



PARTICIPANT INFORMATION

Company Name: _____

Contact Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____

Email: _____ Website: _____

CATEGORY ENTRY (check one category)

☐ Single Family 'Small House' under 900 sq. ft.

☐ Single Family Homes over 3,000 sq. ft.

☐ Single Family Homes under 3,000 sq. ft.

☐ Multifamily

☐ Agricultural

☐ Commercial/Industrial/Institutional Buildings under 10,000 sq. ft.

☐ Commercial/Industrial/Institutional Buildings over 10,000 sq. ft.

☐ Renovations

☐ Affordable Housing

☐ High Performance (multiple category entry permitted)

PROJECT INFORMATION

Project Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Date completed: _____

Total cost of project (exclusive of land): _____

Dimensions of building (all floors of multi-story building): _____

Asking price/purchase price (Affordable Housing only): _____

Total sq. ft. of conditioned space: _____

BUILT BY (if different than applicant)

Company Name: _____

Contact Name: _____ Phone: _____

Address: _____

City: _____ State: _____ Zip: _____

PANELS MANUFACTURED BY (SIPA members only)

Company Name: _____

Continued

SIPA Building Excellence Application (Page 2 of 4)



DESIGNED BY (if different than applicant – SIPA will only recognize members)

Company Name: _____

Contact Name: _____

Phone: _____

Address: _____

City: _____

State: _____

Zip: _____

Please answer each question with as much detail as possible to help in the judging process.

Attach additional sheets if necessary.

Describe the end use of the building:

How did SIP construction help you get this job?

SIP wall thickness and core material: _____

SIP roof thickness and core material: _____

Describe the benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy?

Describe any innovative design elements or structural engineering involved:

Continued

SIPA Building Excellence Application (Page 3 of 4)



Please list any certifications the project received, such as ENERGY STAR, LEED, National Green Building Standard, WELL, Passive House, Green Globes or local green building programs. Only list certifications that are completed:

HERS Index *(required only for High Performance Category and recommended for residential projects):*

Blower door test results (ACH50) *(required only for High Performance Category and recommended for residential projects):*

Energy use intensity in kBtu/ft² *(required only for High Performance Category and recommended for commercial projects):*

Describe the HVAC system used on the project:

Describe any other energy-saving materials used in the building envelope other than SIPs. List U-values of windows used and the U or R-value of any insulation materials. *(judged only for High Performance Category)*

Please list any energy-efficient products or design features, such as lighting, hot water heating, appliances, passive solar *(judged only for High Performance Category):*

Were any solar panels installed on the project? If so, indicate the size of the system *(judged only for High Performance Category):*

SIPA Building Excellence Application (Page 4 of 4)



Please list any sustainable materials or design features not listed above, such as recycled materials, low-VOC finishes, landscaping, etc. *(judged only for High Performance Category)*:

Any additional comments on the project:

CHECKLIST

- ☐ My company is a SIPA member. Panels for this project were manufactured by a SIPA member.
- ☐ I have answered ALL the questions completely
- ☐ I have enclosed the two required electronic images of the completed project meeting the requirements stated in the SIPA Building Excellence Awards guidelines

PLEASE CONFIRM: I have read and understand the rules for this competition. This entry is structural insulated panel construction as defined in the SIPA Building Excellence Awards guidelines. I understand by making this submission that my pictures will be used by the Structural Insulated Panel Association (SIPA) to promote the use of structural insulated panels. I hereby give permission to SIPA to use the enclosed pictures for any use they see fit in that endeavor. I understand that where possible, SIPA will give credit for pictures used to my company as listed above.

Signature: _____

Date: _____

Entries that do not contain all required materials or are received after **January 11, 2019** will not be considered

Complete application and submit electronically to info@sips.org

Or send hard copy applications to SIPA office: P.O. Box 39848, Ft. Lauderdale, FL 33339



**Structural Insulated
Panel Association**

BUILDING EXCELLENCE AWARD SPONSOR



**MITSUBISHI
ELECTRIC**

COOLING & HEATING



STRUCTURAL INSULATED PANELS



MANUFACTURING/SALES

19727 57th AVE E.
PUYALLUP, WA 98375
OFFICE-800.275.7086
FAX-253.271.3265

1155 BUSINESS PARK DR.
DIXON, CA 95620
OFFICE-707.678.6900
FAX-707.678.2962

SALES

270 FLOSS FLAT SUITE A
BELGRADE, MONTANA 59714
OFFICE-406.388.5553
FAX-406.388.5557

NOTES:

CHAPPELL RESIDENCE

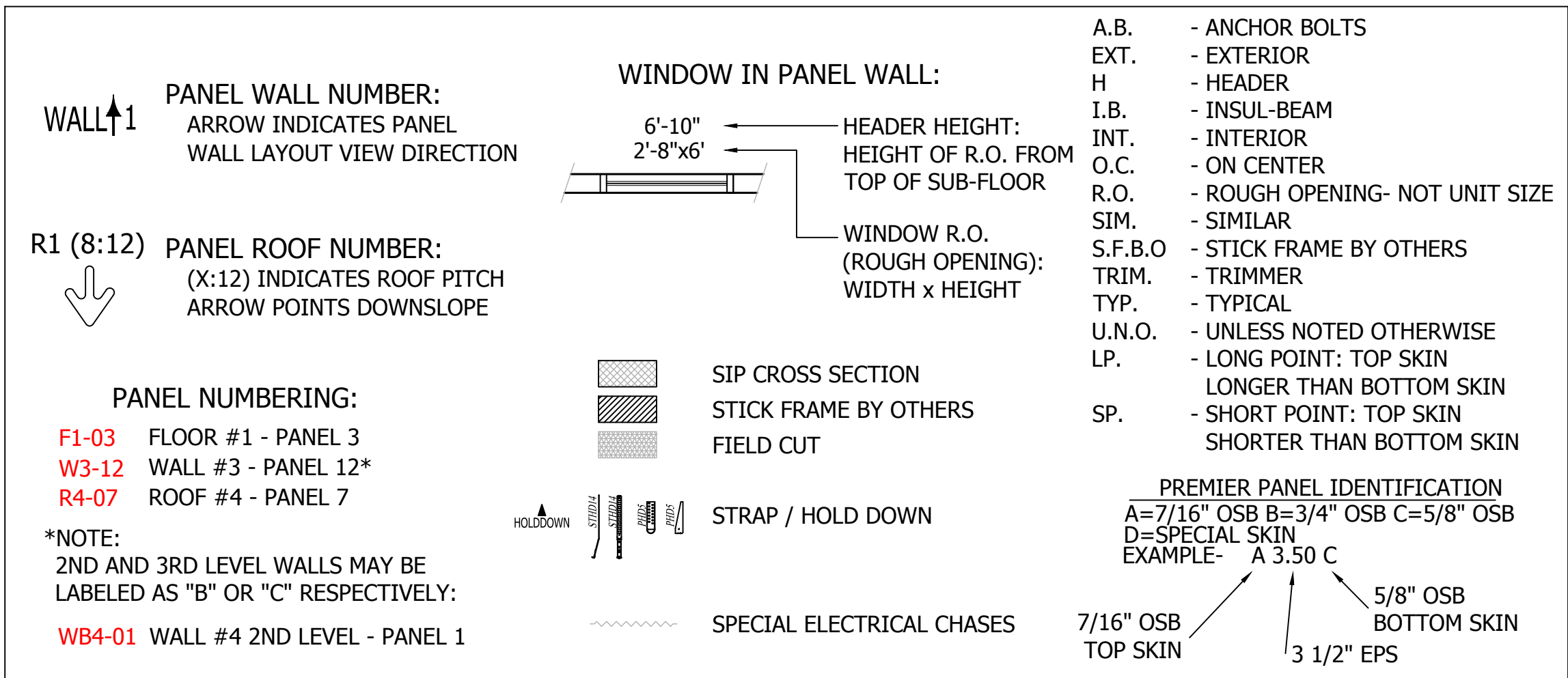
GENERAL NOTES

- PREMIER IS A MATERIAL SUPPLIER AND NOT A BUILDER. PROPER INSTALLATION OF OUR PRODUCT SHOULD BE DONE BY A QUALIFIED CONTRACTOR. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH ALL APPLICABLE AND LOCAL CODES AND REGULATIONS.
- SHOPS DRAWINGS ARE PREMIER'S INTERPRETATION OF THE PLANS PROVIDED. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS AND VERIFY ALL DIMENSIONS WITH ARCHITECT. PANELS ARE FABRICATED PER THESE SHOP DRAWINGS. ANY DISCREPANCIES OR MISSING ITEMS IN THESE SHOPS SHOULD BE NOTED.
- PREMIER SHOP DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. IF ANYTHING IS NOT CLEAR OR THERE ARE QUESTIONS THEY SHOULD BE IMMEDIATELY DIRECTED TO THE ENGINEER OF RECORD.
- CONTRACTOR SHOULD LOOK THROUGH THE PLANS CAREFULLY TO INSURE THAT ALL ASPECTS OF SIP PACKAGE CAN BE CONSTRUCTED THROUGH THEIR PREFERRED MEANS AND METHODS PRIOR TO SIGNING OFF ON THE SHOP DRAWINGS.
- EXECUTION OF WORK FOR SIP PACKAGE MAY REQUIRE COORDINATION WITH OTHER TRADES (I.E. ELECTRICIAN, HVAC, WINDOW/DOOR MANUFACTURER, ETC...). THIS COORDINATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- WHEN BUILT PROPERLY A SIP BUILDING PROVIDES A TIGHT ENVELOPE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE SIP STRUCTURE IS PROPERLY VENTILATED TO ENSURE PROPER AIR QUALITY AND HUMIDITY LEVELS.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT ALL SPLINES ARE PROPERLY SEATED INTO THE PANEL RECESSES AND COMPLETELY SEALED WITH MASTIC OR EXPANDING SPRAY FOAM, INCLUDING BUT NOT LIMITED TO SPLINE JOINTS, PENETRATIONS, LIFTING HOLES, ETC. VOIDS BETWEEN SPLINE JOINTS ARE NOT ACCEPTABLE IN A PROPER SIP INSTALLATION.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE PROPER WEATHER BARRIER (I.E. HOUSE WRAPS, FLASHING, ROOF UNDERLAYMENT, ETC..) TO DRY IN THE BUILDING ENVELOPE.
- SOME DIMENSIONS CAN NOT BE VERIFIED UNTIL CONSTRUCTED. THEREFORE PREMIER TAKES NO RESPONSIBILITY FOR FIELD FABRICATION. SOME FIELD FABRICATED AREAS MAY HAVE BEEN HIGHLIGHTED ON THE DRAWINGS BUT MAY NOT BE LIMITED TO ONLY THOSE AREAS.
- YOU MAY EXPERIENCE DIMENSIONAL VARIANCES FROM THE CONSTRUCTION DRAWINGS AS PANELS ARE ASSEMBLED DUE TO GAPS AT PANEL JOINTS AND ADDITIONAL MISCELLANEOUS CONSTRUCTION VARIABLES SUCH AS FABRICATION TOLERANCES, LUMBER POST THICKNESS VARIANCES, ETC. FIELD CUTTING THE SIPS MAY BE REQUIRED TO ENSURE THAT THE TOTAL WALL OR ROOF ASSEMBLY IS PER THE CONSTRUCTION DRAWINGS. PREMIER WILL ADD GAPS AS INDICATED ON PANEL LAYOUTS BETWEEN PANEL JOINTS IN THE SHOP DRAWINGS (TYPICALLY 1/8" GAP).
- IT IS THE BUILDERS RESPONSIBILITY TO DETERMINE ALL MATERIALS NECESSARY FOR PANEL INSTALLATION. THIS INCLUDES VERIFYING THAT THE MATERIALS PREMIER WILL BE PROVIDING ARE ADEQUATE FOR THE PROJECT AND SOURCE ANY ADDITIONAL MATERIALS REQUIRED FOR PANEL INSTALLATION THAT ARE NOT PROVIDED BY PREMIER.

