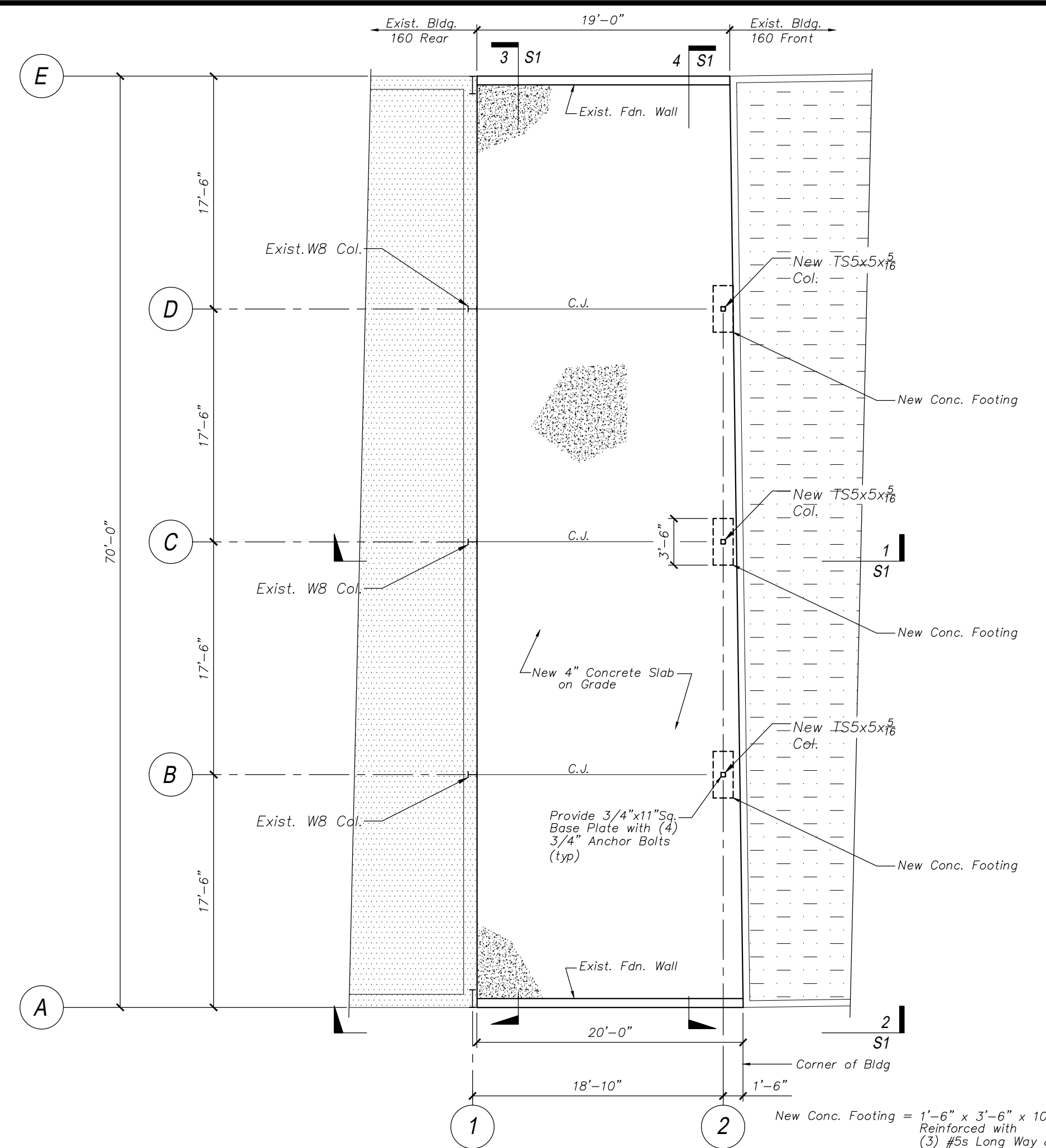
