

Prepared For:
LAFAYETTE PROPERTIES, LLC
 155 LITTLEFIELD STREET
 BANGOR, MAINE 04401

Consultant:
Building Envelope Specialists
 P.O. BOX 289, SOUTH PORTLAND, MAINE 04116
 PHONE: 207.460.8888
 23 Thornbury Way
 Windham, ME 04092
 www.m2e.com
M2E STRUCTURAL ENGINEERING P.C.

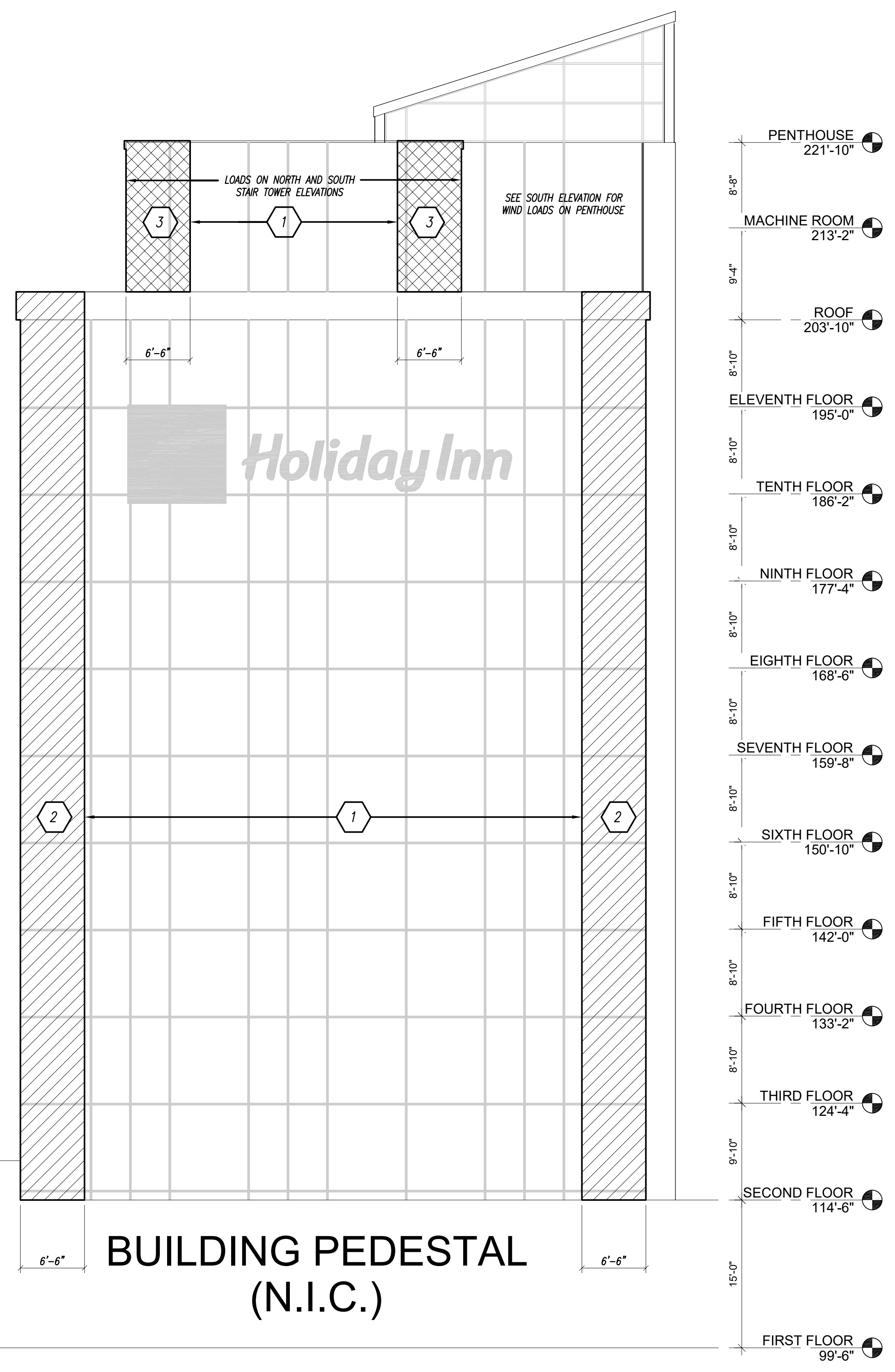
Architect:
ARCHETYPE architects
 48 Union Wharf Portland, Maine 04101
 (207) 772-6022 ARCHETYPE@ARCHETYPEPA.COM