DELIVERY & STORAGE

IN ORDER TO KEEP YOUR FREIGHT COSTS TO A MINIMUM AND MAKE THE MOST EFFICIENT USE OF THE SPACE AVAILABLE ON A TRUCK, WE TYPICALLY DO NOT SHIP PANELS IN NUMERICAL SEQUENCE. BEAR IN MIND THAT ALL PANELS HAVE MARKINGS WHICH DO MAKE FOR A SMOOTH IDENTIFICATION PROCESS. HOWEVER, IF YOU DESIRE A SPECIAL LOADING PLAN, THAT REQUEST, AND LAYOUT, MUST BE MADE CONCURRENT WITH THE RETURN OF THE SIGNED SHOP DRAWINGS AND MAY BE SUBJECT TO AN ADDITIONAL FEE. PANELS ARE FABRICATED AT 4' & 8' WIDTHS AND UP TO 24' LENGTHS. 6' FORKS ARE REQUIRED FOR 8' WIDE PANELS (REFER TO THE CONTRACT OF SALE FOR MORE INFORMATION OR ASK PREMIER FOR A DELIVERY INFORMATION SHEET). ALL PANELS SHALL BE STORED IN A PROTECTED AREA AND SUPPORTED EVERY 4' TO PREVENT DEFORMATION AND CONTACT WITH THE GROUND. DO NOT USE A BLACK OR DARK COLORED TARP. PRIOR TO INSTALLATION, ALL PANELS SHALL BE COVERED TO PREVENT CONTACT WITH WATER ON ALL EXPOSED PANEL EDGES.

LEGEND/ABBREVIATIONS



REVIEWING PANEL LAYOUT DRAWINGS

PREMIER SIPS WILL ENCLOSE TWO (2) SETS OF 'PREMIER PANEL SHOP DRAWINGS' OF YOUR PROJECT; ONE (1) COPY IS FOR YOU TO REVIEW WITH YOUR AGENT (ARCHITECT, ENGINEER AND/OR CONTRACTOR OR PANEL INSTALLER) AND MAKE ANY CORRECTIONS (REDLINES) AND RETURN TO PREMIER SIPS. THE OTHER (1) COPY IS FOR YOUR RECORDS. THIS COPY WILL ALSO HELP TO COMMUNICATE ANY CHANGES.

WHEN REVIEWING SHOP DRAWINGS, BEGIN BY CHECKING ALL OF THE OVERALL DIMENSIONS OF THE PROJECT. IF THE PROJECT HAS FLOOR PANELS, PLEASE CHECK POINT LOAD LOCATIONS FOR SOLID BLOCKING AND MAKE SURE ANY OPENINGS OR STEP DOWNS ARE CORRECT. AFTER THE FLOORS HAVE BEEN COMPLETELY CHECKED, MOVE TO THE WALLS. THE WALLS WILL BE SHOWN ON A KEYED FLOOR PLAN WITH WALL NUMBERS CALLED OUT AND AN ARROW POINTING THE VIEW DIRECTION OF EACH OF THE PANEL WALL LAYOUTS. THESE NUMBERS AND THEIR ORIENTATION WILL ALSO BE LOCATED BELOW EVERY PANELIZED WALL. OBSERVE THE LOCATION OF THE PANEL CORNER LAPS. SOME OF THE WALLS WILL BE SHORTER DUE TO CORNER LAPS AND TO THE PANEL THICKNESS. AFTER YOU HAVE MADE SURE ALL DIMENSIONS MATCH YOUR ARCHITECTURAL PLANS, MOVE TO THE WINDOWS AND DOORS. MAKE SURE THAT THE ROUGH OPENINGS FOR THE WINDOWS AND DOORS ARE THE CORRECT SIZE AND ARE LOCATED PROPERLY. IF THE ROOF FOR THE PROJECT IS ALSO PANELS, CHECK THE ROOF PITCH, RIDGE LOCATION, AND THE OVERHANGS AT THE EAVES AND GABLES. EVEN IF THE ROOF IS A SYSTEM OTHER THAN PANELS, GABLE WALL HEIGHTS MAY BE DEPENDENT ON HEEL HEIGHTS OR BE NOTCHED FOR LOOK OUT SUPPORTS. IF THERE ARE SKYLIGHTS, CHECK THE ROUGH OPENINGS FOR CORRECT SIZE AND LOCATION. PANEL DRAWINGS ARE TO BE REVIEWED BY OWNER/AGENT AND APPROVED BY OWNER, CONFIRMING ALL DIMENSIONS. OWNER IS RESPONSIBLE FOR VERIFYING ALL PANEL DRAWING DIMENSIONS TO ENSURE PROPER ASSEMBLY. CHECK CORRECT DIMENSIONS AND CLOUD CHANGED DIMENSIONS WITH AN APPROPRIATE ARROW REFERENCING THE DIRECTION OF CHANGE. UNCHECKED DIMENSIONS MAY RESULT IN FIELD FABRICATION.

WHEN YOU HAVE FINISHED VERIFYING THE SHOP DRAWINGS AND HAVE MADE ANY CHANGES/CORRECTIONS, COPY THOSE CHANGES TO THE SECOND SET AND SEND IT BACK TO PREMIER FOR REVISIONS.

ANY AND ALL DISCREPANCIES RELATED TO PANELS ON SITE ARE THE RESPONSIBILITY OF OWNER UNLESS THERE IS A DIFFERENCE BETWEEN FABRICATED PANELS AND SIGNED SHOP DRAWINGS. PREMIER HOLDS FIRST RIGHT OF DECISION TO REPLACE, REPAIR OR PAY FOR REPAIR OF ALL PRODUCTS IN DISCREPANCY WITH FINAL SHOP DRAWINGS.

ENGINEERING DATA

| | | |
|---------------------|--------------------|--------------|
| WIND SPEED: .XX MPH | EXP. .XX | SEISMIC: .XX |
| FLOOR LOAD: .XX PSF | ROOF LOAD: .XX PSF | |
| LIVE LOAD: .XX PSF | DEAD LOAD: .XX PSF | |
| TOTAL LOAD: .XX PSF | | |

LIST OF DRAWINGS

- TITLE SHEET, PROJECT INFO
- FLOOR PLANS
- ROOF PLAN & SECTIONS
- PERSPECTIVE VIEWS
- WALL PANEL LAYOUTS
- ROOF PANEL LAYOUTS & PBS DETAILS

PROJECT NAME

TC LEGEND HOMES
CHAPPELL RESIDENCE

20160615-0001

CONTACT INFORMATION

TED CLIFTON
TC LEGEND HOMES
702 KENTUCKY ST #339
BELLINGHAM, WA 98225

(360)220-2119

SITE ADDRESS

2123 SW DAKOTA ST.
SEATTLE, WA 98106

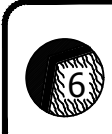
| | | |
|-------------|-------------|-------------------|
| DRAWN BY: | MATT KARNES | FEBRUARY 13, 2017 |
| CHECKED BY: | | |

REVISIONS:

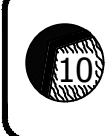
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| 2. | MLK | 6/12/2017 | C-REV |
| 3. | MLK | 6/20/2017 | C-REV |
| 4. | | | |
| 5. | | | |

AS A SUPPLIER OF MATERIALS ONLY, PREMIER SIPS DOES NOT ASSUME RESPONSIBILITY FOR ERRORS IN DESIGN, ENGINEERING, OR DIMENSIONS. OWNER/AGENT (ARCHITECT, CONTRACTOR, AND/OR INSTALLER) SHALL VERIFY ALL DIMENSIONS AND SIZES, AND BY SIGNING THESE PLANS, THE OWNER TAKES FULL RESPONSIBILITY FOR THEIR ACCURACY.

