

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 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 2009 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 310.1 (2) APARTMENTS
THIRD FLOOR - RESIDENTIAL (R2) SEC 310.1 (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 704

SEC 420.3 FLOORS SEPARATING UNITS SHALL BE CONSTRUCTED AS HORIZONTAL ASSEMBLYS PER SEC 712

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			3,950	0		
3			1,674	748		
BASEMT					9%	0
TOTAL AREA	4,262		6,372			
HEIGHT	0.8FT		26FT		N/A	

TABLE 503 ALLOWABLE AREA AND HEIGHT:
STORIES 1+1/2 > 1 2+1/3 > 1 N/A
AREA 1,000 > 4,26 7,000 > 6,372 N/A
HEIGHT 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 11 FROM R2 -HR. (for sprinklered building) (See also sec. 420).

SEC. 508.2.5 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 ASSEMBLYS 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 704 FIRE PARTITIONS - AS STATED ABOVE,
704.3 FIRE PARTITIONS SHALL BE MIN. 1/2HR RATED FOR UNIT SEPARATION WALLS & CORRIDORS (for sprinklered building) AND SHALL HAVE CONTINUITY PER 704.4

SEC 712 HORIZONTAL ASSEMBLYS SHALL BE MIN. 1/2HR. RATED FOR DWELLING/SLEEPING UNIT SEPARATIONS (for sprinklered building) AND HAVE CONTINUITY PER 712.4

CH. 8 INTERIOR FINISHES REF. TABLE 803.9

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 NFPA13 SYSTEM IS USED.

AN NFPA13 SPRINKLER SYSTEM IS USED AT FIRST FLR PER SEC 903.3.1.1 (TO BE DESIGNED BY A QUALIFIED PERSON)
AN NFPA 13 SPRINKLER SYSTEM IS USED AT APARTMENTS PER SEC 903.3.2.8 (TO BE DESIGNED BY A QUALIFIED PERSON)

FIRE ALARM AND DETECTION -
FIRE DETECTION - M, PER SECT 907.2.7
- R-2, PER 907.2.9
MAX. TRAVEL DIST WITHIN UNIT = 125FT
MAX TRAVEL DIST FROM INT. ENTR. TO EXIT =200FT
AT 1ST FLR MERCANTILE MAX TRAVEL DIST = 250FT AND COMMON PATH OF TRAVEL = 100FT

CH. 10 MEANS OF EGRESS

NOTE: FOR ALL CODE REFERENCES BELOW REFER TO IBC CH. 7, SEC. 705 MEANS OF EGRESS UNLESS NOTED OTHERWISE

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
IBC SEC 1014.3 COMMON PATH OF EGRESS TRAVEL =125FT
IBC 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 ALL EXISTING DECKS ARE UNALTERED

