

**CODE REVIEW**

THESE PLANS ARE INTENDED TO COMPLY WITH THE 2009 IBC LEVEL 3 ALTERATIONS CHAPTERS 4, 7, 8 CHAPTER 10 - ADDITIONS

MUBEC - MAINE UNIFORM BUILDING AND ENERGY CODE 2009/2012 INTERNATIONAL BUILDING CODE 2009 INTERNATIONAL ENERGY CONSERVATION CODE 2009 INTERNATIONAL EXISTING BUILDING CODE 2009 NFPA 101 LIFE SAFETY CODE, NFPA 5000 2009 AMERICANS WITH DISABILITY ACT PORTLAND, MAINE ORDINANCES

NOTE: THERE IS AN EXISTING ILLEGAL 4TH APARTMENT THAT IS REMOVED AS PART OF THESE PLANS

**IBC 2012 CODE STUDY:**

CH. 3 USE AND OCCUPANCY CLASSIFICATIONS  
BUILDING USES: (USE TO REMAIN AS IS)  
THE BUILDING IS MIXED USE/SEPARATED.  
FIRST FLOOR IS MERCANTILE (M) SEC. 309 SINGLE TENANT AND IS SEPARATED WITH A 1HR SEPARATION FROM THE APARTMENTS ABOVE. THIS IS ALLOWED PER TABLE 508.4 FOR SPRINKLERED BUILDING.  
SECOND FLOOR - RESIDENTIAL (R2) SEC 310.4 (2) APARTMENTS  
THIRD FLOOR - RESIDENTIAL (R2) SEC 310.4 (1) APARTMENT

**CH. 4 SPECIAL REQUIREMENTS BASED ON USE AND OCCUPANCY SEC 420 GROUP R2**

SEC 420.2 WALLS SEPARATING UNITS SHALL BE CONSTRUCTED AS FIRE PARTITIONS PER SEC 708

SEC 420.3 FLOORS SEPARATING UNITS SHALL BE CONSTRUCTED AS HORIZONTAL ASSEMBLYS PER SEC 711

SEC420.4 AUTOMATIC SPRINKLER SYSTEM REQUIRED FOR NEW R2 OCCUPANCIES

SEC 420.5 SMOKE DETECTION AND FIRE ALARM SYSTEM REQUIRED FOR NEW R2 OCCUPANCIES

CH. 5 GENERAL BUILDING HEIGHTS AND AREAS: EACH USE MEETS THE REQUIREMENT FOR AREA AND HEIGHT PER TABLE 503 AS SHOWN:

LEVEL	MERCANTILE		APARTMENTS		INCIDENTAL	
	EXIST	NEW	EXIST	NEW	EXIST	NEW
1	3,450	312				
2			3,450	0		
3			1,674	748	926	0
<b>BASEMT</b>						
<b>TOTAL AREA</b>	4,262		6,372			
<b>AREA</b>						
<b>HEIGHT</b>	8.8FT		26FT		N/A	

TABLE 503 ALLOWABLE AREA AND HEIGHT:  
STORIES 1+1+2 > 1      2+1+3 > 1      N/A  
AREA 9,000 > 4,262      7,000 > 6,372      N/A  
HEIGHT 60FT > 8.8      60FT > 26      N/A  
(Based on Type VB construction and sprinkler system)

ADDITIONAL INCREASES FOR FRONTAGE AND SPRINKLER APPLY PER SEC 506 BUT ARE NOT NEEDED TO MEET THE REQUIREMENTS

THE PROVISIONS OF SEC 507 UNLIMITED ARE DO NOT APPLY

SEC 508 MIXED USE AND OCCUPANCY: THE BUILDING IS A MIXED/SEPARATED BUILDING, THEREFORE, PER TABLE 508.4 THE PROVIDED SEPARATION OF 1 FROM R2 =1hr. (for sprinklered building) (See also sec. 420).

SEC. 509.1 INCIDENTAL USE  
BASEMENT BOILER < 400K BTU, SO NO SEPARATION REQ'D BUT WILL PROVIDE 1HR SEPARATION.

