

FLOOD PROTECTION FORM - GENERAL (FP-G)

SUBMIT WITH BUILDING PERMIT APPLICATION
Published January 3, 2020 (Revised November 2023)

FLOOD PROTECTION FORM – GENERAL (FP-G)

This form is for building permit applications to confirm all development meets the City of Philadelphia's building regulations associated with a development site located in the Special Flood Hazard Area (SFHA). This form is to be completed by a PA Registered Design Professional(s) who is authorized by law to certify the information required on this form are correct and complete to the best of their knowledge and that the design plans, as submitted, are consistent with the statements. Depending on your project you may have to complete these forms, where noted:

[Flood Protection Form – Zoning/Use Registration \(FP-Z\)](#)

[Flood Protection Form – Existing Buildings \(FP-EX\)](#)

[Flood Protection Form – Variances \(FP VAR\)](#)

[Flood Protection Form – No Rise \(FP-NR\)](#)

[Flood Protection Form – Letter of Map Change \(FP-LOMC\)](#)

[Structural Design Criteria Form](#)

For more information on floodplain codes/regulations visit the Floodplain Management webpage at
<http://www.phila.gov/li/Pages/FloodplainManagement.aspx>

For building permit plans, these additional items shall be submitted:

- Plans must be signed/sealed by a PA registered design professional when cost of work exceeds \$25,000. Structural plans must be signed/sealed by a professional engineer licensed by the Commonwealth of Pennsylvania.
- Plans must be of professional quality and drawn to scale (e.g. 1/4" = 1' – 0")
- Minimum sheet size is 18" x 24".
- **Elevations must use NGVD 29 as per FIRM panels and match elevations on Elevation Certificates**
 - The following information must be included on the plan (applicable codes):
 - Special Flood Hazard Zones (A, AE, Floodway, X, 0.2%) from effective Flood Insurance Study (FIS), and when a FIS is not available, from the Flood Insurance Rate Maps (FIRM)
 - In coastal zones: must show reach of mean high tide and LiMWA line
 - Construction type, specifically foundation type and loading
 - Anchoring to withstand the hydrostatic and hydrodynamic loads, and not become buoyant
 - Plans for every floor from the DFE (BFE+18") and below, including all enclosed spaces (basements, crawlspaces, etc.)
 - Finished Floor Elevations for each level noted above
 - All the rooms must be labeled as to their use. (e.g. bedroom, kitchen, office, incidental storage, etc.)
 - Any accessory structures (sheds, dumpsters, benches, transformer pads, etc.)
 - Material types for areas wet floodproofed below the Design Flood Elevation (BFE+18")
 - Location and type of mechanical, fuel systems, water supply, elevators, electrical, and plumbing including elevations and flood design criteria
 - Details and specifications for any wet or dry floodproofing measures
 - For earth work, existing and proposed contours.
- Any additional documents per Section E (Elevation Certificate, Floodproofing Certificate, No Rise Certificate, H&H Study, Geotechnical Report, Flood Emergency Operations Plan)

NOTE: ALL LINES ON THIS FORM MUST BE COMPLETED, AND WHEN "NOT APPLICABLE" SELECT "N/A"

A. PROJECT INFORMATION											
1. Address of proposed work											
2. Owner of property											
3. Owner address		4. Owner Phone #									
5. Agent of Owner		6. Company									
7. Agent Address		8. Agent Phone #									
B. FLOOD HAZARD INFORMATION											
Flood Risk Zone – select all that apply to your site/parcel											
<input type="checkbox"/> A Zone – Complete Form <input type="checkbox"/> AE Zone – Complete Form <input type="checkbox"/> Seaward of LIMWA line – Complete Form <input type="checkbox"/> Mean high tide zone – Complete Form				<input type="checkbox"/> AE/Floodway – Complete Form <input type="checkbox"/> FEMA Mapped 0.2% /X/unshaded – if site/parcel is only in this zone, attach a Site Plan and proceed to section J (see instructions Site Plan requirements on PG 1)							
Must attach a Site Plan to this form/application.											
1. Map/Panel #				2. FIRM Panel - Effective/Revised Date							
3. Flood Insurance Study (FIS) used to determine BFE						<input type="checkbox"/> Yes		<input type="checkbox"/> No			
C. TYPE(S) OF APPLICATION (select all that apply)											
<input type="checkbox"/> New building - Complete section D <input type="checkbox"/> Addition – Start with FP-EX <input type="checkbox"/> Renovation/alteration – Start with FP-EX <input type="checkbox"/> Earth Work - Complete section E6 <input type="checkbox"/> Retaining Wall - Complete section E5 <input type="checkbox"/> Demolition - Complete section E10 <input type="checkbox"/> A Zone - Complete section I <input type="checkbox"/> Accessory Structure - Complete section E5 <input type="checkbox"/> Below grade parking - Complete section E3 <input type="checkbox"/> Seasonal/temporary - Complete section E9					<input type="checkbox"/> Storage of materials - Complete section E8 <input type="checkbox"/> Storage of equipment/machinery - Complete section E8/E9 <input type="checkbox"/> Electrical - Complete section E7 <input type="checkbox"/> HVAC - Complete section E7 <input type="checkbox"/> Fuel Systems - Complete section E7 <input type="checkbox"/> Water supply - Complete section E7 <input type="checkbox"/> Elevator/escalator - Complete section E7 <input type="checkbox"/> Plumbing - Complete section E7 <input type="checkbox"/> Construction Office/Staging/Storage - Complete section E9						
<input type="checkbox"/> Historic Designation (local, national or contributing) - Complete section E4											
<input type="checkbox"/> Change of Use - Complete FP-Z											
<input type="checkbox"/> Letter of Map Change (CLOMR-F, CLOMR, LOMR) - See FP-LOMC											
<input type="checkbox"/> Production or storage of: - Prohibited in the floodway, otherwise complete FP-G: E8 acetone; ammonia; benzene; calcium carbide; carbon disulfide; hydrochloric acid; hydrocyanic acid; magnesium; nitric acid and oxides of nitrogen; petroleum products; phosphorus; potassium; sodium, sulfur and sulfur products; or pesticides & radioactive substances <i>(Appendix G901)</i>											
<input type="checkbox"/> Development along Delaware River in Coastal A Zone (CAZ) - Complete E12											
<input type="checkbox"/> Other (not listed above):											
D. FOR NEW BUILDINGS, SUBSTANTIAL IMPROVEMENTS/RENOVATIONS, AND ADDITIONS											
1. <u>ELEVATION CERTIFICATE (EC)</u>		<input type="checkbox"/> Yes (required)		<input type="checkbox"/> No		<input type="checkbox"/> N/A					
2. BFE (NGVD 29) (unless in A Zone)				2a. BFE (City Datum) (if plan drawing use this datum to illustrate elevations)							
3. Conversion Factor (if City Datum is used)											
4. Design Flood Elevation (as shown on drawings)				<input type="checkbox"/> NGVD 29		<input type="checkbox"/> City Datum					
5. Building Diagram Number – A7 on ELEVATION CERTIFICATE (see ELEVATION CERTIFICATE instructions for diagrams)											
<input type="checkbox"/> 1A	<input type="checkbox"/> 1B	<input type="checkbox"/> 1C	<input type="checkbox"/> 2A	<input type="checkbox"/> 2B	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	<input type="checkbox"/> 9
6. Lowest Floor Elevation (including basement, crawlspace, or enclosed floor) C2.a on Elevation Certificate											
7. Attached Garage Floor Elevation C2.d on Elevation Certificate											
8. For townhouses, an Elevation Certificate for each house must be submitted											
Note: Elevation Certificates are required again, for each house when lowest floor is installed during construction (prior to vertical work starting) and upon finished construction prior to a Certificate of Occupancy.											

