

GENERAL NOTES:

1. EXTERIOR SIDING WALL SYSTEM-THERMALLY TREATED WHITE ASH WOOD MATERIAL SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.), HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2023 (8th EDITION)** OF THE FLORIDA BUILDING CODE.
- DESIGN WIND LOADS FOR EACH INSTALLATION SHALL BE DETERMINED AS PER SECTIONS 1620 & 1609 OF THE ABOVE MENTIONED CODE, USING ASCE **7-22** STANDARD AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATING INDICATED ON NOTE 3 BELOW.
- IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE **7-22** SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 3 BELOW.
- IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.E.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS A DURATION FACTOR CD=1.60 WAS USED FOR VERIFICATION OF FASTENERS IN WOOD,PER NDS 2018.
- PRODUCT'S ADEQUACY FOR WIND AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER BLACKWATER TECHNICAL SERVICES INC. REPORT # BT-LUN 24 001 PER TAS 202 & 203 PROTOCOLS, AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 & 1604 OF THE FLORIDA BUILDING CODE. SEE NOTE 10 FOR ADDITIONAL TESTING PERFORMED ON PRODUCT.
2. EXISTING WALL SHALL BE DESIGNED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT AND SHALL BE BUILT FOR IMPACT, WIND & WATER RESISTANCE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AS FOLLOWS:
- 2.1 **FOR WOOD FRAME WALLS:** PER SECTIONS 1626.4.2 & 1404.2
- 2.2 **FOR MASONRY/CONCRETE WALLS:** PER SECTIONS 1626.4.1, 1404.4, 1404.6 & 2512
- SEE NOTES ON SHEET 12 FOR ADDED LIMITATIONS & CONDITIONS FOR WOOD FRAME WALLS.
3. **MAXIMUM A.S.D. DESIGN WIND PRESSURE RATING FOR THIS PRODUCT IS +150 , -150 p.s.f. ***
- * PROFILES TO BE CONTINUOUS MIN. OVER 3 SPANS.
4. COMPONENTS FOR THIS PRODUCT SHALL BE AS INDICATED ON SHEET 2 OF THIS DRAWING.
5. SUBSTRUCTURE (FURRING) COMPONENTS # **4A** & **4B** PROVIDING SUPPORT TO PRODUCT MUST BE PROPERLY ANCHORED TO TRANSFER LOADS TO THE EXISTING STRUCTURAL SYSTEM (WALL). SUBSTRUCTURE (FURRING) COMPONENTS **4A** & **4B** MUST BE AS INDICATED ON BILL OF MATERIALS ON SHEET 2, SPACED AS SHOWN ON SHEET 3. SEE DETAILS ON SHEETS 3 THRU 12.
6. EXTERIOR SIDING WALL PLANK IS MADE OF LUNAWOOD SPRUCE THERMOWOOD MATERIAL USING A PATENTED VACUUM PRESS DRYING.
7. THIS PRODUCT'S INSTALLATION SHALL COMPLY WITH ALL SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
8. (a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT: i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P.E.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS P.E.D. WILL BE CONSIDERED INVALID IF MODIFIED.
- (d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE PROFESSIONAL OF RECORD (P.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. PROFESSIONAL OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWING FOR REVIEW.

- (e) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.
9. PRODUCT MANUFACTURER'S LABEL SHALL BE PLACED ON A READILY VISIBLE AT PLANK LOCATION IN ACCORDANCE WITH SECTION 1703.5 OF THE FLORIDA BUILDING CODE.
10. ADDITIONAL TESTING PERFORMED ON COMPONENTS:

QUALIFICATION	TEST METHOD	TEST RESULT
MODULUS OF RUPTURE	ASTM D 4761 (AFTER WEATHERING)	2894 psi
MODULUS OF ELASTICITY	ASTM D 4761 (AFTER WEATHERING)	52232 psi
WATER ABSORPTION AND HUMIDITY (WEATHERING TESTING)	ASTM D4761 AND TAS 301 **	PASSED WITH MEAN RATIO OF CONDITIONED & NON-CONDITIONED AT MODULUS OF RUPTURE OF 1.10 & 1.22 MEAN RATIO AT MODULUS OF ELASTICITY.
FLAME SPREAD INDEX	ASTM E 84*	INDEX 65 (CLASS B)
SMOKE INDEX	ASTM E 84*	155 (CLASS C)
CONNECTOR TEST:		
LATERAL CAPACITY (#5 x 2" SCREW)	ASTM D 1761 (AFTER WEATHERING) **	PARALLEL TO LENGTH 383lbs (ULTIMATE)
LATERAL CAPACITY (#5 x 2" SCREW)	ASTM D 1761 (AFTER WEATHERING) **	PERPENDICULAR TO LENGTH 265 lbs (ULTIMATE)
WITHDRAWAL CAPACITY (#5 x 2" SCREW)	ASTM D 1761 (AFTER WEATHERING) **	252 lbs (ULTIMATE)