**CH.6 TYPE OF CONSTRUCTION IS TYPE V-B, THEREFORE THE FOLLOWING FIRE RATINGS OF ASSEMBLIES IS PROVIDED**

EXTERIOR WALLS - 0 HR  
INTERIOR WALLS - 0 HR  
RESIDENTIAL UNIT SEPARATION WALLS - 1 HR  
1ST FLR CEILING / 2ND FLOOR - 1 HR  
2ND FL CEILING / 3RD FLOOR - 1 HR  
ROOF - 0 HR  
EXIT STAIR ENCLOSURE - 1 HR  
AS NOTED ABOVE, CH.4 AND CH.7 REQUIRE ONLY A 1/2HR VERTICAL AND HORIZONTAL SEPARATIONS FOR R-2, BUT TABLE 508.4 REQUIRES A 1HR SEPARATION BETWEEN MERCANTILE AND R-2. WE HAVE PROVIDED ALL SEPARATIONS AS 1HR.

**CH. 7 FIRE & SMOKE PROTECTION FEATURES -**

SEC 708 FIRE PARTITIONS - AS STATED ABOVE,  
708.3 FIRE PARTITIONS SHALL BE MIN. 1/2hr. RATED FOR UNIT SEPARATION WALLS & CORRIDORS (for sprinklered building)

SEC 711 HORIZONTAL ASSEMBLYS SHALL BE MIN. 1/2hr. RATED FOR DWELLING/SLEEPING UNIT SEPARATIONS (for sprinklered building)

**CH. 8 INTERIOR FINISHES**

USE M, INTERIOR EXITS, STAIRS, RAMPS CLASS B  
OTHER = CLASS C  
USE R-2, CLASS C

**CH. 9 FIRE PROTECTION SYSTEMS -**

PER SEC 903.2.7, GROUP M DOES NOT REQUIRE A SPRINKLER SYSTEM, BUT TO HAVE A 1HR SEPARATION BETWEEN M, AND R-2, BUT PER TABLE 508.4, A NFPA3 SYSTEM IS USED.

AN NFPA3 SPRINKLER SYSTEM IS USED AT FIRST FLR PER SEC 903.3.1.1  
AN NFPA 13R SPRINKLER SYSTEM IS USED AT APARTMENTS PER SEC 903.3.1.2

FIRE PROTECTION - SMOKE ALARM SYSTEM PER CITY REGITS  
- FIRE ALARM SYSTE PER CITY REGITS  
CARBON MONOXIDE - AS REQUIRED BY CODE

**CH. 10 MEANS OF EGRESS -**

REFER TO IBC CH. 7, SEC. 705 MEANS OF EGRESS  
FIRST FLOOR HAS TWO EXISTING EXITS TO REMAIN IN ACCORDANCE WITH SEC. 705.4.1, WITH REVISIONS AND ADDED ADA RAMP

SECOND FLOOR TWO APARTMENTS EACH HAVE ONE EGRESS THAT LEADS DIRECTLY OUTSIDE VIA THE PROTECTED STAIRWAY IN ACCORDANCE WITH SEC 705.3.1.1.6

THIRD FLOOR (1) APARTMENT HAS AN INTERIOR STAIR TO THE SECOND FLOOR. ITS EGRESS AT THE SECOND FLOOR LEVEL LEADS DIRECTLY TO THE OUTSIDE VIA THE PROTECTED STAIRWAY. IN ACCORDANCE WITH SEC 705.3.1.1.6

SEC 705.5 EXIT DOORS FROM APARTMENTS TO STAIRWAY/CORRIDORS TO BE 1HR RATED AND BE SELF CLOSING PER SEC 705.5

ALL BEDROOMS IN THE APARTMENTS ARE PROVIDED WITH EGRESS WINDOWS

TRAVEL DISTANCE:  
SEC 705.6 MAX. DEAD END CORRIDOR = 70FT  
SEC 1014.3 COMMON PATH OF EGRESS TRAVEL =125FT  
SEC 1016.2 EXIT ACCESS TRAVEL DISTANCE = 250FT  
AT 1ST FLR MERCANTILE MAX TRAVEL DIST = 250FT AND COMMON PATH OF TRAVEL = 100FT