THIS PROJECT UTILIZES THE FOLLOWING PANEL TYPES



PREMIER WALL TYPE
A5.50A PLATINUM



PREMIER ROOF TYPE
A9.25A PLATINUM

SIGN HERE
PLEASE

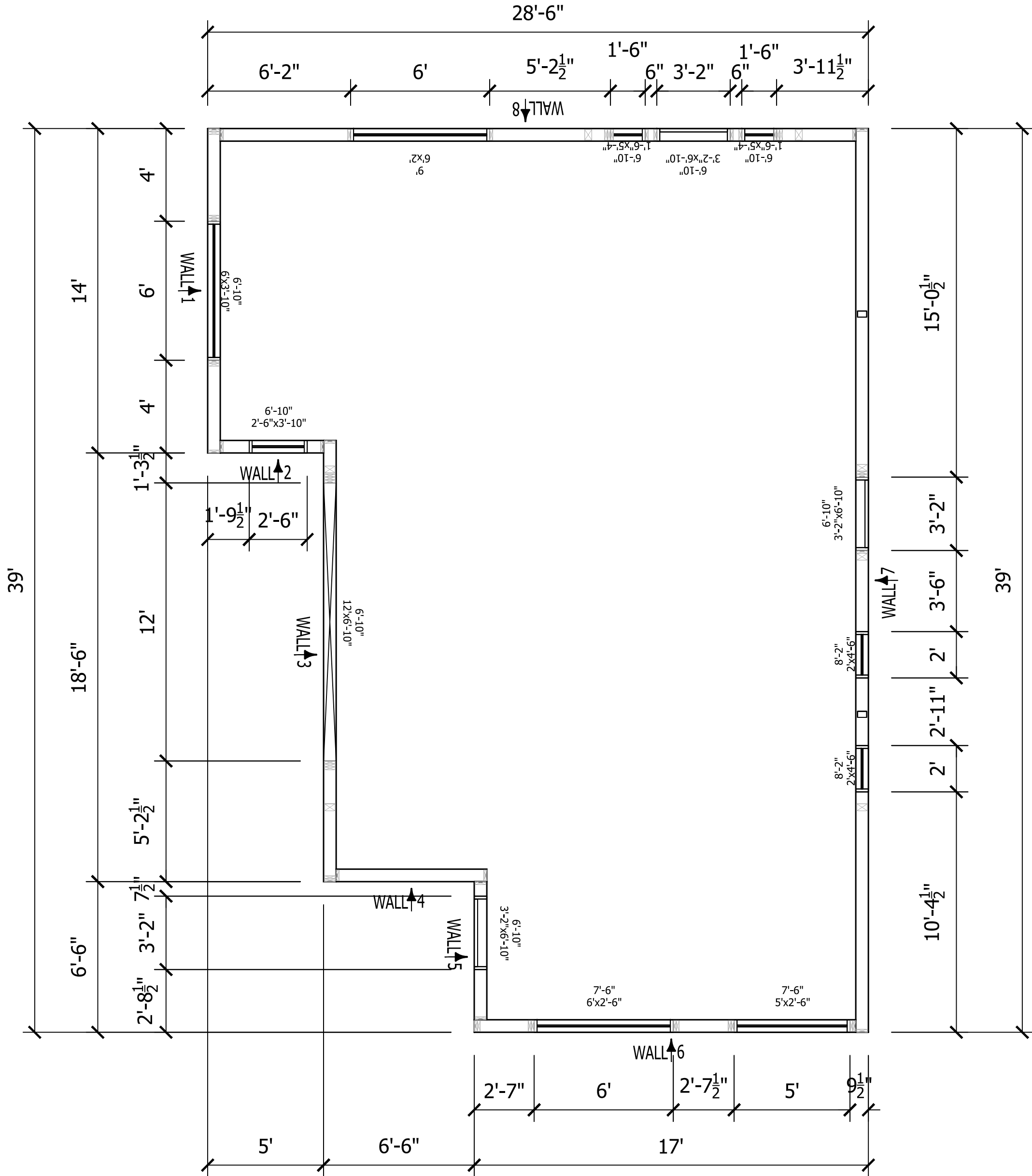
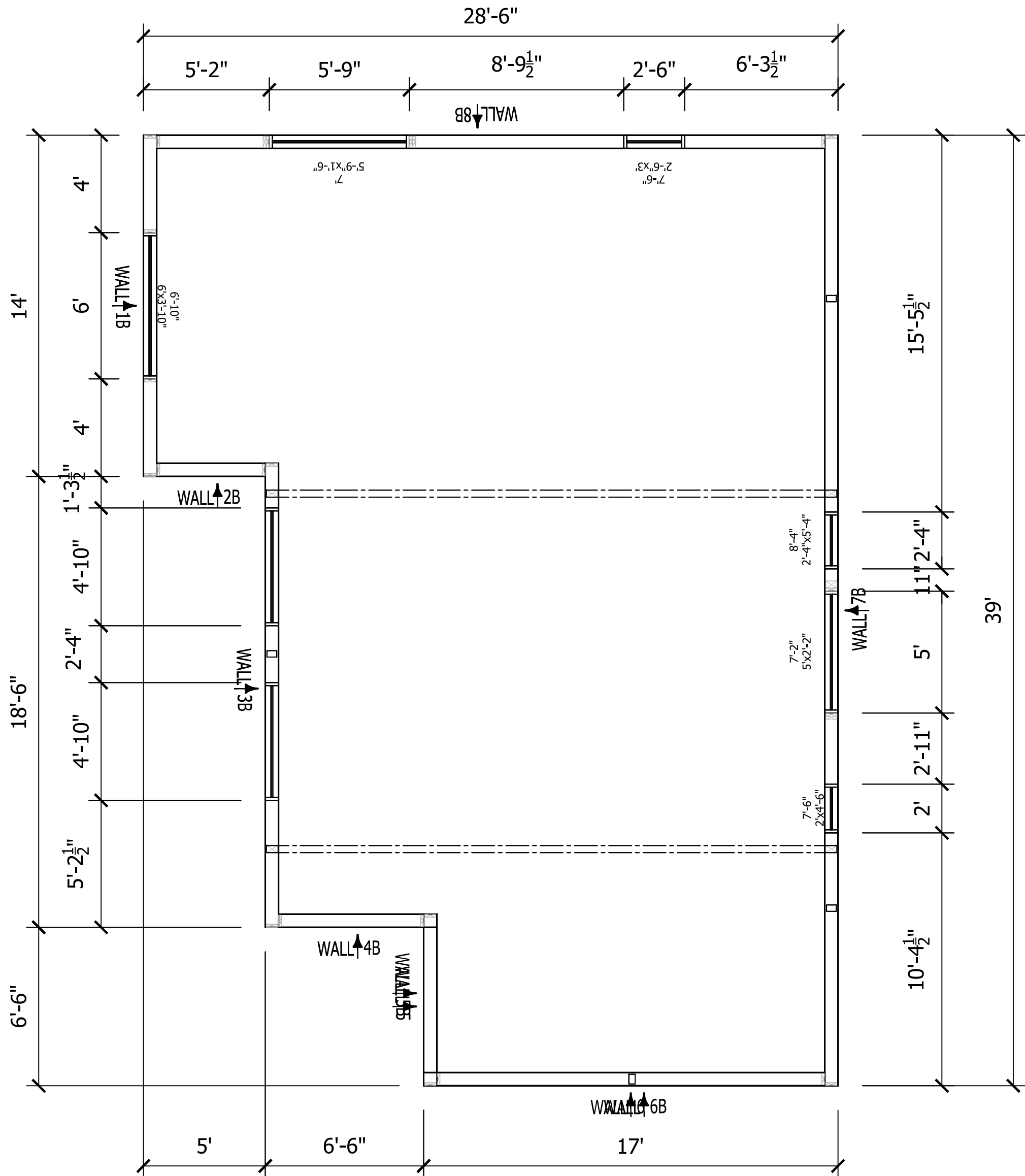
CUSTOMER'S SIGNATURE

DATE

CUSTOMER'S REQUESTED DATE OF DELIVERY

- ☐ REVISE & RESUBMIT
- ☐ APPROVED WITH REVISIONS AS NOTED IN RED
- ☐ APPROVED AS DRAWN

- NOTES:
1. ALL ENGINEERING PROVIDED BY OTHERS.
 2. ALL OVERHANG DIMENSIONS ARE TO TOP SKIN OF SIP ROOF PANEL. U.N.O.
 3. ROUGH OR SMOOTH OSB DOES NOT DENOTE TOP OR BOTTOM OF SIP. REFER TO PANEL LAYOUTS FOR PANEL ORIENTATION.
 4. ALL IN-PLANE, PANEL-TO-PANEL JOINTS PBS-005 U.N.O
 5. INSUL-BEAM HEADERS ARE CUT TO 1' INCREMENTS ROUNDED UP FROM THE REQUIRED ROUGH OPENING. (IF YOU'RE ABOUT TO CUT OFF MORE THAN 1' OF INSUL-BEAM THEN YOU'RE CUTTING THE WRONG ONE).
 6. I-JOISTS ARE CUT TO 2' INCREMENTS ROUNDED UP FROM THE REQUIRED SPAN. (IF YOU'RE ABOUT TO CUT OFF MORE THAN 2' OF I-JOISTS THEN YOU'RE CUTTING THE WRONG ONE).
 7. SIP TAPE PROVIDED FOR ROOF CONNECTIONS ONLY.
 8. STANDARD DETAILS PROVIDED FOR TYPICAL INSTALLATION METHODS. REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR JOB SPECIFIC CONNECTION DETAILS.
 9. BEAM POCKETS TO BE FIELD CUT FOR PROPER ELEVATION AND SIZE.
 10. FACTORY INSTALLED LUMBER (IF REQUESTED BY CUSTOMER) WILL BE HIGHLIGHTED IN RED IN THE SIP PANEL LAYOUTS.



| REVISIONS: | | # | DRAWN | DATE | TYPE |
|------------|--|----|-------|-----------|-------|
| | | 1. | MLK | 5/15/2017 | C-REV |
| | | 2. | MLK | 8/12/2017 | C-REV |
| | | 3. | MLK | 8/20/2017 | C-REV |
| | | 4. | | | |
| | | 5. | | | |

CUSTOMER APPROVAL:

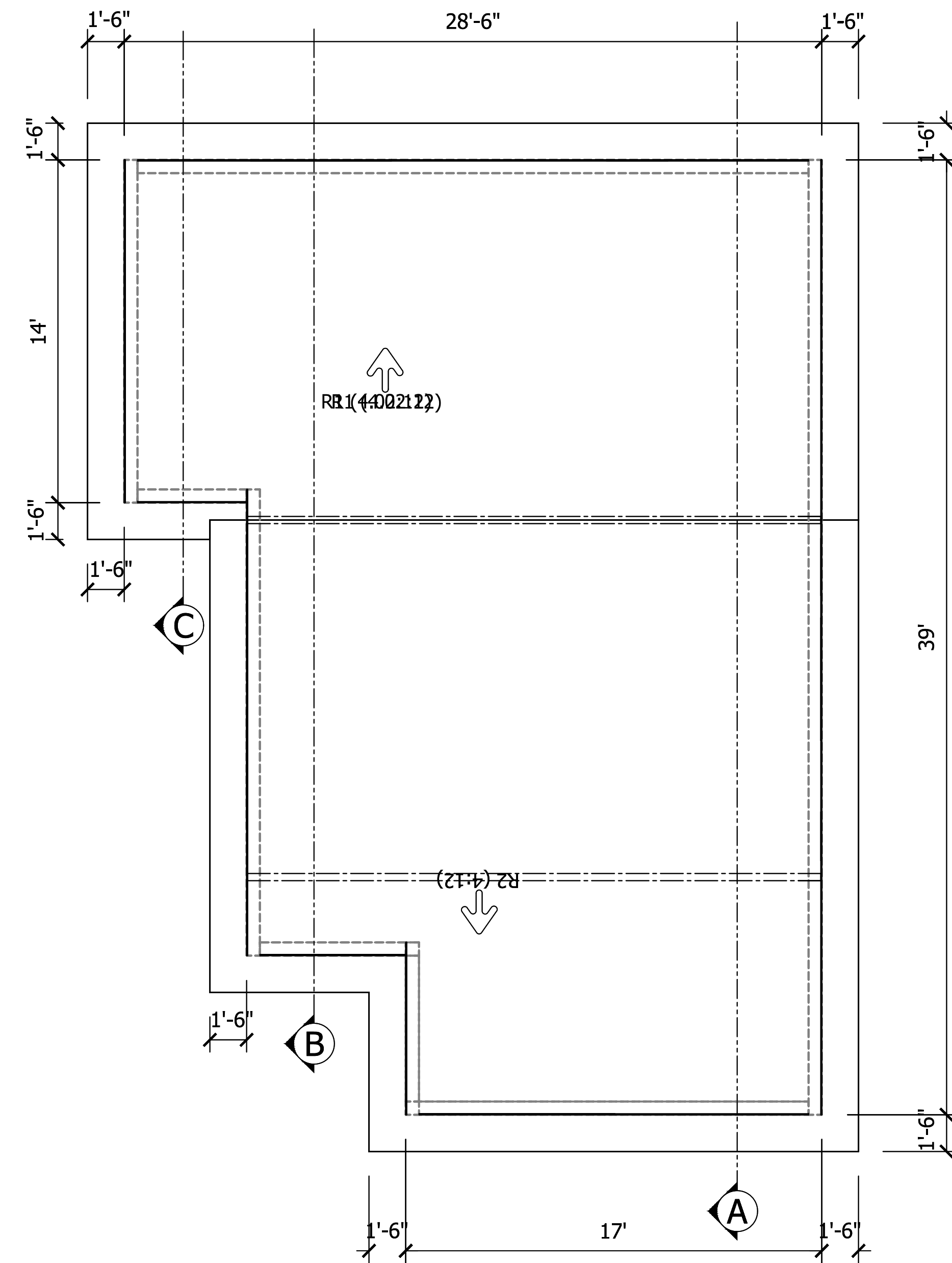
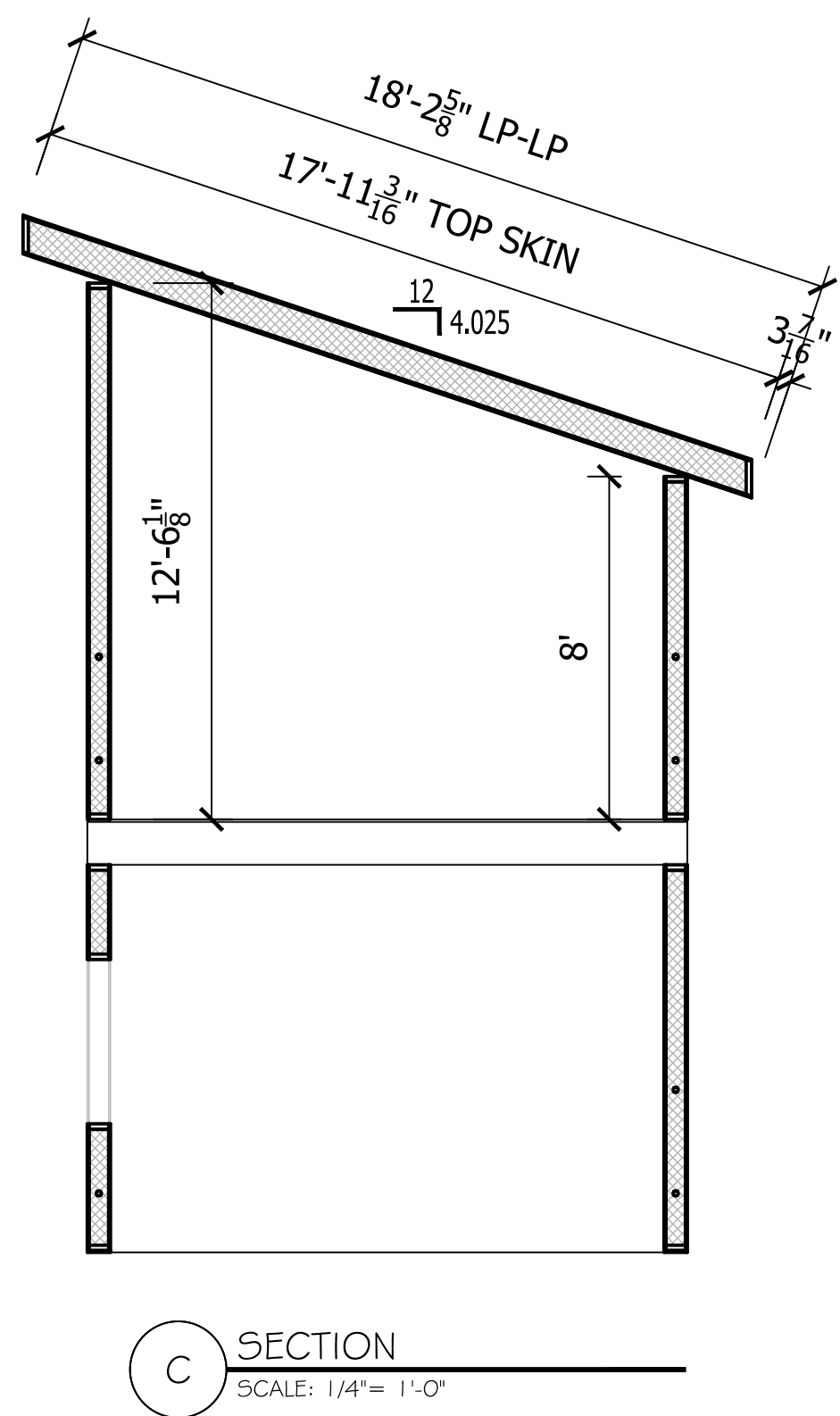
AS A SUPPLIER OF MATERIALS, PREMIER BUILDING SYSTEMS DOES NOT WARRANT THE ACCURACY OF THE INFORMATION, DIMENSIONS, OR ENGINEERING, OR DIMENSIONS, OWNER/AGENT (ARCHITECT, ENGINEER, OR OTHER PROFESSIONAL) SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE PROJECT BEFORE THE OWNER TAKES FULL RESPONSIBILITY FOR THEIR ACCURACY.

