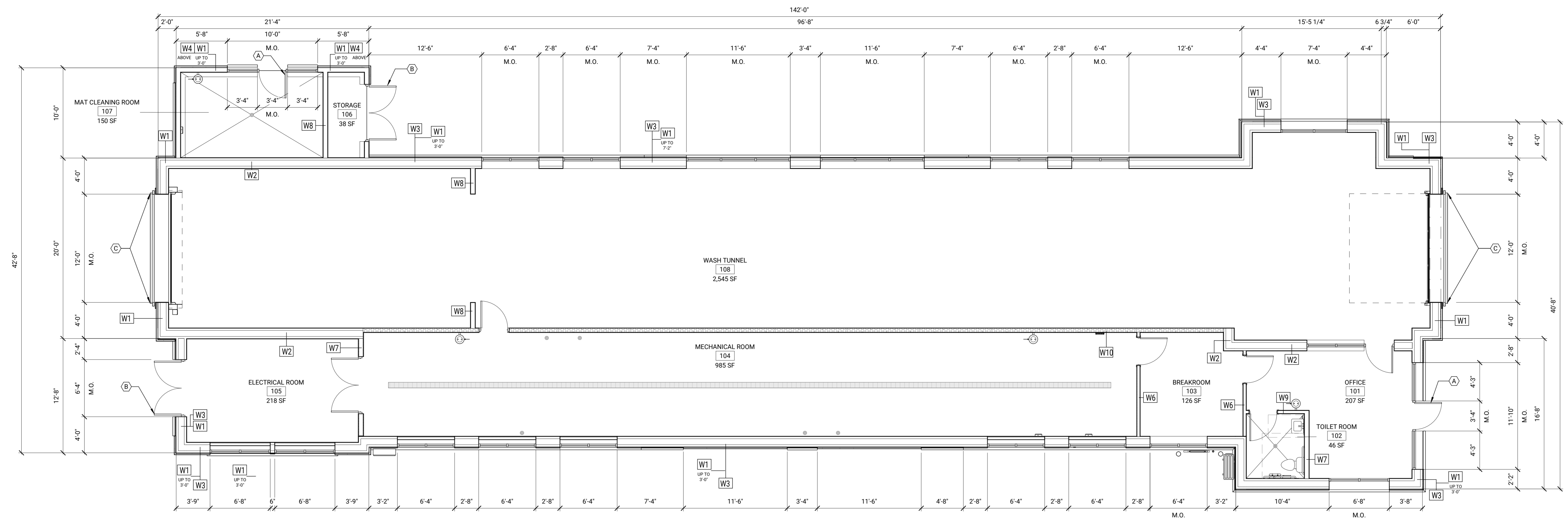


5/25/2023 2:58:25 PM © FORM2 ARCHITECTURE PLLC. FILE PATH: Autodesks Docs/22062_SPLASH - FAYETTEVILLE_F2_Central.rvt