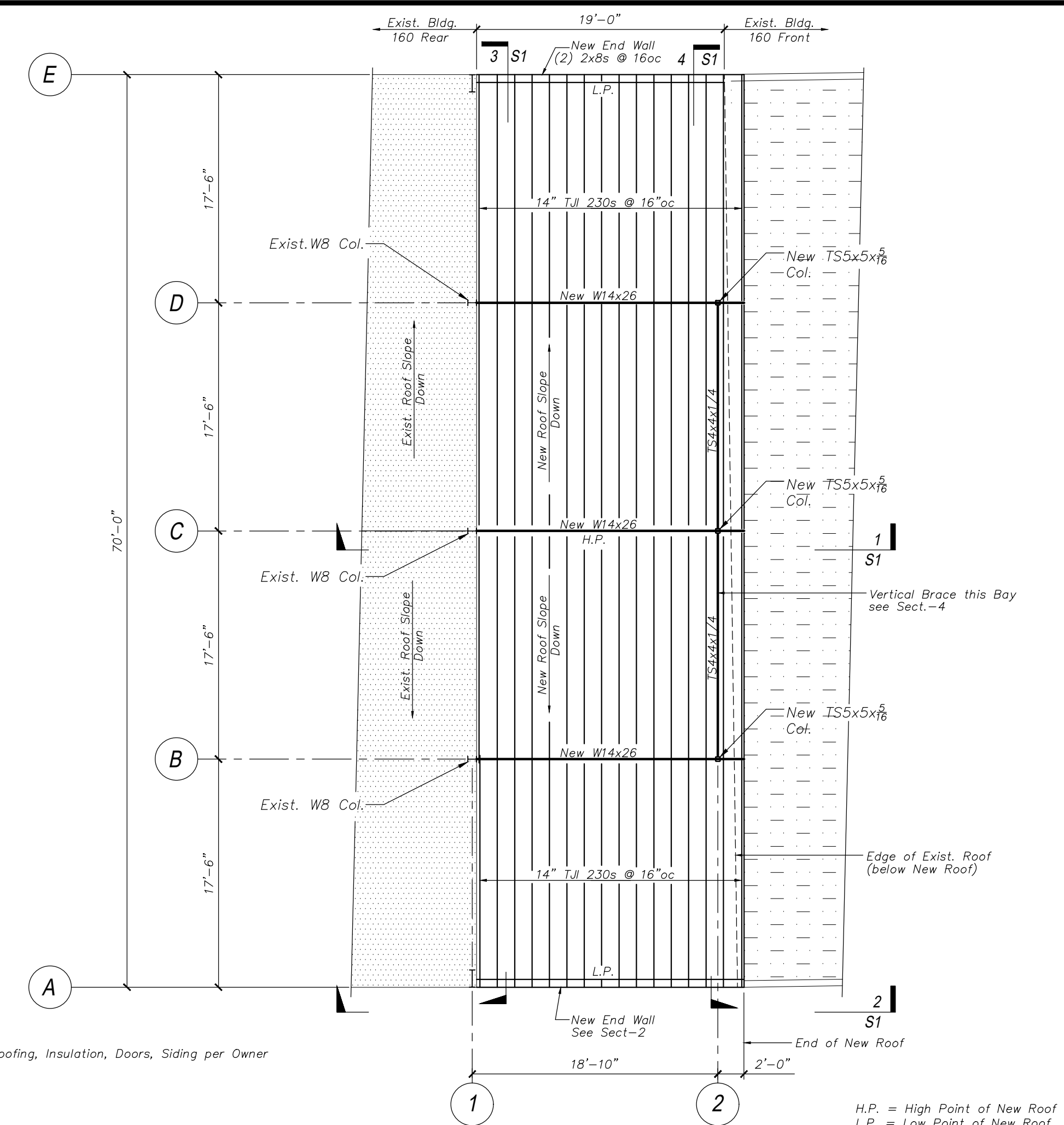