- * TEST #S3525.01-121-24 BY INTERTEK, PER SECTIONS 2303.2 & 2314.4.4 OR THE FLORIDA BUILDING CODE.
- ** CYCLED 6 HR CONTINUOUS WATER SPRAY & 7 DAY DRYING CYCLE PER BLACKWATER TECHNICAL SERVICES INC. REPORT #BT-LUN-24 001.

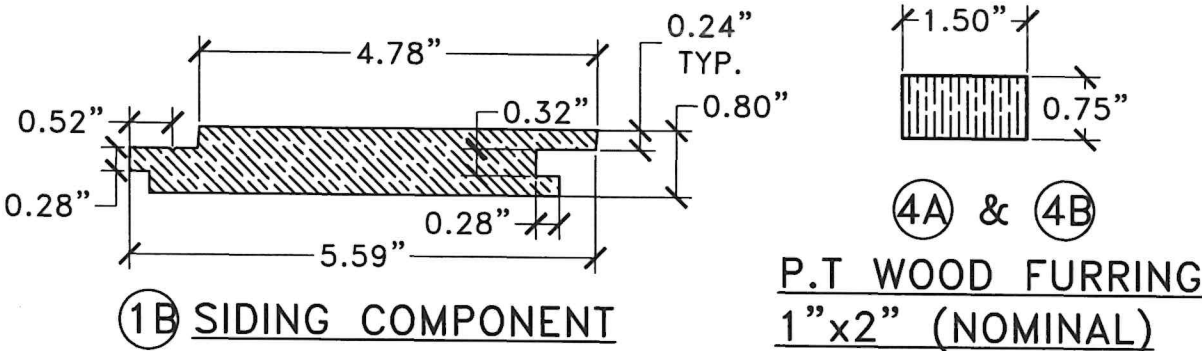
THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

W.H. DRAWN BY:		12/5/2025 DATE:		24-127 DRAWING No.		1 of 12 SHEET	
EXTERIOR SIDING (WALL) MADE OF THERMALLY MODIFIED WOOD MATERIAL:		LUNAWOOD LLC. 5596 RIVERVIEW ROAD SE MABLETON, GA 30126 Phone: +358 50 563 0067 Email: info@lunawood.com		REV. NO.		DATE	
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BILL OF MATERIALS

COMPONENT NO.	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
1B	SIDING COMPONENT	SEE COMPONENT DETAIL	LUNAWOOD SPRUCE THERMOWOOD	LUNAWOOD	SIDING SYSTEM
3	FLAT HEAD TOE SCREW	#5 x 2" (3,2x50mm)	Fy= 50 ksi MIN. OR STAINLESS STEEL	FIX MG GROUP	TO FIX 1B TO 4A AND 4B
3B	FLAT HEAD SCREW STRAIGHT FOR 1B	#5 x 1.50" (3,2x38mm)	Fy= 50 ksi MIN. OR STAINLESS STEEL	FIX MG GROUP	TO FIX 1B TO 4A OR 4B AT ENDS.
4A	P.T WOOD FURRING	2" (NOM) x 1" (NOM) x CONT.	SOUTHERN YELLOW PINE #2 PRESSURE TREATED WOOD	-	SUBSTRUCTURE FOR 1B
4B	WOOD FURRING	2" (NOM) x 1" (NOM) x CONT.	THERMOWOOD PINE	LUNAWOOD	SUBSTRUCTURE FOR 1B
5	SUBSTRUCTURE SUPPORT FASTENERS	1/4"Ø FLAT HEAD TAPCONS	AISI 401 STAINLESS STEEL	ITW/BUILDEX	W/1 3/4"MIN EMBEDMENT TO POURED CONCRETE & 1 1/4"MIN. TO CONCRETE BLOCK AND 1 1/2" TO WOOD WALL, BEYOND ANY WALL FINISH.