SIGNATURE _____ DATE _____

PROJECT INFORMATION:

CHAPPELL RESIDENCE
20160615-0001
SEATTLE, WA

DRAWN: MLK
CHECKED: MLK
DATE: 2/13/2107
SCALE: VARIES
SHEET NO. 2 OF 6



ROOF PLAN

10 1/4" Panels 1/4" = 1'-0"

| # | DRAFTER | DATE | TYPE |
|----|---------|-----------|-------|
| 1. | MUK | 5/15/2017 | C-REV |
| 2. | MUK | 6/12/2017 | C-REV |
| 3. | MUK | 6/20/2017 | C-REV |
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CUSTOMER APPROVAL:

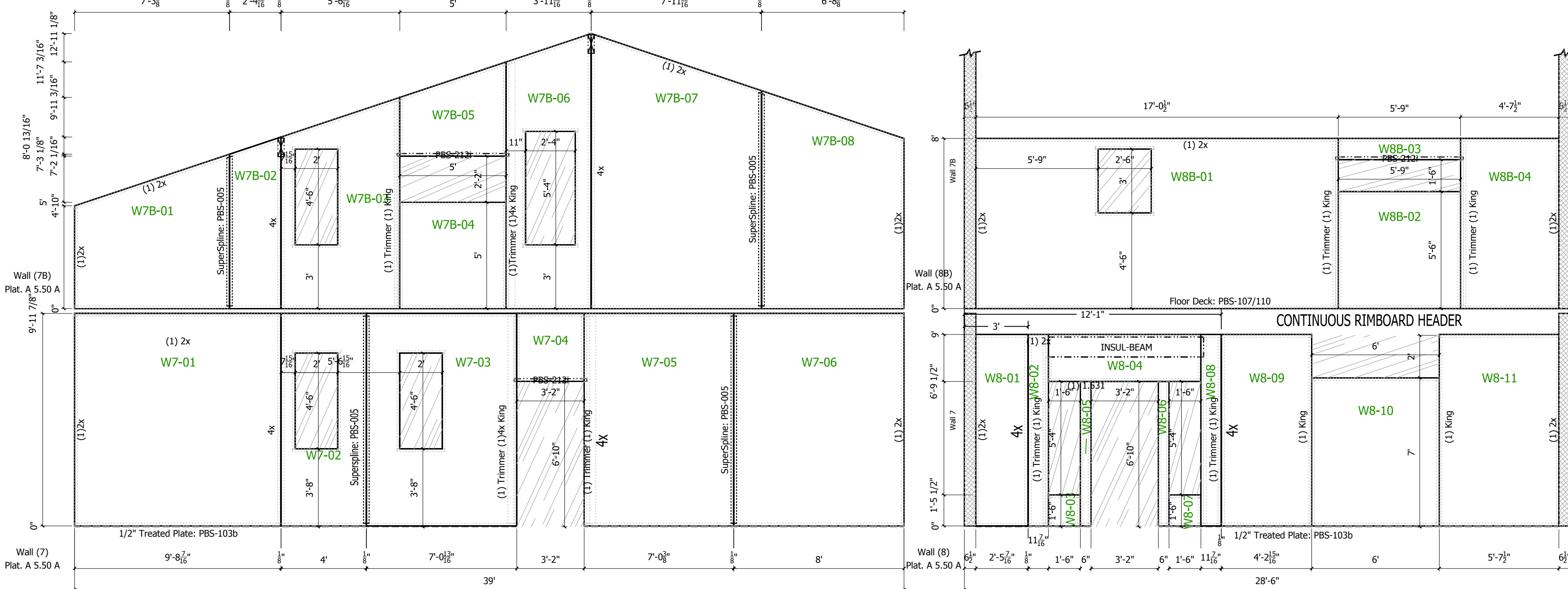
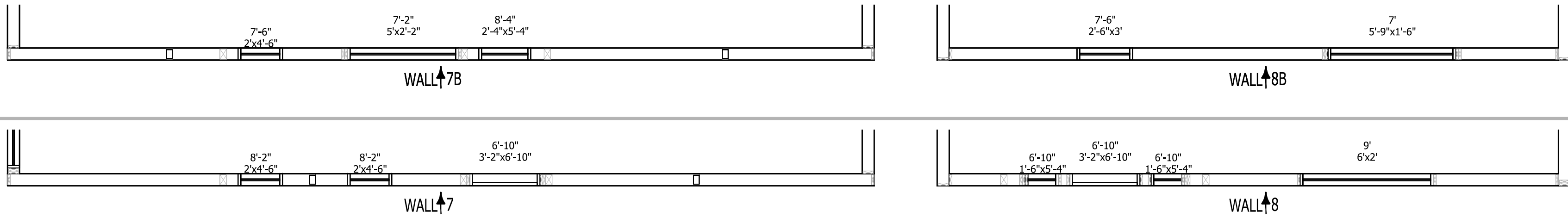
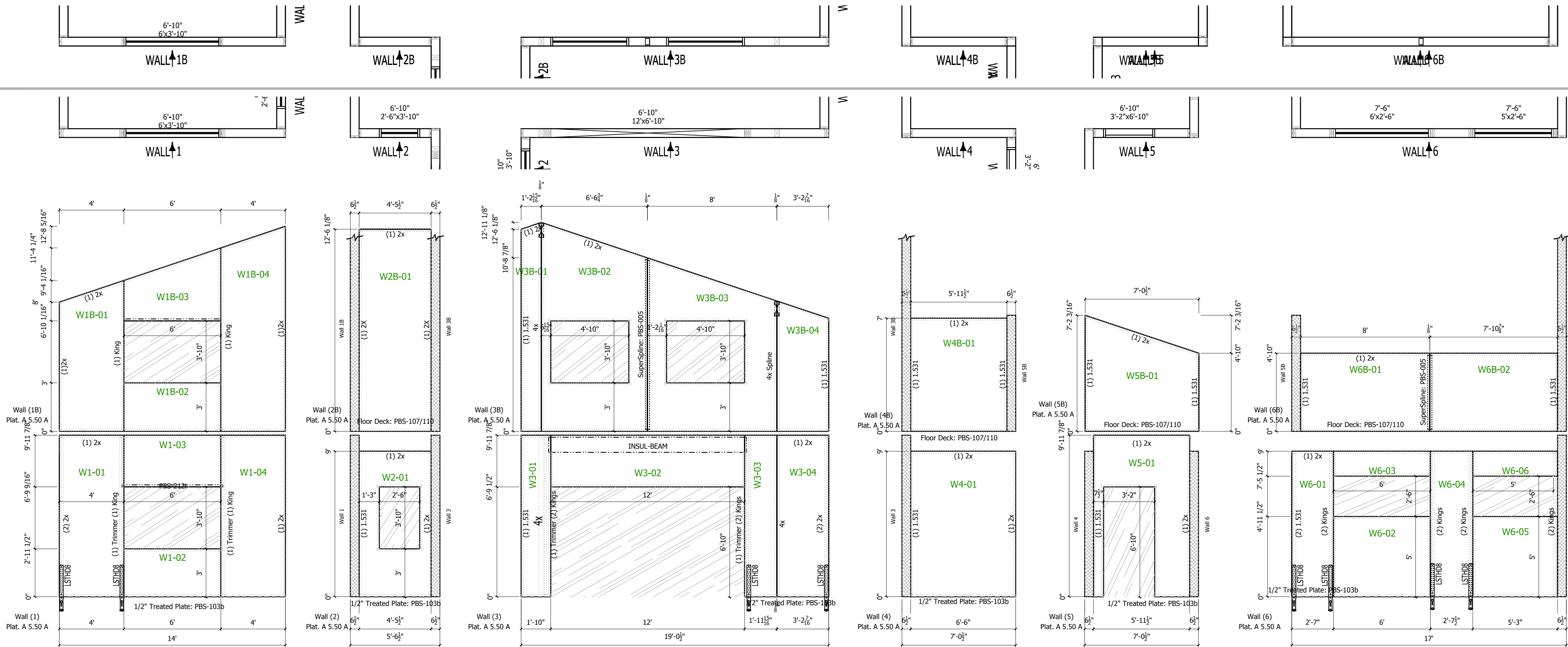
AS A SUPPLIER OF MATERIALS, PREMIER BUILDING SYSTEMS DOES NOT ASSUME RESPONSIBILITY FOR ERRORS IN DESIGN, ENGINEERING, OR DIMENSIONS. OWNER/ARCHITECT, CONTRACTOR, AND SUBS MUST VERIFY ALL DIMENSIONS, DIMENSIONS AND SIZES AND BY SIGNING THESE PLANS, THE OWNER TAKES FULL RESPONSIBILITY FOR THEIR ACCURACY.