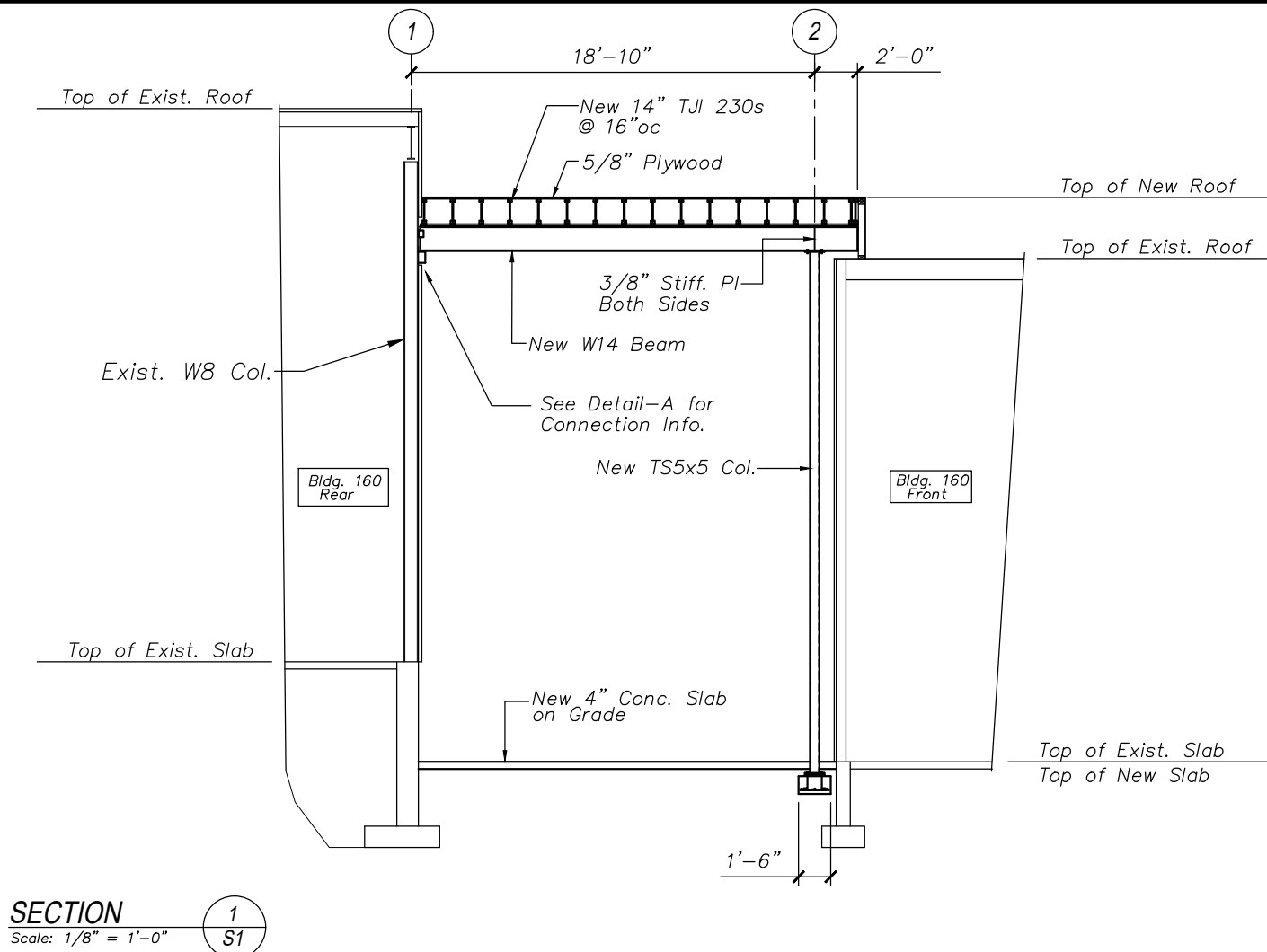
**PART BUILDING PLAN - EXISTING CONDITIONS**  
Scale: 1/8" = 1'-0"  
AT PROPOSED IN-FILL AREA