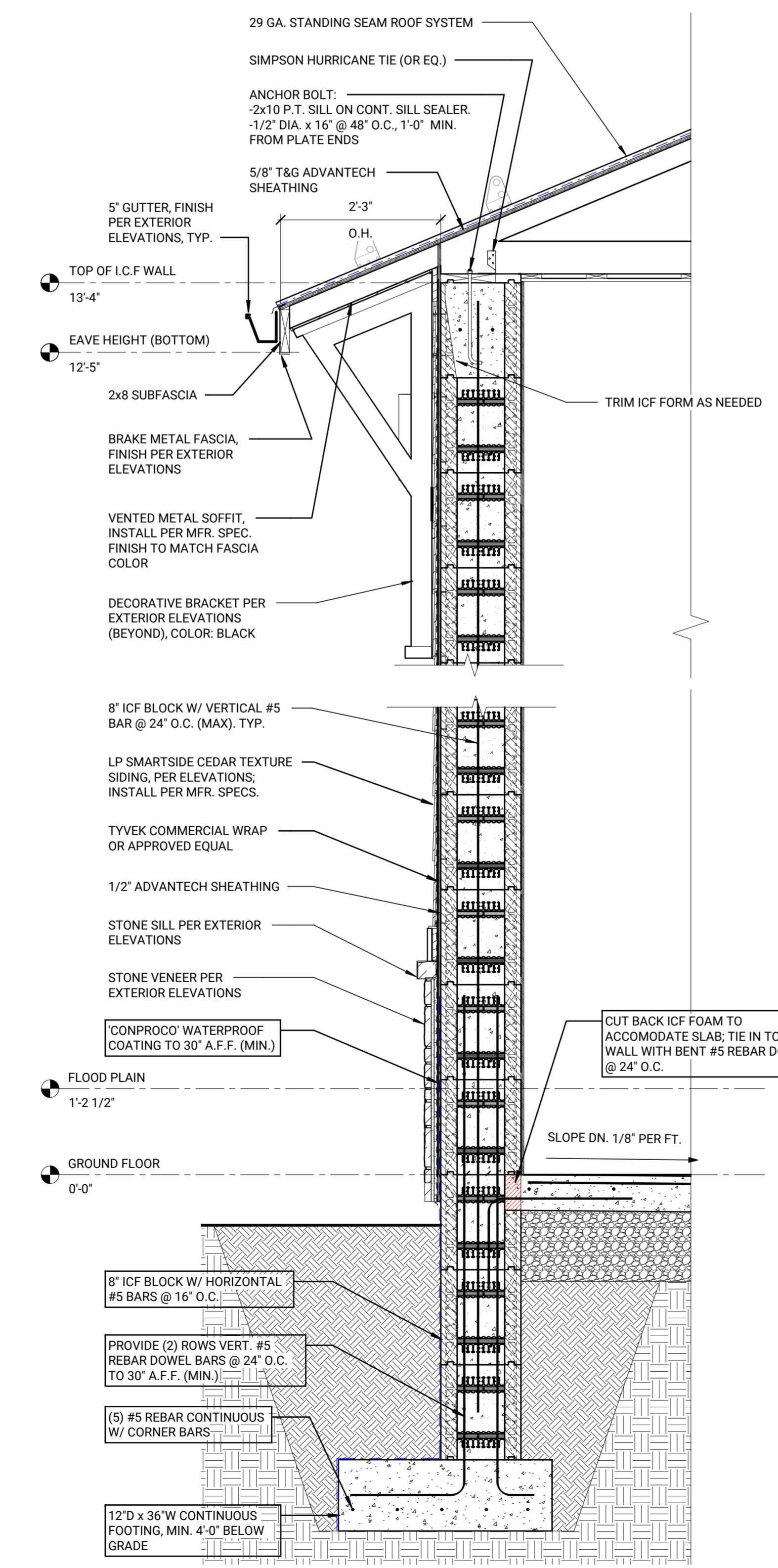
1 GROUND FLOOR PLAN - FLOOD PROTECTION
3/16" = 1'-0"

GENERAL FLOOD PLAN NOTES

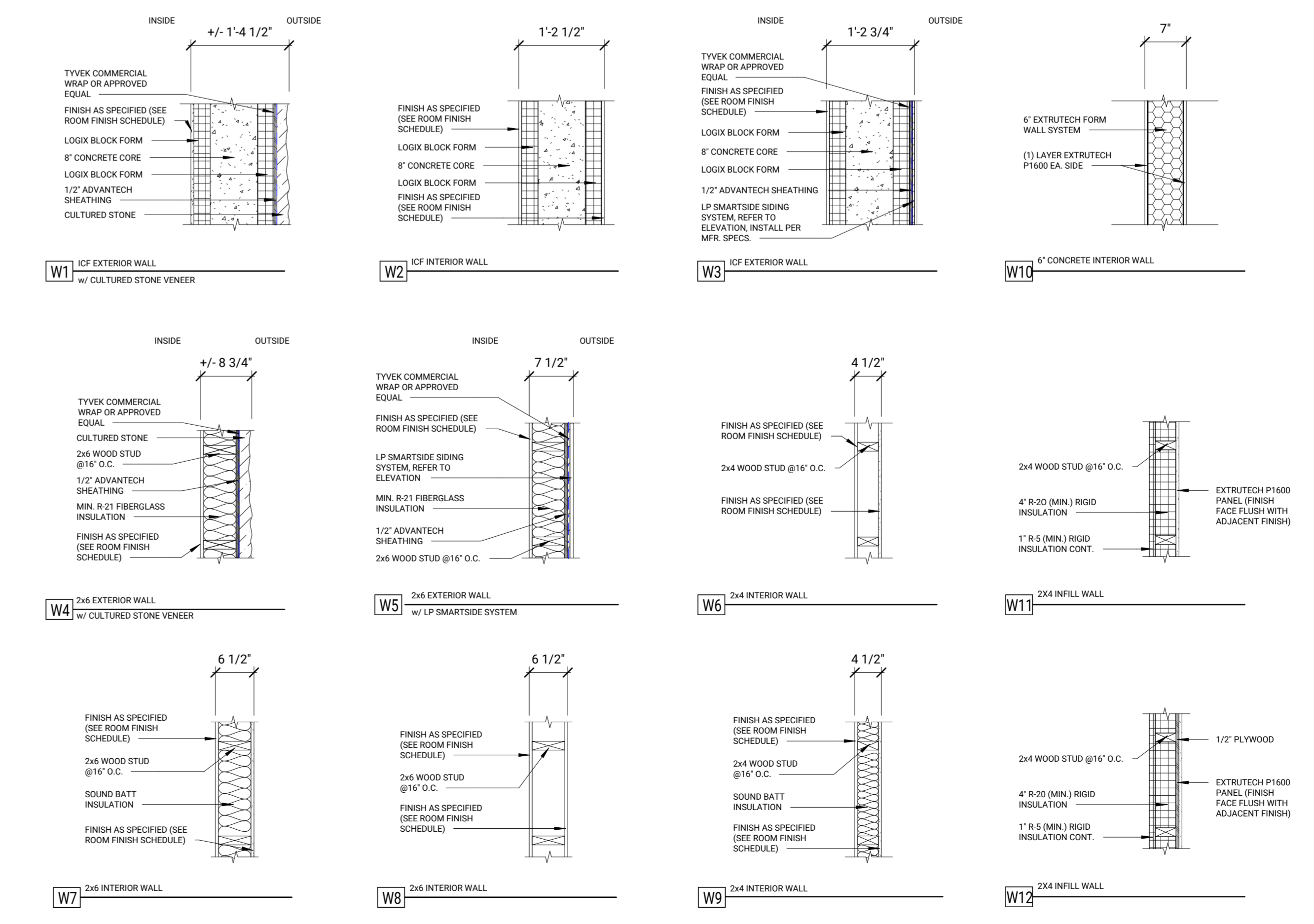
SPECIAL FLOOD HAZARD AREA AE - FLOODWAY AREA
 FEMA 100-YR FLOOD PLAIN ELEVATION PER MAPPING = 439.2
 FFE ENTRANCE = 438.00 (14.5' +/- BELOW FLOOD PLAIN)
 FFE EXIT = 438.32 (10.5' +/- BELOW FLOOD PLAIN)

