

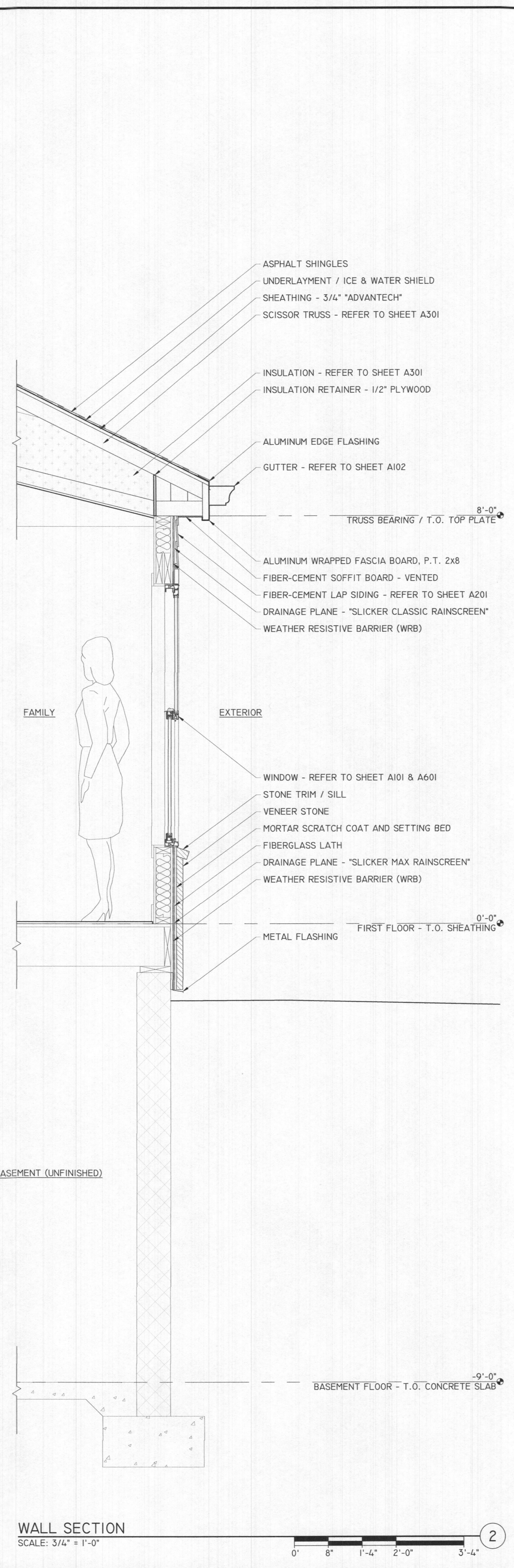
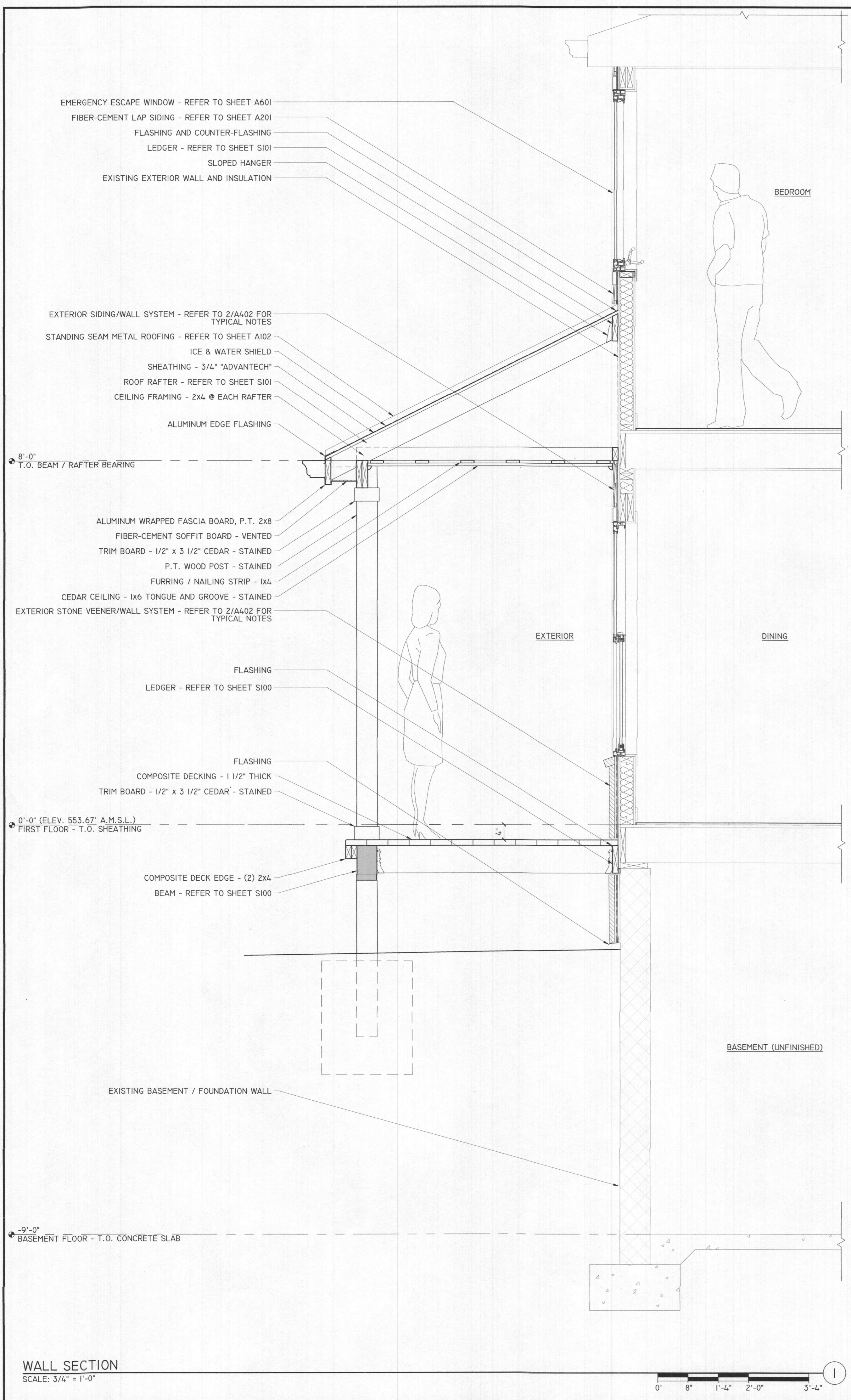


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LAWS OF THE STATE OF MARYLAND.  
LICENSE NUMBER 18946  
EXPIRATION DATE 04/03/2025  
M.D.

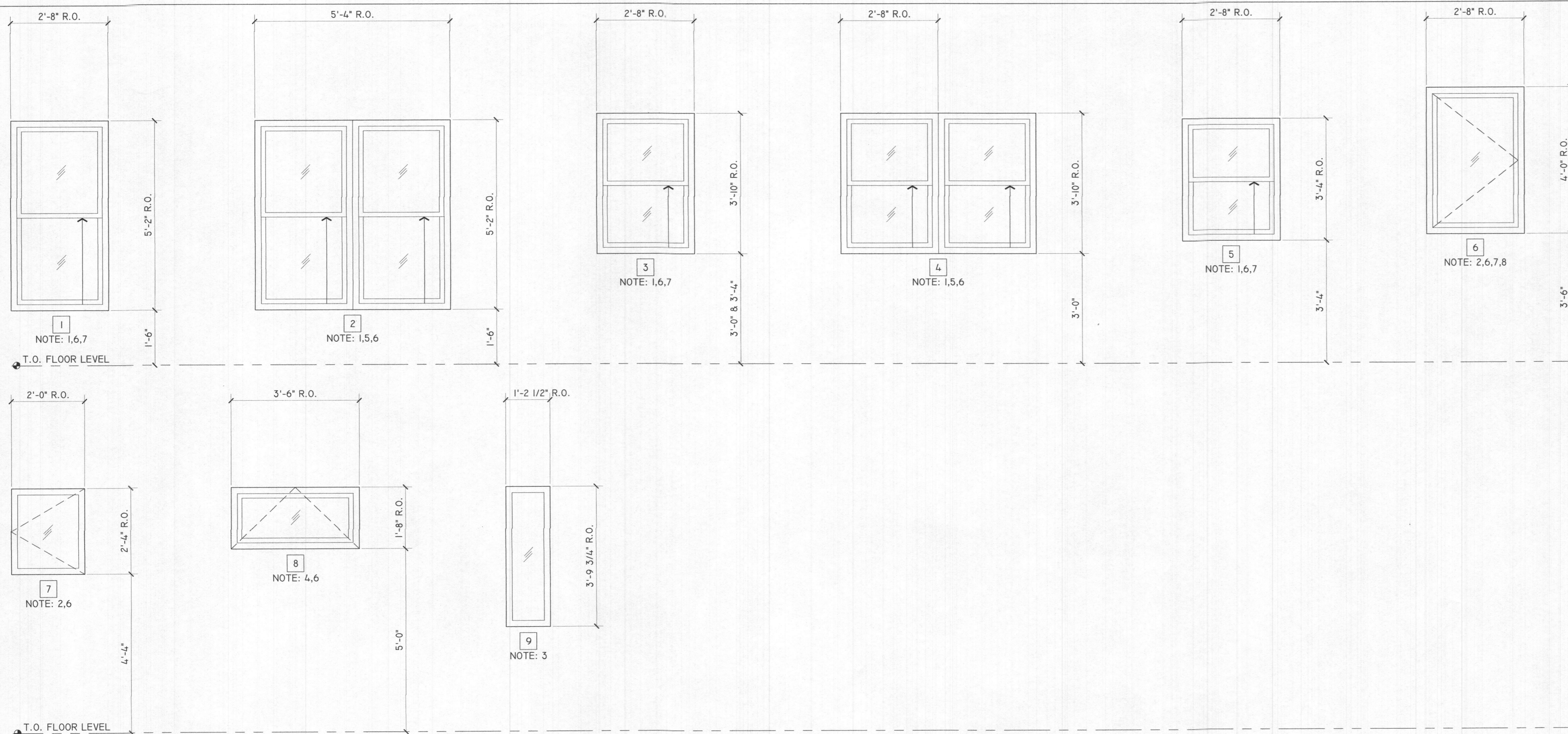
SHEET TITLE: **WALL SECTIONS**  
PROJECT NAME: **LEHMER ADDITION & RENOVATION**  
PROJECT NO: 2019.08  
PROJECT ADDRESS: 14576 MACCLINTOCK DRIVE, GLENWOOD, MD 21738