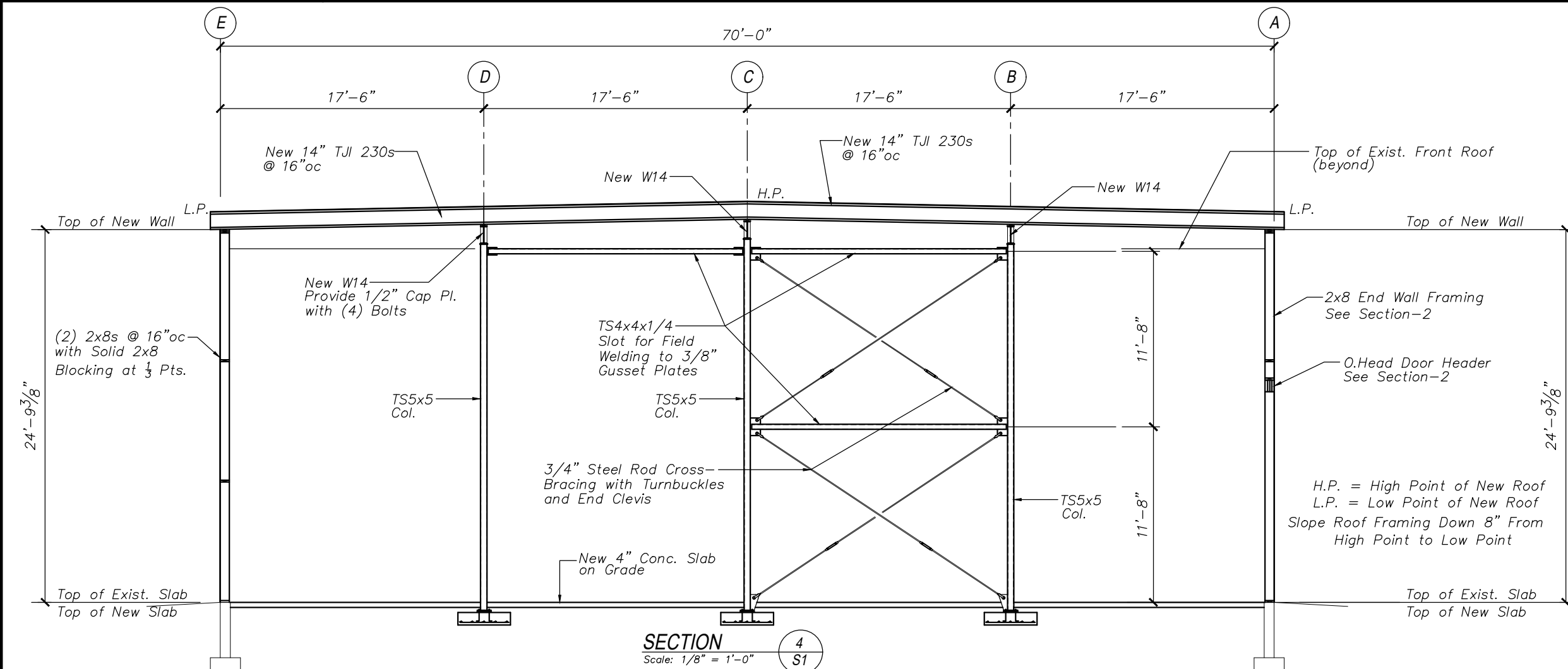
**PART FOUNDATION PLAN - NEW INFILL AREA**  
Scale: 1/8" = 1'-0"  
C.J. = Control Joint