FLOOD PROTECTION KEYNOTES

| NO. | DESCRIPTION |
|-----|--|
| A | SINGLE DOOR - FLOOD BARRIER DOOR (PS FLOOD BARRIERS - HYDRO1 PEDESTRIAN FLOOD DOOR) |
| B | DOUBLE DOOR - FLOOD BARRIER DOOR (PS FLOOD BARRIERS - HYDRO1 PEDESTRIAN FLOOD DOOR) |
| C | OVERHEAD DOOR - FLUSH MOUNTED FLOOD BARRIER (PS FLOOD BARRIERS - HYDRODEFENSE FLOOD PLANK XL) SEALED SURFACES MUST BE SMOOTH |



2 FLOOD WALL PREVENTION (TYPICAL)
3/4" = 1'-0"



3 WALL TYPES
3/4" = 1'-0"

180 STONE ROAD SUITE 102 ROCHESTER, NY 14618
 716.233.7623
 WWW.FORM2ARCHITECTURE.COM

the **SPLASH CAR WASH**

180 STONE ROAD SUITE 102 ROCHESTER, NY 14618

PROJECT NO. 22062

REVISIONS

| NO. | DESCRIPTION |
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THESE DOCUMENTS AND ALL THE IDEAS, ARRANGEMENTS, DESIGNS AND PLANS INDICATED THEREON OR PRESENTED THEREBY ARE OWNED BY AND REMAIN THE PROPERTY OF FORM2 ARCHITECTURE PLLC AND NO PART THEREOF SHALL BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER EXCEPT WITH THE SPECIFIC WRITTEN PERMISSION OF FORM2 ARCHITECTURE PLLC. ALL RIGHTS RESERVED. © 2023

PROJECT NORTH

DRAWN BY: Author

CHECKED BY: Checker

PROJECT STATUS: PERMIT SET

SCALE: As indicated

FLOOD PROTECTION PLAN & SECTION

FFP1.0

GENERAL ELEVATION NOTES

1. FOR GRAPHIC SYMBOLS AND ABBREVIATIONS SEE SHEET C0.01
2. CONTRACTORS SHALL VERIFY ALL EXTERIOR MATERIALS, COLORS, AND FINISHES WITH THE ARCHITECT. ANY DISCRENCIES NOTED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION.
3. THE EXTERIOR WALL AS SHOWN SHALL BE A COMPLETE SYSTEM INCLUDING ALL STIFFENERS, FASTENERS, SEALANTS, JOINTING, MISCELLANEOUS PIECES, AND MATERIAL THICKNESS AS REQUIRED TO FORM A WATERTIGHT ENCLOSURE.
4. ALL DETAILS ARE TO BE COORDINATED WITH THE STRUCTURAL FRAMING AND OTHER BUILDING COMPONENTS INCLUDING ROOFING, EXTERIOR CLADDING ITEMS, GLAZING, INTERIOR FINISH, AND OTHER RELATED BUILDING COMPONENTS.
5. EXTERIOR FINISHES SHOWN CAN BE ASSUMED TO WRAP AROUND PROJECTING ELEMENTS UNLESS OTHERWISE NOTED.
6. PROVIDE INTERNATIONAL SYMBOL OF ACCESSIBILITY. 6 INCH MIN. SIZE ADJOINING ENTRY DOOR-SIGN SHALL CONSIST OF WHITE FIGURE ON A BLUE BACKGROUND. MOUNT SIGN AT 5'-0" A.F.F.
7. REFER TO ELECTRICAL AND LIGHTING DRAWINGS FOR ALL EXTERIOR LIGHTING TYPES AND MOUNTING HEIGHT.
8. ALL SEALANT JOINTS SHALL BE SIZED SUCH THAT THEY WILL BE WITHIN THE SIZE RANGE RECOMMENDED BY THE SEALANT MANUFACTURER.
9. VERIFY ALL CLEAR OPENINGS FOR WINDOW AND LOUVER INSTALLATIONS.
10. ALL MASONRY ATTACHMENTS, LINTELS, SHELF ANGLES, AND SUPPORTS SHALL BE HOT-DIPPED GALVANIZED STEEL. ALL SHIMS SHALL BE NON-CORROSIVE MATERIALS.
11. ALL SILLS, WINDOW HEADS, AND SHELF ANGLES SHALL HAVE FLASHING EXTENDED TO THE OUTSIDE OF THE WALL WHETHER OR NOT SHOWN ON THE DRAWINGS.
12. NOTE: OVERALL DIMENSIONS SHOWN ARE TO FINISHED EXTERIOR FACE, TYPICAL.