E. DESIGN INFORMATION

E1. RESIDENTIAL (& other residential and portions of mixed-use structures – including entire mixed-use structures with less than 25% non-residential)

- **Other Residential Building** means a residential building that is designed for use as a residential space for 5 or more families or a mixed-use building in which the total floor area devoted to non-residential uses is less than 25 percent of the total floor area within the building.
- **Residential Building** means a non-commercial building designed for habitation by one or more families or a mixed-use building that qualifies as a single-family, two-to-four family, or other residential building.

1. Lowest floor elevation (including basement, crawlspace, or enclosed floor) is BFE+18" (IRC 2018: R309.3, R322.2.1, R322.3.2) (IBC 2018 1603.1.7, 1612.4) (ASCE 24: 1.2, 2.3, 4.4)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
2. Flood Design class + Flood loads and conditions (IBC 2018: 1603.1.7, 1605.2.1, 1605.3.1.2, 1612.4, 3102.7) (IRC 2018: R301.1, Table R301.2(1), R322.1.2, R322.3.3) (ASCE 24-14: 1.4, 1.6) (ASCE 7: 2.3.3, 2.4.2, 5.3.1, 5.3.2, 5.4)	<input type="checkbox"/> Yes, complete Structural Design Criteria Form		<input type="checkbox"/> No <input type="checkbox"/> N/A
3. Foundation walls - masonry walls shall be designed and constructed in accordance with ACI 530/ASCE 5/TMS 402 or concrete with ACI 318 (ASCE 24: 2.6)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
4. Site Grading: ground immediately adjacent to the foundation shall be sloped away from the building at a slope of not less than one-unit vertical in 20 units horizontal (5%) for a min. distance of 10 feet of horizontal distance. Impervious surfaces within 10 feet of the building foundation shall be sloped a min. of 2% away from the building. (IBC 2018: 1804) (ASCE 24: 1.5.4, 2.4, 4.5.4)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
5. Fill being placed on site?	<input type="checkbox"/> Yes, complete section E6		<input type="checkbox"/> N/A
6. Enclosed areas below BFE + 18" (no areas below grade on all sides allowed below BFE+18") allows for the automatic entry and exit of floodwater (IRC 2018: R309.3, R322.2.1, R322.2.2, R322.3.2, R322.3.9) (ASCE 24: 1.2, 1.5.2, 2.3 2.7, 4.6)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
7. Enclosed areas below BFE + 18": Use only for parking, building access, and incidental storage. (No lobbies with seating, mailboxes, security desks, etc.) (ASCE 24: Ch. 6)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
8. Flood Openings: <ul style="list-style-type: none"> • 1SQ/IN for every 1SQ/FT of enclosed space, shall not be less than 3in. in any direction, louvers/blades/screens/faceplates shall not block or impede automatic exit/entry of water • Min. of 2 opening for each enclosed space (including storage closets) • On at least 2 walls of each enclosed area • Bottom of each opening no higher than 1FT above the higher of the final interior grade or floor and the finished exterior grade immediately under each opening (only openings below BFE can count towards the required net open area) • Opening must be below BFE to count (IRC 2018: R322.2.2, R322.3.6, R408.7) (IBC 2018: 1202.4.4) (ASCE 24: 2.7.1, 2.7.2, 2.7.3, 4.6.2)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
9. Engineered opening (ASCE 24: 2.7.2.2)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
10. Non-engineered openings (ASCE 24: 2.7.2.1)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
11. See A8 and/or A9 on ELEVATION CERTIFICATE , for opening information	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
12. Flood Resistant Materials, must be used in spaces BFE + 18" and below when wet floodproofed (IRC 2018: R322.1.8) (IBC 2018: 801.5, 1403.6, 1612.4) (ASCE 24: 1.2 + Chapter 5)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
13. Non-conversion notes on PLANS and CERTIFICATE OF OCCUPANCY , for spaces below the BFE+18" – spaces cannot be converted to "living" areas	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
14. Dry floodproofing - not permitted for residential structures (ASCE 24: 1.2, 1.5.2, Chapter 6, 7.1)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
15. Any electrical, HVAC, plumbing or fire suppression equipment on site?	<input type="checkbox"/> Yes, complete section E7		<input type="checkbox"/> N/A

