

Foard

P A N E L
i n c o r p o r a t e d

P.O. Box 185 , West Chesterfield , NH 03466
(603) 256 - 8800

JOB TITLE: CLEMENTS-KING
LOCATION: 48 MERRILL STREET
PORTLAND, ME

PROJECT NOTES:

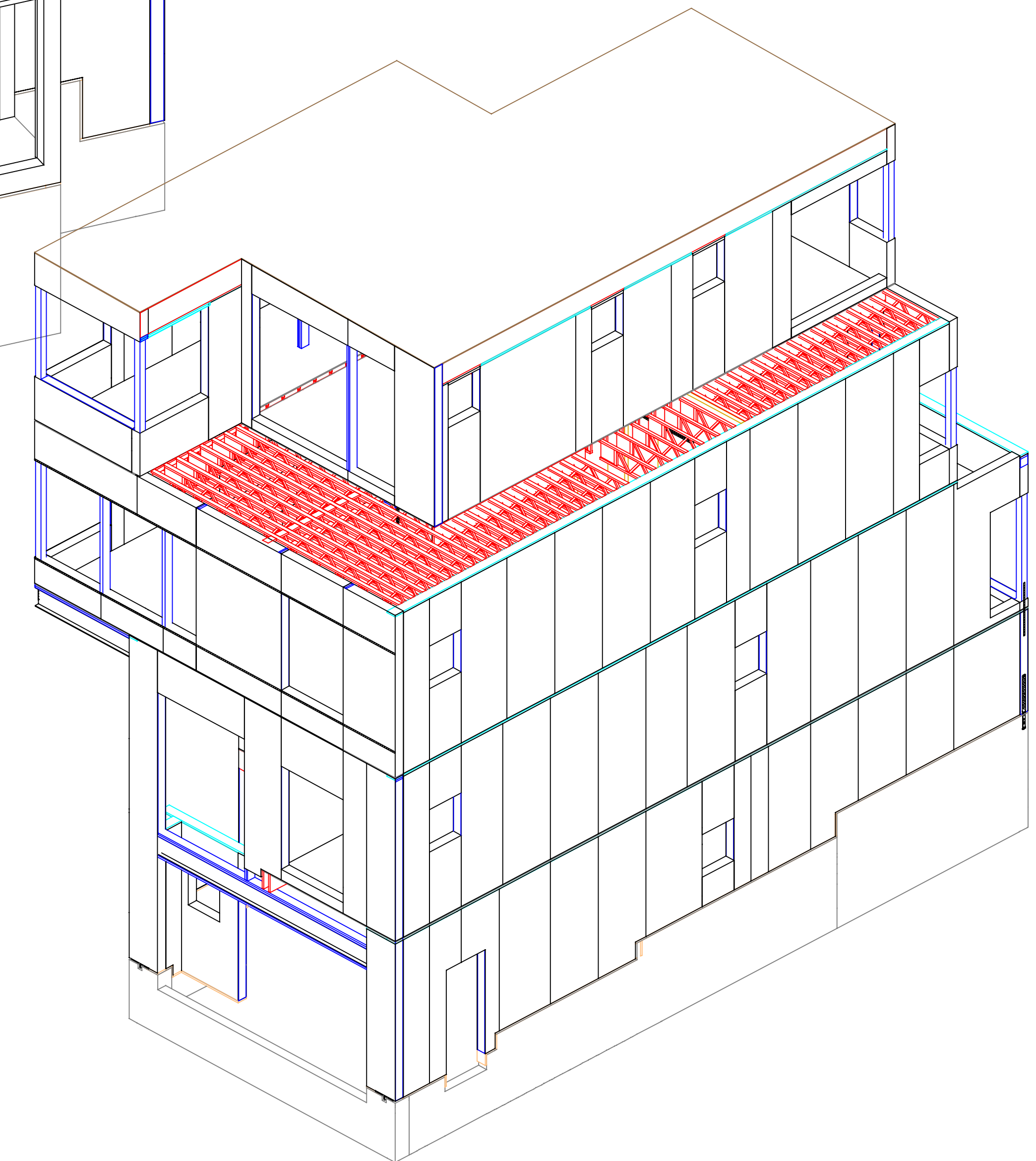
