LEGEND

- (FT) COMMON PATH OF TRAVEL (IN FEET)
- HS FIRE ALARM AUDIO/VISUAL
- STROBE
- EXIT LIGHT ILLUMINATED (UNSWITCHED)
- EMERGENCY BATTERY UNIT (2 HEADS) 6V DC-10.8 WATTS FOR 90 MINUTES
- FAA FIRE ALARM ANNUNCIATOR
- P MANUAL PULL STATION
- 2 P PHOTOELECTRIC SMOKE DETECTOR

FA-02 1st Floor Fire Alarm

ENTIRE BUILDING SPRINKLERED PER NFPA 13

SUMMARY

EXISTING THREE STORY PLACE OF WORSHIP
ASSEMBLY OCCUPANCY - GROUP A3
TYPE V CONSTRUCTION

1. OCCUPANT LOAD FACTOR- LESS CONCENTRATED WITHOUT FIXED SEATING (15 SQUARE FEET NET PER OCCUPANT)

FIRST FLOOR ASSEMBLY - 119 OCCUPANTS
SECOND FLOOR ASSEMBLY - 119 OCCUPANTS
THIRD FLOOR ASSEMBLY - 77 OCCUPANTS

2. MINIMUM NUMBER OF EXITS: TWO (SUPERVISED AUTOMATIC SPRINKLER PER NFPA 13)

3. COMMON PATH OF TRAVEL: 75 FEET SERVING NOT MORE THAN 50 OCCUPANTS. DEAD END CORIDORS NOT TO EXCEED 20 FEET

4. EXIT ACCESS TRAVEL DISTANCE - NOT TO EXCEED 200 FEET

5. EXIT PASSAGEWAYS - 1 HOUR FIRE RATED SEPARATION

ARRANGEMENT OF MEANS OF EGRESS - EXIT ACCESS MINIMUM ONE THIRD DISTANCE LOCATED AT NOT LESS THAN ONE-THIRD THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA MEASURED IN A STRAIGHT LINE TO THE NEAREST EDGE OF EXITS.

6. CONSTRUCTION CLASSIFICATION:

EXISTING - TYPE V (B) CONSTRUCTION (WOOD, BALLOON FRAMED)

NEW - TYPE V (B) CONSTRUCTION

- MODIFIED ASSEMBLY TYPE CONFORMING TO ASTM E119
  a) MAINTAIN STRUCTURAL STABILITY
  b) LIMIT TRANSMISSION OF HEAT
  c) LIMIT TRANSMISSION OF HOT GASES

-Ten Fire Rules developed by T.Z. Harmathy

Rule #2 - THE FIRE ENDURANCE OF THE CONSTRUCTION DOES NOT DECREASE WITH THE ADDITION OF FURTHER LAYERS.

- ASSEMBLIES CONSIST OF:
  a) FIRE RETARDANT TREATED FRAMING LUMBER & SHEATHING
  b) 1" INSULATION BOARD-SURFACE BURNING CHARACTERISTICS (PER ASTM 84) FLAME SPREAD/SMOKE DEVELOPED 15/140.
  c) 5/8" DENSGLASS FIREGUARD SHEATHING-SURFACE BURNING CHARACTERISTICS (PER ASTM 84) FLAME SPREAD/SMOKE DEVELOPED 0/0.
  d) CLASS A ROOF COVERING (MIN CLASS B COVERING)

DISTANCE TO ADJACENT BUILDING (MAXIMUM 10% WALL OPENINGS).
- EXTERIOR WALL LESS THAN 10 FEET DISTANCE TO ADJACENT BUILDING REQUIRES 1 HOUR FIRE RESISTANCE RATING FOR EXPOSURE TO FIRE FROM BOTH SIDES.
- OPENINGS IN EXIT ENCLOSURE EXTERIOR WALLS WITHIN 10 FEET SHALL HAVE A FIRE PROTECTION RATING OF NOT LESS THAN ¾ HOUR.

7. THREE STORY STAIRS
- MINIMUM STAIR WIDTH - 44 INCHES
- 1 HOUR FIRE RATED ENCLOSURE TWO EXISTING STAIRS TO REMAIN (8" RISERS, 11" TREADS)

ONE NEW STAIR:
MAXIMUM 7" RISER HEIGHT
MINIMUM 11" TREAD DEPTH
HANDRAILS EACH SIDE OF STAIR

8. EGRESS EXIT DOORS SERVING 99 OCCUPANTS OR MORE SHALL BE EQUIPPED WITH HORIZONTAL PANIC BAR OR PUSH PAD TYPE (REFER TO SCHEDULE)

9. ILLUMINATION OF MEANS OF EGRESS:

EMERGENCY LIGHT REQUIRED AT ALL EXIT STAIRS, AISLES, CORRIDORS AND PASSAGEWAYS LEADING TO AN EXIT. CONTINUOUS DURING THE TIME THAT THE CONDITIONS OF OCCUPANCY REQUIRE THE MEANS OF EGRESS BE AVAILABLE FOR USE.

10. MARKING OF MEANS OF EGRESS:

ILLUMINATED EXIT SIGNAGE OTHER THAN MAIN EXTERIOR DOOR CLEARLY IDENTIFIABLE AS AN EXIT.

ILLUMINATED EXIT SIGNAGE (DIRECTIONAL) WHERE THE CONTINUATION OF THE EGRESS PATH IS NOT OBVIOUS.

TACTILE SIGNAGE AT EACH EXIT DOOR REQUIRING AN EXIT SIGN AND IN ACCORDANCE WITH THE *American National Standard for Accessible and Usable Buildings and Facilities.*

11. EVERY ROOM CONSTITUTING AN ASSEMBLY OCCUPANCY AND NOT HAVING FIXED SEATS SHALL HAVE THE MAXIMUM OCCUPANT LOAD OF THE ROOM POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT OF THE ROOM. (NFPA 101 13.7.9.3)

Protection 1 SECURITY SOLUTIONS — A BETTER CHOICE FOR YOU

Scott Dana, Certified Engineering Technician, NICET IV Cert. #11660			
-	10 Manuel Drive, Portland, Maine 04103 (207) 347-5327	5/13/14	-

ETZ CHAIM SYNAGOGUE
267 CONGRESS STREET
PORTLAND, MAINE

LIFE SAFETY FIRST FLOOR PLAN

REGISTERED ARCHITECT JOHN H. LEASURE No. 310 STATE OF MAINE

REV.	DATE	STATUS
1	1-16-13	CHANGE SIDE ADDITION FOOTPRINT & RELOCATE STAIR
2	1-4-13	STATE FIRE MARSHAL SUBMISSION
3	4-25-13	ISSUED FOR PERMIT

JOHN H. LEASURE ARCHITECT, INC.
6 Q STREET
SOUTH PORTLAND, MAINE 04106

LS2

CITY OF PORTLAND, MAINE — RESURGAM
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 06/26/14