SIGNATURE _____ DATE _____

CT INFORMATION:
CHAPPELL RESIDENCE
20160615-0001
SEATTLE, WA

| | |
|-----------------------------------|-----------|
| DRAWN: | MLK |
| CHECKED: | |
| DATE: | 2/13/2107 |
| SCALE: | VARIES |
| SHEET NO. 3 OF 6 | |

SECOND LEVEL
MAIN LEVEL



WALL PANEL LAYOUT

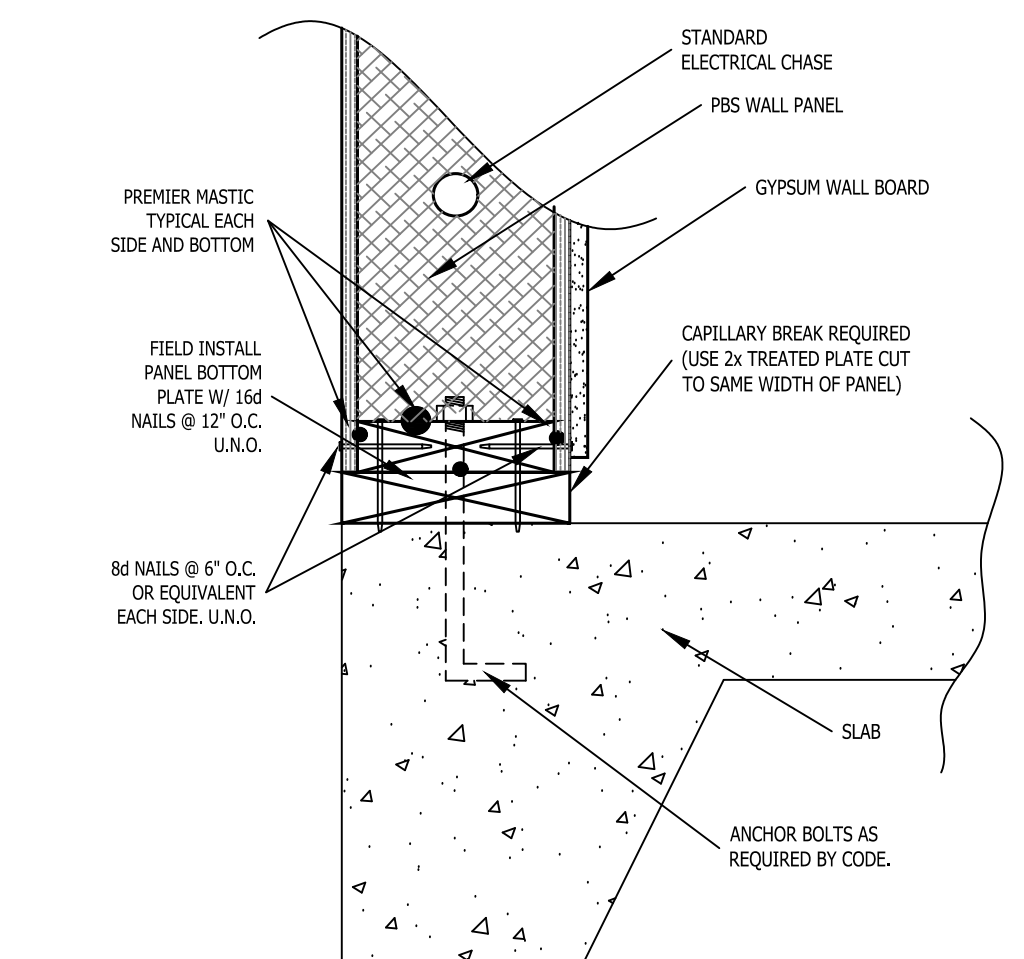
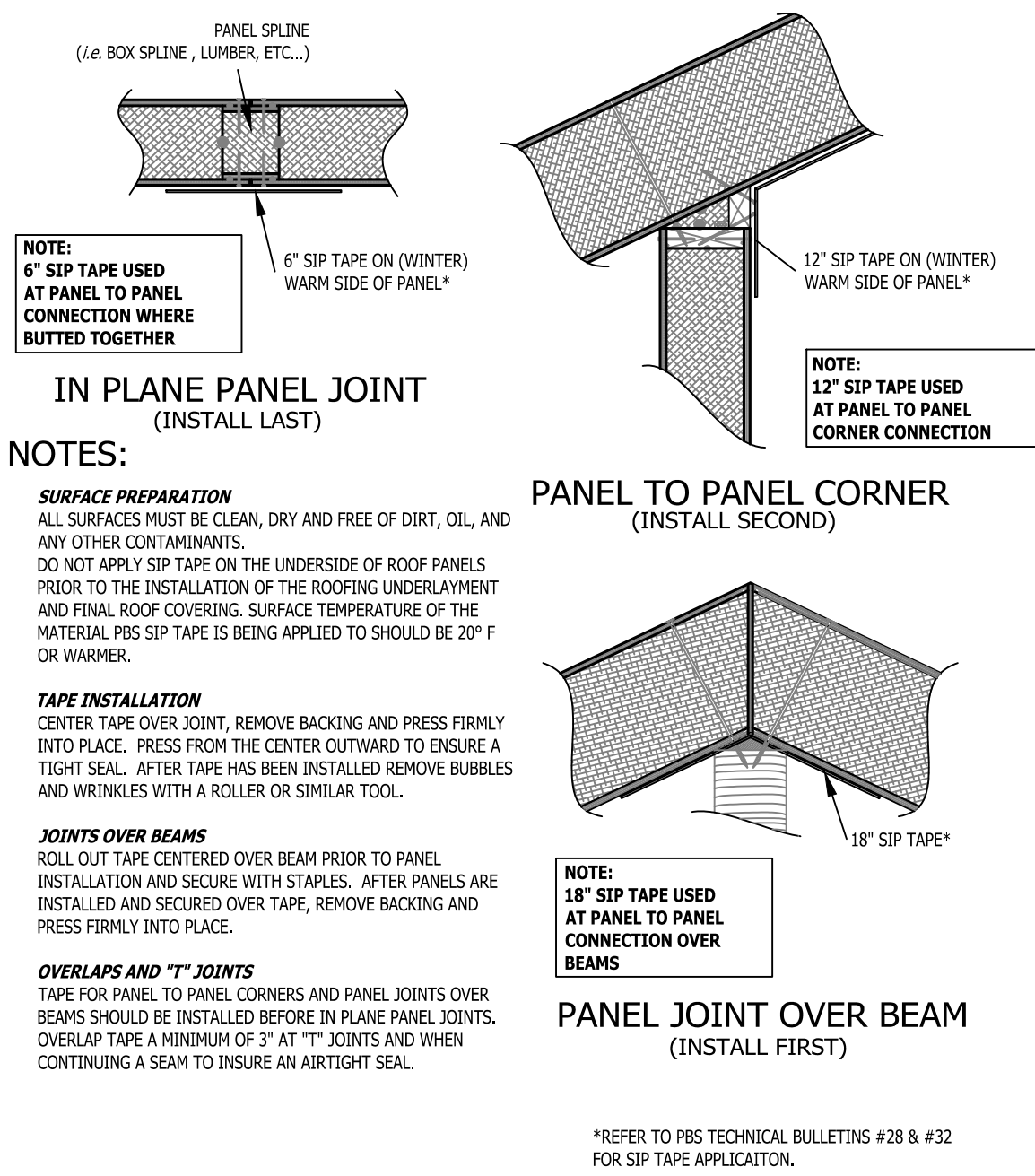
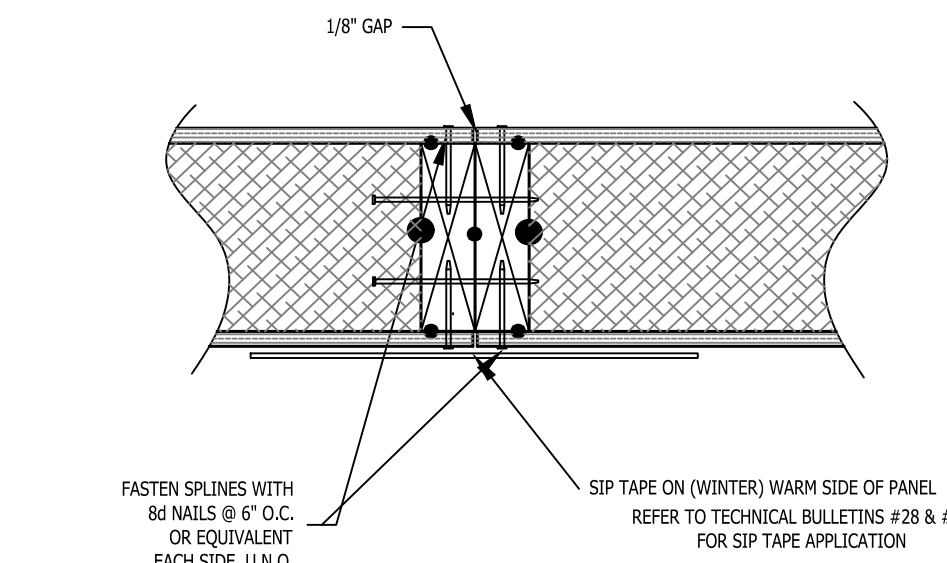
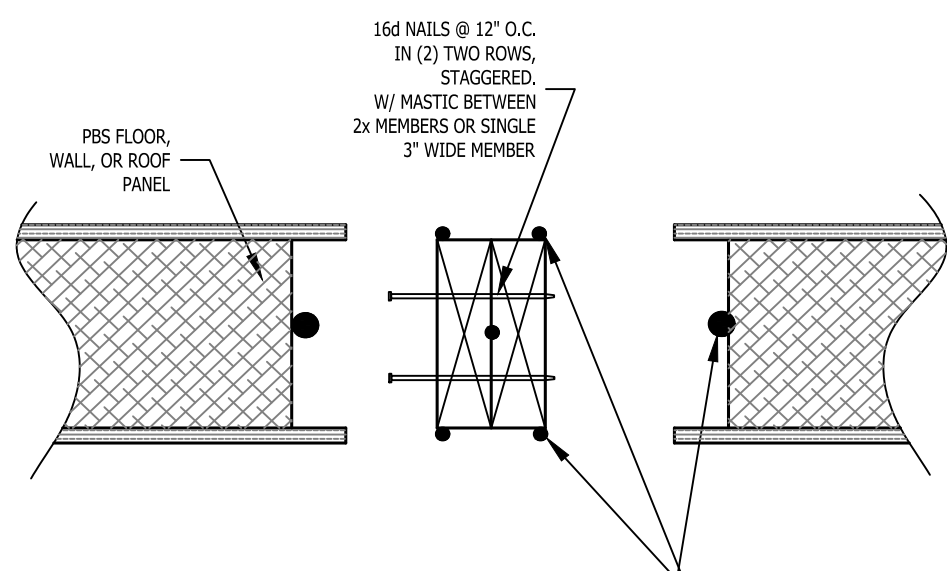
6 1/2" Panels 1/4" = 1'-0"

| REVISIONS: | | # | DATE | TYPE |
|------------|--|----|-----------|-------|
| | | 1. | 3/15/2017 | C-REV |
| | | 2. | 8/12/2017 | C-REV |
| | | 3. | 8/20/2017 | C-REV |
| | | 4. | | |
| | | 5. | | |