Project:
Holiday Inn
 88 Spring Street
 Portland, ME

Revisions:

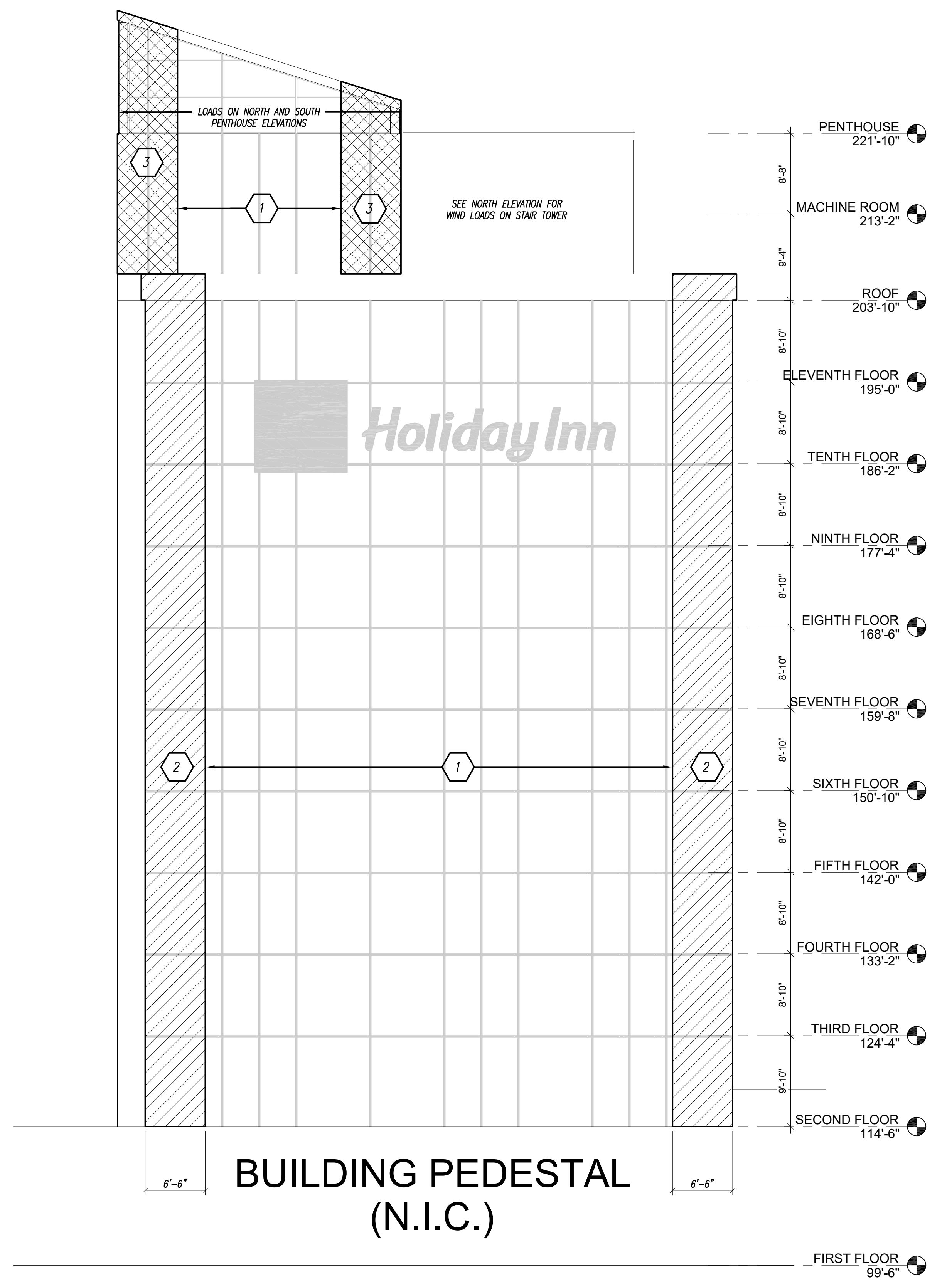
Date: JUNE 30, 2017
 Scale: NONE
DESIGN WIND LOADS NORTH AND SOUTH ELEVATIONS