ELEVATION KEYNOTES

| NO. | DESCRIPTION |
|-----|--|
| 1 | 29 GA. 1-1/2" STANDING SEAM, 16" PANEL WIDTH, CUSTOM COLOR GRAY ROOFING, TO BE PROVIDED BY EB MARTIN (585) 536-0944, 2845 NY-364, PENN YAN, NY 14527, NO ALTERNATES ACCEPTED |
| 2 | PREFINISHED ALUMINUM FASCIA, COLOR TO MATCH ROOF |
| 3 | ALUMINUM FRAMING, COLOR: BLACK |
| 4 | 2" STONE VENEER, PARAGON SUPPLY, COLOR: LIGHT GRAY |
| 5 | 2" STONE VENEER, PARAGON SUPPLY, COLOR: DARK GRAY |
| 6 | STONE SILL |
| 7 | DECORATIVE BRACKET, COLOR: BLACK |
| 8 | DECORATIVE BRACKET, COLOR: WHITE |
| 9 | SINGLE DOOR - FLOOD BARRIER DOOR (PS Flood Barriers - Hydro1 Pedestrian Flood Door) 30" (MIN.) WATER PROTECTION HEIGHT, TYP. |
| 10 | OVERHEAD DOOR - FLUSH MOUNTED FLOOD BARRIER (PS Flood Barriers - HydroDefense Flood Plank XL) SEAL SURFACE MUST BE SMOOTH, UNINTERRUPTED BY STEPS GREATER THAN .015 & FREE OF CRACKS |
| 11 | DOUBLE DOOR - FLOOD BARRIER DOOR (PS Flood Barriers - Hydro1 Pedestrian Flood Door) 30" (MIN.) WATER PROTECTION HEIGHT, TYP. |
| 12 | LP SMARTSIDE BOARD & BATTEN - CEDAR TEXTURE, COLOR - MATCH TO DARK BLUE |
| 13 | LP SMARTSIDE TRIM, COLOR - MATCH TO DARK BLUE |
| 14 | LP SMARTSIDE TRIM, COLOR - MATCH TO DARK GRAY |
| 15 | LP SMARTSIDE 6" LAP SIDING - CEDAR TEXTURE, COLOR - MATCH TO DARK GRAY |
| 16 | LP SMARTSIDE 12" LAP SIDING - CEDAR TEXTURE, COLOR - MATCH TO LIGHT BLUE |
| 17 | LP SMARTSIDE BOARD & BATTEN - CEDAR TEXTURE, COLOR - MATCH TO DARK GRAY |
| 18 | EXTERIOR METER, REFER TO MEP DRAWINGS, EXACT LOCATION TO BE COORDINATED w/ CIVIL AND UTILITY COMPANIES. TYP. |
| 19 | EXTERIOR MEP EQUIPMENT, REFER TO MEP DRAWINGS, EXACT SIZE AND LOCATION TO BE COORDINATED WITH |
| 20 | EXTERIOR SIGNAGE BY OWNER, REFER TO SIGNAGE CONSULTANT SHOP DRAWING, PROVIDE POWER WHERE REQUIRED |
| 21 | PRECAST FAUX HEADER, 8" HIGH, 4" HORIZONTALLY PAST OPENINGS, TYP. |
| 22 | SPRANDEL GLASS PANELS |
| 23 | (2) ROWS OF CONTINUOUS SNOW GUARDS; MATCH ROOF COLOR, TYP. PROVIDED BY EB MARTIN (585) 536-0944, 2845 NY-364, PENN YAN, NY 14527, NO ALTERNATES ACCEPTED |
| 24 | LED WALL SCONCE, MANUF: MINKA LAVERY - FIN: BRUSHED ALUMINUM |
| 25 | LED WALLPACK LIGHT, REFER TO CIVIL DRAWINGS AND LIGHTING SCHEDULE, TYPICAL |