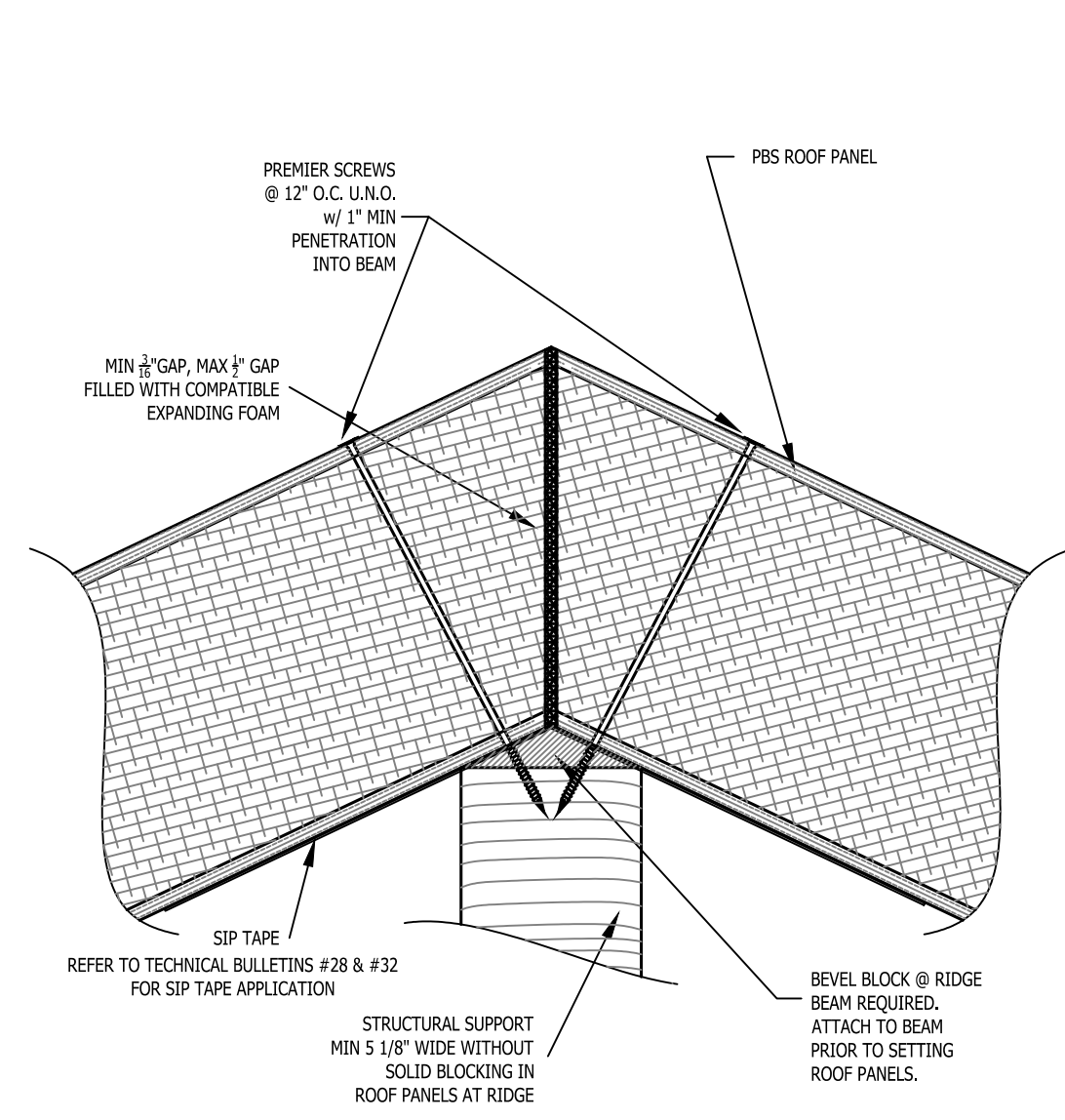
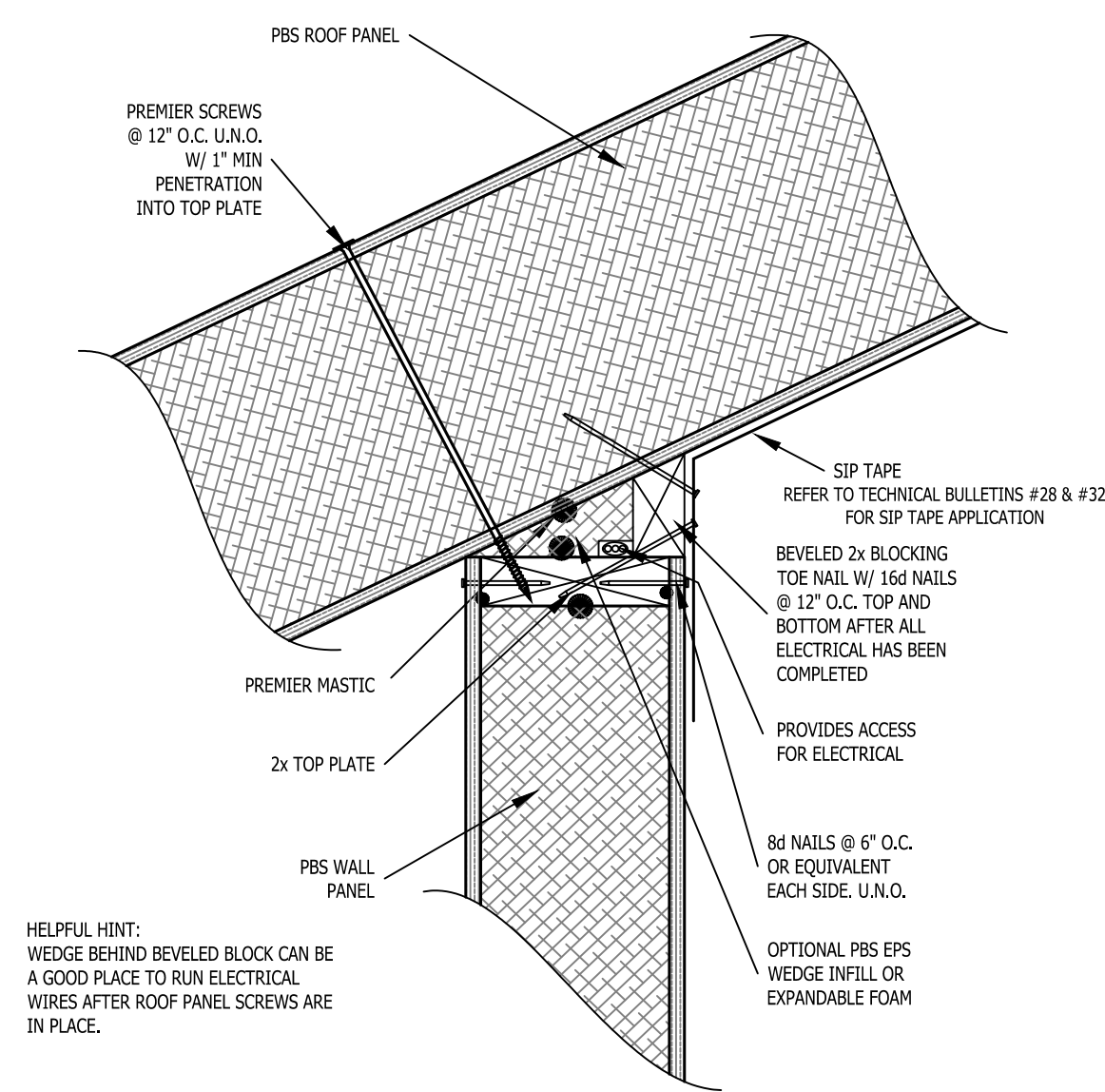
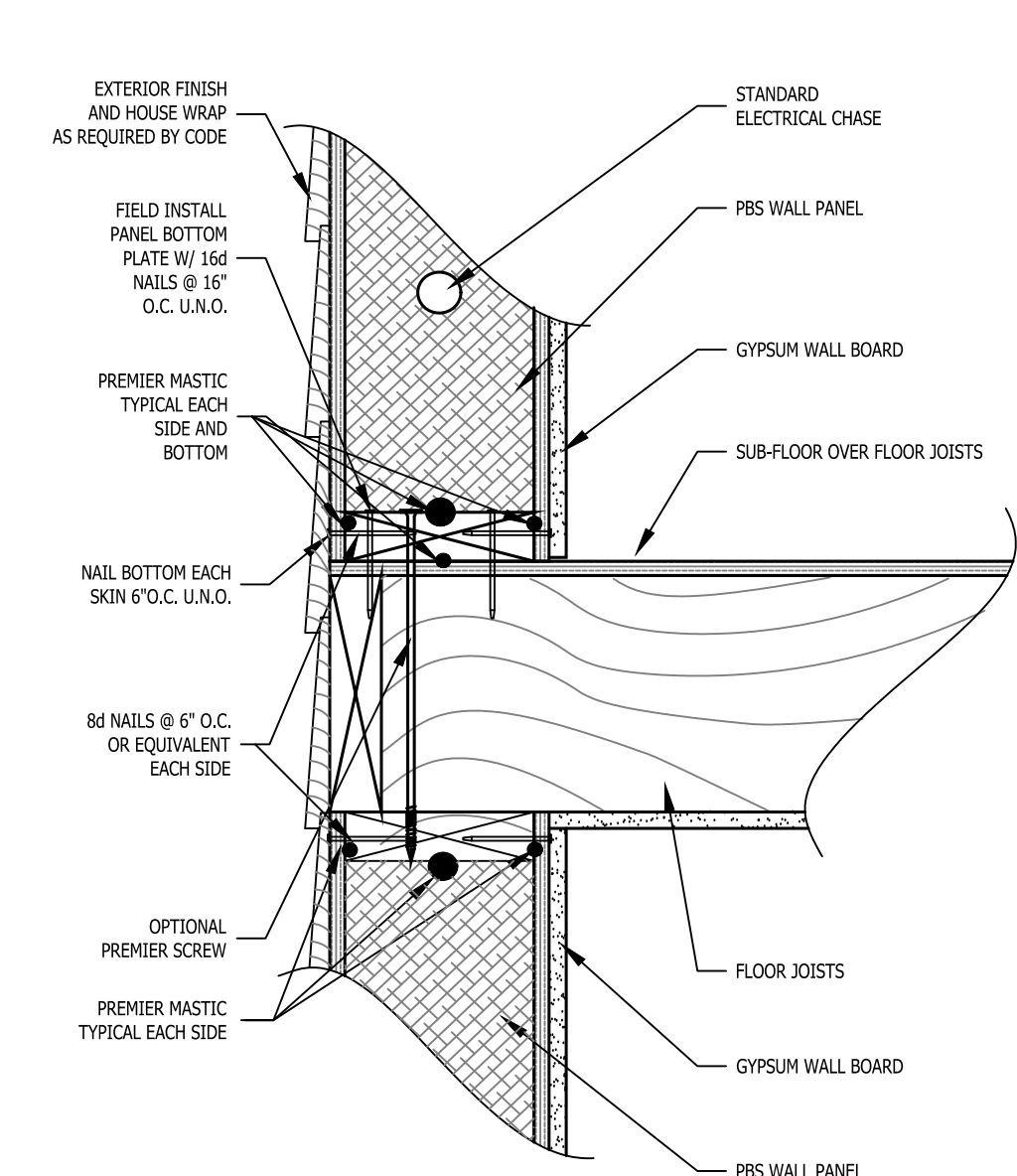
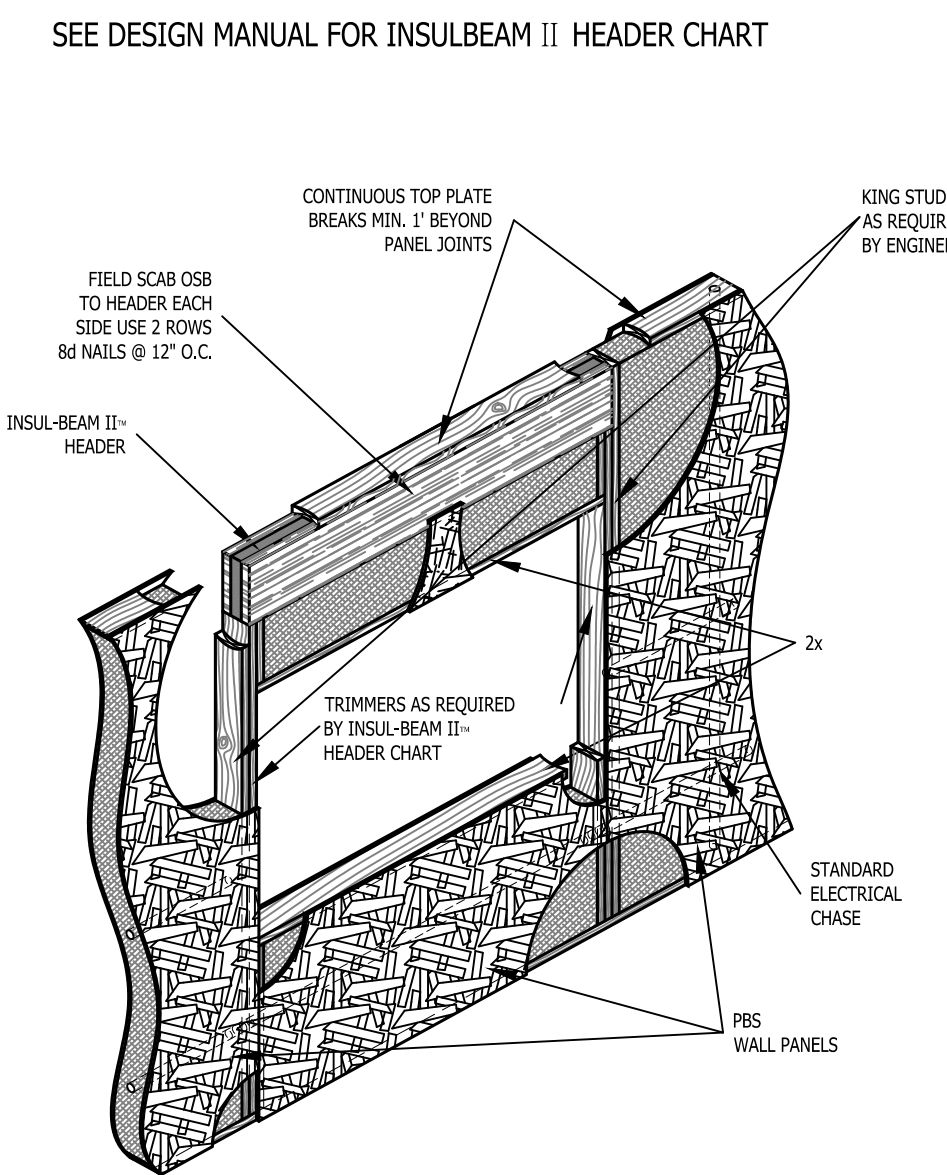
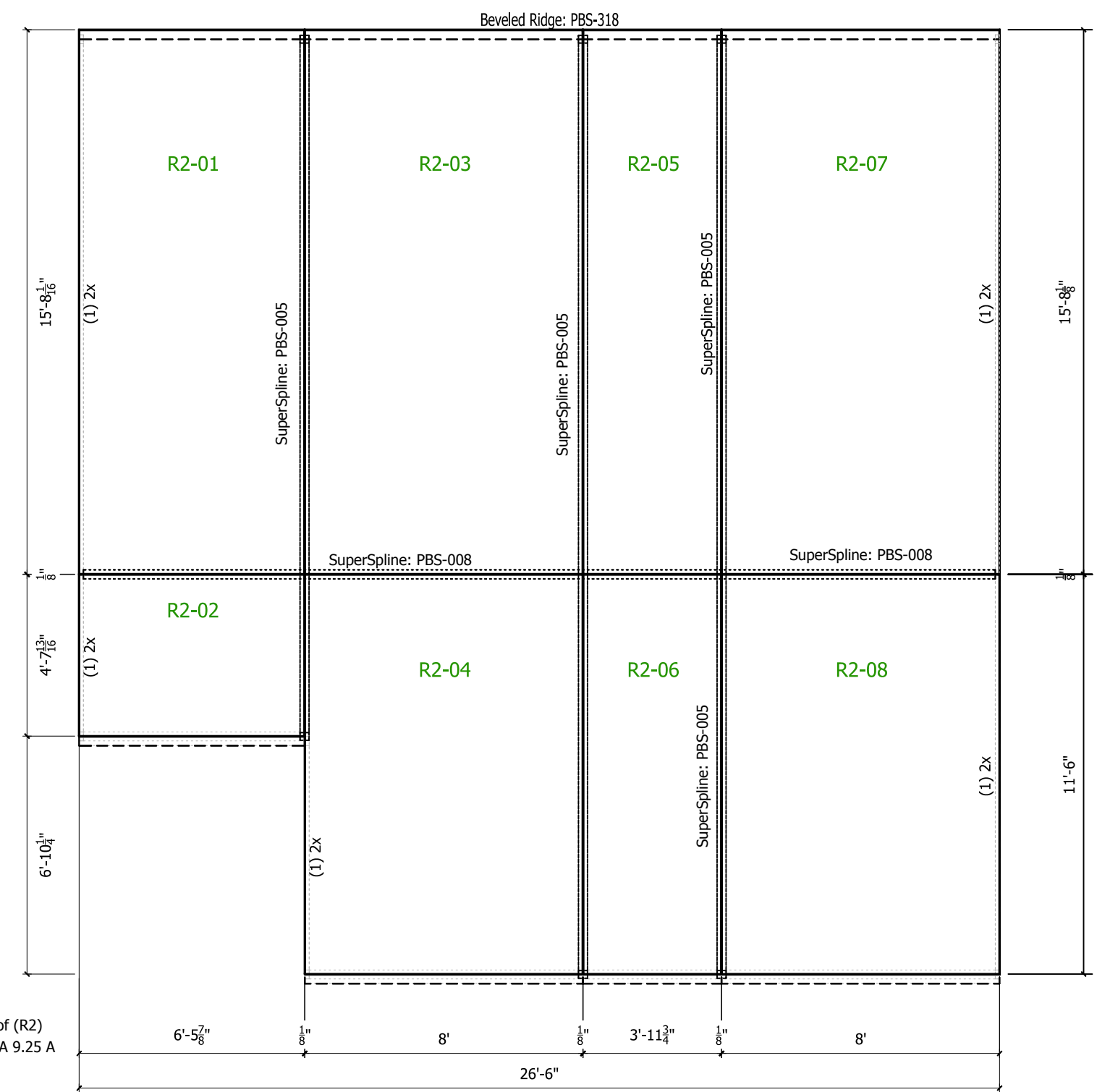
| CUSTOMER APPROVAL: | | DATE |
|--|--|------|
| AS A SUPPLIER OF MATERIALS, PREMIER BUILDING SYSTEMS DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE CONTRACTOR, AND/OR INSTALLER SHALL VERIFY ALL DIMENSIONS, AND/OR INFORMATION PROVIDED HEREON. THE OWNER TAKES FULL RESPONSIBILITY FOR THEIR ACCURACY. | | |