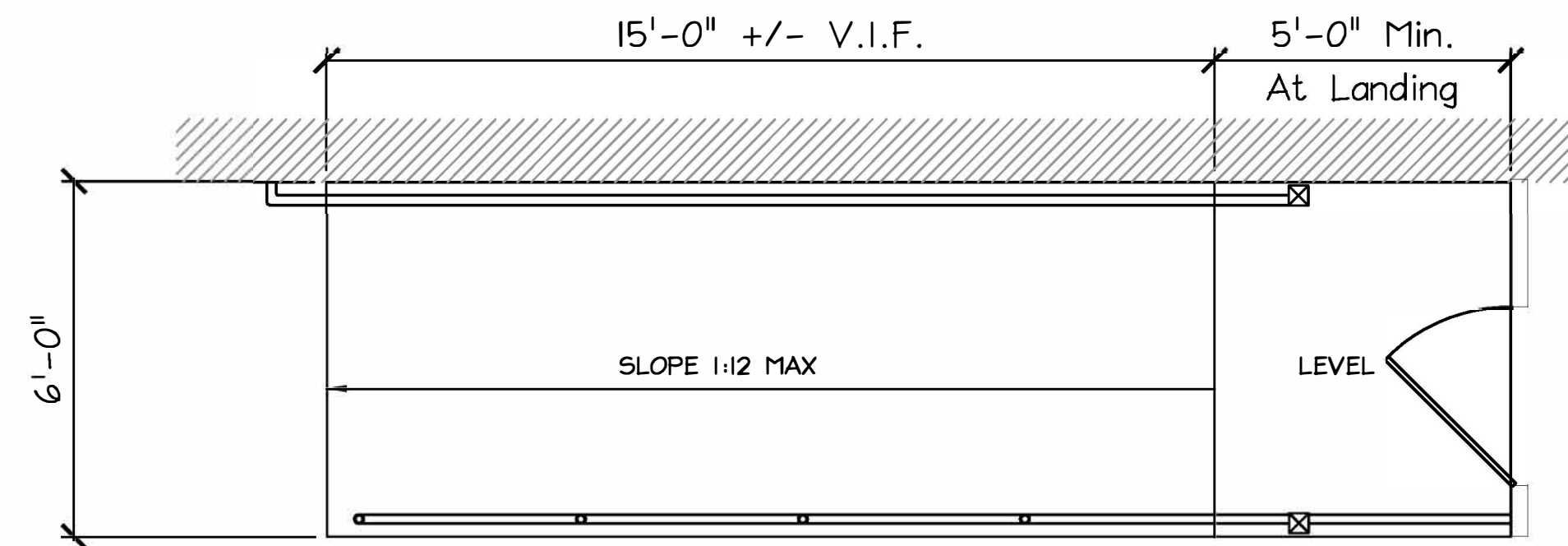
NEPA 101 CHAPTER 31 EXISTING APARTMENT BUILDINGS

TRAVEL DISTANCE: (sprinklered building)
MAX. TRAVEL DIST WITHIN UNIT = 125FT
MAX TRAVEL DIST FROM INT. ENTR. TO EXIT =200FT
AT 1ST FLR MERCANTILE MAX TRAVEL DIST = 250FT AND COMMON PATH OF TRAVEL = 100FT

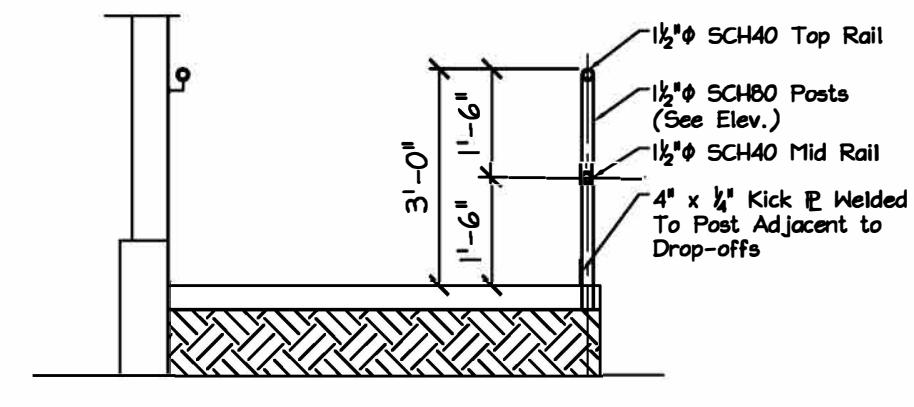
CH. 31.2.4.6
A SINGLE EXIT FROM THE APARTMENTS IS PERMITTED BY EXIT DOORS FROM APARTMENTS TO STAIRWAY TO BE 1HR RATED AND BE SELF CLOSING