DATE:	DESCRIPTION:
07/21/2023	PERMIT SET

SHEET NUMBER:  
**A402**  
PERMIT SET



WINDOW ELEVATIONS & SCHEDULE



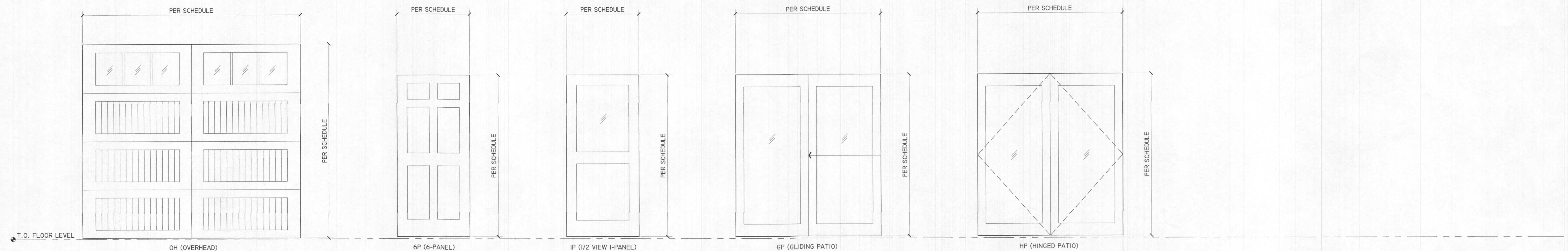
DOOR SCHEDULE

OPENING NO.	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	ADDITIONAL NOTES / HARDWARE
002A	HP	(2) 2'-8"	6'-8"	1-3/4"	FIBERGLASS	NOTE 12, 14
100A	OH	9'-0"	8'-0"	2"	FIBERGLASS	NOTE 9, 15
100B	OH	9'-0"	8'-0"	2"	FIBERGLASS	NOTE 9, 15
100C	IP	3'-0"	6'-8"	1-3/4"	STEEL	NOTE 10, 16
100D	IP	3'-0"	6'-8"	1-3/4"	STEEL	NOTE 10, 16
100E	6P	3'-0"	6'-8"	1-3/4"	STEEL	NOTE 10, 16, 17
101A	6P	2'-8"	6'-8"	1-3/8"	SOLID CORE WOOD	NOTE 10, 18
101B	6P	(2) 2'-0"	6'-8"	1-3/8"	SOLID CORE WOOD	NOTE 10, 19
107A	6P	3'-0"	6'-8"	1-3/4"	FIBERGLASS	NOTE 13, 16

WINDOW & DOOR ELEVATION & SCHEDULE NOTES:

1. INSULATED SINGLE HUNG WINDOW WITH DUAL PANE LOW-E GLAZING U-FACTOR < 0.30 AND SHGC < 0.30 - BASIS-OF-DESIGN: ANDERSEN SERIES 100 (BLACK)
2. INSULATED CASEMENT WINDOW WITH DUAL PANE LOW-E GLAZING U-FACTOR < 0.30 AND SHGC < 0.30 - BASIS-OF-DESIGN: ANDERSEN SERIES 100 (BLACK)
3. INSULATED FIXED DECK MOUNTED SKYLIGHT WITH DUAL PANE LOW-E GLAZING U-FACTOR < 0.30 AND SHGC < 0.30 - BASIS-OF-DESIGN: VELUX A06
4. INSULATED AWNING WINDOW WITH DUAL PANE LOW-E GLAZING U-FACTOR < 0.30 AND SHGC < 0.30 - BASIS-OF-DESIGN: ANDERSEN SERIES 100 (BLACK)
5. MULL UNIT IN FACTORY
6. PROVIDE INSECT SCREEN
7. FIELD VERIFY EXISTING ROUGH OPENING DIMENSIONS AT REPLACEMENT LOCATIONS
8. EMERGENCY ESCAPE AND RESCUE OPENING WITH A NET CLEAR OPENING NOT LESS THAN 5.7 SQUARE FEET
9. INSULATED FIBERGLASS OVERHEAD DOOR WITH VISION LITES - BASIS-OF-DESIGN: OVERHEAD DOOR IMPRESSION COLLECTION WITH VERTICAL LONG PANEL (983) WITH CHERRY STAIN FINISH (CONFIRM ALL FINISH SELECTIONS WITH OWNER PRIOR TO ORDERING)
10. BASIS-OF-DESIGN: JELD WEN
11. BASIS-OF-DESIGN: ANDERSEN A-SERIES GLIDING PATIO DOOR
12. BASIS-OF-DESIGN: ANDERSEN 200-SERIES HINGED PATIO DOOR
13. BASIS-OF-DESIGN: PROVIA SIGNET SERIES WITH SIDELITES TO MATCH EXISTING OPENING WIDTH
14. ASTRAGAL WITH KEYS LOCKSET HARDWARE
15. AUTOMATIC OVERHEAD OPERATOR AND GARAGE DOOR HARDWARE AND SEALS
16. ENTRANCE HARDWARE
17. 20-MINUTE FIRE-RATED
18. PASSAGE HARDWARE
19. BYPASS HARDWARE

DOOR ELEVATIONS & TYPES



WILLOUGHBY DESIGN, LLC  
 PO BOX 651145  
 POTOMAC FALLS, VIRGINIA 20165 U.S.A.  
 TEL: 703.472.4006 FAX: 703.404.4727  
 EMAIL: TWILLOUGHBY@WILLOUGHBYDESIGNLLC.COM

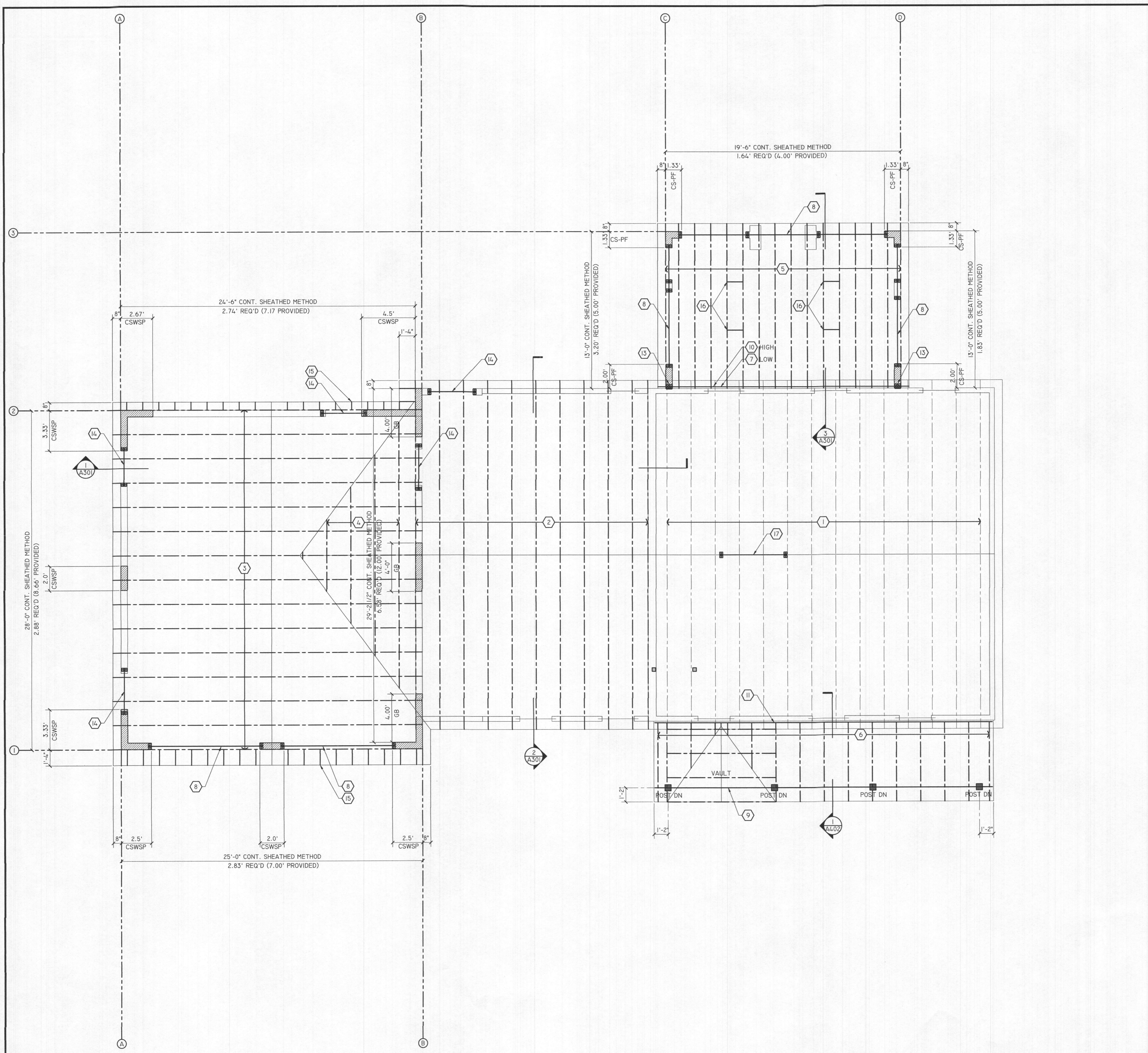


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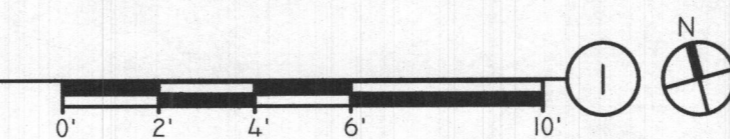
SHEET TITLE: DOOR & WINDOW SCHEDULES  
 PROJECT NAME: LEHMER ADDITION & RENOVATION  
 PROJECT NO: 2019.08  
 PROJECT ADDRESS: 14576 MACCLINTOCK DRIVE, GLENWOOD, MD 21738