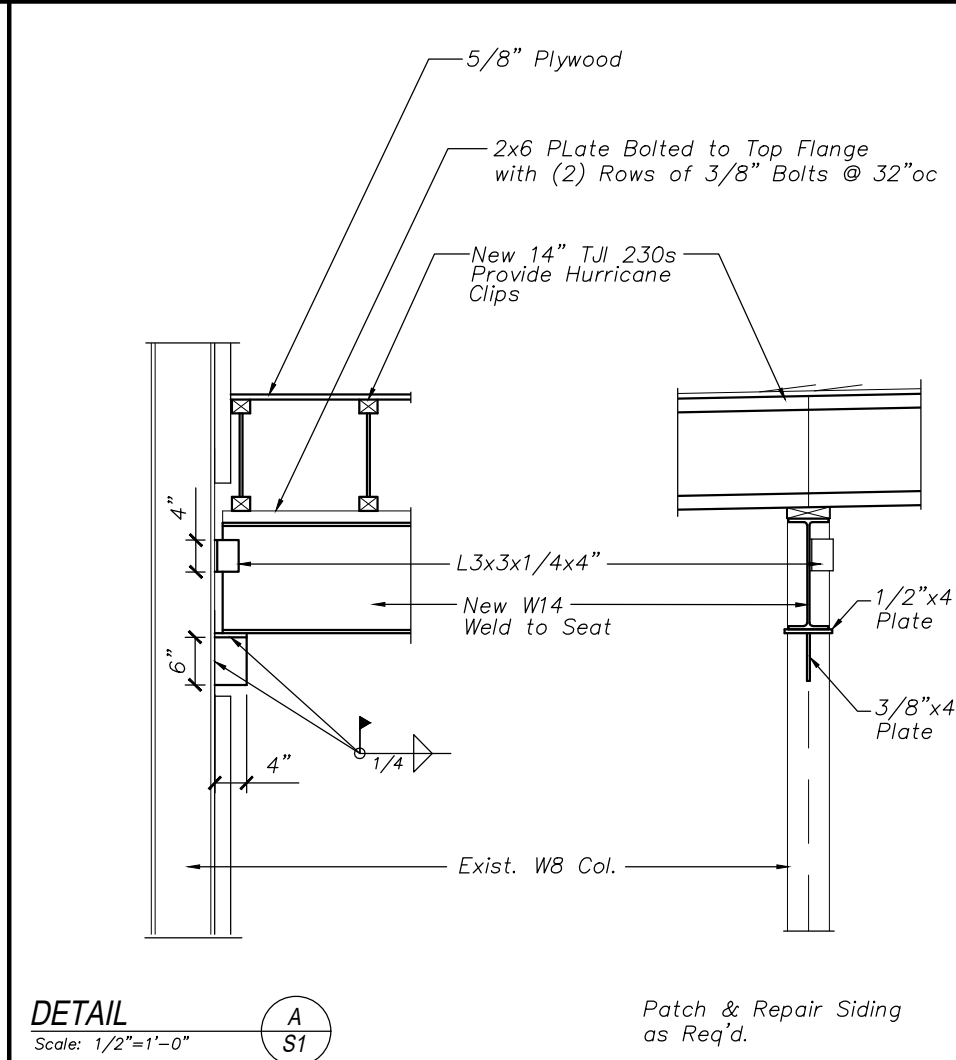
**PART ROOF FRAMING PLAN - NEW INFILL AREA**  
Scale: 1/8" = 1'-0"  
H.P. = High Point of New Roof  
L.P. = Low Point of New Roof  
Slope Roof Framing Down 8" From High Point to Low Point