SEC. 705.7 MEANS OF EGRESS LIGHTING ARE PROVIDED  
SEC. 705.8 EXIT SIGNS ARE PROVIDED

SEC. 705.9 THE EXISTING EGRESS STAIR (TO REMAIN) WILL HAVE HANDRAILS ON BOTH SIDES AND 1HR RATED DOORS

EXISTING OUTSIDE DECKS AND STAIRS ARE CONSIDERED AS CONVENIENCE STAIRS AND NOT PART OF THE EGRESS REQUIREMENTS

**NFPA 101 CHAPTER 31 EXISTING APARTMENT BUILDINGS**

TRAVEL DISTANCE (sprinklered building)  
MAX. TRAVEL DIST WITHIN UNIT = 150FT  
MAX TRAVEL DIST FROM UNIT ENTR. TO EXIT =200FT  
AT 1ST FLR MERCANTILE MAX TRAVEL DIST = 250FT AND COMMON PATH OF TRAVEL = 100FT

CH. 312.4.6  
A SINGLE EXIT FROM THE APARTMENTS IS PERMITTED BY EXIT DOORS FROM APARTMENTS TO STAIRWAY TO BE 1HR RATED AND BE SELF CLOSING

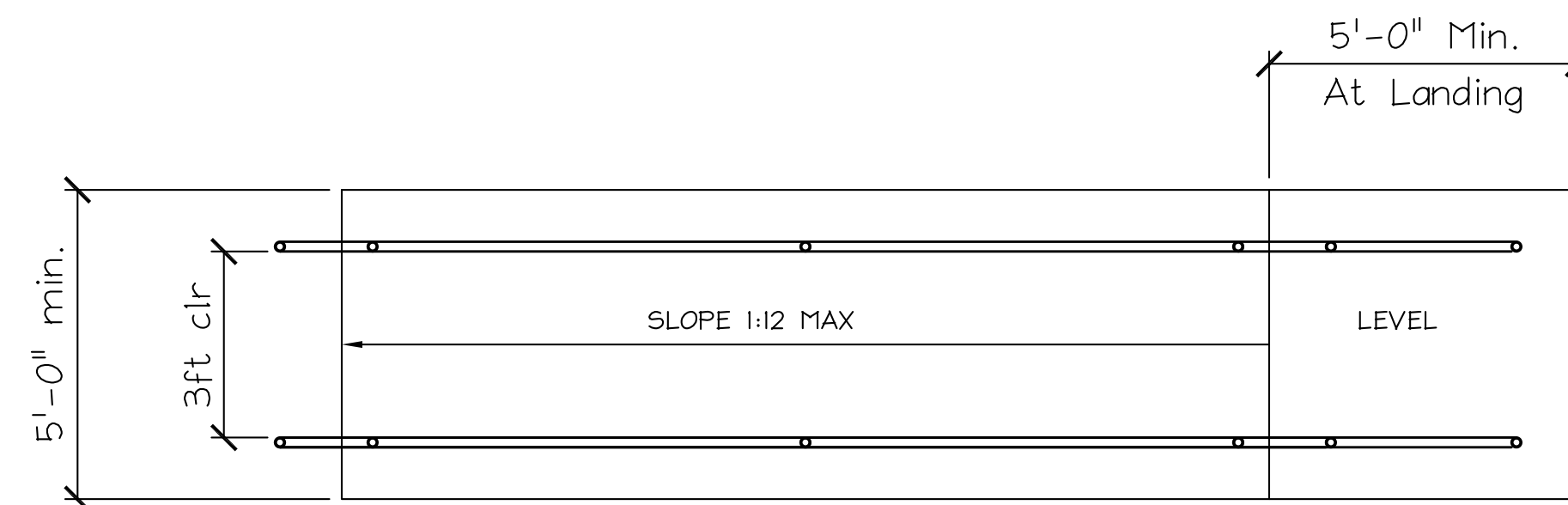
**ACCESSIBILITY NOTES:**

1. RENOVATED PORTIONS OF THIS FACILITY ARE GOVERNED BY FEDERAL AND STATE ACCESSIBILITY RULES SET FORTH IN 28 CFR PART 36 SECTIONS
2. LAVATORY, 34"HT. W/LEVER HANDLES, 15" WALL TO CENTER LINE, CLEAR AREA BELOW AS PER CH. 4.19 INSULATE HOT WATER AND DRAIN LINES TO PREVENT BURNING
3. MIRROR, 40" AFF AS PER CH. 4.19.8