16. Concrete Slab (<i>IRC 2018: R322.3.4</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
17. Stairways & Ramps (<i>IRC 2018: R322.3.8</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
18. Decks & Porches (<i>IRC 2018: R322.3.8</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
E2. NON-RESIDENTIAL (& non-residential portions of mixed-use structures, except for mixed-use structures with less than 25% non-residential must comply entirely with residential standards above)			
1. • Healthcare facilities having surgery or emergency treatment facilities; • Fire, rescue, ambulance, and police stations and emergency vehicle garages, designated emergency structures (hurricane, earthquake, etc.); • Designed emergency preparedness, communication, and operation centers and other facilities required for emergency response; • Power generating stations and other public utility facilities • Ancillary structures (communication towers, fuel storage tanks, cooling towers, electrical substation structures, fire water storage tanks or other structures housing or supporting; water, or other fire-suppression material or equipment); • Aviation control towers, air traffic control center, and emergency aircraft hangars; • Water storage facilities and pump structures required to maintain water pressure for fire suppression; • Buildings and other structures having critical national defense functions (<i>ASCE 24: Table 1-1</i>)	<input type="checkbox"/> Yes, required to have a DFE of BFE+ 24"		<input type="checkbox"/> N/A
2. Lowest floor elevation (including basement, crawlspace, or enclosed floor) is 18" above BFE (<i>IBC 2018 1603.1.7, 1612.4</i>) (<i>ASCE 24: 1.2, 2.3, 4.4</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
3. Flood Design class + Flood loads and conditions (<i>IBC 2018: 1603.1.7, 1605.2.1, 1605.3.1.2, 1612.4, 3102.7</i>) (<i>ASCE 24-14: 1.4, 1.6</i>) (<i>ASCE 7: 2.3.3, 2.4.2, 5.3.1, 5.3.2, 5.4</i>)	<input type="checkbox"/> Yes, complete Structural Design Criteria Form	<input type="checkbox"/> No	<input type="checkbox"/> N/A
4. Foundation walls - masonry walls shall be designed and constructed in accordance with ACI 530/ASCE 5/TMS 402 or concrete with ACI 318 (<i>ASCE 24: 2.6</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
5. Site Grading: ground immediately adjacent to the foundation shall be sloped away from the building at a slope of not less than one-unit vertical in 20 units horizontal (5%) for a min. distance of 10 feet of horizontal distance. Impervious surfaces within 10 feet of the building foundation shall be sloped a min. of 2% away from the building. (<i>IBC 2018: 1804</i>) (<i>ASCE 24: 1.5.4, 2.4, 4.5.4</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
6. Fill being placed on site?	Yes, complete section E6		<input type="checkbox"/> N/A
7. Enclosed areas below BFE + 18"	<input type="checkbox"/> Yes, not below grade	<input type="checkbox"/> Yes, below grade	<input type="checkbox"/> No <input type="checkbox"/> N/A
8. Enclosed areas below BFE + 18" (but not below grade on all sides allowed) can be Wet floodproofed, which allows for the automatic entry and exit of floodwater (<i>IBC 2018: 1202.4.4</i>) (<i>ASCE 24: 2.7.1, 2.7.2, 2.7.3, 4.6.2</i>)	<input type="checkbox"/> Yes	No	<input type="checkbox"/> N/A
9. If E2.8 is "yes", then use only for parking, access, and incidental Storage – openings required: (No lobbies with seating, mailboxes, security desks, etc.) (<i>ASCE 24: 2.7, 4.6</i>)	<input type="checkbox"/> Yes	No	<input type="checkbox"/> N/A