S0.2



NORTH ELEVATION WIND LOADS

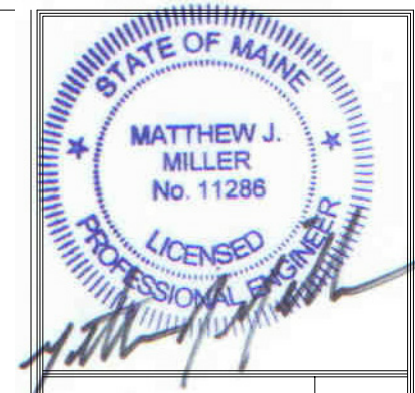
N.T.S.



SOUTH ELEVATION WIND LOADS

N.T.S.

ZONE	DESIGN WIND LOAD
1	37 PSF
2	66 PSF
3	67 PSF



Prepared For:
LAFAYETTE PROPERTIES, LLC
 155 LITTLEFIELD STREET
 BANGOR, MAINE 04401

Consultant:
Building Envelope Specialists
 23 Thornbury Way
 Windham, ME 04092
 PHONE: 207.460.8888
 WWW: m2se.com

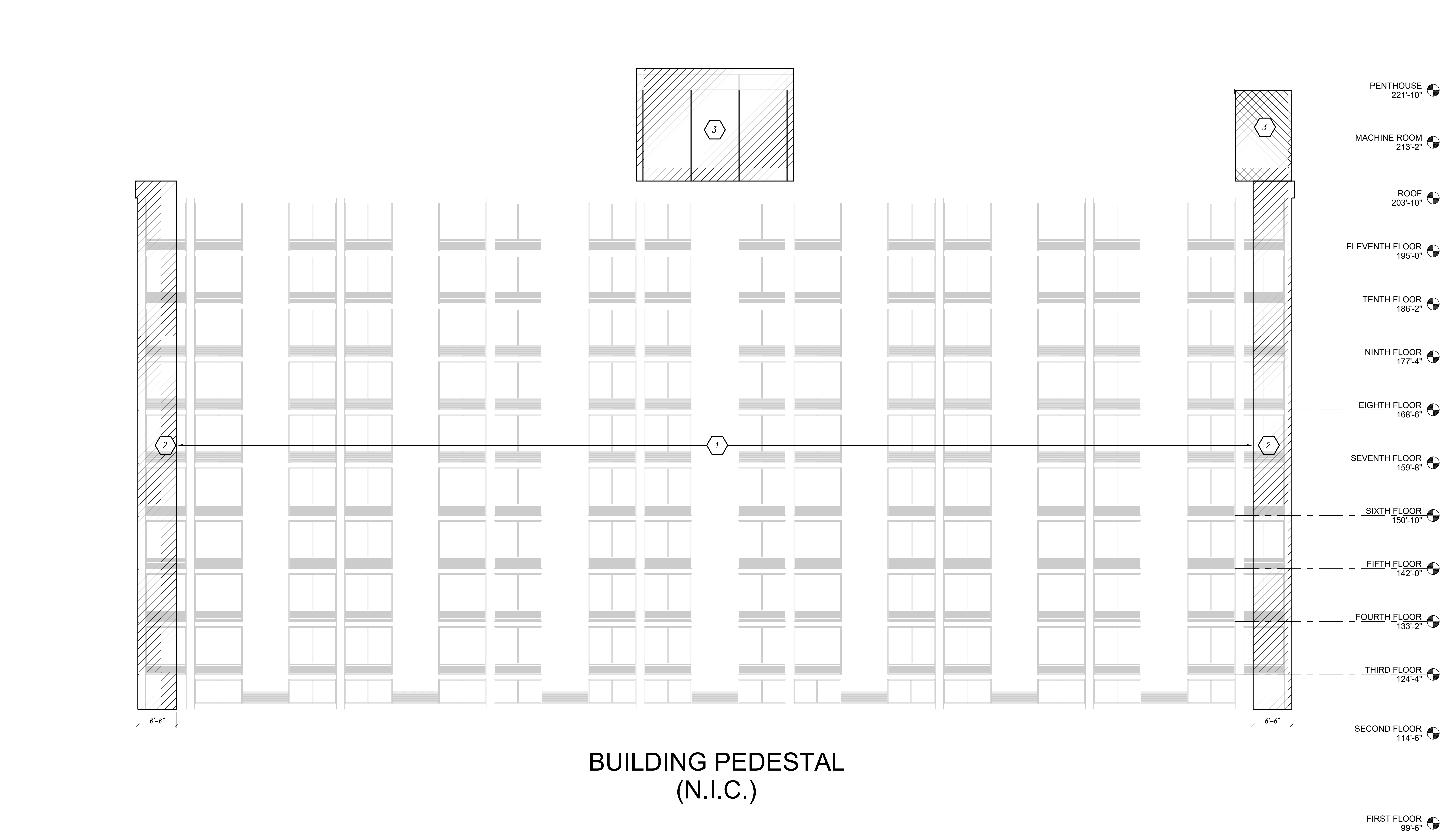
Architect:
ARCHETYPE architects
 48 Union Wharf Portland, Maine 04101
 (207) 772-6022 ARCHETYPE@ARCHETYPEPA.COM