| PROJECT INFORMATION: | |
|--|--|
| CHAPPELL RESIDENCE 20160615-0001 SEATTLE, WA | |

| | |
|-----------|-----------|
| DRAWN: | MLK |
| CHECKED: | |
| DATE: | 2/13/2107 |
| SCALE: | VARIES |
| SHEET NO. | 5 OF 6 |



10 1/4" Panels

$$1/4'' = 1'-0''$$


19727 57th Ave
Puyallup, Wa 98375
800-275-7086

270 Floss Flat, Suite
Belgrade, MT 59714
406-388-5553

| REVISIONS: | | | |
|------------|---------|-----------|-------|
| # | DRAFTER | DATE | TYPE |
| 1. | MUK | 5/15/2017 | C-REV |
| 2. | MUK | 6/12/2017 | C-REV |
| 3. | MUK | 6/20/2017 | C-REV |
| 4. | | | |
| 5. | | | |

CUSTOMER APPROVAL:

CHAPPELL RESIDENCE
20160615-0001
SEATTLE, WA

| | |
|------------------|-----------|
| DRAWN: | MLK |
| CHECKED: | |
| DATE: | 2/13/2107 |
| SCALE: | VARIES |
| SHEET NO. 6 OF 6 | |



ZERO
ENERGY READY HOME

YOUR HOME WAS DESIGNED, ENGINEERED,
AND CONSTRUCTED IN CONFORMANCE TO
U.S. DEPARTMENT OF ENERGY (DOE)
GUIDELINES FOR EXTRAORDINARY
LEVELS OF EXCELLENCE AND QUALITY.

This home built at 2123 SW Dakota St
By TC Legend Homes
Verified by Elizabeth Coe

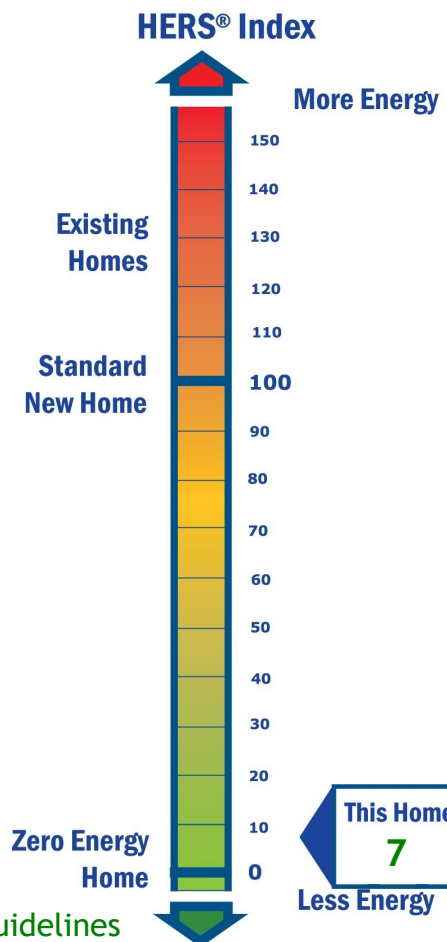
an independent professional
organization, to meet or exceed
strict home performance
guidelines set by
The U.S. Department of Energy
on 3/29/2018

THIS HOME MEETS OR EXCEEDS THE MINIMUM
CRITERIA FOR THE FOLLOWING:

DOE Zero Energy Ready Home Quality Management Guidelines

REM/Rate - Residential Energy Analysis and
Rating Software v15.4.2

SAM RASHKIN, CHIEF ARCHITECT
BUILDING TECHNOLOGIES
U.S. DEPARTMENT OF ENERGY



DOE Zero Energy Ready Home

| Energy Performance | |
|--|--|
| House Type | DOE Zero Energy Ready Home Builder Partner ID# |
| Single-family detached | 634 |
| Year built | Square footage of Conditioned Space including Basement |
| 2018 | 1949.0 |
| Number of Bedrooms | Square footage of Conditioned Space without Basement |
| 3 | 1949.0 |
| Site address (if not available, list the site Lot #) | Registered Builder |
| 2123 SW Dakota St | TC Legend Homes |
| Seattle | Certified Rater |
| WA, 98106 | Elizabeth Coe |
| HERS Index without On-site Generation | Date of Rating |
| 46 | 3/29/18 |
| HERS Index with On-site Generation | Rating Software |
| 7 | REM/Rate - v15.4.2 |
| HERS Index of the Target Home using size adjustment factor | Estimated annual energy costs(\$) |
| 67 | 370 |
| Estimated annual energy use | Estimated annual energy savings |
| Electric: 910 kWh \ Natural Gas: 31 Therms | Electric: 15727 kWh \ Natural gas: 0 Therms |
| Energy cost rates | Estimated annual emissions reductions |
| Electric: 0.10 \$/kWh \ Natural Gas: 1.25 \$/Therms | CO2: 2.3 tons / SO2: 1.4 lbs / NOx: 4.0 lbs |

DOE Zero Energy Ready Home Certification

As the certified Rater for this house, I certify this house meets/complies with all mandatory requirements of the DOE Zero Energy Ready home guidelines, including the following:

| | |
|---|---|
| X | Compliance with all ENERGY STAR Qualified Homes Version 3 requirements and checklists |
| X | Compliance with Mandatory Fenestration Requirements |
| X | Compliance with Mandatory Insulation Requirements |
| X | Compliance with Mandatory Duct Location Requirements |
| X | Compliance with Mandatory Appliance Requirements |
| X | Compliance with Mandatory Lighting Requirements |
| X | Compliance with Mandatory Fan Efficiency Requirements |
| X | Compliance with Mandatory EPA Indoor airPLUS |
| X | Compliance with Mandatory Water Efficiency Requirements |
| X | Compliance with Mandatory Renewable Energy Ready Solar Electric Requirements |
| | This home was qualified via sampling in lieu of testing, in accordance with allowable sampling provisions as stated in the DOE Zero Energy Ready Home National Program Requirements |

Optional Compliance for Builder Recognition

I further certify that the following also apply to this house:

| YES | NO | DON'T KNOW | Optional Home Builder Commitments for Recognition |
|-----|----|------------|---|
|-----|----|------------|---|

*Certification under the DOE Zero Energy Ready Home permits limited exceptions to full compliance with Indoor airPLUS. Builders seeking the Indoor airPLUS label must achieve full compliance with the Indoor airPLUS Verification Checklist.