DATE:	DESCRIPTION:
07/21/2023	PERMIT SET

SHEET NUMBER:  
**A601**  
 PERMIT SET



ROOF FRAMING & WALL BRACING PLAN  
SCALE: 1/4" = 1'-0"

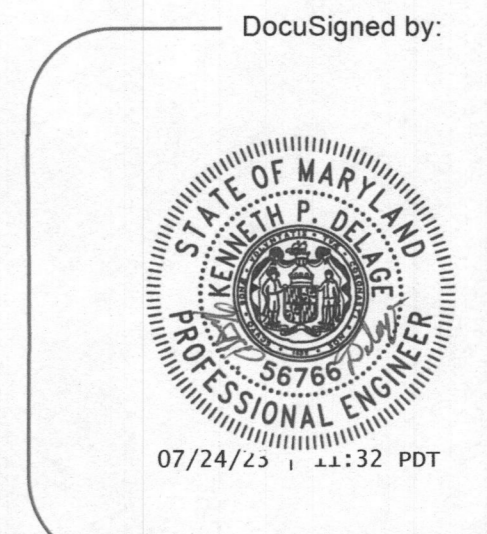


GENERAL NOTES

- REFER TO SHEET S100 FOR ADDITIONAL STRUCTURAL NOTES.
- REFER TO SHEET S100 & A101 FOR ADDITIONAL DIMENSION INFORMATION.
- REFER TO BUILDING SECTIONS AND WALL SECTIONS FOR ADDITIONAL DETAIL CALLOUTS.

KEY NOTES

- EXISTING ROOF TRUSSES @ HIGH ROOF AREA
- PRE-ENGINEERED SCISSOR TRUSSES - REFER TO SHEET A301
- PRE-ENGINEERED ROOF TRUSSES
- OVER-FRAMING - 2x8 @ 24" O.C.
- ROOF RAFTERS - 2x10 @ 16" O.C.
- ROOF RAFTERS - 2x6 @ 24" O.C.
- BEAM - (3) 1 3/4" x 20" LVL 2.0E - REFER TO 3/A401 & 5/S201
- BEAM / HEADER - (2) 2x12 W/ (2) 2x6 JACKS @ EACH END
- BEAM - (2) P.T. 2x8
- LEDGER - P.T. 2x10 W/ SIMPSON ANCHOR THD37400 @ 14" O.C. (2) SCREWS PER STUD
- LEDGER - P.T. 2x8 W/ SIMPSON ANCHOR THD37400 @ (2) SCREWS @ EACH EXISTING STUD (NOT USED)
- WOOD POST - (3) 2x6
- BEAM / HEADER - (2) 2x8 W/ (1) 2x6 JACK @ EACH END
- EAVE EXTENSION OUTRIGGER - 2x @ 16" O.C.
- BLOCKING - 2x PER SKYLIGHT MANUFACTURER'S REQUIREMENTS
- BEAM / HEADER - (3) 1 3/4" x 9 1/2" LVL 2.0E W/ (2) 2x6 JACKS @ EACH END



WALL BRACING COMPLIANCE CHART

		WIND SPEED (MPH)								
		90		100		110		120		
		1	2	3	A	B	C	D		
BWL DESIGNATION		1	2	3	A	B	C	D		
NUMBER OF FLOORS ABOVE BWL		0	0	0	0	0	0	0		
BWP METHOD		CS-WSP	CS-WSP	CS-PF	CS-WSP	GB	CS-PF	CS-PF		
AVERAGE BWL SPACING (ft)		14	13.5	7	12.5	23	20	10		
TABULAR REQUIREMENT (ft)		2.60	2.53	2.00	2.38	7.75	3.50	2.00		
ADJUSTMENT	EXPOSURE	B 1.00	B 1.00	B 1.00	B 1.00	B 1.00	B 1.00	B 1.00		
	EAVE-TO-RIDGE HT (ft)	8.00 0.88	8.00 0.88	3.00 0.70	8.00 0.88	8.00 0.88	3.00 0.70	3.00 0.70		
	MAXIMUM WALL HEIGHT (ft)	9.00 0.95	9.00 0.95	8.00 0.90	9.00 0.95	9.00 0.95	8.00 0.90	8.00 0.90		
	NUMBER OF BWLS	3 1.30	3 1.30	3 1.30	4 1.45	4 1.45	4 1.45	4 1.45		
	OMIT INTERIOR FINISH	No 1.00	No 1.00	No 1.00	No 1.00	No 1.00	No 1.00	No 1.00		
	ADD PAIR 800# HOLD DOWNS	No 1.00	No 1.00	No 1.00	No 1.00	No 1.00	No 1.00	No 1.00		
	HORIZONTAL JOINTS BLOCKED	Yes 1.00	Yes 1.00	Yes 1.00	Yes 1.00	Yes 1.00	Yes 1.00	Yes 1.00		
	REDUCED FASTENER SPACING	No 1.00	No 1.00	No 1.00	No 1.00	Yes 0.70	No 1.00	No 1.00		
	REQUIRED BWP LENGTH (ft)		2.83	2.74	1.64	2.88	6.58	3.20	1.83	
	ACTUAL BWP	CONTRIBUTING LENGTH (feet)	1		2		3		4	
		BWP METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	
		1 CS-WSP	2.50	CS-WSP	2.67	CS-PF	2.00	CS-WSP	3.33	
		2 CS-WSP	2.00	CS-WSP	4.50	CS-PF	2.00	CS-WSP	2.00	
		3 CS-WSP	2.50				CS-WSP	3.33	GB (ds)	
		4							4.00	
		5								
ACTUAL BWP LENGTH (ft)		7.00	7.17	4.00	8.66	12.00	5.00	5.00		
ACTUAL ≥ REQUIRED?		PASS	PASS	PASS	PASS	PASS	PASS	PASS		
BWPs ≤ 20' APART?		Yes	Yes	Yes	Yes	Yes	Yes	Yes		
≥ 2 PANELS IN BWL?		Yes	Yes	Yes	Yes	Yes	Yes	Yes		
BWP BEGINS ≤ 10' FROM ENDS?		Yes	Yes	Yes	Yes	Yes	Yes	Yes		
CONTINUOUS SHEATHING END CONDITIONS		END 1	END 2	END 1	END 2	END 1	END 2	END 1		
BWL COMPLIANCE		PASS	PASS	PASS	PASS	PASS	PASS	PASS		

**WILLOUGHBY DESIGN, LLC**  
 PO BOX 651145  
 POTOMAC FALLS, VIRGINIA 20165 U.S.A.  
 TEL: 703.472.4006 FAX: 703.404.4727  
 EMAIL: TWILLOUGHBY@WILLOUGHBYDESIGNLLC.COM

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DocuSigned by:  07/24/23 1:44:32 PDT

SHEET TITLE: **ROOF FRAMING & WALL BRACING PLAN**  
 PROJECT NAME: **LEHMER ADDITION & RENOVATION**  
 PROJECT NO: 2019.08  
 PROJECT ADDRESS: 14576 MACCLINTOCK DRIVE, GLENWOOD, MD 21738

DATE: 07/21/2023 DESCRIPTION: PERMIT SET

SHEET NUMBER: **S101**  
 PERMIT SET



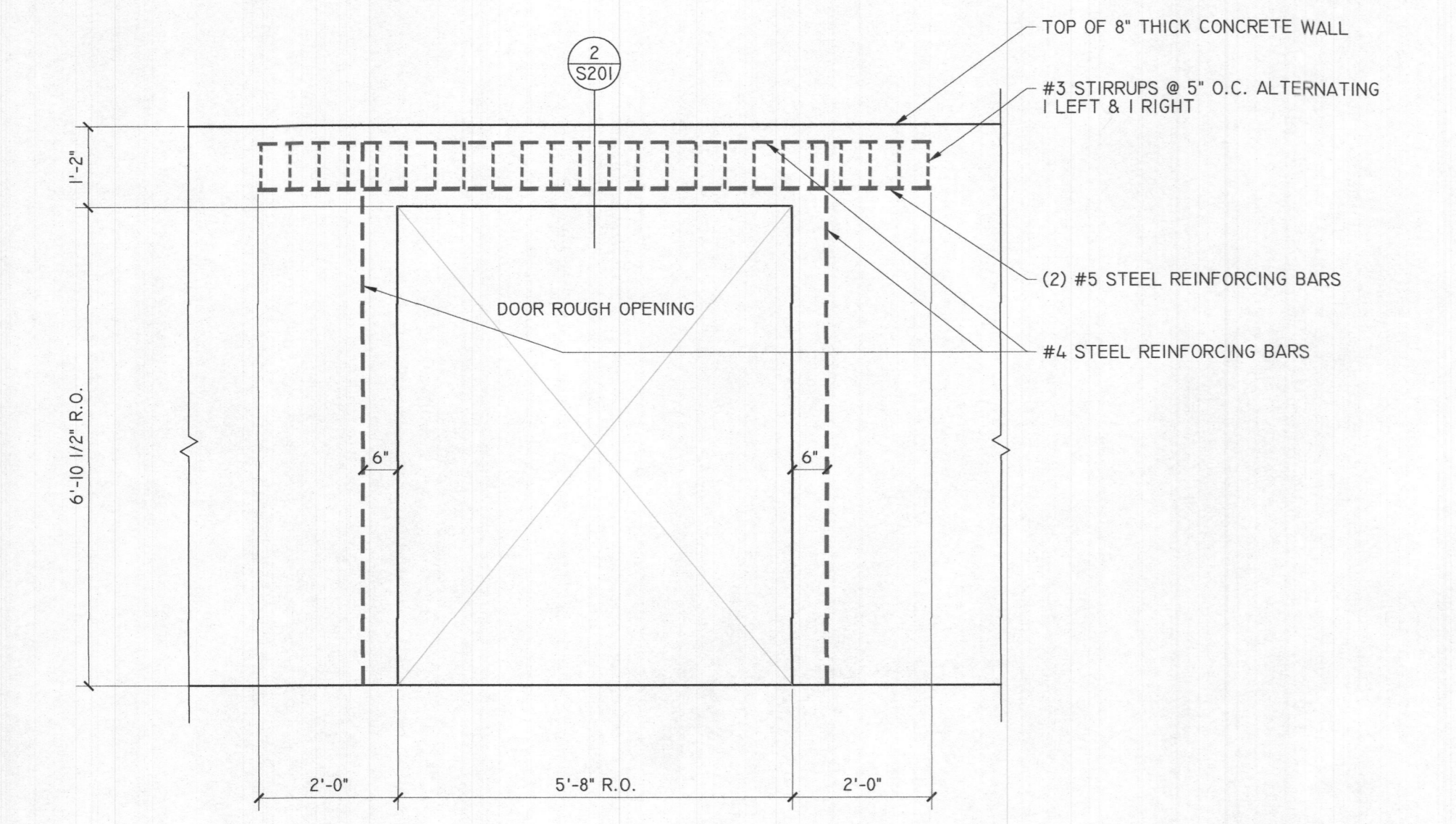
WILLOUGHBY DESIGN, LLC  
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 LICENSE NUMBER 56766  
 EXPIRATION DATE 11/26/2026