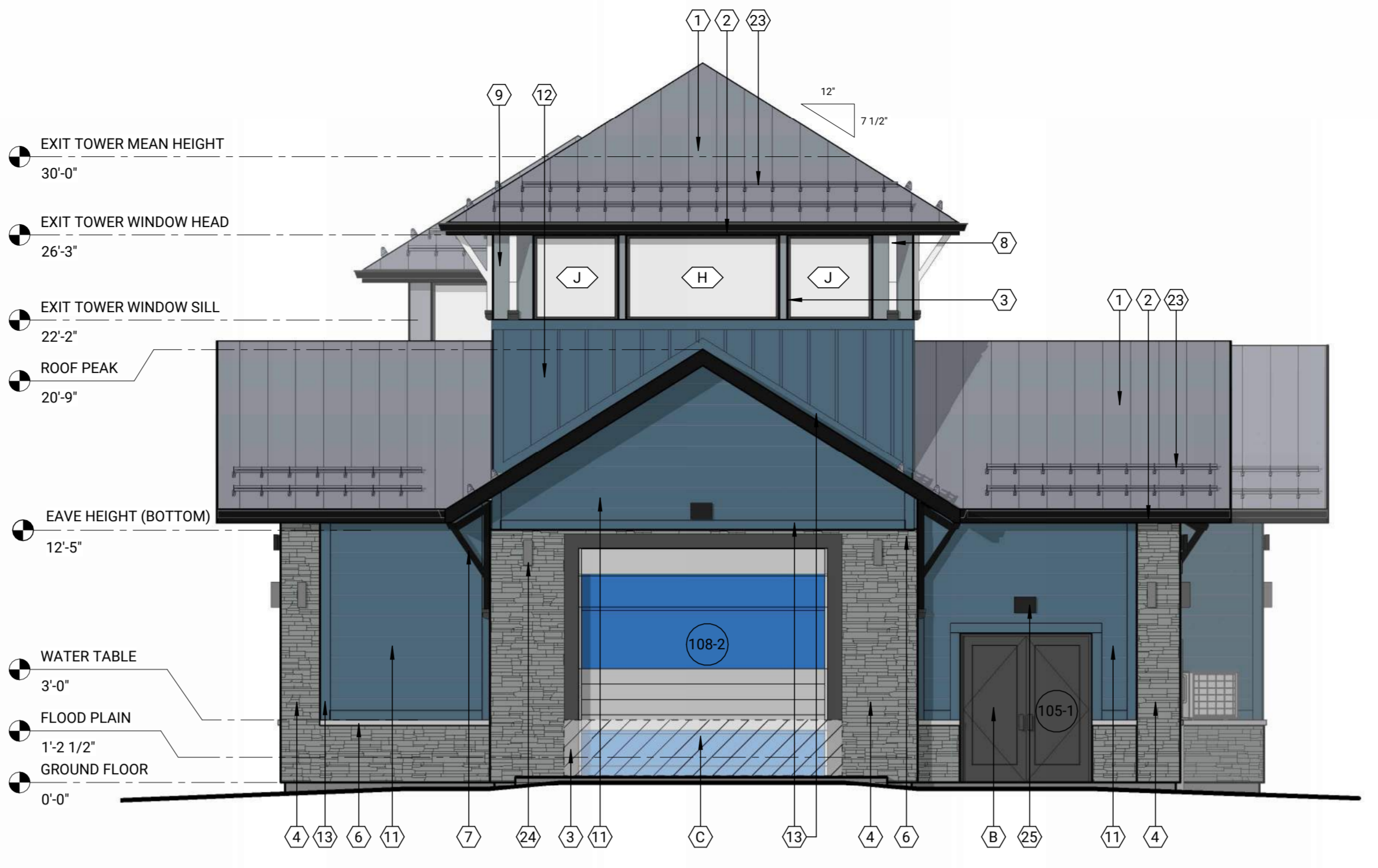
*ALL LP SMARTSIDE SIDING - INSTALLATION PER MANUFACTURERS RECOMMENDATIONS & WARRANTY REQUIREMENTS, TYP. SUBMIT SHOP DRAWINGS FOR REVIEW & APPROVAL PRIOR TO FABRICATION