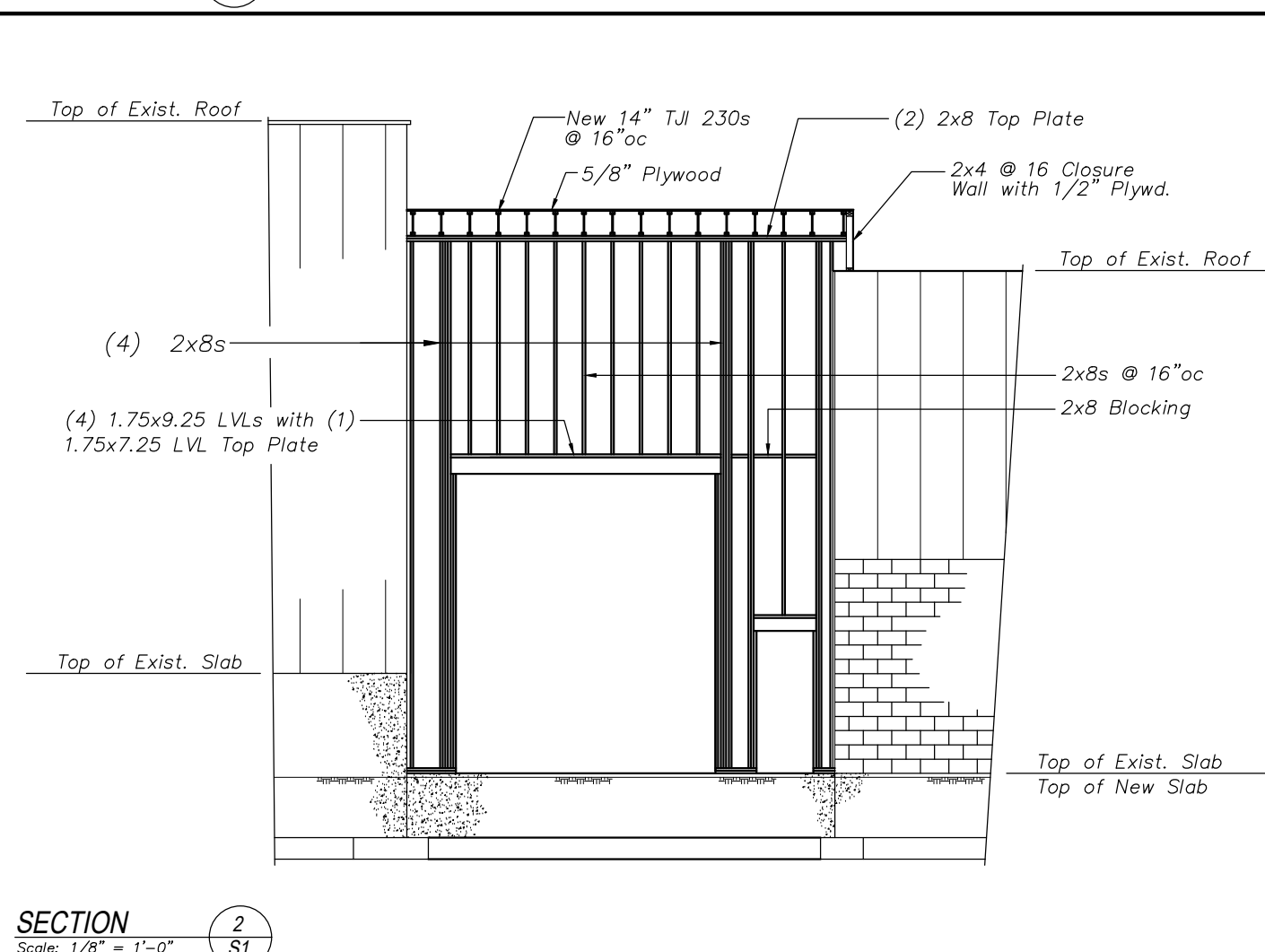
**SECTION 1**  
Scale: 1/8" = 1'-0"  
S1