Project:
Holiday Inn
 88 Spring Street
 Portland, ME

Revisions:

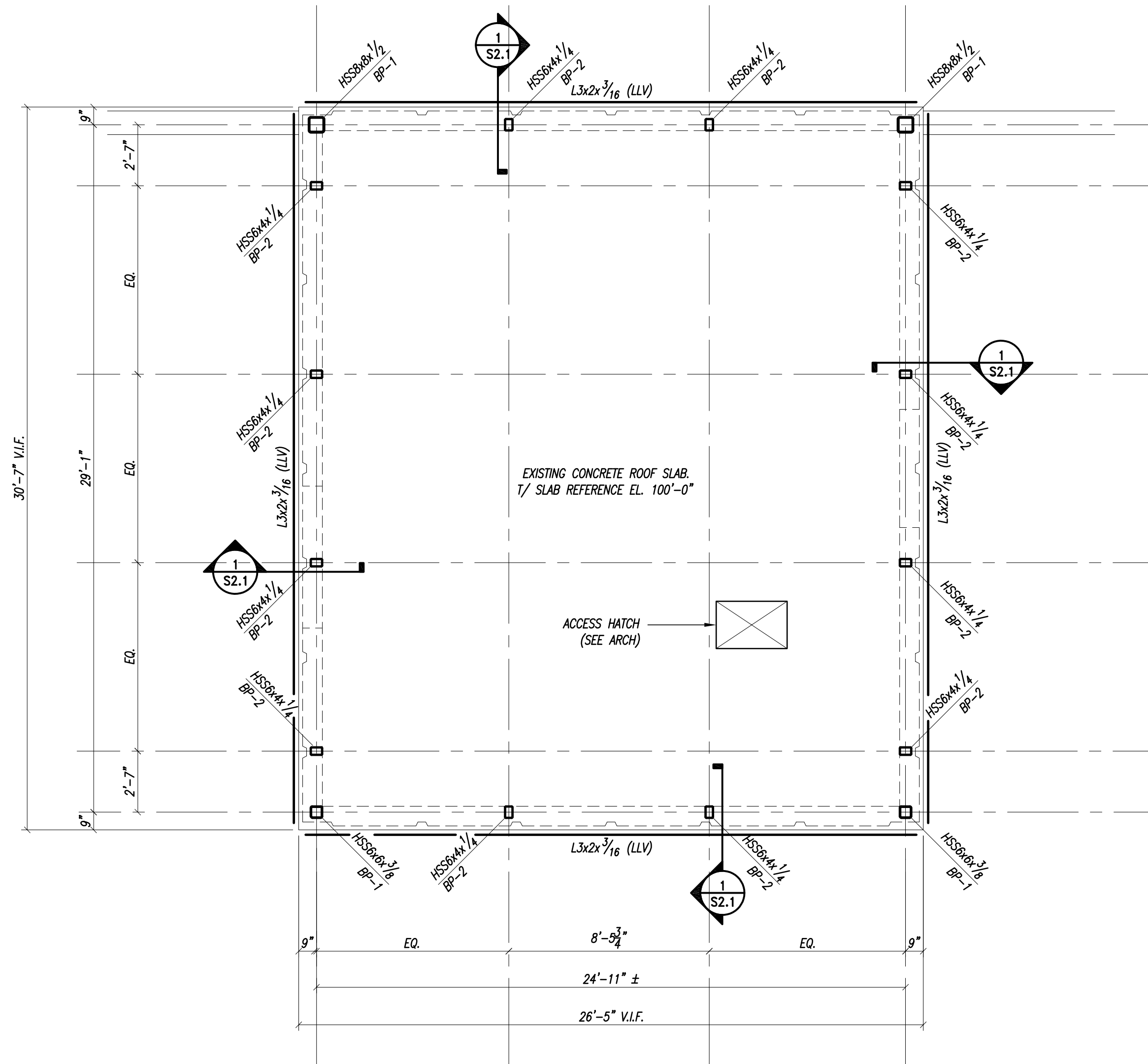
Date: JUNE 30, 2017
 Scale: NONE
DESIGN WIND LOADS WEST ELEVATION