FLOOD PROTECTION KEYNOTES

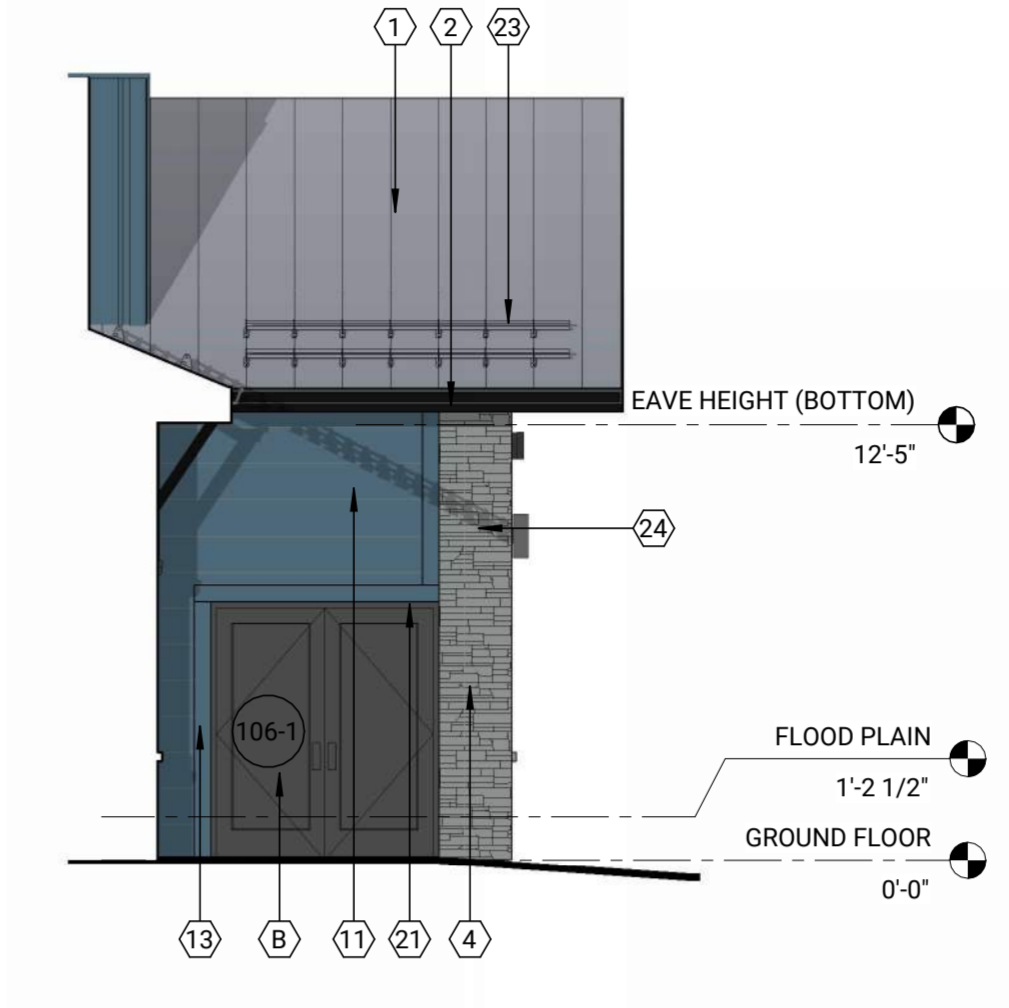
| NO. | DESCRIPTION |
|-----|--|
| A | SINGLE DOOR - FLOOD BARRIER DOOR (PS FLOOD BARRIERS - HYDRO1 PEDESTRIAN FLOOD DOOR) |
| B | DOUBLE DOOR - FLOOD BARRIER DOOR (PS FLOOD BARRIERS - HYDRO1 PEDESTRIAN FLOOD DOOR) |
| C | OVERHEAD DOOR - FLUSH MOUNTED FLOOD BARRIER (PS FLOOD BARRIERS - HYDRODEFENSE FLOOD PLANK XL) SEALED SURFACES MUST BE SMOOTH |



2 EAST ELEVATION (FLOOD PROTECTION)
3/16" = 1'-0"



5 WEST ELEVATION (FLOOD PROTECTION)
3/16" = 1'-0"



1 PARTIAL EAST ELEVATION (FLOOD PROTECTION)
3/16" = 1'-0"



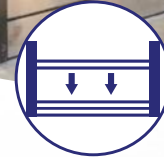
4 SOUTH ELEVATION (FLOOD PROTECTION)
3/16" = 1'-0"



3 NORTH ELEVATION (FLOOD PROTECTION)
3/16" = 1'-0"



100%
Customizable



Stackable Planks



Quick Deployment

HYDRODEFENSE® FLOOD PLANK XL (FP-535)

FOR FLOOD PROTECTION ON LARGE OPENINGS, THE BEST DEFENSE IS HYDRODEFENSE®

The HydroDefense® Flood Plank XL (FP-535) from PS Flood Barriers™ is the most dependable way to protect large openings like driveways, loading docks, storefronts, retaining walls and full building perimeters from the advance of flood water. Specifically engineered to protect extra-large openings, the HydroDefense system is custom built using our proprietary flood planks, also known as stop logs, to address your distinct flood vulnerabilities. The HydroDefense Flood Plank XL is stored away from your opening, providing the perfect solution when you need protection in place only at the time of flooding.