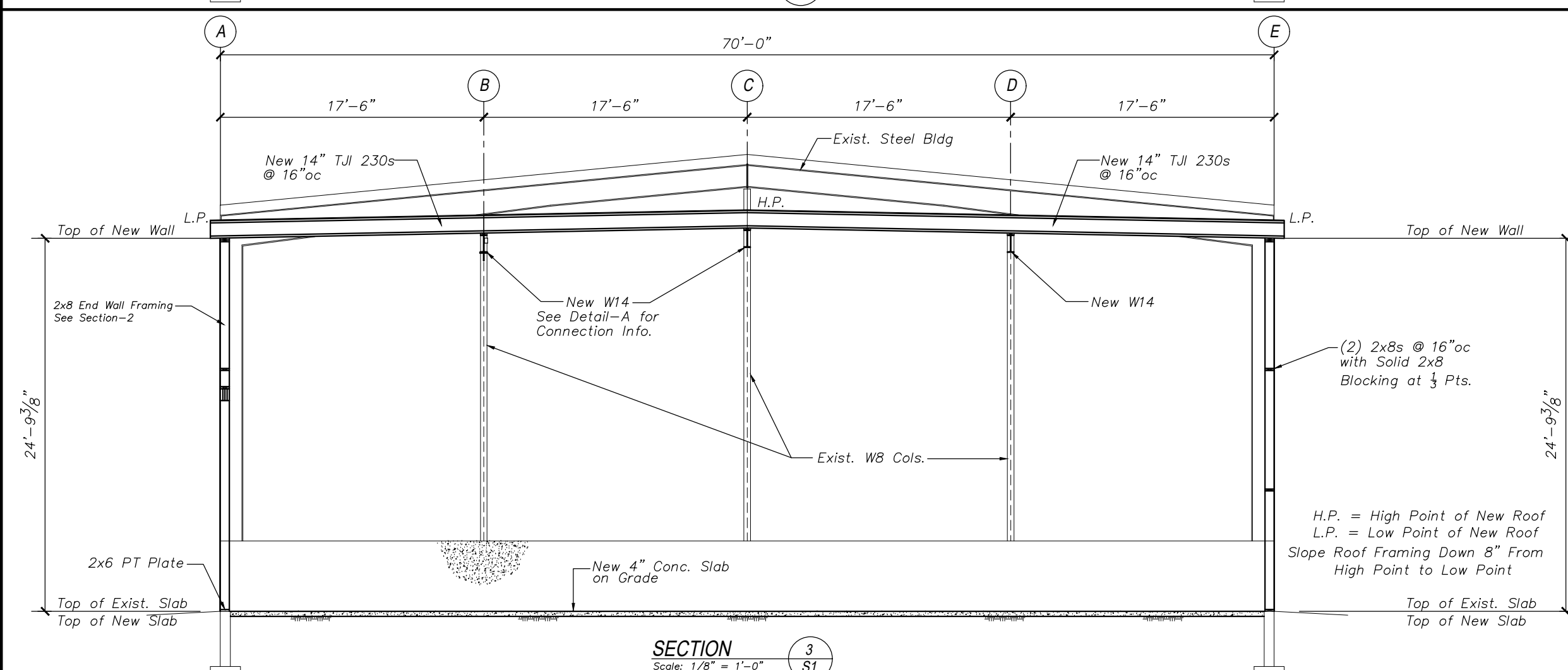
**SECTION 4**  
Scale: 1/8" = 1'-0"  
S1