S0.3



WEST ELEVATION WIND LOADS
 N.T.S.

ZONE	DESIGN WIND LOAD
1	37 PSF
2	66 PSF
3	67 PSF



EXISTING PENTHOUSE ROOF PLAN

1/4" = 1'-0"

PLAN NOTES

1. DIMENSIONS PROVIDED ARE BASED ON LIMITED FIELD MEASUREMENTS. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
2. BP-x INDICATES BASE PLATE MARK. SEE 2/S2.1 FOR DETAILS.

GENERAL NOTES

1. DETAILS SHOWN ON THESE DRAWINGS ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
2. BRACE BUILDING UNTIL STRUCTURAL ELEMENTS NECESSARY FOR STABILITY HAVE BEEN INSTALLED. THESE ELEMENTS INCLUDE: ROOF DECK, FLOOR DECK, BRACING MEMBERS, MOMENT CONNECTIONS, SHEAR WALLS, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCING TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION.
3. CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY PROPOSED CHANGES, DEVIATIONS OR SUBSTITUTIONS FROM DIMENSIONS, MATERIALS OR EQUIPMENT SHOWN ON THESE DRAWINGS AND MAKE ONLY THOSE CHANGES ACCEPTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION BETWEEN THE STRUCTURAL DRAWINGS AND THE DRAWINGS OF OTHER DISCIPLINES TO INCLUDE THE LOCATIONS AND DIMENSIONS OF OPENINGS, CHASSES, INSERTS, SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
5. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.

STRUCTURAL STEEL NOTES

SUBMITTALS FOR REVIEW

1. SHOP DRAWINGS: INDICATE PROFILES, SIZES, SPACING, LOCATIONS OF STRUCTURAL MEMBERS, DECKING, OPENINGS, ATTACHMENTS, AND FASTENERS. SHOW ALL CONNECTION DETAILS. PROVIDE DESIGN OF CONNECTIONS NOT DETAIL ON DRAWINGS. INDICATE WELDED CONNECTIONS WITH AWS A2.4 WELDING SYMBOLS. INDICATE NET WELD LENGTHS.

SUBMITTALS FOR INFORMATION

1. MANUFACTURER'S MILL CERTIFICATE: CERTIFY THAT PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS.
2. MILL TEST REPORTS: SUBMIT INDICATING STRUCTURAL STRENGTH, DESTRUCTIVE AND NON-DESTRUCTIVE TEST ANALYSIS.
3. WELDERS CERTIFICATES: CERTIFY WELDERS EMPLOYED ON THE WORK, VERIFYING AWS QUALIFICATION WITHIN THE PREVIOUS 12 MONTHS.

QUALITY ASSURANCE

1. FABRICATE STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE.
2. FABRICATOR AND ERECTOR: COMPANY SPECIALIZING IN PERFORMING THE WORK OF THIS SECTION WITH MINIMUM FIVE YEARS EXPERIENCE.