10. Openings: (ASCE 24: Ch. 2) <ul style="list-style-type: none"> 1SQ/IN for every 1SQ/FT of enclosed space, shall not be less than 3in. in any direction, louvers/blades/screens/faceplates shall not block or impede automatic exit/entry of water Min. of 2 opening for each enclosed space (including storage closets) On at least 2 walls of each enclosed area Bottom of each opening no higher than 1FT above the higher of the final interior grade or floor and the finished exterior grade immediately under each opening (only openings below BFE can count towards the required net open area) Opening must be below BFE to count (IBC 2018: 1202.4.4) (ASCE 24: 2.7.1, 2.7.2, 2.7.3, 4.6.2) 	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
11. Engineered opening (ASCE 24: 2.7.2.2)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
12. Non-engineered openings (ASCE 24: 2.7.2.1)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
13. See A8 and/or A9 on ELEVATION CERTIFICATE , for opening information	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
14. Flood Resistant Materials, must be used in spaces BFE + 18" and below when wet floodproofed (IBC 2018: 801.5, 1403.6, 1612.4) (ASCE 24: 1.2 + Chapter 5)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
15. Non-conversion notes on PLANS and CERTIFICATE OF OCCUPANCY , for spaces below the BFE+18" – spaces cannot be converted to "living" areas	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
16. If E2.7 is "yes, below grade", and use beyond parking, access, and incidental storage and/or below grade on all sides , then must be dry floodproofed	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
17. FLOODPROOFING CERTIFICATE must be prepared	<input type="checkbox"/> Yes, required for Certificate of Occupancy		<input type="checkbox"/> N/A
18. Dry floodproofing construction details/specifications (ASCE 24; 1.2, 1.5.2, Chapter 6, 7.1)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
19. Dry floodproofing - At least one door satisfying building code requirements for an exit door or primary means of escape, above the design flood elevation, and capable of providing human ingress and egress during the design flood (ASCE 24: Ch. 6)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
20. Dry floodproofing – soil or fill adjacent to the structure compacted and protected against erosion and scour (ASCE 24: Ch. 6)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
21. Dry floodproofing - FLOOD EMERGENCY OPERATION PLAN (NON-RESIDENTIAL) (ASCE 24: 6.2.3)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
22. Dry floodproofing – two conspicuous and permanent posting of FLOOD EMERGENCY OPERATION PLAN in the structure (ASCE 24: 6.2.3)	<input type="checkbox"/> Yes, required for Certificate of Occupancy		<input type="checkbox"/> N/A
23. Any electrical, HVAC, plumbing or fire suppression equipment on site?	<input type="checkbox"/> Yes, complete section E7		<input type="checkbox"/> N/A
E3. BELOW-GRADE PARKING (only for non-residential)			
1. Must be dry floodproofed - FLOODPROOFING CERTIFICATE	<input type="checkbox"/> Yes, required for Certificate of Occupancy		<input type="checkbox"/> N/A
2. FLOOD EMERGENCY OPERATION PLAN (ASCE 24-05: 6)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
E4. HISTORIC (IBC 2018: G105.3)			
1. Analysis that elevating and/or floodproofing would remove it from historic designation status (G105.3)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
2. Machinery/equipment shall be elevated or floodproofed	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

3. Flood resistant materials, shall be used in enclosed spaces below BFE+18"	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
4. For locally designated structures a letter must be obtained from the Philadelphia Historic Commission	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
5. For nationally designated structures a letter must be obtained from the State Historic Preservation Office	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
E5. ACCESSORY STRUCTURE (use can only be for incidental storage or parking)			
1. Applies to all accessory structures: anchored, withstand the hydrostatic & hydrodynamic loads as well as not become buoyant (applies to all below) (ASCE 24: 9.4)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
2. Enclosed areas below BFE + 18" (no areas below grade on all sides allowed) allows for the automatic entry and exit of floodwater (ASCE 24: 9.4)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
3. Engineered opening certifications and/or manufacturers documentation (ASCE 24: 2)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
4. Non-engineered openings (ASCE 24: 2)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
5. Openings: (ASCE 24: Ch. 2) <ul style="list-style-type: none"> 1SQ/IN for every 1SQ/FT of enclosed space, shall not be less than 3in. in any direction, louvers/blades/screens/faceplates shall not block or impede automatic exit/entry of water Min. of 2 opening for each enclosed space (including storage closets) On at least 2 walls of each enclosed area Bottom of each opening no higher than 1FT above the higher of the final interior grade or floor and the finished exterior grade immediately under each opening (only openings below BFE can count towards the required net open area) Opening must be below BFE to count 	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
6. Flood Resistant Materials, must be used in spaces BFE + 18" and below (ASCE 24: Chapter 6)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
7. Machinery/equipment (no HVAC or fuel systems) at BFE+18" (ASCE 24: 7)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
8. Electrical below BFE+18", supplied by branch circuits and GFCI protection (ASCE 24: Chapter 7)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
9. Non-conversion notes on PLANS and CERTIFICATE OF OCCUPANCY , for structures over 200 SF	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
E6. FILL			
1. Fill shall be designed to be stable under conditions of flooding, including rapid rise and rapid drawdown of floodwaters, prolonged inundation, and flood related erosion and scour. (ASCE 24: Ch. 2) (IBC 2018: 1804.5)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
2. Use of fill for structural support is prohibited (IRC 2018: R322.3.2)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
3. Structural fill used to support or protect a structure shall be placed in lifts not more than 12in. loose thickness, with each lift compacted to at least 95% of its max. standard proctor density (ASTM 2012f) or 90% max. modified proctor density (ASTM 2012e) (ASCE 24: Ch. 2)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