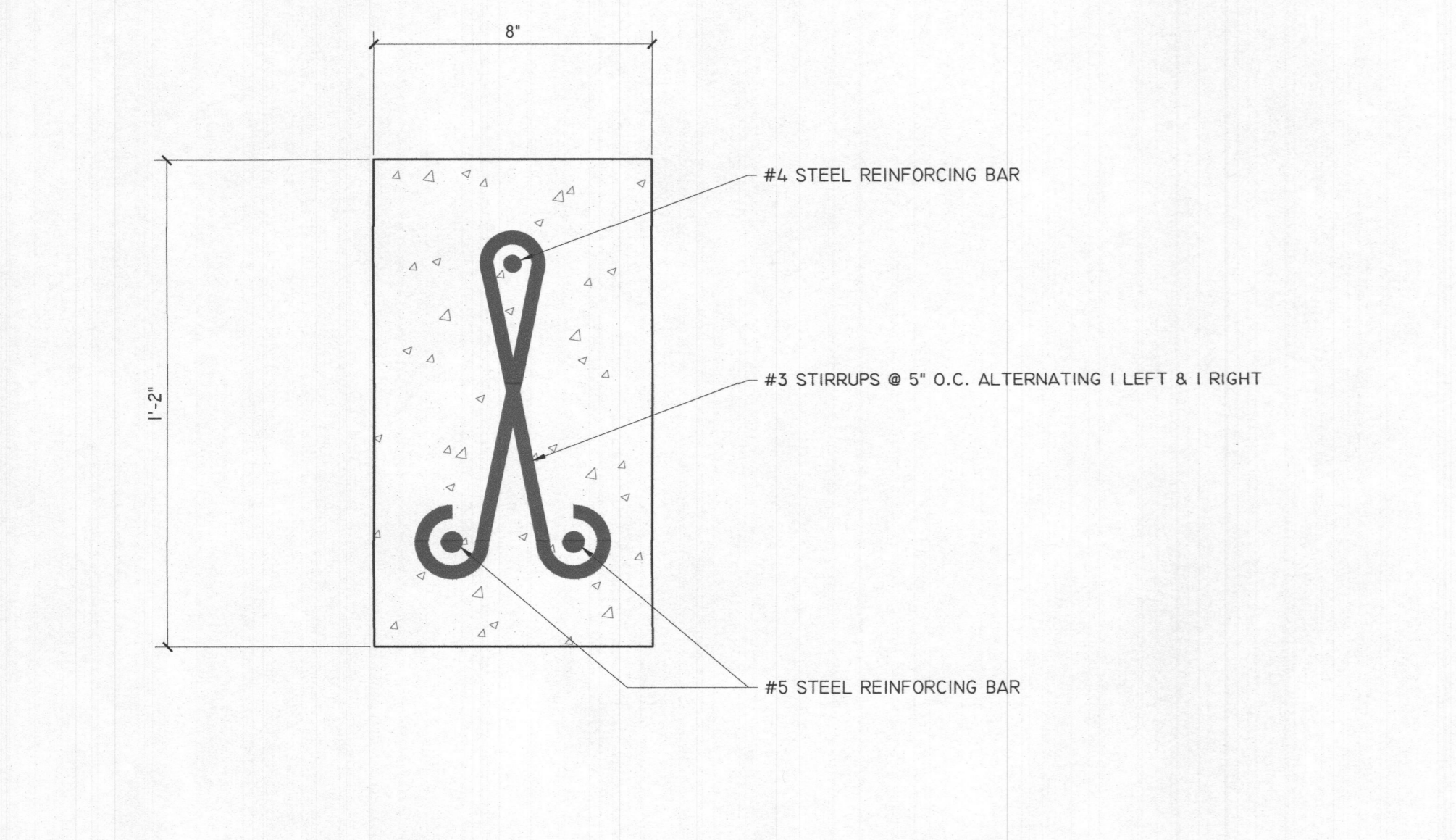
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 PROJECT NAME: **LEHMER ADDITION & RENOVATION**  
 PROJECT NO: 2019.08  
 PROJECT ADDRESS: 14576 MACCLINTOCK DRIVE, GLENWOOD, MD 21738

DATE:	DESCRIPTION:
07/21/2023	PERMIT SET

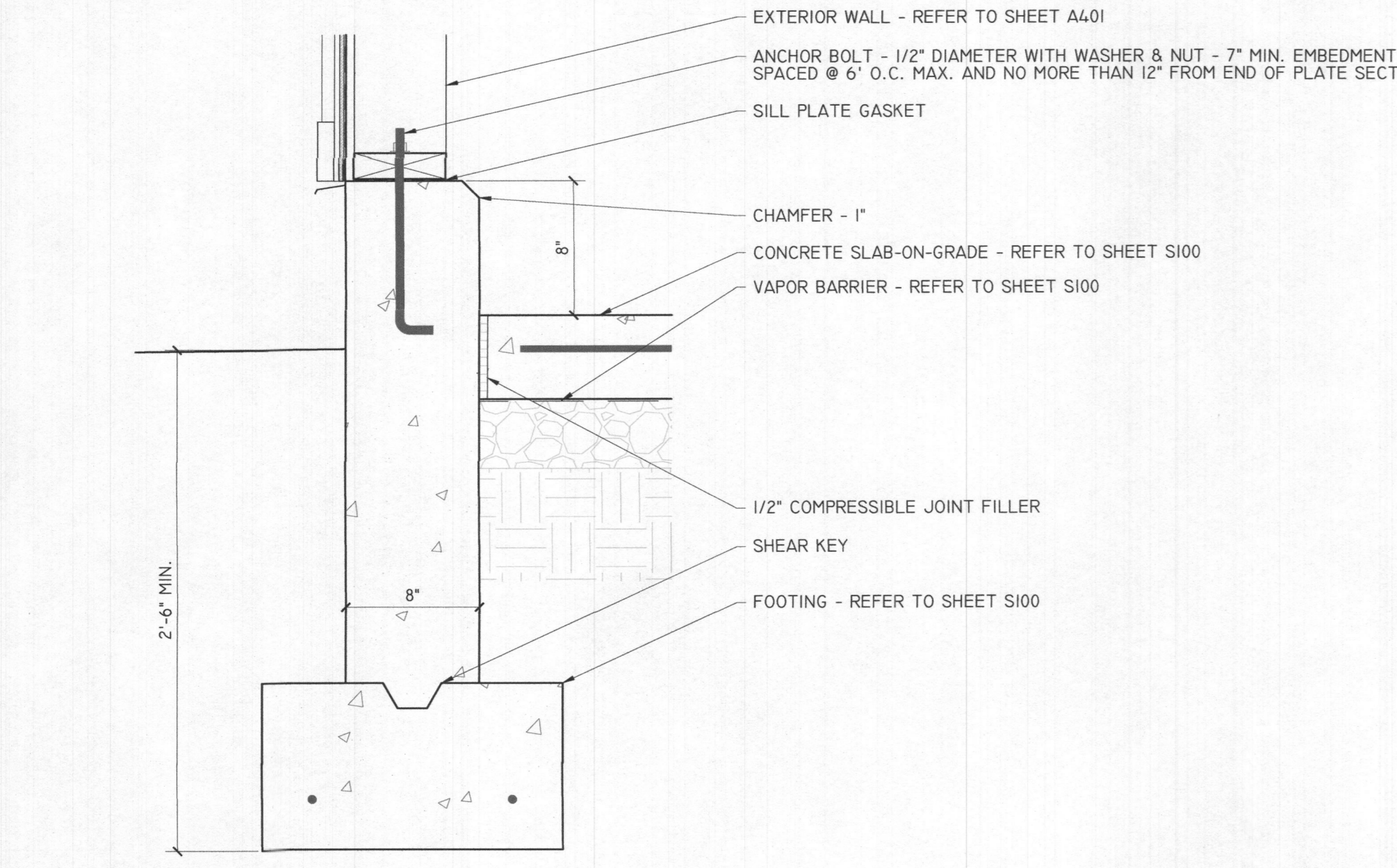
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**S201**  
 PERMIT SET