MATERIALS

1. STRUCTURAL STEEL WIDE FLANGE MEMBERS: ASTM A992
2. ANGLES, CHANNELS, PLATE AND OTHER HOT ROLLED SHAPES: ASTM A36
3. STRUCTURAL TUBING: ASTM A500, GRADE B.
4. BOLTS, NUTS, AND WASHERS: MINIMUM 3/4" DIAMETER ASTM A325 BOLTS, ASTM A563 NUTS WITH HARDENED WASHERS, GALVANIZED TO ASTM A153 FOR GALVANIZED STRUCTURAL MEMBERS. ASTM A490 BOLTS REQUIRED WHERE NOTED ON DRAWINGS.
5. ANCHOR BOLTS: ASTM A-307 FOR HEADED BOLT ASTM A-36 FOR THREADED ROD
6. WELDING MATERIALS: AWS D1.1; TYPE REQUIRED FOR MATERIALS BEING WELDED.

ERECTION

1. ALLOW FOR ERECTION LOADS, AND FOR SUFFICIENT TEMPORARY BRACING TO MAINTAIN STRUCTURE SAFE, PLUMB, AND IN TRUE ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRACING.
2. FIELD WELD COMPONENTS INDICATED ON DRAWINGS AND SHOP DRAWINGS.
3. DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT APPROVAL OF ARCHITECT/ENGINEER.
4. AFTER ERECTION, PRIME WELDS, ABRASIONS, AND SURFACES NOT SHOP PRIMED, EXCEPT SURFACES TO BE IN CONTACT WITH CONCRETE.

METAL DECK

GENERAL

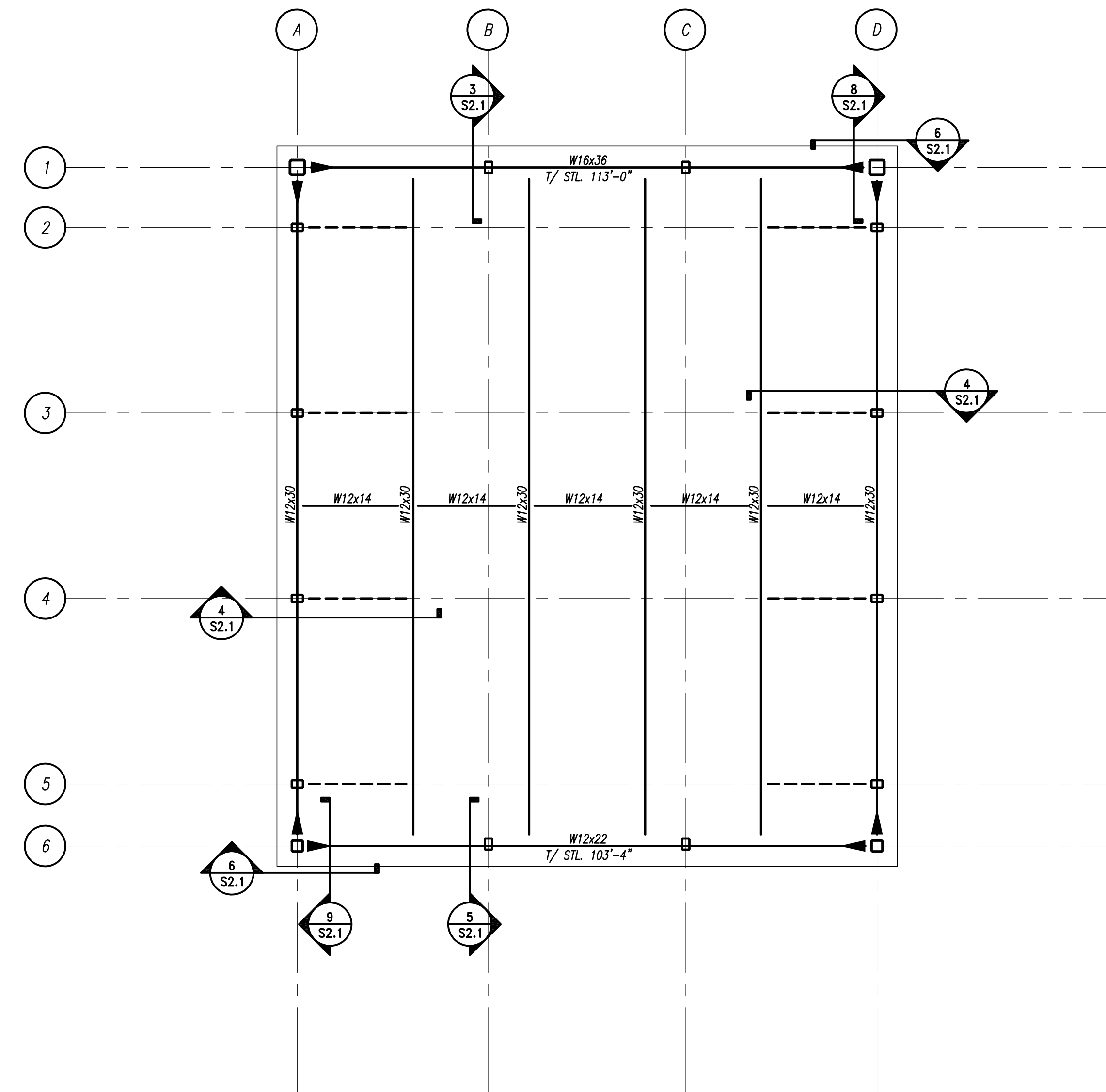
1. SHEET STEEL FOR DECK AND ACCESSORIES SHALL CONFORM TO ASTM A1008 WITH A MINIMUM YIELD STRENGTH OF 33 KSI.
2. ROOF DECK TYPES SHALL BE AS NOTED ON THE DRAWINGS.

