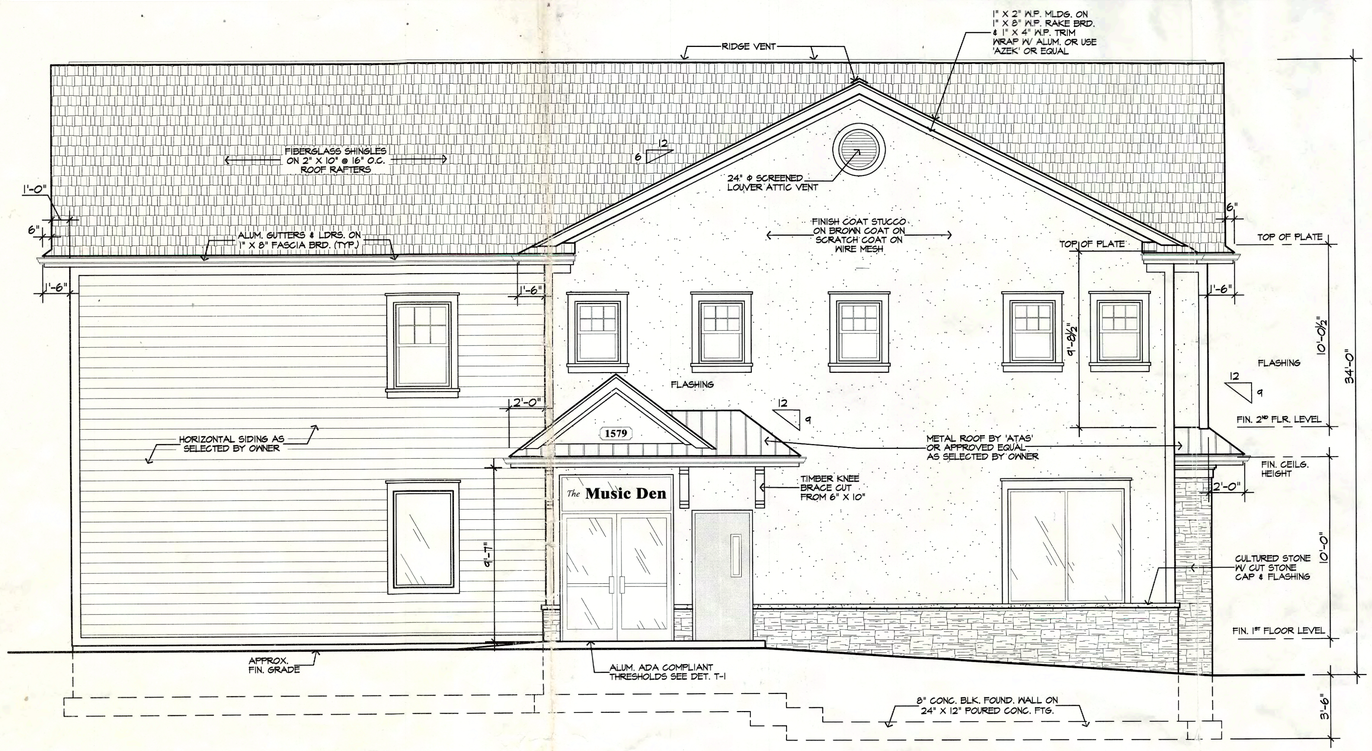
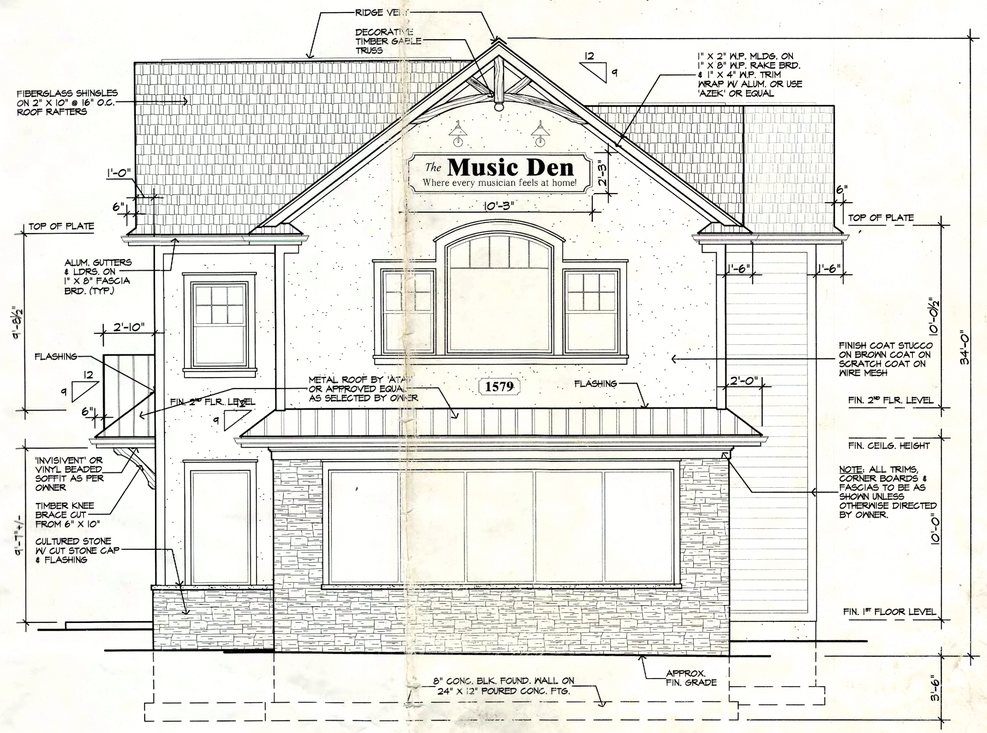