4. If fill is used to raise the elevation of the site for residential construction, the fill area shall extend out laterally at a maximum slope of 1% for the minimum required rear yard dimension but in no case less than 15 ft. beyond the proposed structure. The grade from the edge of the rear yard to the floodway line shall not exceed 20% unless a retaining wall is constructed. <i>(Philadelphia Zoning Code 14-704(4)(c)(.1)(.a))</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
5. If less than 12", in-place dry density is not less than 90% of the max. dry density at optimum moisture content determined in accordance with ASTM D 1557 <i>(IBC 2018: 1804.6)</i>	<input type="checkbox"/> Yes, Special Inspections	<input type="checkbox"/> No	<input type="checkbox"/> N/A
6. If over 12", then GEOTECHNICAL REPORT <i>(IBC 2018: 1804.6)</i>	<input type="checkbox"/> Yes, Special Inspections	<input type="checkbox"/> No	<input type="checkbox"/> N/A
7. If over 12", the placement of fill creates change or modification in SFHA – FEMA Letter of Map Change (LOMC) within 6 months of change in SFHA (Phila Zoning 14-704(4)(f))	<input type="checkbox"/> Yes, complete FP- LOMC	<input type="checkbox"/> No	<input type="checkbox"/> N/A
E7. MACHINERY/EQUIPMENT ELEVATION (include all that apply)			
<input type="checkbox"/> Mechanical/Appliance <ul style="list-style-type: none"> ○ Heating ○ Cooling ○ Exhaust ○ Appliances ○ Duct systems ○ Boilers ○ Solar <input type="checkbox"/> Fuel systems <ul style="list-style-type: none"> ○ Gas/oil supply lines ○ Oil tanks ○ Propane tanks ○ Meter pumps ○ Gas/oil fired equipment <input type="checkbox"/> Water Supply <ul style="list-style-type: none"> ○ Wells ○ Water connections ○ Filtration/treatment systems <input type="checkbox"/> Conveyance <ul style="list-style-type: none"> ○ Elevator/escalator 	<input type="checkbox"/> Electrical <ul style="list-style-type: none"> ○ Service/Meter ○ Feeders ○ Panel boards ○ Switches ○ Fuses ○ Transformers ○ Cabinets/control panels ○ Outlets/receptacles ○ Wiring ○ Generators (emergency power) <input type="checkbox"/> Plumbing <ul style="list-style-type: none"> ○ Water supply ○ Water treatment ○ Sanitary drainage ○ Fixtures ○ Laundry appliances ○ Plumbing vents ○ Septic Tanks ○ Fire protection ○ Pumps 		
1. Mechanical/Appliances (ASCE 24: Ch. 7)			
a. Primary components (HVAC units, boilers, chillers, ductwork, hot and chilled water pumps) at BFE+18"	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b. Air intake openings and exhaust outlets shall be at or above DFE	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
c. Elevation of lowest mechanical/appliances (HVAC units, boilers, chillers, ductwork, hot and chilled water pumps) in NGVD 29	_____ NGVD 29		<input type="checkbox"/> N/A
2. Fuel Systems (ASCE 24: Ch. 7)			
a. Primary components (pumps, meters, tanks, piping, and valves)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b. If E7.2a is yes, then install at BFE+18"	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
c. If E7.2b is no, then components designed to resist flood forces and Prevent floodwater entry	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
d. Fuel supply lines below DFE, shall be equipped with a float operated automatic control valve to shut off fuel supply when floodwaters rise above the BFE.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
e. Elevation of lowest fuel system (pumps, meters, tanks, piping, and valves) in NGVD 29	_____ NGVD 29		<input type="checkbox"/> N/A

3. Plumbing (ASCE 24: Ch. 7)			
a. Primary components (booster pumps, water heaters, meters, backflow prevention valves) at BFE+18"	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b. If E7.3a is no, must be approved submersible components	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
c. Backflow valves and/or automatic backflow devices shall be installed in each line below the DFE.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
d. Wastewater/sanitary system	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
i. Vents and openings shall be elevated to BFE+18"	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
e. Non-submersible lift and macerator pumps at BFE+18"	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
f. Fire sprinkler systems, sprinkler and jockey pumps at BFE+18"	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
g. Secondary plumbing (water, waste, vent, sprinkler piping, install components designed to resist flood forces and prevent floodwater entry)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
h. Elevation of lowest plumbing (booster pumps, water heaters, meters, backflow prevention valves) in NGVD 29	_____ NGVD 29		<input type="checkbox"/> N/A
4. Electrical (ASCE 24: Ch. 7)			
a. Primary components (service panel, meter, generator, generator connection, transfer switch, transformer) at BFE+18", if use listed in E2.1 then BFE + 24"	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b. Electric service conduits and cables below DFE, designed to be waterproofed or conform to NFPA 70 for wet locations.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
c. Secondary components (branch circuits and devices) at BFE+18"	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
d. If E7.4c is no, install components to resist flood forces and prevent floodwater entry	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
e. Elevation of lowest electrical (service panel, meter, generator, generator connection, transfer switch, transformer) in NGVD 29	_____ NGVD 29		<input type="checkbox"/> N/A
5. Elevators/escalators (ASCE 24: Ch. 7)			
a. For any elevator where shaft is below BFE+18", then float switch must be installed, designed to resist flood loads (ASCE 7), and are not required to have flood openings	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b. Hydraulic Elevator	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
i. Cab, machine/equipment room, hydraulic pump, hydraulic reservoir, and electrical control panel at BFE+18"	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
c. Traction Elevator	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
i. Cab, counterweight and roller guides, hoist cable, limit switches machine/equipment room, electric hoist motor, and electrical control panel at BFE+18"	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
d. The resting location of the elevator cab shall be the floor fully above the DFE	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
e. Elevation of lowest elevator equipment (electrical control panel, motors, pumps, etc.) in NGVD 29	_____ NGVD 29		<input type="checkbox"/> N/A
6. For any/all utilities emerging from underground outside of a structure, shall be designed, constructed, anchored, and protected to withstand flood-related loads, including effects of buoyancy, hydrodynamic forces, and debris impact (ASCE 24: Ch. 7)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
7. Fire Command Center	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
E8. STORAGE (goods, materials, vehicles, equipment, dumpster, etc.)			
1. More than 180 days	<input type="checkbox"/> Yes, must comply with all floodplain requirements		<input type="checkbox"/> No <input type="checkbox"/> N/A
2. Less than 180 consecutive days is allowed (IBC 2018: G901)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
3. Must be non-hazardous (IBC 2018: G901)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
4. For vehicles, trailers, or general vehicles – licensed and road ready and on site for more than 180 consecutive days (IBC 2018: G601)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
5. For vehicles, trailers, or general vehicles – not licensed and more than 180 consecutive days (IBC 2018: G601)	<input type="checkbox"/> Yes, prohibited, review FP-VAR		<input type="checkbox"/> No <input type="checkbox"/> N/A