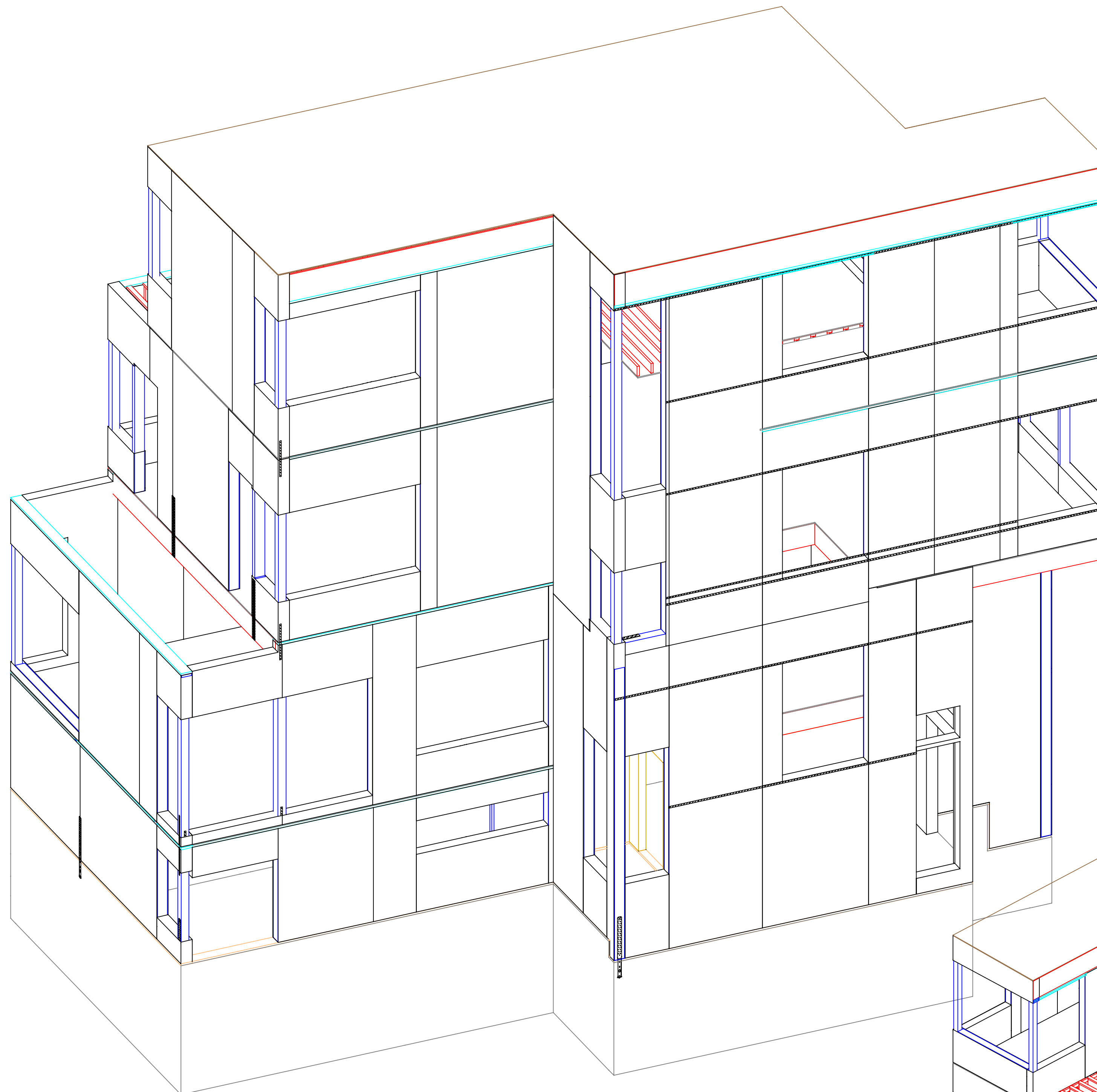
- ALL WALL PANELS ARE TO BE 8 1/2" EPS SIP.
- ALL PANELS ARE TO BE SHIPPED TO THE SITE PRE-CUT & ARE TO BE ASSEMBLED & INSTALLED BY OTHERS.
- ALL ENGINEERED MATERIAL & 2x'S SHOWN ON THESE PLANS ARE TO BE SUPPLIED BY OTHERS.