REM/Rate - Residential Energy Analysis and Rating Software v15.4.2

This information does not constitute any warranty of energy cost or savings.

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DOE Zero Energy Ready Home

Optional Compliance for Builder Recognition

I further certify that the following also apply to this house:

| YES | NO | DON'T KNOW | Optional Home Builder Commitments for Recognition |
|-----|----|---------------|---|
| | X | | Certified under the EPA WaterSense for New Homes Program |
| | X | | Certified under the IBHS Fortified for Safer Living Program |
| X | | | Followed the DOE Zero Energy Ready Home Quality Management Guidelines |
| | | X | The buyer of this home signed a waiver giving DOE Zero Energy Ready Home access to utility bill data for one year |

*Certification under the DOE Zero Energy Ready Home permits limited exceptions to full compliance with Indoor airPLUS. Builders seeking the Indoor airPLUS label must achieve full compliance with the Indoor airPLUS Verification Checklist.



ENERGY STAR[®] CERTIFIED NEW HOME

Builder Name: TC Legend Homes
Permit Date/Number:
Home Address: 2123 SW Dakota St
Seattle, WA 98106

Rating Company: Ecoe Company
Rater Identification Number: 5849918
Rating Date: 3/29/18
Version: 3.1

Standard Features of an ENERGY STAR Certified New Home

Your ENERGY STAR certified new home has been designed, constructed, and independently verified to meet rigorous requirements for energy efficiency set by the U.S. Environmental Protection Agency (EPA), including:

Thermal Enclosure System

A complete thermal enclosure system that includes comprehensive air sealing, quality-installed insulation and high-performing windows to deliver improved comfort and lower utility bills.



Air Infiltration Test: **Htg: 0.36 Clg: 0.36 ACH50**

Primary Insulation Levels:

Ceiling: R-48.0

AGWall: R-29.0

**Slab: R-20.0,
R-20.0**

Primary Window Efficiency:

U-Value: 0.180, SHGC: 0.300

Water Management System

A comprehensive water management system to protect roofs, walls, and foundations.



Flashing, a drainage plane, and site grading to move water from the roof to the ground and then away from the home.

Water-resistant materials on below-grade walls and underneath slabs to reduce the potential for water entering into the home.

Management of moisture levels in building materials during construction.

Heating, Cooling, and Ventilation System

A high-efficiency heating, cooling system, and ventilation system that is designed and installed for optimal performance.



Total Duct Leakage:

NA

Duct Leakage to Outdoors:

NA

Primary Heating (System Type • Fuel Type • Efficiency):

Air-source heat pump, Electric, 3.5 COP.

Primary Cooling (System Type • Fuel Type • Efficiency):

Air-source heat pump, Electric, 3.5 COP.

Energy Efficient Lighting and Appliances

Energy efficient products to help reduce utility bills, while providing high-quality performance.



ENERGY STAR Qualified Lighting: **100%**

ENERGY STAR Qualified Appliances and Fans:

Refrigerators: 1

Dishwashers: 1

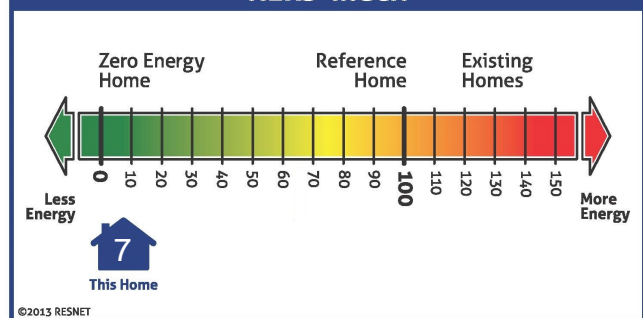
Ceiling Fans: 0

Exhaust Fans: 1

Primary Water Heater (System Type • Fuel Type • Efficiency):

Heat pump, Electric, 2.50 EF, 50.0 Gal.

HERS[®] Index



The certificate provides a summary of the major energy efficiency and other construction features that contribute to this home earning the ENERGY STAR, including its Home Energy Rating System (HERS) score, as determined through independent inspection and verification performed by a trained professional. The home Energy Rating System is a nationally-recognized uniform measurement of the energy efficiency of homes.

Note that when a home contains multiple performance levels for a particular feature (e.g., window efficiency or insulation levels), the predominant value is shown. Also, homes may be certified to earn the ENERGY STAR using a sampling protocol, whereby one home is randomly selected from a set of homes for representative inspections and testing. In such cases, the features found in each home within the set are intended to meet or exceed the values presented on this certificate. The actual values for your home may differ, but offer equivalent or better performance.

This certificate was printed using REM/Rate - v15.4.2.
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Learn more at www.energystar.gov/homefeatures



CERTIFIED NEW HOME

ENERGY STAR

Address:

**2123 SW Dakota St
Seattle, WA**

Built by:

TC Legend Homes

Verified by:

Elizabeth Coe

Date:

3/29/18

ENERGY STAR® for Homes Version Number:

Version 3.1

Optional information:

HERS Index: 7

This home has been independently verified to meet EPA's strict
guidelines for energy efficiency.

Learn more at energystar.gov

Home Energy Rating Certificate

Property

Chappell
2123 SW Dakota St
Seattle, WA 98106

HERS

Rating Type: Confirmed
Rating Date: 3/29/18
Registry ID: 632470786

Certified Energy Rater: Elizabeth Coe
Rating Number:

HERS Index: 7

General Information

| | | | |
|--------------------|-----------------|------------|------------------------|
| Conditioned Area | 1949 sq. ft. | House Type | Single-family detached |
| Conditioned Volume | 20593 cubic ft. | Foundation | Slab |
| Bedrooms | 3 | | |

Mechanical Systems Features

| | |
|-------------------------|--|
| Water Heating: | Heat pump, Electric, 2.50 EF, 50.0 Gal. |
| Heating: | Air-source heat pump, Electric, 3.5 COP. |
| Cooling: | Air-source heat pump, Electric, 3.5 COP. |
| Duct Leakage to Outside | NA |
| Ventilation System | Balanced: HRV, 84 cfm, 34.0 watts. |
| Programmable Thermostat | Heat=Yes; Cool=Yes |

Building Shell Features

| | | | |
|-------------------|--------|-------------------|-----------------------------|
| Ceiling Flat | NA | Slab | R-20.0 Edge, R-20.0 Under |
| Sealed Attic | NA | Exposed Floor | NA |
| Vaulted Ceiling | R-48.0 | Window Type | U-Value: 0.180, SHGC: 0.300 |
| Above Grade Walls | R-29.0 | Infiltration Rate | Htg: 0.36 Clg: 0.36 ACH50 |
| Foundation Walls | NA | Method | Blower door test |

Lights and Appliance Features

| | | | |
|---------------------------|--------|------------------------|-------------|
| Percent Interior Lighting | 100.00 | Range/Oven Fuel | Natural gas |
| Percent Garage Lighting | 100.00 | Clothes Dryer Fuel | Electric |
| Refrigerator (kWh/yr) | 520 | Clothes Dryer CEF | 3.42 |
| Dishwasher (kWh/yr) | 259 | Ceiling Fan (cfm/Watt) | 0.00 |

Estimated Annual Energy Cost

| Use | MMBtu | Cost | Percent |
|-------------------|------------|--------------|-------------|
| Heating | 6.3 | \$232 | 63% |
| Cooling | 1.1 | \$41 | 11% |
| Hot Water | 3.0 | \$110 | 30% |
| Lights/Appliances | 18.6 | \$612 | 165% |
| Photovoltaics | -22.8 | \$-842 | -227% |
| Service Charges | | \$217 | 59% |
| Total | 6.2 | \$370 | 100% |

Criteria

This home meets or exceeds the minimum criteria for the following:

TITLE

Company

Address

City, State, Zip

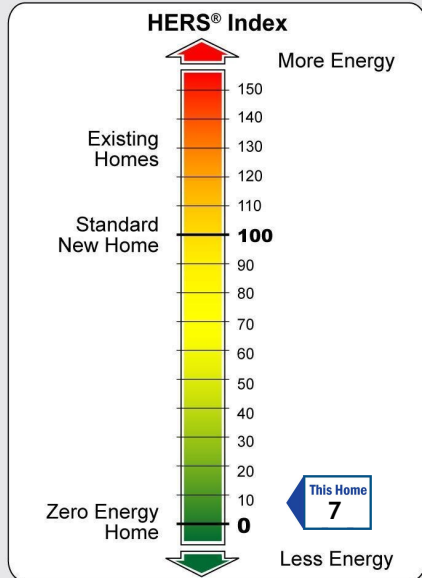
Phone #

Fax #

REM/Rate - Residential Energy Analysis and Rating Software v15.4.2

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The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

RESNET HERS Index Certificate



2123 SW Dakota St
Seattle, WA 98106
Rater: Elizabeth Coe
Registry ID: 632470786
Annual Estimates*:
Elec(kWh): 910 Gas(Therms): 31
CO2 emissions(Tons): 0
Energy Savings (\$)**: 2636
*Based on standard operating conditions
**Based on U.S. DOE designation of a HERS
Index of 130 as the 'Typical Existing Home'

TITLE
Company
Address
City, State, Zip
Phone #

This home has been inspected
and performance tested in
accordance with Chapter 3 of
the RESNET standards.

RESNET®
www.resnet.us

Indoor airPLUS Qualified Home

This home built at
2123 SW Dakota St
Seattle, WA 98106
was verified by
Elizabeth Coe

to meet Indoor airPLUS construction
specifications as established
by the
U.S. Environmental Protection Agency.



Indoor airPLUS qualified homes are
designed to contribute to improved
indoor air quality.

3/29/18



Indoor airPLUS Features

- Moisture and Mold Control
- Radon Resistant Construction
- Pest Barriers
- Effective Heating, Ventilating, and Air-Conditioning Systems
- Safe Combustion
- Healthier Building Materials

Not all features are required in all cases. To learn more about indoor air quality features in your home, ask your builder to review the Indoor airPLUS verification checklist with you, or visit www.epa.gov/indoorairplus.



Built by:

TC Legend Homes

Verified by:

Elizabeth Coe

Date:

3/29/18

New homes that are Indoor airPLUS qualified meet U.S. Environmental Protection Agency guidelines for improved indoor air quality.

www.epa.gov/indoorairplus



Building Envelope Air Leakage Testing Data

| | |
|---------------------------------|--------------------------------|
| Date: | 03/26/2018 |
| Builder: | TC Legend Homes |
| Property Address: | 2123 SW Dakota St, Seattle, WA |
| Test Pass or Fail: | Pass |
| ACH 50: | 0.41 |
| Conditioned Square Feet/Volume: | 1949/18418 |
| CFM @ 50 Pa: | 126 |
| Technician: | Elizabeth Coe |
| Notes: | |
| | |