E9. SEASONAL/TEMPORARY STRCUTURES (including construction offices/trailers)			
1. More than 180 days	<input type="checkbox"/> Yes, complete FP-G: E2	<input type="checkbox"/> No	<input type="checkbox"/> N/A
2. Less than 180 consecutive days (<i>IBC 2018: G901</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
3. Less than 180 days - anchored, withstand the hydrostatic & hydrodynamic loads as well as not become buoyant – enclosed structures must also have flood openings (<i>IBC 2018: G901 & ASCE 24</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
E10. DEMOLITION (existing buildings in SFHA, without new construction) (<i>IBC 2018 A-107.2.6</i>)			
1. Removal of all building components (structural, foundations, machinery, underground tanks, etc.), if no then must resist buoyancy	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
2. Fill to adjacent grades with in-place dry density is not less than 90% of the max. dry density at optimum moisture content determined in accordance with <i>ASTM D 1557</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
3. Site plan shall show construction to be demolished and the location and size of existing structures and construction that are to remain on the site.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
E11. FLOODWAY			
1. Public Utility companies: offices (Zoning Code)	<input type="checkbox"/> Yes, prohibited in the floodway review FP-VAR	<input type="checkbox"/> N/A	
2. Production or storage of: acetone; ammonia; benzene; calcium carbide; carbon disulfide; hydrochloric acid; hydrocyanic acid; magnesium; nitric acid and oxides of nitrogen; petroleum products; phosphorus; potassium; sodium; sulfur and sulfur products; or pesticides & radioactive substances (<i>Zoning Code</i>)	<input type="checkbox"/> Yes, prohibited in the floodway, review FP-VAR	<input type="checkbox"/> N/A	
3. Docks, trails, roadways, public utilities and bridges (Zoning Code)	<input type="checkbox"/> Yes, complete FP- NR	<input type="checkbox"/> No	<input type="checkbox"/> N/A
4. Fences - Designed to not obstruct or divert floodwater or cause adverse impact to neighboring parcels (<i>IBC 2018: G801.2</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
5. Structures//uses not mentioned above, including private utilities and fences	<input type="checkbox"/> Yes, prohibited, review FP-VAR	<input type="checkbox"/> No	<input type="checkbox"/> N/A
E12. COASTAL A ZONES (where LiMWA line is present) (<i>ASCE 24-14</i>) – along Delaware River			
<p>If any of the following uses, then Designed Flood Elevation of BF E + 24"</p> <ul style="list-style-type: none"> • Building and structures in which large number of persons may assemble in one place, such as theaters, lecture halls, concert halls, and religious institutions with large areas used for worship • Museums • Community centers and other recreational facilities • Athletic facilities with seating for spectators • Elementary schools., secondary schools, and buildings with college or adult education classrooms • Jails, correctional facilities, and detention centers • Healthcare facilities • Care facilities where residents have limited mobility or ability, including nursing home but not including care facilities for five or fewer persons • Preschool and childcare facilities not located in one or two family dwellings, • Buildings or structures associated with power generation, water and sewage treatment plants, telecommunications facilities, and other such facilities which, if their operations were interrupted by a flood, would cause significant disruption in day-to-day life or significant economic losses in a community 	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

<ul style="list-style-type: none"> • Building or structures that manufacture, process, handle, store, use, or dispose of such substances as hazardous fuels, hazardous chemicals, or hazardous waste • Fire, rescue, ambulance, and police stations and emergency vehicle garages • Designated emergency shelter • Designed emergency preparedness, communication, and operation centers and other facilities required for emergency response communication towers, electrical substations, fuel or water tanks 			
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1. New construction: shall be located landward of the reach of mean high tide (ASCE 24-14 Ch:4)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
2. Bottom of lowest horizontal structural member of the lowest floor shall be BFE+18" (unless use notes above) (ASCE 24-14 Ch:4)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
3. Foundations for non-residential structures (ASCE 24-14 Ch:4.5)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
4. Foundations for residential structures (IRC 2015: R322.3.3)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
5. Concrete slabs – in CAZ (ASCE 24: 9.3)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
6. Fill for structural support of buildings (ASCE 24-14 Ch:4.5)	<input type="checkbox"/> Yes, prohibited, review FP-VAR		<input type="checkbox"/> N/A
7. Dry floodproofing (ASCE 24-14 Ch:4)	<input type="checkbox"/> Yes, prohibited, review FP-VAR		<input type="checkbox"/> N/A
8. Recreational Vehicles (G601.1)	<input type="checkbox"/> Yes, prohibited, review FP-VAR		<input type="checkbox"/> N/A
9. Development's impact on BFE study; because no designated floodway is identified	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