4. WATER CLOSERS, 17"-19"HT, 18" WALL TO CENTER LINE, AS PER CH. 4.16
5. GRAB BARS, 36" AND 42", 1 1/2" DIA, 1 1/2" CLEAR FROM WALL, REAR BAR 36" L/6" FROM CORNER, SIDE BAR 42" L/12" FROM CORNER, AS PER CH. 4.16.4
6. RESERVED.
7. CUSTOMER COUNTERS 36"-42" HT, PROVIDE (1) 36" WIDE SECTION AT 34" HT WITH OPENING BELOW ON PUBLIC SIDE
8. TOILET PAPER DISPENSER 19" AFF AND 30" FROM BACK WALL
9. UNSEX TOILET ROOMS ARE GOVERNED BY FEDERAL AND STATE ACCESSIBILITY RULES SET FORTH IN 28 CFR PART 36 SECTIONS
10. ELECTRICAL OUTLETS AT 15" AFF / SWITCHES AT 34"AFF
11. PROVIDE MIN. CLEARANCE ON HANDLE SIDE OF ALL DOORS, 12" INSWING, 19" OUTSWING DOORS TO BE EQUIPPED WITH ADA HARDWARE AS PER SCHEDULE AND CH. 4.13, LOCKING DEVICES SHALL NOT REQUIRE KEYS / TOOLS / SPECIAL KNOWLEDGE TO OPEN FROM THE EGRESS SIDE.
12. MAIN ENTRY PAD, MIN. 5'Wx3'D, LEVEL w/ FIRST FLOOR
13. PROVIDE HC PARKING SPACES AND SIGN AS PER SITE PLAN BY OTHERS
14. PROVIDE ACCESSIBLE ROUTE FROM HC SPACES TO FRONT ENTRY, MIN. 36" WIDE, 1:20 MAX SLOPE AS PER CH. 4.6
16. EXISTING LIFE SAFETY DEVICES TO REMAIN UNO
17. ALL EXISTING AREAS OUTSIDE LIMIT OF CONSTRUCTION ARE GRANDFATHERED