MORAN'S MARKET RENOVATIONS

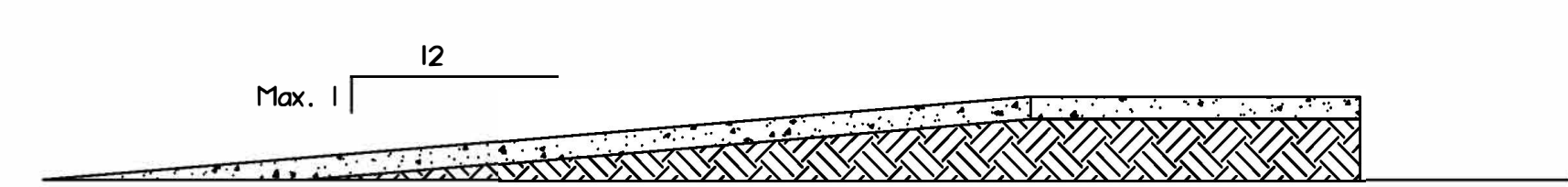
1576 FOREST AVE. PORTLAND, MAINE



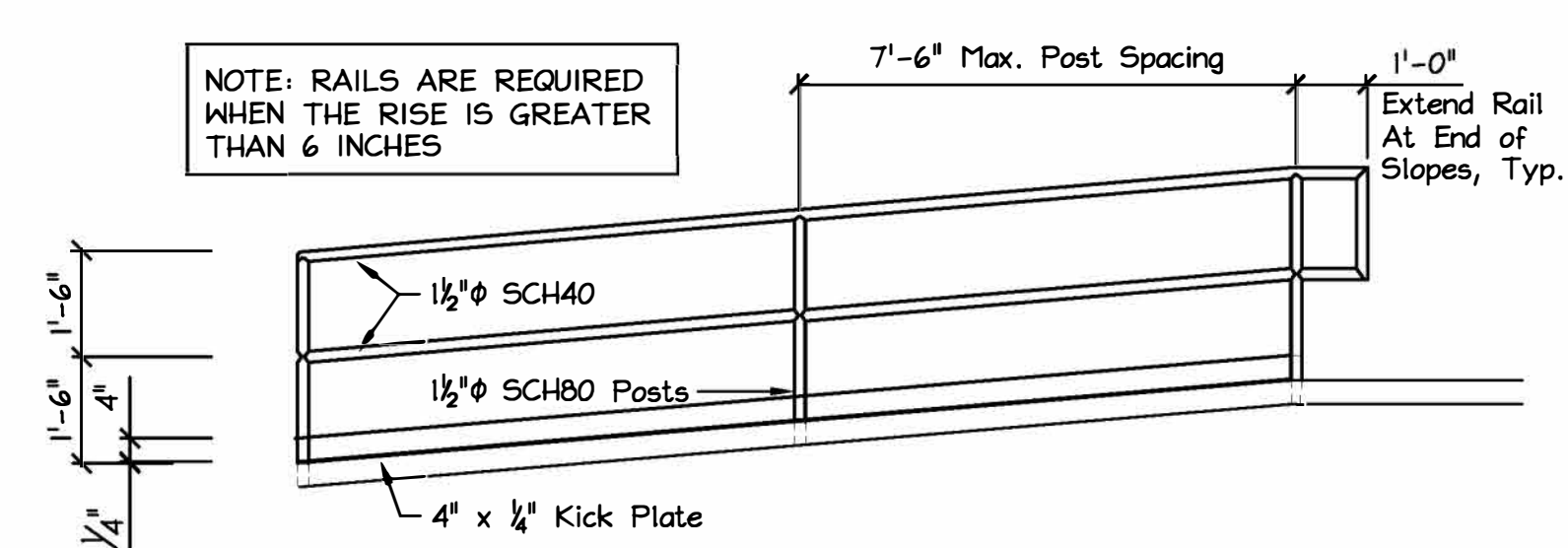
PLAN VIEW OF RAMP
scale: 3/8"=1'-0"



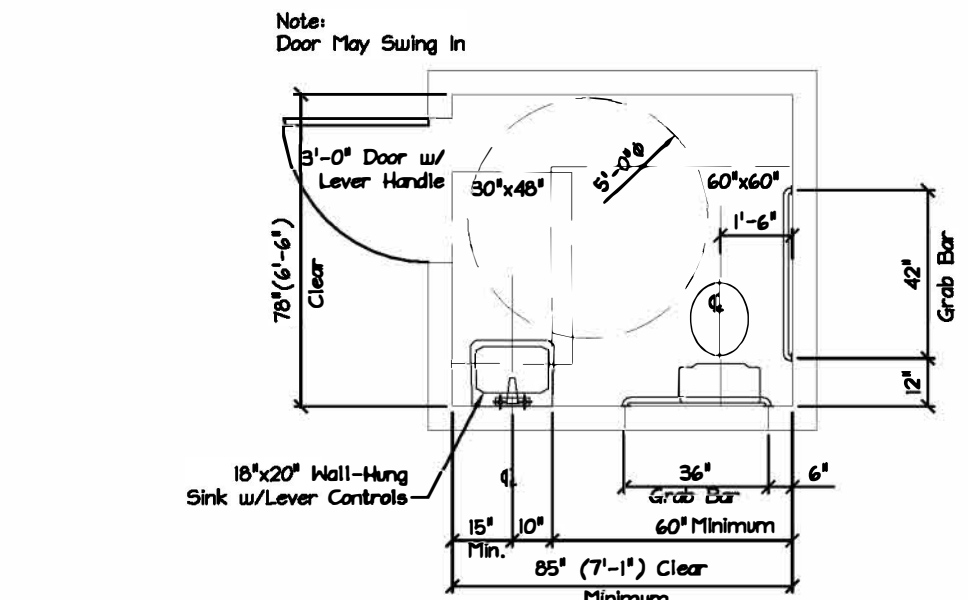
CROSS SECTION VIEW OF RAMP
scale: 3/8"=1'-0"