LEFT SIDE ELEVATION

SCALE: 1/4" = 1'-0"



FRONT ELEVATION

SCALE: 1/4" = 1'-0"

NOTE:
FULL 11 PAGE SIGNED & SEALED COMPLIANCE REPORT TO BE SUBMITTED SEPARATELY.

COMcheck Software Version 4.1.1.0

Envelope Compliance Certificate

Project Information

Energy Code:	90.1 (2013) Standard
Project Title:	New Building
Location:	West Milford, New Jersey
Climate Zone:	5a
Project Type:	New Construction
Vertical Glazing / Wall Area:	11%
Performance Sim. Specs:	EnergyPlus 8.1.0.009 (EPW: USA_PA_Wilkes-Barre-Scranton.Intl.AP.725130_TMY3.epw)

Construction Site:
1856 Route 23 North
West Milford, NJ 07480

Owner/Agent:
The Music Den
NJ

Designer/Contractor:
Brian Murphy Architect, LLC
35 Charcoal Road
Newfoundland, NJ 07435
973-697-8557
brian@brianmurphyarchitect.com

Building Area

	Floor Area
1-Retail : Nonresidential	3754

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor[a]
Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - Retail] : Comment:	1371	38.0	0.0	0.027	0.021
Roof 3: Attic Roof with Wood Joists, [Bldg. Use 1 - Retail] : Comment:	514	30.0	0.0	0.034	0.021
Floor 1: Slab-On-Grade:Unheated, Vertical 2 ft., [Bldg. Use 1 - Retail] Comment: (c)	200	---	10.0	0.540	0.520
Floor 2: Wood-Framed, [Bldg. Use 1 - Retail]	28	38.0	0.0	0.026	0.033
NORTH					
Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Retail]	807	32.0	0.0	0.052	0.051
Exterior Wall 5: Wood-Framed, 16" o.c., [Bldg. Use 1 - Retail]	55	38.0	0.0	0.048	0.051
EAST					
Exterior Wall 2: Wood-Framed, 16" o.c., [Bldg. Use 1 - Retail]	1386	32.0	0.0	0.052	0.051
Window 2: Wood Frame:Operable, Perf. Specs.: Product ID Andersen, SHGC 0.29, PF 0.22, VT 0.48, [Bldg. Use 1 - Retail] (b)	68	---	---	0.290	0.320
Window 3: Metal Frame:Fixed, Perf. Specs.: Product ID Kawneer Encore, SHGC 0.33, PF 0.08, VT 0.31, [Bldg. Use 1 - Retail] : Comment: (b)	104	---	---	0.340	0.420
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Retail] : Comment:	21	---	---	0.170	0.500
Exterior Wall 6: Wood-Framed, 16" o.c., [Bldg. Use 1 - Retail]	95	38.0	0.0	0.048	0.051
SOUTH					
Exterior Wall 3: Wood-Framed, 16" o.c., [Bldg. Use 1 - Retail]	807	32.0	0.0	0.052	0.051
Window 6: Wood Frame:Operable, Perf. Specs.: Product ID Andersen, SHGC 0.29, PF 0.22, VT 0.48, [Bldg. Use 1 - Retail] : Comment: (b)	41	---	---	0.290	0.320
Window 7: Metal Frame:Fixed, Perf. Specs.: Product ID Kawneer	121	---	---	0.340	0.420