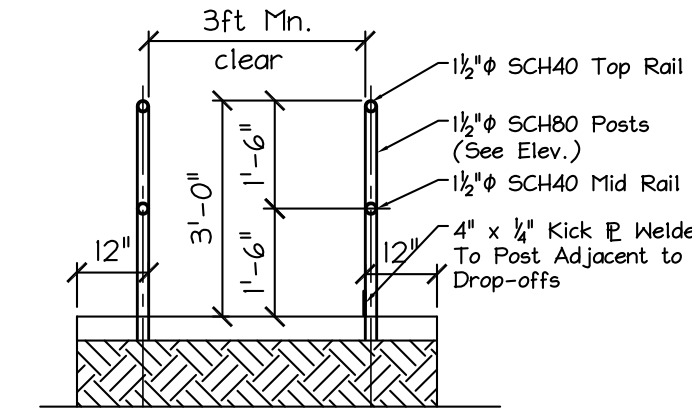
MSE/AA

# MORAN'S MARKET RENOVATIONS

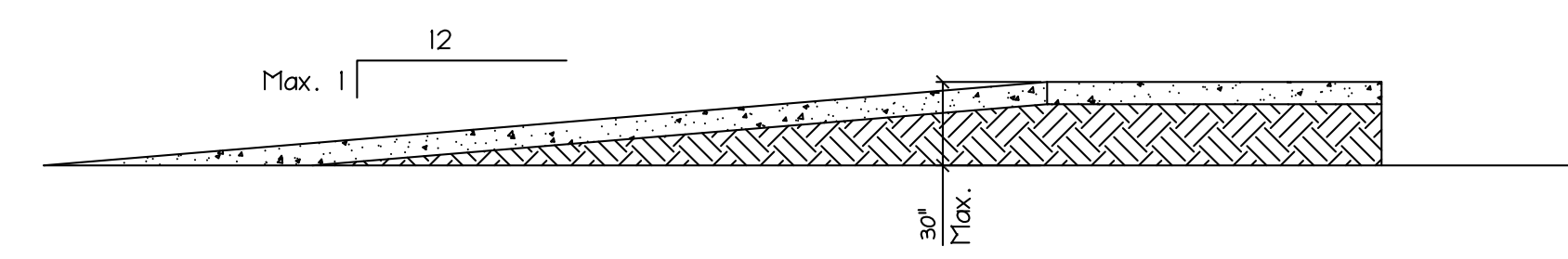
## 1576 FOREST AVE. PORTLAND, MAINE



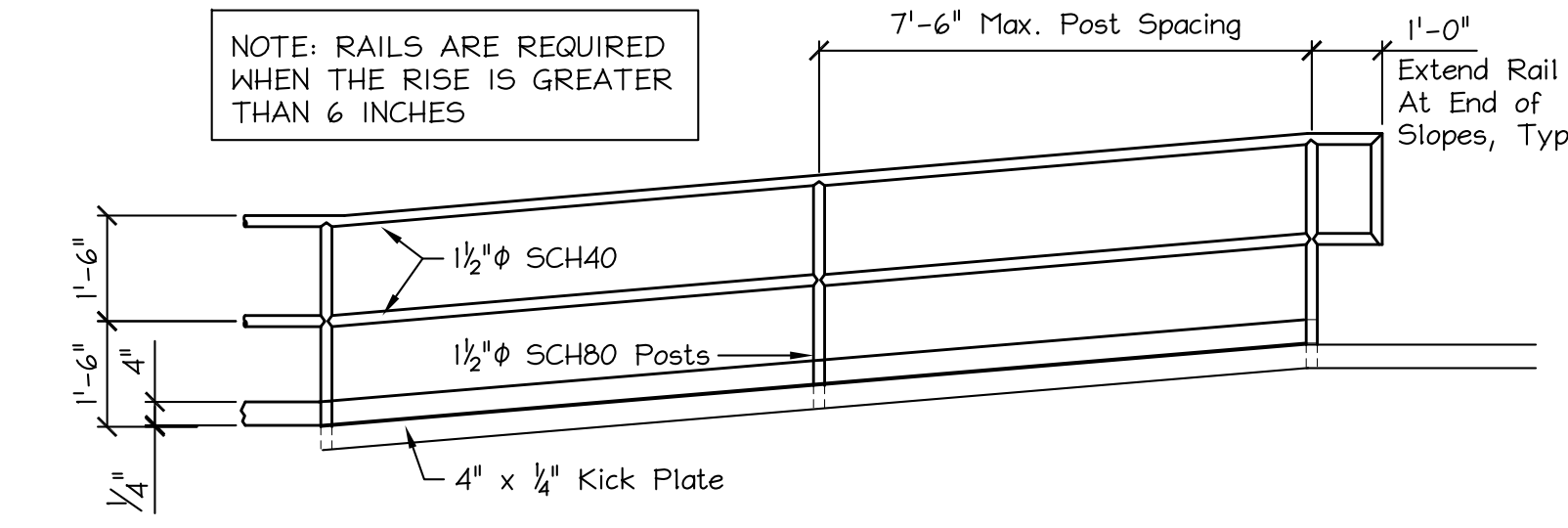
PLAN VIEW OF RAMP  
scale: 3/8"=1'-0"



CROSS SECTION VIEW OF RAMP  
scale: 3/8"=1'-0"