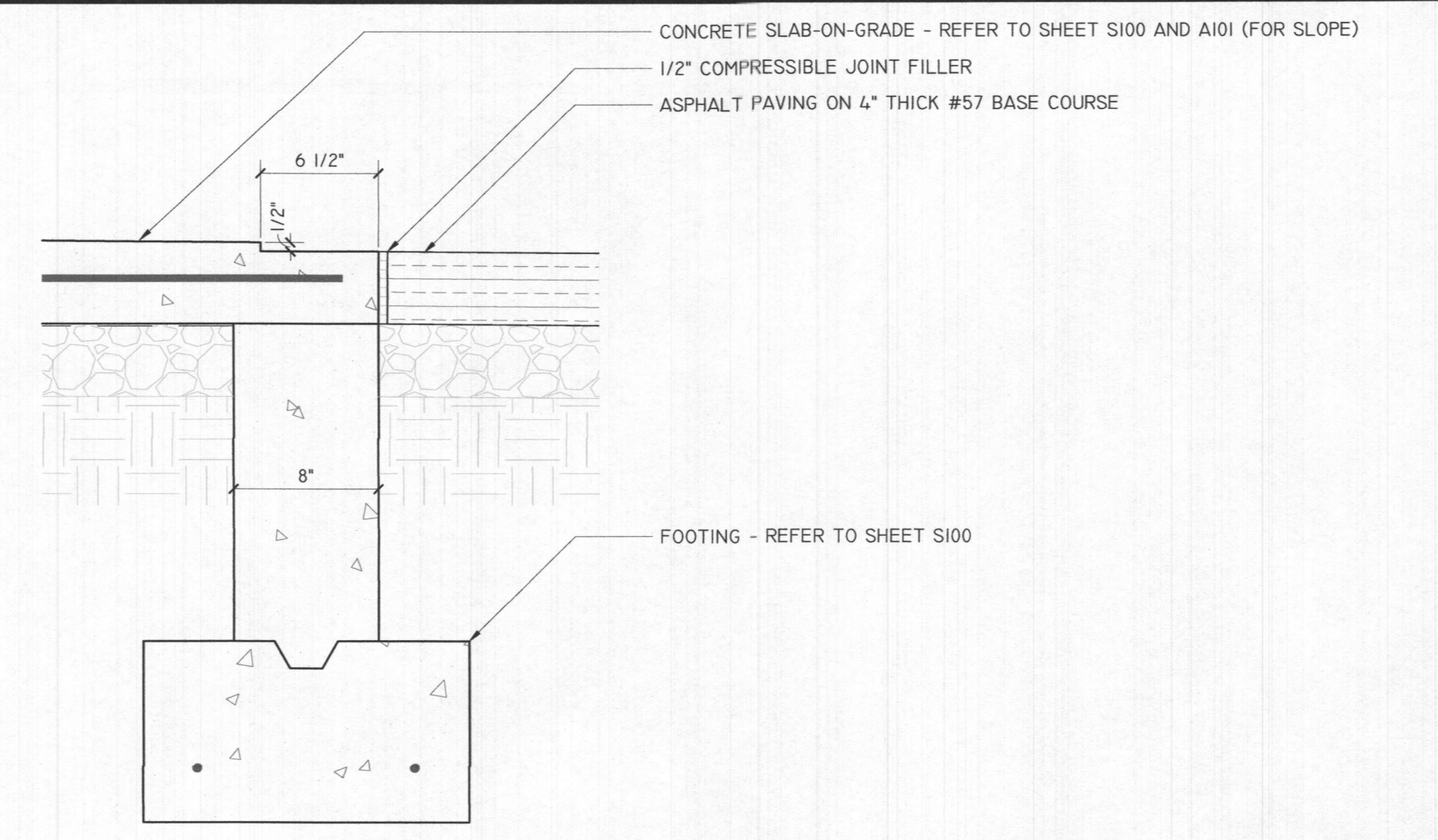
DETAIL - BASEMENT DOOR LINTEL (SIMILAR AT WINDOW OPENING)  
 SCALE: 1/2" = 1'-0"



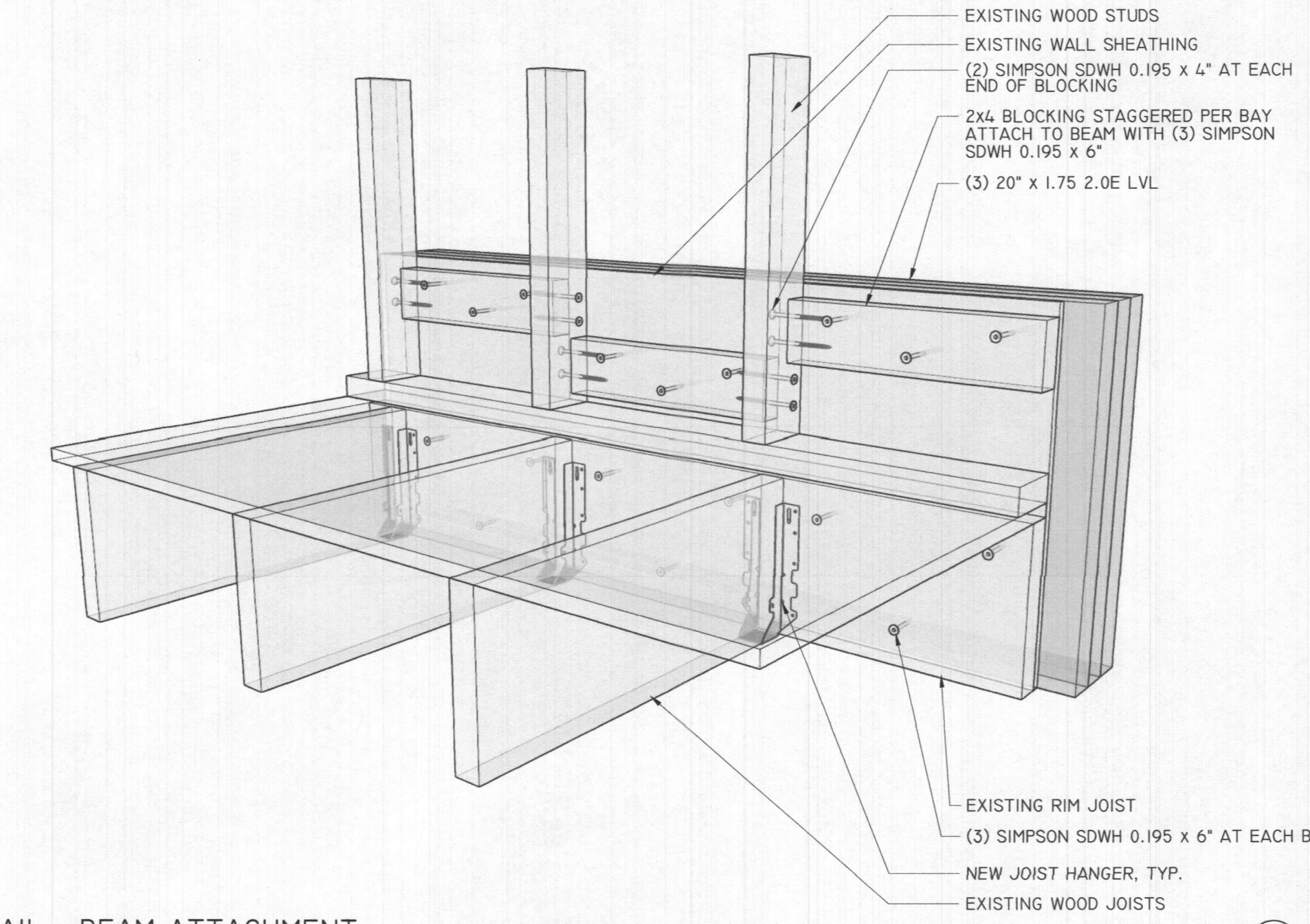
DETAIL - LINTEL SECTION  
 SCALE: 3" = 1'-0"



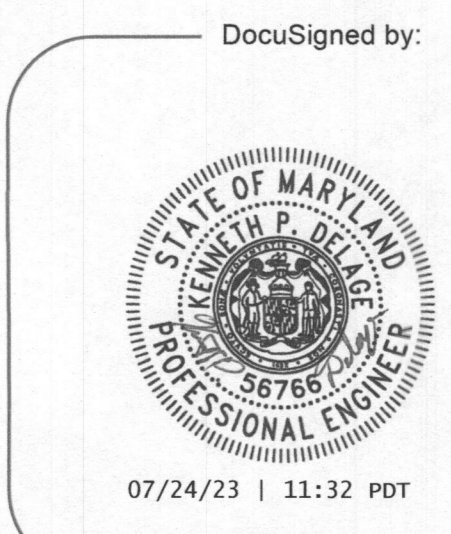
DETAIL - FOUNDATION  
 SCALE: 1 1/2" = 1'-0"



DETAIL - FOUNDATION @ GARAGE DOOR  
 SCALE: 1 1/2" = 1'-0"