E13. OTHER BUILDING WORK

1. Pools	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
a. Mechanical equipment elevated to BFE+18", unless designed to be inundated with floodwater (ASCE24: 7 + ASCE 24:9.6))	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b. Membrane structures over pools must resist flood loads and be anchored (ASCE 24: 9.6)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
c. When in a CAZ shall be: (ASCE 24: 9.6.2)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
i. Elevated (including structural member) above BFE+18"			
ii. Designed and constructed to break away			
2. Tanks (IBC 2018: G701.1)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
3. Decks and porches	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
a. Structurally connected shall be designed as continuation of the structure	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
i. Foundation requirements (ASCE 24: 1.5.3)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b. Detached, must be anchored (ASCE 24: 1.5.3)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
4. Retaining walls, sidewalks and driveways	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
a. Pavers must be bedded in substrate (ASCE 24:C9.3)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b. Must meet IBC 2018: 1804.5 – Grading and fill	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
c. Retaining walls – flood loading calculations	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

F. VARIANCE REQUEST – Board of Building Standards

1. Floodplain variance (Admin. & Building Code)	<input type="checkbox"/> Yes, FP-VAR	<input type="checkbox"/> N/A
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G. OTHER PERMITS (required with building permit)

1. Pennsylvania Submerged Lands License	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
• When work is within the "historic" bulkhead line			
2. US Coast Guard	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
• Construction of bridges over navigable waterways			

3. PA DEP https://www.ahs.dep.pa.gov/PACT/usertabs.aspx <ul style="list-style-type: none"> Section 102 – construction and land disturbance Section 105 – water obstructions and encroachments Coastal Zone Management Act (CZMA) – federal consistency certification 	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
4. USACE https://www.nap.usace.army.mil/Missions/Regulatory/Jurisdictional-Determinations/ <ul style="list-style-type: none"> Section 10 and Section 404 for freshwater, stream, lakes, ponds, and wetlands Section 10, Section 404, and Section 103 for the outer continental shelf territorial seas, navigable water, tidal flats, and tidal fresh, and brackish wetlands Construction of bridges over navigable waterways must receive permits From US Coast guard 	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
5. Delaware River Basin Commission (DRBC) <ul style="list-style-type: none"> DRBC Compact Section 3.8 Review for Project Classifications included in DRBC Administrative Manual-Rules of Practice and Procedure 18 CFR 401.35(a) and (b) DRBC Flood Plain Regulations, Flood Hazard Area Special Permit Inclusion in the DRBC Comprehensive Plan 	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

H. LETTER OF MAP CHANGE (CLOMR-F/LOMR-F, CLOMR/LOMR)

1. See FEMA's Website for details: https://www.fema.gov/letter-map-changes
2. Complete the Flood Protection Form – Letter of Map Change <input type="checkbox"/> Yes, complete FP-LOMC <input type="checkbox"/> N/A

I. A ZONES ONLY

1. Accessory structure (200 SF or less)/Temporary + Seasonal <input type="checkbox"/> Yes, complete section E5 <input type="checkbox"/> N/A
For all other development in Zone A, contact Floodplain Manager, floodplainmanager@phila.gov for information.

J. SIGNATURE – must be PA Design Professional

I hereby affirm that all statements above are correct and complete to the best of my knowledge and that the design plans/additional document that were submitted, are consistent with these statements as I am a duly qualified engineer licensed to practice in the State of Pennsylvania. Furthermore, I affirm that I acknowledge all applicable building and zoning code/regulations will comply with the proposed development.

Design Professional Signature		Print Name		
Date		Design Professional Stamp		

If multiple design professionals are responsible for various components of this form, then complete the section below:

Insert sections applicable to your design profession:				
Design Professional Signature		Print Name		
Date		Design Professional Stamp		
Insert sections applicable to your design profession:				
Design Professional Signature		Print Name		
Date		Design Professional Stamp		

Insert sections applicable to your design profession:			
Design Professional Signature		Print Name	
Date		Design Professional Stamp	
Insert sections applicable to your design profession:			
Design Professional Signature		Print Name	
Date		Design Professional Stamp	
Insert sections applicable to your design profession:			
Design Professional Signature		Print Name	
Date		Design Professional Stamp	
K. ADDITIONAL INFORMATION - including variance/refusal requests			
If you need to provide additional information or clarification to any items on this form, please attach below:			

End of Form (FP-G).

Questions and/or Contact: Floodplain Manager
 City of Philadelphia - floodplainmanager@phila.gov

INSTRUCTIONS: FLOOD PROTECTION FORM – GENERAL (FP-G)

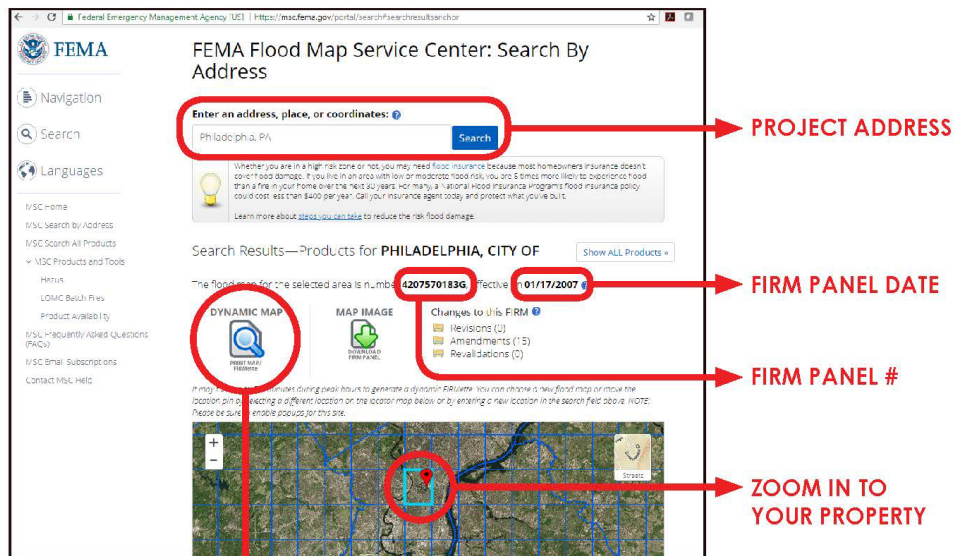
SECTION A

This section is for general project information.