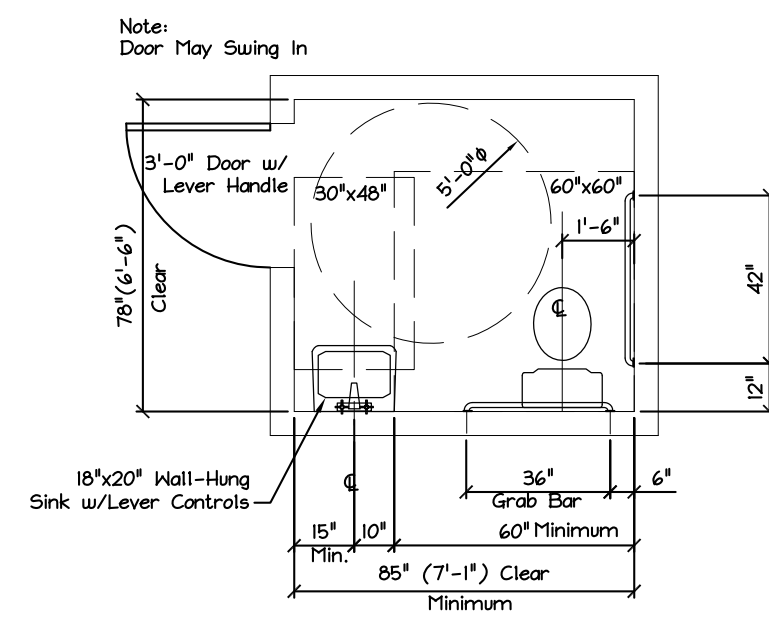


SECTION VIEW OF RAMP  
scale: 3/8"=1'-0"

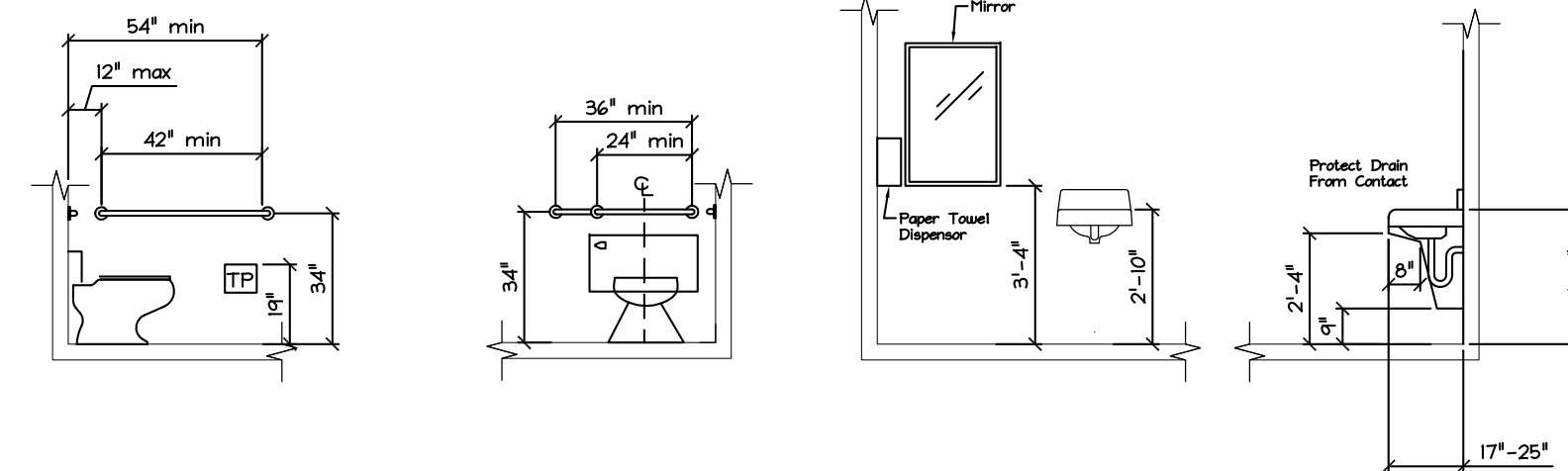


ELEVATION VIEW OF RAIL  
scale: 3/8"=1'-0"

**ACCESSIBLE RAMP DETAILS**  
N.T.S.



SAMPLE LAYOUT # 1  
N.T.S.  
FOR SINGLE USER TOILET ROOM



ELEVATION DIMENSIONS  
N.T.S.