DETAIL - BEAM ATTACHMENT  
 SCALE: NONE





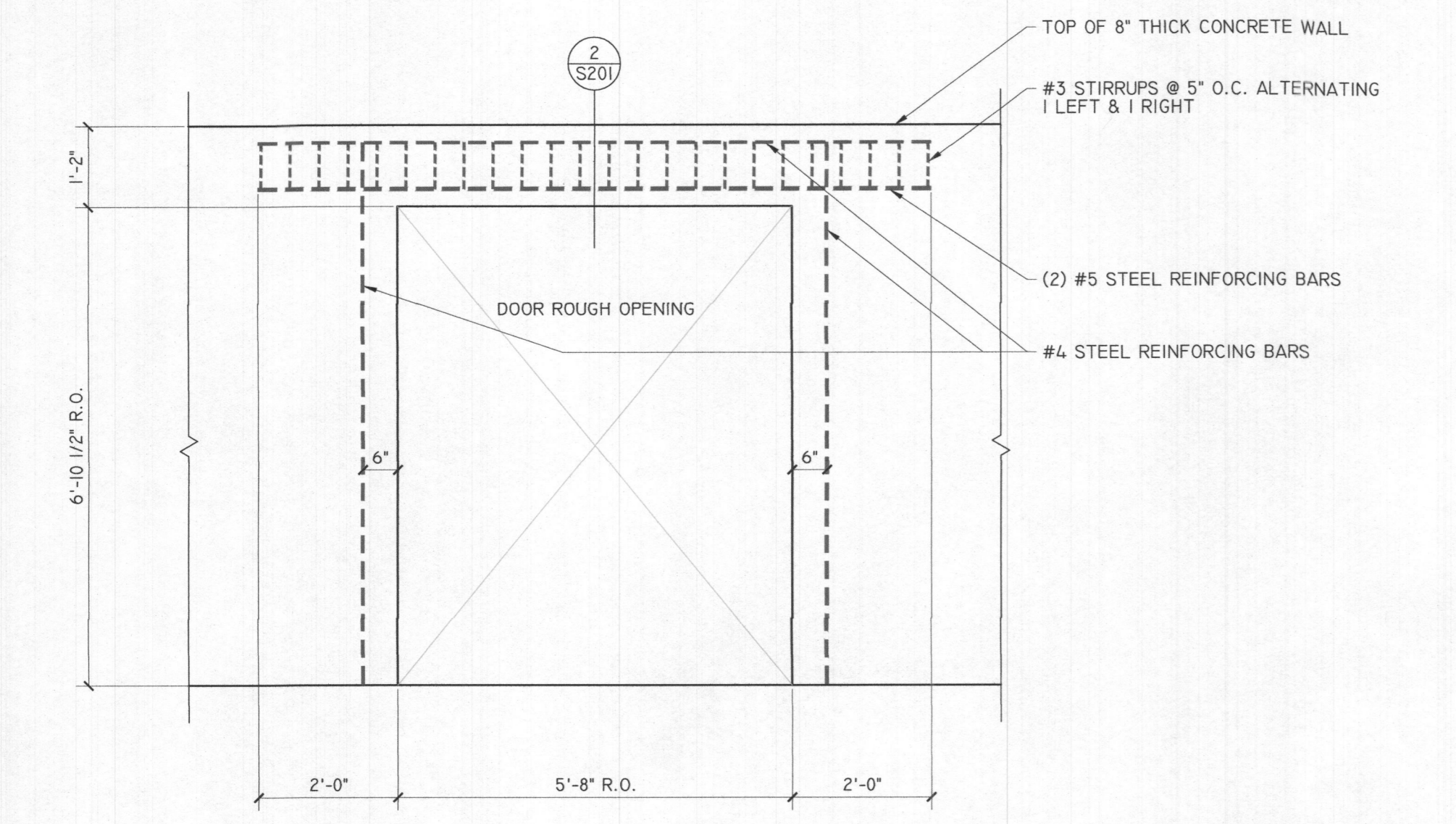
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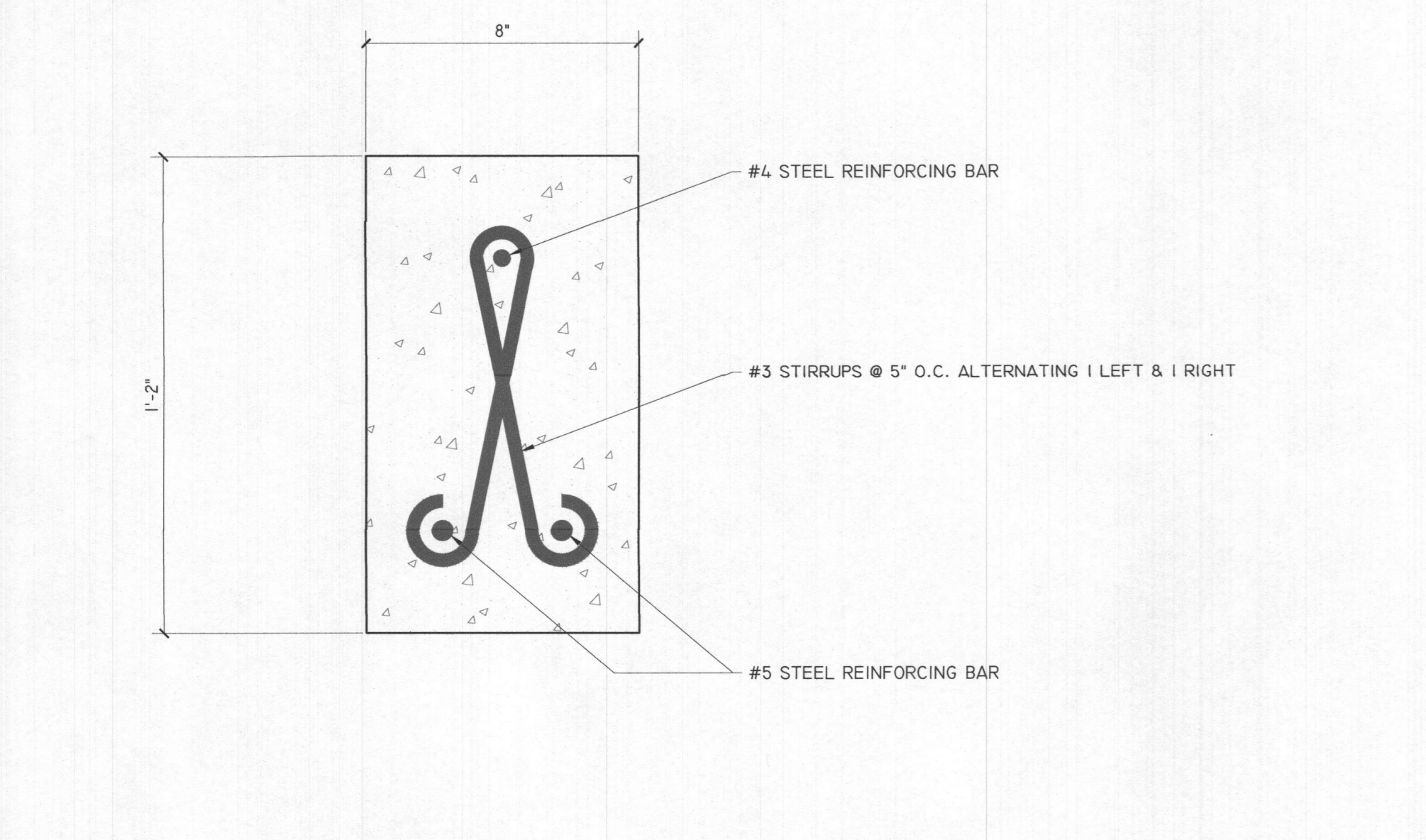
SHEET TITLE: **DETAILS**  
 PROJECT NAME: **LEHMER ADDITION & RENOVATION**  
 PROJECT NO: 2019.08  
 PROJECT ADDRESS: 14576 MACCLINTOCK DRIVE, GLENWOOD, MD 21738