SUBMITTALS FOR REVIEW

1. SUBMIT SHOP DRAWINGS FOR REVIEW. INCLUDE LAYOUT AND TYPES OF DECK PANELS, ANCHORAGE DETAILS, REINFORCING CHANNELS, PANS, CUT DECK OPENINGS, SPECIAL JOINING, ACCESSORIES, AND ATTACHMENTS TO OTHER CONSTRUCTION.

INSTALLATION

1. INSTALL DECK PANELS AND ACCESSORIES ACCORDING TO APPLICABLE SPECIFICATIONS AND COMMENTARY IN SDI PUBLICATION NO. 31, MANUFACTURER'S WRITTEN INSTRUCTION AND REQUIREMENTS IN THIS SECTION.
2. PLACE DECK PANELS ON SUPPORTING FRAME AND ADJUST TO FINAL POSITION WITH ENDS ACCURATELY ALIGNED AND BEARING ON SUPPORTING FRAME BEFORE BEING PERMANENTLY FASTENED. DO NOT STRETCH OR CONTRACT SIDE LAP INTERLOCKS.
3. PLACE DECK PANELS FLAT AND SQUARE AND FASTEN TO SUPPORTING FRAME WITHOUT WARP OF DEFLECTION.
4. CUT AND NEATLY FIT DECK PANELS AND ACCESSORIES AROUND OPENINGS AND OTHER WORK PROJECTING THROUGH OR ADJACENT TO THE DECK.
5. PROVIDE ADDITIONAL REINFORCING AND CLOSURE PIECES AT OPENINGS AS REQUIRED FOR STRENGTH, CONTINUITY OF DECK, AND SUPPORT OF OTHER WORK.
6. COMPLY WITH AWS REQUIREMENTS AND PROCEDURES FOR MANUAL SHIELDED METAL ARC WELDING, APPEARANCE AND QUALITY OF WELDS, AND METHODS USED FOR CORRECTING WELDING WORK.
7. MECHANICAL FASTENINGS MAY BE USED IN LIEU OF WELDING TO FASTEN DECK WITH PRIOR APPROVAL OF THE ENGINEER. LOCATE MECHANICAL FASTENERS AND INSTALL ACCORDING TO DECK MANUFACTURER'S WRITTEN INSTRUCTIONS.
8. INSTALL FINISH STRIPS, END CLOSURES AND REINFORCING CHANNELS ACCORDING TO DECK MANUFACTURER'S WRITTEN INSTRUCTIONS. WELD OR MECHANICALLY FASTEN TO SUBSTRATE TO PROVIDE A COMPLETE DECK INSTALLATION.
9. DECK SHALL BE CONTINUOUS OVER 3 SPANS, MINIMUM.
10. FASTEN DECK WITH A MINIMUM OF 3/8" PUDDLE WELDS SPACED IN A 36/4 PATTERN AND 2-#10 TEK SCREWS PER DECK SPAN. DECK WELDS AT PERIMETER SUPPORTS SHALL BE A 6" ON CENTER.