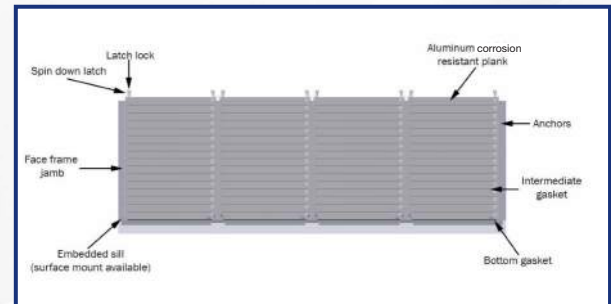
EASY DEPLOYMENT

- No sealant required on planks during deployment – watertight protection that deploys quickly without mess or dry time
- Identical flood planks of symmetrical shape allow for quick assembly because planks fit either way
- Easy-grip construction makes part handling simpler and safer
- Fewer pieces to track mean less stress during assembly
- Easy-to-replace seal can be changed in the field in minutes



KEEPS WATER OUTSIDE WHERE IT BELONGS

- Rugged extruded-aluminum planks and durable gaskets are tested to withstand the rigors and unpredictable nature of flooding
- Components are engineered to integrate together to form a structural watertight wall
- Rugged T-Lock seal is mechanically locked in place



CUSTOMIZABLE, ADJUSTABLE AND SAFE – HYDRODEFENSE MAKES MORE SENSE

- 100% customizable to meet virtually any building or large area opening requirements
- Unique spin-down latches enable walls to be set up with varying heights (instead of all or nothing)
- Lockable spin-down latches allow the deployed barrier to lock in place
- Affordable replacement seals make it easier to keep a well-maintained flood solution

Ask About Our Other Flood Barriers For Large Openings:



Self-closing
Flood Barrier



Vertical Lift
Flood Barrier



Sliding
Flood Barrier

701.746.4519 | 877.446.1519 | www.psfloodbarriers.com | 4psinfo@psindustries.com

STANDARD TECHNICAL DATA

MATERIAL:

- **Flood Planks and Frame:** 6000 series aluminum alloy
- **Seal:** UV Resistant EPDM (High-grade material)
- **Installation:** To be installed to structural walls, typically concrete or masonry
- **Floor Surface:** Seals to existing floor surface or optional embedded steel sill
- **Mullions:** Removable mullions create a sectional barrier of any length

HARDWARE:

- Spin-down compression latches with security locking

PERFORMANCE RATING:

- Tested to the American National Standard for Flood Abatement Equipment, ANSI/FM 2510 2014, section 4.3.3, for water protection up to 12 feet

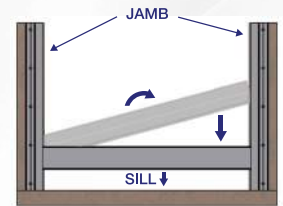
DEPLOYMENT INSTRUCTIONS:

Step 1. Remove cover assembly from jambs and spray jamb seals with a water-soap mixture.



Step 2. Install the plank that is labeled “Bottom Plank” first. This plank is unique and the gaskets have been factory sealed to ensure a watertight junction with the sill.

- Place one corner of the bottom plank into the jamb.
- Angle the opposite end of the plank upward until it clears the opposite jamb.
- Slide the plank into the jamb, taking care to not tear the jamb gasket.
- Level plank and slide down.
- Center the plank between the jambs and ensure that the plank fully overlaps both jamb gaskets.



Step 3. Install the intermediate planks in the same manner as the bottom plank, ensuring that each plank is fully seated onto the plank below. If this is not achieved, lift and re-seat the plank on the plank below before continuing.

Step 4. Install latching, making certain to tighten both latch sides evenly to compress planks uniformly. Tighten latch bolts to a torque of 100 in.-lb. To ensure that the gaskets are compressed uniformly, measure from the floor to the top plank on both ends. These dimensions are required to be within 1/4" of each other. Use of supplied latch-lock is optional but recommended in locations where tampering of the HydroDefense™ Flood Plank Wall System is prevalent.



Certificate of Testing Performance

FP-535 Flood Plank XL Performance Test

Product: FP-535, 152 X 144 inches

Water Protection Height (WPH): 144 inches

Test Report: FP-535 RevA-T1

Test Procedure: ANSI/FM 2510-2014 Section 4.3.3 Hydrostatic Loading on Opening Barriers

Tested Leakage Rate: 0.054 gallons/hour/linear feet of wetted perimeter

This certificate is based on independent party validated performance testing of a FP-535 performed in a factory setting. The product was tested to a maximum water depth of 144 inches of hydrostatic loading according to ANSI/FM 2510-2014 Section 4.3.3 test procedures.

The hydrostatic testing is conducted over a minimum duration of twenty-two hours and leakage rate is measured in fifteen-minute periods during specified intervals of the test. The ANSI/FM 2510 test specification states the leakage rate shall not exceed 0.08 gallons per hour per linear foot of wetted perimeter (gal/hr/lin_ft) over any fifteen-minute period throughout the entire duration of the test.