DATE:	DESCRIPTION:
07/21/2023	PERMIT SET

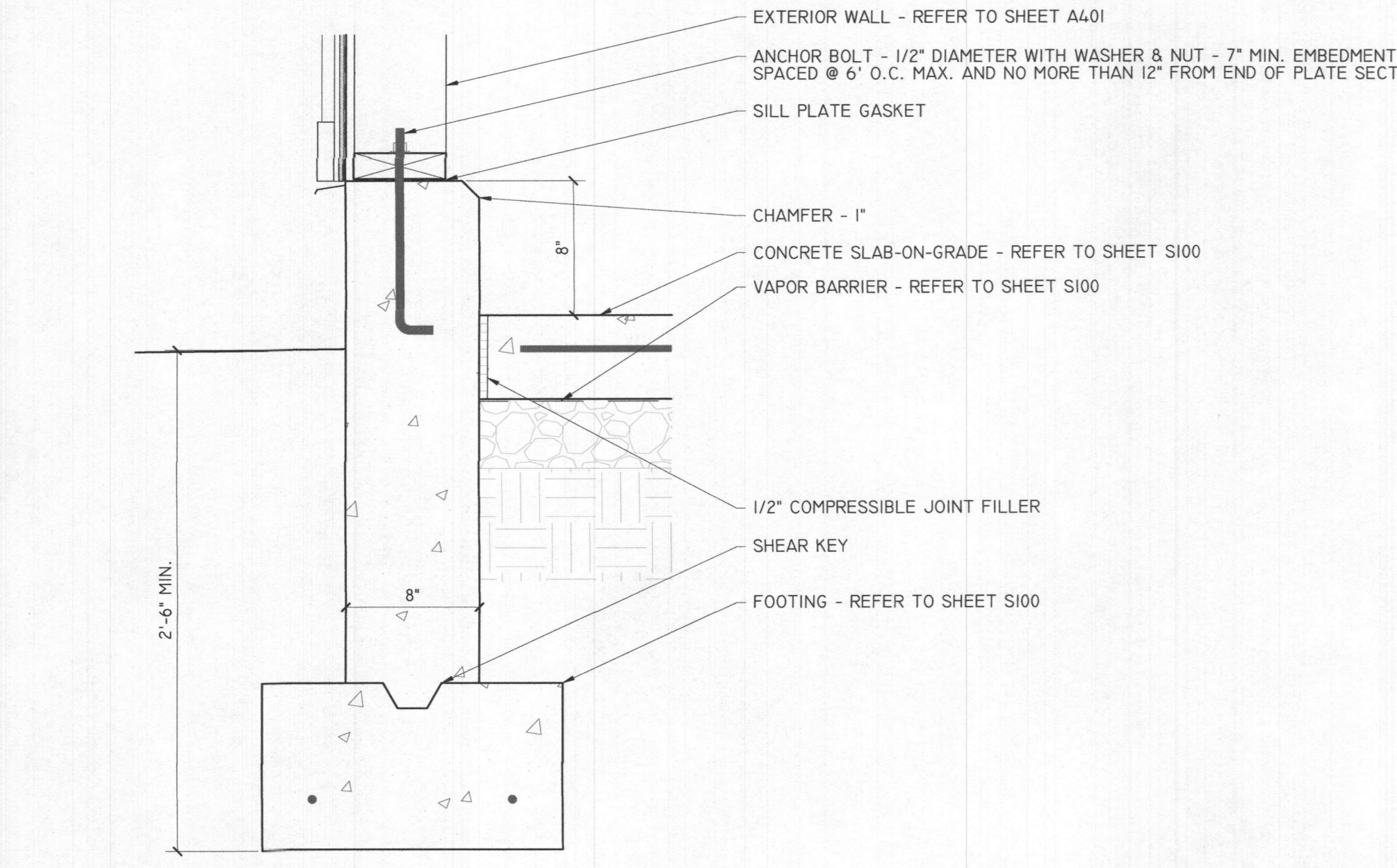
SHEET NUMBER:  
**S201**  
 PERMIT SET



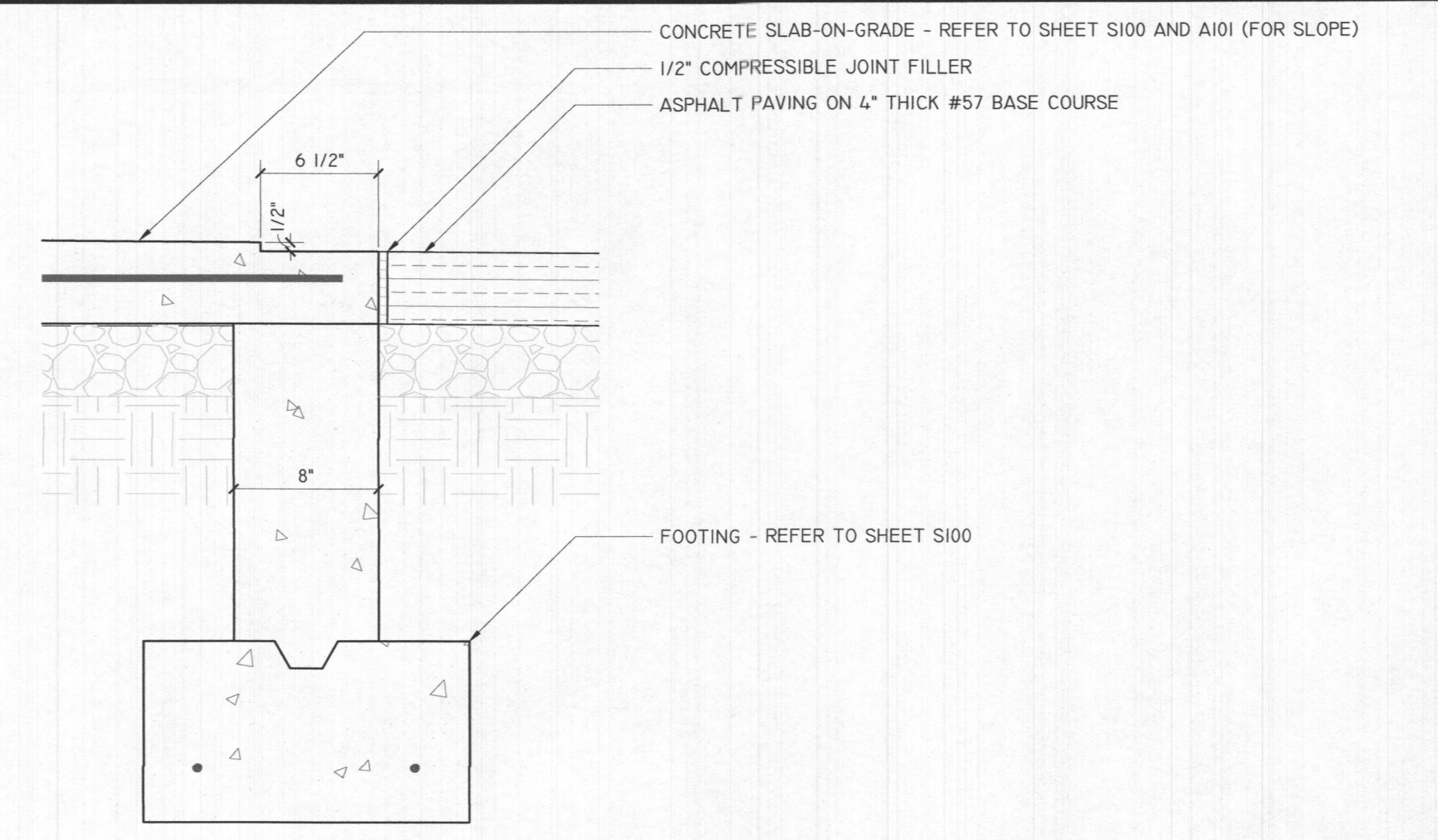
**DETAIL - BASEMENT DOOR LINTEL (SIMILAR AT WINDOW OPENING)**  
 SCALE: 1/2" = 1'-0"



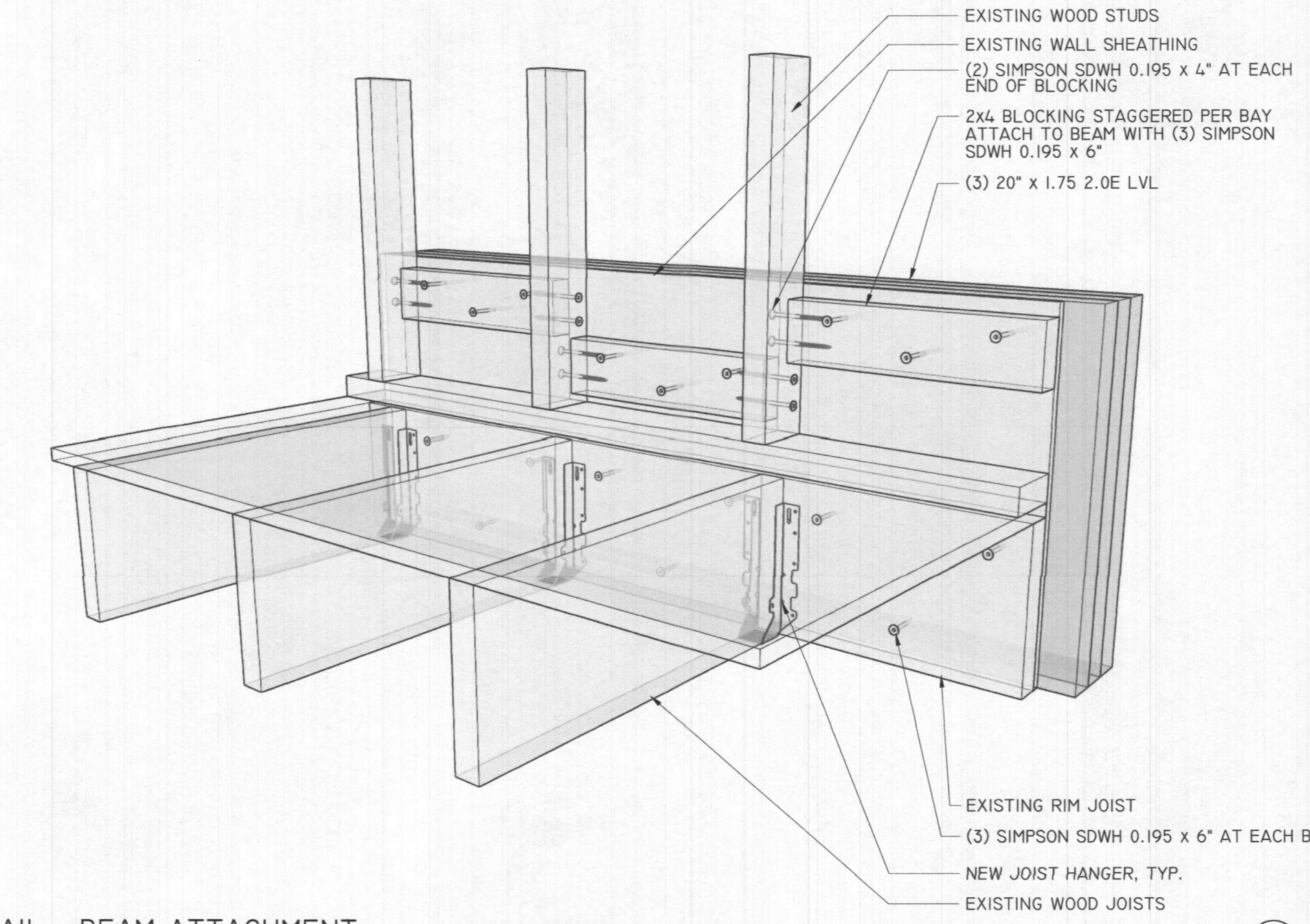
**DETAIL - LINTEL SECTION**  
 SCALE: 3" = 1'-0"



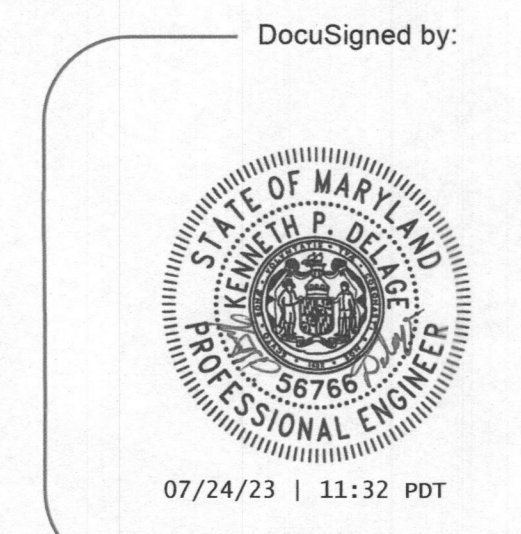
**DETAIL - FOUNDATION**  
 SCALE: 1 1/2" = 1'-0"