**DETAIL A**  
Scale: 1/2" = 1'-0"  
S1  
Patch & Repair Siding as Req'd.



**SECTION 2**  
Scale: 1/8" = 1'-0"  
S1



**SECTION 3**  
Scale: 1/8" = 1'-0"  
S1

**STRUCTURAL DESIGN CRITERIA:**

1. BUILDING CODE: 2009 EDITION OF THE INTERNATIONAL BUILDING CODE.

2. DESIGN WIND LOADS - MAIN WIND FORCE RESISTING SYSTEM:  
DESIGN WIND SPEED = 90 MPH  
IMPORTANCE FACTOR  $I_w$  = 1.1  
EXPOSURE CATEGORY = B

3. SNOW:  
GROUND SNOW LOAD = 60 PSF  
IMPORTANCE FACTOR  $I_s$  = 1.0  
EXPOSURE FACTOR  $C_e$  = 0.7  
FLAT ROOF SNOW LOAD = 42 PSF plus DRIFTING SNOW

**GENERAL NOTES:**

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS.

2. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.

3. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE STRUCTURE AND PERSONNEL DURING ERECTION.

4. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.

**CONCRETE NOTES:**

- ALL CONCRETE WORK SHALL CONFORM TO ACI-318-LATEST EDITION.
- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI, MAXIMUM SIZE AGGREGATE SHALL BE 3/4".
- CONCRETE TO REMAIN EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.
- CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.

**STRUCTURAL STEEL NOTES - GENERAL:**

- STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL" 13th EDITION.
- ALL STEEL WIDE FLANGE SHAPES TO BE A572/A992 50 KSI AND STEEL PLATES TO BE ASTM A36 UNLESS NOTED OTHERWISE.
- STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. STEEL PIPES SHALL BE A53, GRADE B.
- ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIA. ASTM A325 HIGH STRENGTH BOLTS.
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 - LATEST EDITION. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES.
- STRUCTURAL STEEL SHALL BE PAINTED WITH A SHOP APPLIED COAT OF THE FABRICATOR'S RUST INHIBITIVE PRIMER.
- SUBMIT COMPLETE STRUCTURAL STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO ANY STEEL FABRICATION.

**WOOD FRAMING NOTES:**

- STRUCTURAL LUMBER: No. 2 SPRUCE PINE FIR OR BETTER.  
 $F_b$  = 750 PSI  $F_v$  = 70 PSI  
 $F_c$  = 975 PSI  $E$  = 1100000 PSI
- FASTENERS: COMPLY WITH RECOMMENDED FASTENING SCHEDULE OF THE INTERNATIONAL BUILDING CODE, 2009 EDITION, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- NAILING REQUIREMENTS FOR PLYWOOD ROOF DECK:  
8d NAILS @ 6" o.c. ALONG PANEL EDGES  
8d NAILS @ 12" o.c. ALONG INTERMEDIATE MEMBERS
- PROVIDE PRESSURE TREATED LUMBER FOR ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE.

**FOUNDATION NOTES:**

- FOUNDATION DESIGN BASED ON AN ASSUMED MAXIMUM ALLOWABLE BEARING PRESSURE OF 3000 PSF. IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO VERIFY THE SOIL BEARING CAPACITY.
- DESIGN OF EXTERIOR FOUNDATIONS IS BASED ON A FROST DEPTH OF 4'-6" BELOW FINISHED GRADE.
- EXCAVATING AND BACK FILLING AT NEW AND EXISTING FOUNDATION WALLS SHALL BE DONE SUCH THAT SYMMETRICAL LOADING SHALL BE MAINTAINED ON BOTH SIDES. WHERE DESIGN CONDITIONS REQUIRE DIFFERENT BACK FILL HEIGHTS, WALLS SHALL BE FIRMLY SHORED IN POSITION, AND SHORES SHALL REMAIN UNTIL FLOORS ARE PLACED AND PROPERLY SET, TO PROVIDE FULL SUPPORT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, INSTALLATION, AND FINAL CLEARANCE OF ANY NEEDING, SHORING, OR BRACING OF EXISTING STRUCTURES.

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SEI

ME

Portland

Building In-Fill  
160 Presumpscot St.

Issue	Date
Review	1/12/16

TIMOTHY G. SHELLEY  
No. 5982  
LICENSED PROFESSIONAL ENGINEER

**SHEET TITLE:**  
Structural

S1 of 1

SEI Job # 2016-008