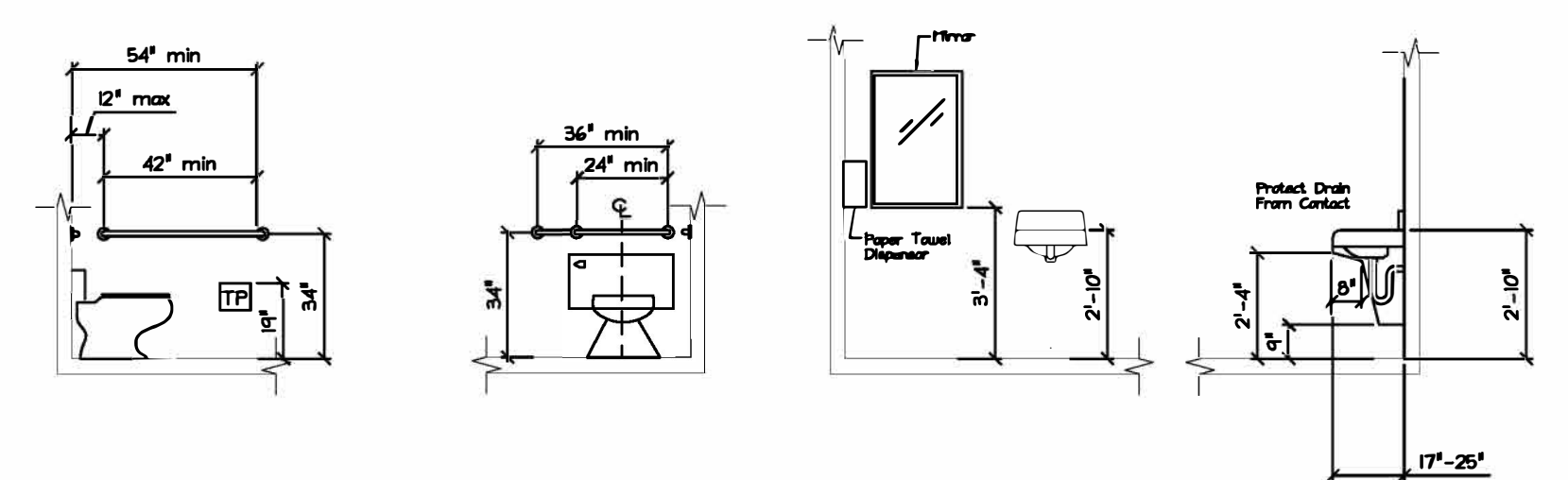
SECTION VIEW OF RAMP
scale: 3/8"=1'-0"



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



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



ELEVATION DIMENSIONS
N.T.S.

ACCESSIBLE RESTROOM DETAILS
N.T.S.

GENERAL NOTES:

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

ENERGY CODE STANDARDS: ZONE 6

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

ENERGY CODE NOTES:

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

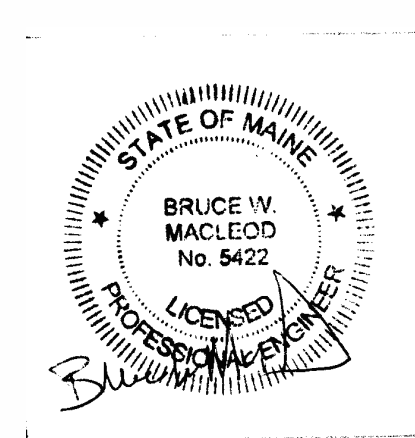
INTERIOR FINISHES:
1/2" Gypboard or As Indicated
At Walls/Ceilings
Flooring As Indicated
Paint/Stain As Indicated

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

ISSUED FOR PERMIT 2/2/17
PLANS HAVE BEEN REVISSED PER CITY REVIEW COMMENTS

DRAWING LIST.

A0.1	COVER SHEET
A0.2	EXISTING PLANS
LS1	LIFE SAFETY PLAN
LS2	FIRE BLOCKING/PENETRATION
A1.0	1ST FLR & BASEMT PLANS
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
FP1	STORE FIXTURE PLAN
SO.1	NOTES
SI.0	FOUNDATION PLAN
SI.1	FOUNDATION DETAILS
SI.2	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