PENTHOUSE ROOF FRAMING PLAN

1/4" = 1'-0"

PLAN NOTES

1. SEE PLAN FOR TOP OF STEEL (UNDERSIDE OF DECK) ELEVATION. TOP OF STEEL ELEVATIONS ARE BASED ON REFERENCE ELEVATION 100'-0" AT TOP OF EXISTING CONCRETE ROOF SLAB.
2. METAL ROOF DECK SHALL BE 1 1/2", 20 GAGE, TYPE B, G90 GALV.

BASIS OF DESIGN

BUILDING CODE: 2009 INTERNATIONAL BUILDING CODE

DESIGN LOADS:

ROOF DEAD LOAD: 25 PSF
ROOF LIVE LOAD: SNOW LOAD GOVERNS

ROOF SNOW LOAD

GROUND SNOW LOAD, P_g: 50 PSF
SNOW EXPOSURE FACTOR, C_e: 1.0
SNOW LOAD IMPORTANCE FACTOR, I: 1.0
SNOW LOAD THERMAL FACTOR, C_t: 1.2

WIND LOAD:

WIND SPEED: 100 MPH
EXPOSURE: C

ABBREVIATIONS

(NOTE: NOT ALL ABBREVIATIONS ARE USED)

A.R.	ANCHOR ROD	LLV	LONG LEG VERTICAL
AF	ABOVE FINISHED FLOOR	LVL	LAMINATED VENEER LUMBER
AL	ALUMINUM	MAX	MAXIMUM
ARCH	ARCHITECT / ARCHITECTURAL	MIN	MINIMUM
B.O.	BOTTOM OF	NS	NEAR SCALE
BRG	BEARING	NTS	NOT TO SCALE
CL	CENTERLINE	OC	ON CENTER
C.J.	CONTROL / CONSTRUCTION JOINT	P#	PIER MARK
CMU	CONCRETE MASONRY UNIT	PL or R	PLATE
CONT	CONTINUOUS	PSF	POUNDS PER SQUARE FOOT
DN or #	DIAMETER	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	PT	PRESSURE TREATED
EF	EACH FACE	REINF.	REINFORCED / REINFORCING
ELEV	ELEVATION	SIM.	SIMILAR
EMBED	EMBEDMENT	STD.	STANDARD
ES	EACH SIDE	T/CONC	TOP OF CONCRETE
EW	EQUAL	T/PER	TOP OF PIER ELEVATION
EQ	EQUAL	T/SLAB	TOP OF SLAB ELEVATION
EX	EXISTING	T/STL	TOP OF STEEL ELEVATION
F#	FOOTING MARK	TOSH	TOP OF SHELF ELEVATION
FAS	FAR SIDE	TOW	TOP OF WALL ELEVATION
FTD	FOOTING	Typ.	TYPICAL
GALV	GALVANIZED	UNO	UNLESS NOTED OTHERWISE
LLH	LONG LEG HORIZONTAL	VIF	VERIFY IN FIELD
		W.P.	WORKING POINT

Prepared For:
LAFAYETTE PROPERTIES, LLC
155 LITTLEFIELD STREET
BANGOR, MAINE 04401

Consultant:
Building Envelope Specialists
PO BOX 2887 SOUTH PORTLAND, MAINE 04116
PHONE: 207.460.8888

Architect:
ARCHETYPE architects
48 Union Wharf Portland, Maine 04101
(207) 775-6022 ARCHETYPE@ARCHETYPEPA.COM

Project:
Holiday Inn
88 Spring Street
Portland, ME

Date: JUNE 30, 2017
Scale: AS NOTED
OVERSTORY FRAMING PLANS AND GENERAL NOTES

Revisions:

S1.1