During the FP-535 test, leakage is collected from all portions of the product assembly which are located below the tested water depth. The maximum leakage rate measured throughout all portions of the test procedure was 0.054 gallons per hour per linear foot of wetted perimeter (gal/hr/lin_ft).

Test Conducted By:

Name: **Nathan Ueland**

Title: **R&D Engineer**

Company: **PS Industries Inc**

X *Nathan Ueland*

4/28/2021

Independent Party Witness:

Name: **Timothy Gustafson**

Title: **Professional Engineer (P.E.)**

Company: **EAPC**

X *Timothy Gustafson*

4/28/2021



Easy To Install



Low Leakage



ADA Compliant

HYDRO1® PEDESTRIAN FLOOD DOOR (HYDRO1-PD520) EVERYDAY FUNCTIONALITY, LOWEST LEAKAGE RATE IN THE INDUSTRY

The new Hydro1 Pedestrian Flood Door from PS Flood Barriers™ redefines the term “multi-functional,” serving as both a passive flood-protection barrier and a normal-use pedestrian/egress door. It provides protection with the lowest leakage rate in the industry and requires no human intervention to deploy. Floodwater stays outside where it belongs. The Hydro1 is a purpose-built flood door, not to be confused with repurposed hollow metal doors that fail to meet engineering required for a flood door (and feature gaskets on walking surfaces).

AROUND-THE-CLOCK PEACE OF MIND

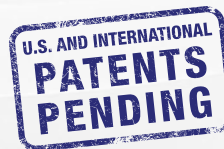
- Always in place, providing 24-hour flood protection while still allowing access to your facility
- Lowest leakage rate in the industry with independent-party-witnessed factory testing to 3' and 20' water protection heights; 50% less leakage than the **ANSI/FM Approvals 2510-2020 4.3.3 standard (hardware included)**
- One-piece perimeter gasket creates a forgiving, water-tight seal
- The Hydro1-PD520 Single configuration door has passed Florida Product Approval testing, including approval for the High Velocity Hurricane Zone (Miami-Dade and Broward counties). FL #39631

ENGINEERED TO MEET THE CHALLENGE

- Door and threshold are ADA compliant
- Professionally engineered to meet flood codes
- Professionally hydrostatic load-tested to the ANSI/FM Approvals 2510-2020 4.3.3 standard (testing documentation available)

UNIQUE OPTIONS TO MEET YOUR EXACT REQUIREMENTS

- 100% customizable
- Available in single and paired configurations
- Fully assembled with authorized hardware and lockset installed
- Step-by-step, detailed installation instructions



Certificate of Testing Performance

HYDRO1 Pedestrian Flood Door Performance Test

Product: Paired Door Assembly 8'0"x8'0"

Water Protection Height (WPH): 96"

Test Report: HYDRO1 REVA-T4

Test Procedure: ANSI/FM 2510 Section 4.3 Flood Barriers for Opening Barrier Applications

Tested Leakage Rate: 0.025 gal/hr/lin_ft

This certificate is based on independent party validated performance testing of a paired HYDRO1 Pedestrian Flood Door of size 8'0"x8'0" performed in a factory setting. The product was tested to a maximum water depth of 96 inches of hydrostatic loading and subjected to multiple dynamic impact tests according to ANSI/FM 2510 Section 4.3 test procedures. The commercial lockset was not directly subjected to a dynamic impact test.

The hydrostatic testing is conducted over a minimum duration of twenty-four hours and leakage rate is measured in fifteen-minute intervals during specified intervals of the test. The test procedure requires that leakage collection is conducted at both ten percent and one hundred percent of the max water depth. Dynamic impact testing is completed with a 110-pound object dropped on a pendulum apparatus from a height of 48 inches to result in 443 ft-lbs (600 Joules) of energy upon impact. Additional leakage collection is conducted after the dynamic impact testing. The ANSI/FM 2510 test specification states the leakage rate shall not exceed 0.08 gallons per hour per linear foot of wetted perimeter (gal/hr/lin_ft) over any fifteen-minute period throughout the entire duration of the test.

During the HYDRO1 Pedestrian Flood Door test, leakage is collected from all portions of the product assembly which are located below the tested water depth, including the door hardware and lockset. The maximum leakage rate measured throughout all portions of the test procedure was 0.025 gallons per hour per linear foot of wetted perimeter (gal/hr/lin_ft), which is 69% less than the maximum allowed leakage rate of the ANSI/FM 2510 standard referenced herein.

Test Conducted By:

Name: Nathan Ueland

Title: R&D Engineer

Company: PS Industries Inc

X Nathan Ueland

2/24/2021

Independent Party Witness:

Name: Timothy Gustafson

Title: Professional Engineer

Company: EAPC

X Timothy J. Gustafson

02/24/2021