SECTION B

This section identifies the development site's location in relation to Flood Insurance Rate Map information. Enter the Flood Risk Zone (A, AE, Floodways, or X) for the proposed development, including the Map Panel number and Effective/Revised Date of panel. For existing buildings, a FIRMette must be attached to show the location of the development in relation to the Flood Risk Zones. If any development type other than for existing structures, a site plan that is certified by a surveyor, engineer, or architect that shows the development in relation to the Flood Risk Zones.

SEARCH BY ADDRESS



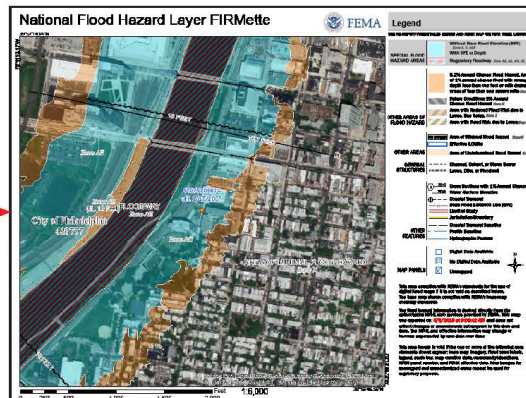
PROJECT ADDRESS

FIRM PANEL DATE

FIRM PANEL #

ZOOM IN TO YOUR PROPERTY

FIRMETTE
DOWNLOAD & ATTACH TO APPLICATION



SECTION C

This section identifies the type of development. Select all that apply to your proposed development. Follow the “Proceed to” prompts to next applicable section of the application. If none of these development types apply to your development, insert a description of the development in “Other.”

SECTION D

D1-7. These items identify items found on an Elevation Certificate (EC), which is required for new buildings, substantial improvement/renovations, and additions. Reference a signed and sealed EC to complete this section. Note that 2a & 3 apply if the subsequent drawings/plans submitted are in City Datum and not NGVD 29. Note that J4. is the BFE + 18” (in some cases 24” – See ASCE 24).

D8. This item is if the proposed development is townhouses. In which case, elevations must be provided for each individual attached home, and a separately completed Flood Protection Permit Application for each contiguous group/row of townhouses.

[FEMA Elevation Certificate](#)

SECTION E

This section identifies specific building codes/regulations for specific design topics in relation to the applicants' development. Note that many sections may apply depending on the proposed development. These requirements are based on these codes/regulations:

Philadelphia Zoning Code – Chapter 14-700

Philadelphia Administrative Code

2018 International Building Code

- Section 104 Duties and Powers of the Building Official
- Section 202 Definitions
- Chapter 8 Interior Finishes
- Chapter 11 Accessibility
- Chapter 12 Interior Environment
- Chapter 14 Exterior Walls
- Chapter 16 Structural Design Requirements
 - Section 1603 Construction Documents
 - Section 1605 Load Combinations
 - Section 1612 Flood Loads
- Chapter 18 Soils and Foundations
- Chapter 27 Electrical
- Chapter 30 Elevators and Conveying Systems
- Chapter 31 Special Construction

2018 International Building Code – Appendix G

ASCE 24-14

Code Bulletin – Development in SFHA

2018 International Residential Code

- Chapter 1 Administrative
- Chapter 3 Building Planning
 - R322 Flood-Resistant Construction
- Chapter 4 Foundations
 - R401 Foundations
 - R408 Under-Floor Space
 - 506 Concrete Floors
- Mechanicals/electrical/plumbing
 - M1301.1.1 General Mechanical System
 - M1401.5 Heating & Cooling Equipment
 - M1601.1 Duct Construction
 - M1701.2 Combustion Air
 - M2001.4 Boilers & Hot Water Heaters
 - M2201.6 Piping & Storage Systems
 - G2404.7 Fuel Gas
 - P2601.3 Plumbing Systems
 - P2602.2 Individual Water Supply & Sewage
 - P2705.1 Plumbing Fixtures
 - P3001.3 Sanitary Drainage
 - P3101.5 Vent Systems
- Appendix E Manufactured Housing Used as Dwelling

*Note that more restrictive code applies

SECTION F

This section identifies how to seek a variance.

SECTION G

This section identifies other state and federal permits that must be obtained prior to the issuance of a City of Philadelphia Building Permit.

SECTION H

This item identifies if the applicant is requesting the City to support a Letter of Map Change (LOMC). They will be in the form of Conditional Letter of Map Revision (CLOMR), Conditional Letter of Map Revision based on Fill (CLOMR-F), and/or Letter of Map Revision (LOMR).

SECTION I

These identify development in A Zones, which require the identification of the Base Flood Elevation (BFE) as it does not appear on FEMA FIRM maps.

SECTION J

A signature is required to affirm all the statement are correct and complete to the best of the applicants' knowledge and that the design plans, were submitted, are consistent with these statements. When multiple design professionals are involved with various components, have each professional list and sign/seal this form.

SECTION K

This section is for additional information or clarification of items on this form. If the applicant has attachments or exhibits, they should be listed here with name, page number, and date.