**ACCESSIBLE RESTROOM DETAILS**  
N.T.S.

**GENERAL NOTES:**

1. THIS PLAN IS DESIGNED TO COMPLY WITH MAINE BUILDING AND ENERGY CODE, 2009 IBC, 2009 NFPA, ADA, 2009 IBC AND 2009 IECC
2. ALL OTHER CODES SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR
3. ALL MECHANICAL/PLUMBING/ELEVATRICAL DESIGN BY OTHERS
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING WORK

**ENERGY CODE STANDARDS: ZONE 6**

1. FENESTRATIONS - Windows, New: u-0.35, shg-0.38 exist. may remain  
- Doors, New: u-0.25 exist may remain
2. ROOF New -R49, Exist.- Fill Voids
3. EXTERIOR WALLS New -R21, Exist.- Fill Voids

**ENERGY CODE NOTES:**

1. ALL JOINTS AND PENETRATIONS SHALL BE CAULKED, GASKETED, OR COVERED WITH MOISTURE VAPOR-PERMEABLE WRAPPING MATERIAL
2. COMPONENT R-VALUES & U-FACTORS SHALL BE LABELED AS CERTIFIED
3. INSULATION SHALL BE INSTALLED ACCORDING TO MFRS. INSTRUCTIONS, AND IN A MANNER THAT ACHIEVES THE REQ'D R-VALUE
4. STAIR, ELEVATOR SHAFT VENTS, AND OTHER OUTDOOR INTAKE AND EXHAUST OPENINGS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS.
5. RECESSED LIGHTING FIXTURES INSTALLED IN THE BUILDING ENVELOPE SHALL BE TRYPE IC RATED AS MEETING ASTM E283, AND SEALED OR CAULKED.

**ARCHITECTURAL SPECIFICATIONS:**

FLOOR SYSTEM:  
Existing Joists & Subfloor  
Additional Framing As Indicated  
3/4" T&G Advantech Subflooring At New

EXTERIOR WALLS:  
2x Studs @ 16"oc  
Zip Wall Sheathing (3/8")  
Siding/Finish as Indicated

INTERIOR WALLS:  
2x4 Studs @ 16"oc  
1/2" Gypboard as Indicated

ROOF SYSTEM:  
Trusses/Rafters as Indicated  
Sheathing as Indicated (5/8")  
15# Underlayment  
Ice & Water Shield at Eaves/Valleys  
235# Architectural Asphalt Shingles as Indicated

INSULATION:  
Refer to Energy Codes Notes

VENTILATION:  
Soffit - 2"Contin. Strip  
Ridges - Contin. Shingle  
Circulation Vents Between Trusses

BEAMS/HEADERS:  
As Noted

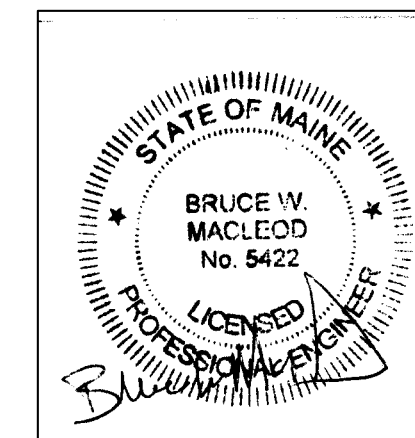
INTERIOR FINISHES:  
1/2" Gypboard or As Indicated  
At Walls/Ceilings  
Flooring As Indicated  
Paint/Stain As Indicated

Note: Items not Indicated Shall be Per Contract/Developer and Applicable Codes

ISSUED FOR PERMIT 1/27/17  
PLANS HAVE BEEN REVISED PER CITY REVIEW COMMENTS

**DRAWING LIST:**

- A0.1 COVER SHEET
- A0.2 EXISTING PLANS
- L50 LIFE SAFETY PLAN
- L52 FIRE BLOCKING/PENETRATION
- A1.0 1ST FLOOR PLAN
- A1.1 2ND FLOOR PLAN
- A1.2 3RD FLOOR PLAN
- A1.3 ROOF PLAN
- A2.0 ELEVATIONS
- A2.1 ELEVATIONS
- A3.0 BLDG SECTIONS
- A3.1 BLDG SECTIONS
- A3.2 BLDG SECTIONS
- FF1 STORE FIXTURE PLAN
- S0.1 NOTES
- SI.0 FOUNDATION PLAN
- SI.1 FOUNDATION DETAILS
- S2.0 FRAMING PLANS



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Moran's Market Renovation 1576 Forest Ave. Portland, Maine		
TITLE: Cover Sheet		
DATE: 10/25/16	DRAWN BY: BIM	DRAWING NUMBER: A-0.1
SCALE: as noted	PROJ NO: 2016-070	