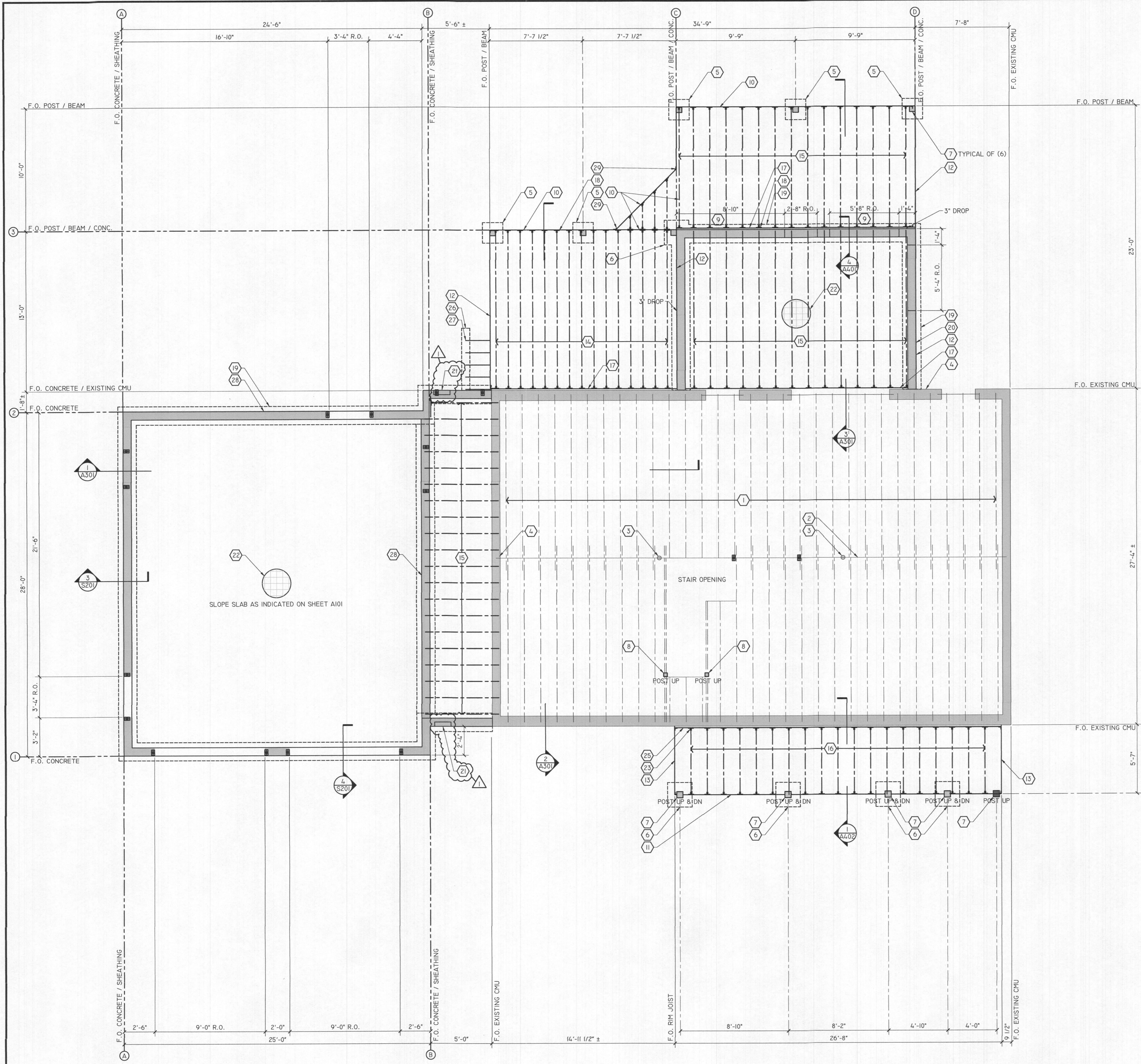


**DETAIL - FOUNDATION @ GARAGE DOOR**  
 SCALE: 1 1/2" = 1'-0"

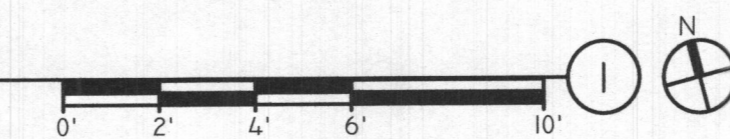


**DETAIL - BEAM ATTACHMENT**  
 SCALE: NONE





**FOUNDATION & FLOOR FRAMING PLAN**  
 SCALE: 1/4" = 1'-0"



**GENERAL NOTES**


- REFER TO SHEETS S101, A100, A101 FOR ADDITIONAL DIMENSION INFORMATION.
- REFER TO BUILDING SECTIONS AND WALL SECTIONS FOR ADDITIONAL DETAIL CALLOUTS.

**KEY NOTES**

- EXISTING FLOOR JOISTS - 2x10 @ 16" O.C.
- EXISTING STEEL BEAM - W8 x 31
- EXISTING STEEL COLUMN - 3 1/2" DIAMETER
- EXISTING FOUNDATION WALL - 8" THICK CMU, TYPICAL
- CAST-IN-PLACE CONCRETE SPREAD FOOTING - 1'-8" x 1'-8" x 10" THICK W/ (2) #4 STEEL REINFORCING EACH WAY
- CAST-IN-PLACE CONCRETE SPREAD FOOTING - 2'-0" x 2'-0" x 10" THICK W/ (3) #4 STEEL REINFORCING EACH WAY
- WOOD POST - P.T. 6x6
- WOOD POST - P.T. 4x4
- CONCRETE HEADER @ WALL OPENINGS - REFER TO DETAIL 1/S201
- BEAM - (2) P.T. 2x12
- BEAM - 5 1/4" x 9 1/4" PARALAM PLUS PSL - WOLMANIZED
- RIM JOIST - (2) P.T. 2x12
- RIM JOIST - (2) P.T. 2x10
- JOIST - P.T. 2x10 @ 12" O.C.
- JOIST - 2x10 @ 16" O.C.
- JOIST - P.T. 2x8 @ 16" O.C.
- LEDGER - P.T. 2x10 W/ SIMPSON ANCHOR THD37400 @ 14" O.C. (2) ROWS STAGGERED
- JOIST HANGER, TYPICAL - SIMPSON LU210
- CAST-IN-PLACE CONCRETE CONTINUOUS FOOTING - 20"W x 10" THICK W/ (2) #4 STEEL REINFORCING
- CAST-IN-PLACE CONCRETE FOUNDATION WALL - 8" THICK W/ #4 STEEL REINFORCING VERTICAL @ 32" O.C. AND (3) #4 STEEL REINFORCING HORIZONTAL @ TOP, MIDWAY AND BOTTOM
- FOUNDATION VENT - 16" x 8" - BASIS-OF-DESIGN: "GAF MASTER FLOW"
- CONCRETE SLAB-ON-GRADE - 4" THICK MIN. WITH W.W.F. 6x6 W/ 4XL4 WITH 10 MIL. VAPOR BARRIER OVER 4" THICK #57 GRAVEL BASE COURSE - SLOPE @ GARAGE AS INDICATED ON SHEET A101
- JOIST HANGER, TYPICAL - SIMPSON LU28
- POST UP, TYPICAL - REFER TO SHEET S101
- LEDGER - P.T. 2x8 W/ SIMPSON ANCHOR THD37400 @ 14" O.C. (2) ROWS STAGGERED
- CONCRETE GRADE BEAM - 10"x8" W/ (2) #4 STEEL REINFORCING CONTINUOUS @ BOTTOM
- CUT STRINGER - P.T. 2x12 @ 12" O.C.
- CAST-IN-PLACE CONCRETE FOUNDATION WALL - 8" THICK
- BEAM HANGER - SIMPSON LSSR210-ZZ

**STRUCTURAL NOTES - 2018 IRC AND MARYLAND BUILDING CODE**


- DESIGN LOADS:**  
 ROOF/GROUND SNOW LOAD = 40 PSF  
 FLOOR LIVE = 40 PSF  
 SLEEPING AREAS FLOOR LIVE = 30 PSF  
 DEAD LOAD = 15 PSF FLOORS, 17 PSF ROOF
- ULTIMATE WIND SPEED (VULT) = 115 MPH VULT, 90MPH DESIGN WIND LOAD, EXPOSURE B
- ALLOWABLE SOIL BEARING CAPACITY = 1,500 PSF, ASSUMED.
- CONCRETE CONSTRUCTION TO BE PER LATEST ACI CODE 318. 28 DAY COMPRESSIVE STRENGTH SHALL BE 3,000 PSI AND CONCRETE REINFORCING STEEL SHALL BE GRADE 60. CONCRETE EXPOSED TO WEATHER SHALL BE 3,500 PSI WITH MINIMUM 5% AIR ENTRAINMENT.
- EXISTING STRUCTURAL STEEL BEAMS SHALL BE ASTM A-36, GRADE 36 AND 3.5 INCH DIA. STANDARD PIPE COLUMNS SHALL BE ASTM A53-35.
- FRAMING LUMBER SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION. ALL STRUCTURAL WOOD MEMBERS SHALL BE #2 KILN DRIED HEM. FIR, SOUTHERN PINE OR EQUIVALENT WITH A MAXIMUM MOISTURE CONTENT OF 19%.  
**MINIMUM VALUES:**  
 Fb = 1,200 PSI  
 MODULUS OF ELASTICITY = 1,400,000 PSI  
 COMPRESSION PERPENDICULAR TO GRAIN = 565 PSI  
 STRESS GRADE LUMBER SHALL BE CLEARLY STAMPED WITH THE INSPECTION ASSOCIATION SEAL.
- LAMINATED VENEER LUMBER (LVL) LAMINATED BEAMS SHALL BE MICROLAM, G-P LAM, PARALAM OR EQUIVALENT WITH THE FOLLOWING MINIMUM ALLOWABLE STRESSES:  
 MODULUS OF ELASTICITY, E = 2.0E MINIMUM - UNLESS NOTED OTHERWISE.  
 FLEXURAL (BENDING) STRESS = 2,600 PSI  
 HORIZONTAL SHEAR = 250 PSI  
 INSTALLATION, FASTENERS AND HANGERS SHALL BE IN ACCORDANCE WITH THE LVL MANUFACTURER'S RECOMMENDATIONS AND MEET OR EXCEED LVL END REACTIONS.
- WOOD TRUSSES SHALL BE DESIGNED AND FABRICATED ACCORDING TO THE TRUSS PLATE INSTITUTE (TPI) DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES. COMPLETE SHOP DRAWINGS AND LAYOUT DRAWINGS ARE REQUIRED. TRUSS DESIGN SHALL BE CERTIFIED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MARYLAND. TRUSSES SHALL BE PERMANENTLY BRACED PER TRUSS MANUFACTURER'S REQUIREMENTS AND PER LOCAL BUILDING AUTHORITY REQUIREMENTS.
- ALL EXTERIOR WALL SHEATHING SHALL BE MINIMUM 5/8" OSB, CONTINUOUS SHEATHING, CS-WSP, UNLESS NOTED OTHERWISE.



**WILLOUGHBY DESIGN, LLC**  
 POTOMAC FALLS, VIRGINIA 20165 U.S.A.  
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 EMAIL: TWILLOUGHBY@WILLOUGHBYDESIGNLLC.COM

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DocuSigned by:  
 09/06/23 11:12 PDT

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**FOUNDATION & FLOOR FRAMING PLAN & STRUCTURAL NOTES**  
**LEHMER ADDITION & RENOVATION**

SHEET TITLE: PROJECT NAME: LEHMER ADDITION & RENOVATION  
 PROJECT NO: 2019.08  
 PROJECT ADDRESS: 14576 MACCLINTOCK DRIVE, GLENWOOD, MD 21738

DATE:	DESCRIPTION:
07/21/2023	PERMIT SET
08/28/2023	REVISION 01

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SHEET NUMBER: **S100**  
 REVISION 01