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor[a]
Encore, SHGC 0.33, PF 0.08, VT 0.31, [Bldg. Use 1 - Retail] : Comment: (b)					
Window 8: Wood Frame:Fixed, Perf. Specs.: Product ID Andersen, SHGC 0.33, PF 0.11, VT 0.58, [Bldg. Use 1 - Retail] : Comment: (b)	39	---	---	0.280	0.320
Exterior Wall 7: Wood-Framed, 16" o.c., [Bldg. Use 1 - Retail]	55	38.0	0.0	0.048	0.051
WEST					
Exterior Wall 4: Wood-Framed, 16" o.c., [Bldg. Use 1 - Retail]	1285	32.0	0.0	0.052	0.051
Window 3 copy 1: Wood Frame:Operable, Perf. Specs.: Product ID Andersen, SHGC 0.29, PF 0.22, VT 0.48, [Bldg. Use 1 - Retail] : Comment: (b)	51	---	---	0.290	0.320
Window 2 copy 1: Metal Frame:Fixed, Perf. Specs.: Product ID Kawneer Encore, SHGC 0.33, PF 0.08, VT 0.31, [Bldg. Use 1 - Retail] : Comment: (b)	41	---	---	0.340	0.420
Door 2: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID Kawneer Encore, SHGC 0.33, PF 0.38, VT 0.31, [Bldg. Use 1 - Retail] : Comment: (b)	58	---	---	0.340	0.770
Door 3: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	21	---	---	0.170	0.500
Exterior Wall 8: Wood-Framed, 16" o.c., [Bldg. Use 1 - Retail]	95	38.0	0.0	0.048	0.051

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 0.4% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2013) Standard requirements in *COMcheck* Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

PROPOSED NEW STORE FOR:

The Music Den

Where every musician feels at home!

1856 STATE HIGHWAY ROUTE 23 NORTH
WEST MILFORD TWP., N.J. 07480

LIST OF DRAWINGS

A1 ENERGY CALCULATION, FRONT & LEFT SIDE ELEVATIONS, LIST OF CODES CONSTRUCTION DATA, INTERIOR FINISH REQUIREMENTS
A2 RIGHT SIDE & REAR ELEVATIONS, EXTERIOR FINISH DETAILS
A3 EXISTING FLOOR PLANS, STAIR DETAILS, SITE PLAN
A4 FOUNDATION PLAN, FOUNDATION DETAILS, PLUMBING RISER DIAGRAMS
A5 FIRST FLOOR PLAN, BARRIER FREE DETAILS, FIRE RATING DETAILS, TYPICAL INTERIOR TOILET ROOM ELEVATION
A6 SECOND FLOOR PLAN, DOOR SCHEDULE, ELEVATIONS, JAMB DETAILS, ETC.
A7 REFLECTED CEILING PLANS
A8 EGRESS & POWER PLANS, WINDOW SCHEDULE, ELEVATIONS & JAMB DETAILS FINISH SCHEDULE
A9 GENERAL NOTES, TYPICAL WALL SECTIONS

LIST OF CODES

2015 INTERNATIONAL BUILDING CODE, N.J. EDITION
2015 INTERNATIONAL MECHANICAL CODE
2014 NATIONAL ELECTRIC CODE
2015 NATIONAL STANDARD PLUMBING CODE
2015 INTERNATIONAL FUEL GAS CODE
ENERGY CODE ASHRAE 90.1-2013 COMMERCIAL
BARRIER FREE CODE ICC/ANSI A117.1-2009

INTERIOR WALL & FINISH REQUIREMENTS BY OCCUPANCY			
	NON-SPRINKLERED		
GROUP	EXIT ENCLOSURES AND EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
M	CLASS A	CLASS B	CLASS C

CLASS A: FLAME SPREAD 0-25; SMOKE-DEVELOPED 0-450
CLASS B: FLAME SPREAD 26-75; SMOKE-DEVELOPED 0-450
CLASS C: FLAME SPREAD 76-200; SMOKE-DEVELOPED 0-450

CONSTRUCTION DATA

CONSTRUCTION TYPE:	V b
CONSTRUCTION CLASS:	III
USE GROUP:	'M'
CONSTRUCTION VOLUME:	53,453 C.F.
1ST FLOOR AREA:	1,869 S.F.
2ND FLOOR AREA:	1,885 S.F.
TOTAL AREA:	3,754 S.F.
ADDED LAND AREA DISTURBED:	117 S.F
BUILDING HEIGHT:	34'-0"
OCCUPANCY: 'M' Use = 1 Person per 60 S.F.	
3,754 S.F. / 60 = 62.5 ≈ 62 Persons	

NOTE: FOR SITE PLAN SEE SHEET A3.

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N.J. Lic. No. 16618 N.Y. - Lic. No. 031811

REV.

PROPOSED RECONSTRUCTION AND ALTERATION OF EXISTING BUILDING FOR:
THE MUSIC DEN
1856 STATE HIGHWAY ROUTE 23 NORTH
WEST MILFORD TWP., PASSAIC COUNTY, N.J.

DATE: 12-11-18
SHEET: A1
LOT: 3 BLOCK: 13602 DRAWN BY: BPM JOB NO.: 18-51
1 OF 9