FPI GENERAL NOTES:

- ANY ENGINEERED MATERIAL SPECIFIED BY FPI MUST BE ASSEMBLED & INSTALLED ACCORDING TO THE MANUFACTURES SPECIFICATIONS.
- THE FOUNDATION, TRUSSES, STICK-BUILT AREAS AND TIMBER FRAME SYSTEMS ARE TO BE DESIGNED, ENGINEERED, SUPPLIED, AND INSTALLED BY OTHERS.
- WHEN STUFFING EXPOSED PANEL EDGES W/ 2x MATERIAL USE THE LONGEST CONT. LENGTH POSSIBLE #2 KD OR BETTER. BE SURE THAT 2x'S DO NOT BREAK WITHIN 16" OF PANEL JOINTS.
- ALL ROUGH OPENING BLOCKING MATERIAL STUFFED OR KEYED INTO PANEL MUST BE RUN CONTINUOUS.
- ALL PRODUCTS ARE TO BE AS SPECIFIED BY FPI OR AN EQUIVALENT SUBSTITUTE MAY BE USED.
- FOR QUESTIONS PLEASE CALL KEVIN B. AT FOARD PANEL INC. (1-800-644-8885)

ENGINEERING GENERAL NOTES:

- MATERIALS**
 - STRUCTURAL INSULATED PANEL (SIP) SYSTEM - A PRESSURE LAMINATED COMPOSITE PANEL USING APPROVED COMPONENTS IN ACCORDANCE WITH NIA LISTING REPORT FRD031609-25.
 - DIMENSION LUMBER FOR 2X BEARING WALLS AND FOR USE IN JOINING PANELS, PLATES, HEADERS AND SILLS: SPF #1/#2 (NLGA) KILN-DRIED, UNLESS NOTED OTHERWISE.
 - PRESERVATIVE TREATED LUMBER: SOUTHERN PINE NO. 2 AS GRADED BY SPIB. AWWA TREATMENT ACQ USING WATER BORNE PRESERVATIVE WITH 0.40 PERCENT RETAINAGE.
 - STRUCTURAL COMPOSITE LUMBER (SCL) SHALL MEET THE FOLLOWING MINIMUM DESIGN VALUES:
 - MODULUS OF ELASTICITY: 2,000,000 PSI
 - FLEXURAL STRESS: 2,600 PSI
 - TENSION STRESS: 1,555 PSI
 - COMPRESSION PERPENDICULAR TO GRAIN: 750 PSI
 - COMPRESSION PARALLEL TO GRAIN: 2,510 PSI
 - HORIZONTAL SHEAR PARALLEL TO GRAIN: 285 PSI
 - SPECIFIC GRAVITY: 0.50
 - FLOOR TRUSSES: TRIFORCE OPEN JOIST
 - FLOOR AND ROOF SHEATHING: APA RATED OR ADVANTECH SHEATHING, THICKNESS AS INDICATED, SPAN RATING AS REQUIRED TO SUIT SUPPORT SPACING INDICATED, EXPOSURE DURABILITY 1, TWO SPAN MINIMUM.
 - SUBFLOOR GLUE: APA AFG-01, WATERPROOF OF WATER SOLVENT BASE, AIR CURE TYPE, CARTRIDGE DISPENSED.
- FASTENERS**
 - COMMON NAILS: ASTM F1667
 - PANEL SCREWS: HEADLOK GIMLET THREAD POINT FASTENER
 - WOOD CONSTRUCTION CONNECTORS: BY SIMPSON STRONG-TIE UNLESS NOTED OTHERWISE. CONFORM TO MANUFACTURER'S COATING RECOMMENDATIONS.
 - BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED STEEL.
 - FASTENERS AND ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL OR STEEL HOT DIP GALVANIZED TO G-185.
- EXECUTION**
 - ENSURE SURFACES TO RECEIVE PANELS ARE STRUCTURALLY SOUND, EVEN, SMOOTH, CLEAN, DRY AND FREE FROM DEFECTS DETRIMENTAL TO WORK PRIOR TO INSTALLATION.
 - DO NOT INSTALL COMPONENT PARTS THAT ARE OBSERVED TO BE DEFECTIVE, INCLUDING WARPED, BOWED, DENTED AND BROKEN MEMBERS.
 - ALLOW FOR ERECTION LOADS AND FOR SUFFICIENT TEMPORARY BRACING TO MAINTAIN STRUCTURE SAFE. PLUMB, HELD DOWN AND IN TRUE ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRACING, SHEAR WALLS AND DIAPHRAGMS.
 - SIPS SHALL BE KEPT DRY AND PROTECTED WITH WATERPROOF COVERING DURING TRANSPORTATION AND STORAGE.
 - TAKE CARE IN HANDLING SIPS TO PREVENT DELAMINATION. DO NOT LIFT PANELS BY THE TOP SKIN.
 - CONSTRUCT LOAD BEARING FRAMING, STRUCTURAL SPLINES, KING STUDS, HEADERS CONTINUOUS FULL LENGTH WITHOUT SPLICES.
 - ALL POSTS AND COLUMNS FROM HEADERS AND BEAMS SHALL BEAR CONTINUOUSLY TO CONCRETE FOUNDATIONS INCLUDING SOLID BLOCKING IN FLOOR AND ROOF SPACES. SUPPORTING FRAMING AND FOUNDATION SHALL BE ADEQUATE TO SUPPORT THE REQUIRED LOADING.
 - PROVIDE AND INSTALL WEATHER-TIGHT WALL AND ROOF PROTECTION IN A TIMELY FASHION TO AVOID WATER AND WEATHER DAMAGE.
 - DO NOT OVERCUT SIP SKINS AT OPENINGS.
 - DO NOT FIELD CUT PANEL SKINS WITHOUT APPROVAL FROM SIP MANUFACTURER AND ENGINEER. PLUMBING SHALL NOT BE LOCATED WITHIN SIPS WITHOUT APPROVAL FROM SIP MANUFACTURER AND ENGINEER.
 - DO NOT INSTALL SIPS SO THAT THEY ARE IN CONTACT WITH CONCRETE OR OTHER POROUS MATERIALS. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE PRESURE TREATED.
 - ALL STUD BEARING WALLS SHALL BE BLOCKED AT 4'-0" ON CENTER VERTICALLY, U.N.O.
 - FILL ALL FASTENER HOLES IN WOOD CONSTRUCTION CONNECTORS WITH MANUFACTURER'S RECOMMENDED FASTENER.
 - CONNECTION OF MULTIPLE PLY ENGINEERED WOOD BEAMS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS, U.N.O.
 - FOLLOW PREFABRICATED WOOD JOIST MANUFACTURER RECOMMENDATIONS.



DESIGN CRITERIA:

- DEAD LOAD
 - ROOF DEAD LOAD: 15 PSF
 - FLOOR DEAD LOAD: 15 PSF
- LIVE LOAD
 - ROOF LIVE LOAD: SNOW LOAD GOVERNS
 - FLOOR LIVE LOAD, TYPICAL: 40 PSF
 - FLOOR LIVE LOAD, SLEEPING AREAS: 30 PSF
- SNOW LOAD
 - GROUND SNOW LOAD: 60 PSF
 - SNOW EXPOSURE FACTOR: 1.0
 - SNOW THERMAL FACTOR: 1.0
 - SNOW IMPORTANCE FACTOR: 1.0
 - FLAT ROOF SNOW LOAD: 42 PSF
 - DRIFTING SNOW LOADS HAVE BEEN INCLUDED IN ACCORDANCE WITH ASCE 7-05.
- WIND LOAD
 - BASIC WIND SPEED: 100 MPH
 - WIND IMPORTANCE FACTOR: 1.0
 - WIND EXPOSURE CATEGORY: C
 - INTERNAL PRESSURE COEFFICIENTS: +/- 0.18
- SEISMIC LOAD
 - SEISMIC IMPORTANCE FACTOR: 1.0
 - OCCUPANCY CATEGORY: II
 - MAPPED SPECTRAL RESPONSE ACCELERATION, SS: 0.265
 - MAPPED SPECTRAL RESPONSE ACCELERATION, SI: 0.074
 - SITE CLASS: D (ASSUMED)
 - SPECTRAL RESPONSE COEFFICIENT, SDS: 0.280
 - SPECTRAL RESPONSE COEFFICIENT, SDI: 0.118
 - SEISMIC DESIGN CATEGORY: B
 - BASIC SEISMIC-FORCE-RESISTING SYSTEM: LIGHT-FRAMED WALLS SHEATHED WITH SHEAR PANELS
 - DESIGN BASE SHEAR: 12.6K
 - SEISMIC RESPONSE COEFFICIENT, CS: 0.140
 - RESPONSE MODIFICATION FACTOR, R: 2.00
 - ANALYSIS PROCEDURE USED: EQUIV. LATERAL FORCE PROCEDURE
 - BUILDING CODE: MAINE UNIFORM BUILDING AND ENERGY CODE (REFERENCING 2009 IBC)



SELLERS TREYBAL



STRUCTURAL ENGINEERS

SELLERS TREYBAL STRUCTURAL ENGINEERS PC

65 Huntington Rd, Suite 201

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DRAWING LEGEND:

ABBREVIATIONS:	PANEL TYPES:
A.F.F. ABOVE FINISH FLOOR	NB = NAILBASE PANEL
A.W.P. ADJACENT WALL PANEL	CW = CURTAINWALL PANEL
O/O OUT TO OUT	SIP = STRUCTURAL PANEL
SC SCRAP	SSE = SPLIT-SKIN END (CW PANEL)
SNG. SINGLE	SSL = SPLIT-SKIN LENGTH (CW PANEL)
DBL. DOUBLE	SSLE = SPLIT-SKIN END + LENGTH (CW PANEL)
CONT. CONTINUOUS	DWC = DRYWALL CLAD STRUCTURAL PANEL
CONST. CONSTRUCTION	
GALV. GALVANIZED	
O.C. ON CENTER	
R.O. ROUGH OPENING	
TYP. TYPICAL	
T.O. TOP OF	
B.O. BOTTOM OF	
P.S.P. PANEL SHORT POINT	
P.L.P. PANEL LONG POINT	
T.F. TIMBER FRAME	
E.P.S. EXPANDED POLYSTYRENE	
XPS EXTRUDED POLYSTYRENE	
PIR POLYISOCYANURATE	
NEO NEOPOR	
SIP STRUCTURAL INSULATED PANEL	
I.H. INSULATED HEADER	
SCL STRUCTURAL COMPOSITE LUMBER	
W.C. WIRE CHASE	

ROUT SCHEDULE:	PANEL INFO IDENTIFICATION:
--- SNG. SPLINE ROUT	(1-T) --- PANEL IDENTIFICATION TAG
--- DBL. SPLINE ROUT	SC --- DENOTES RAW PANEL LENGTH
--- 3/4" FULL ROUT	(S-1) --- PANEL SURFACE LABEL & LOCATION
--- 1 1/2" FULL ROUT	(A) --- DENOTES WIRE CHASE LOCATION
--- 3" FULL ROUT	
--- CUSTOM ROUT	

LINETYPE SCHEDULE:
--- EDGE OF PANEL
--- HIDDEN PANEL EDGE
--- SPLIT SKIN PANEL LINE