE FREDERICK, MD 20678

Project:
PRINCE FREDERICK VOLUNTEER FIRE STATION

COVER SHEET

Drawn by:
MM

Project No:
17032

Date:
2/21/19

Professional Certification
 I certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland.
 License No. 6956 Expiration Date 02-20-20

CS-1