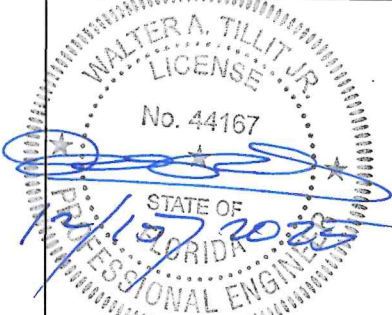
COMPONENTS
 SCALE: N.T.S

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

W.H. DRAWN BY:		12/5/2025 DATE:	24-127 DRAWING No.	SHEET 2 of 12
EXTERIOR SIDING (WALL) MADE OF THERMALLY MODIFIED WOOD MATERIAL:		LUNAWOOD LLC. 5596 RIVERVIEW ROAD SE MABLETON, GA 30126 Phone: +358 50 563 0067 Email: info@lunawood.com		
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION
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 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33166
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 CA-0006719
 WALTER A. TILLIT Jr. P.E.
 FLORIDA Lic. # 44167



P.E. SEAL/SIGNATURE/DATE



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

EXTERIOR SIDING (WALL) MADE OF THERMALLY MODIFIED WOOD MATERIAL.	W.H DRAWN BY:
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LUNAWOOD LLC.
 5596 RIVERVIEW ROAD
 SE MABLETON, GA 30126
 Phone: +358 50 563 0067
 Email: info@lunawood.com

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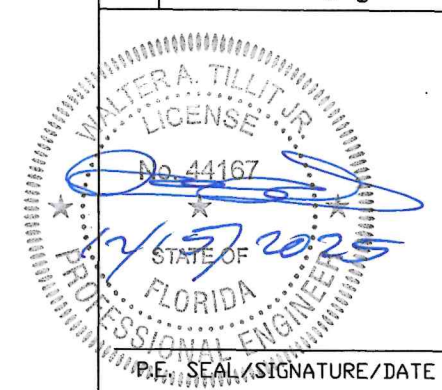
SHEET 3 of 12

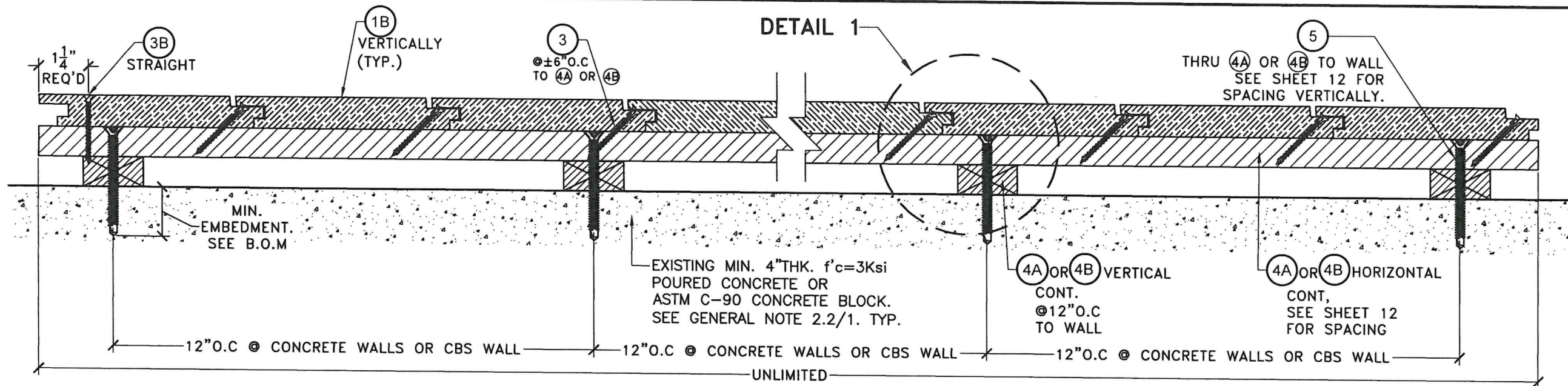
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The logo for TILTECO INC. is a large, stylized graphic. It consists of a long, thin, upward-pointing chevron shape. Inside this shape, the word "TILTECO" is written in a very tall, narrow, sans-serif font. To the right of "TILTECO", the word "INC." is written in a smaller, standard sans-serif font.

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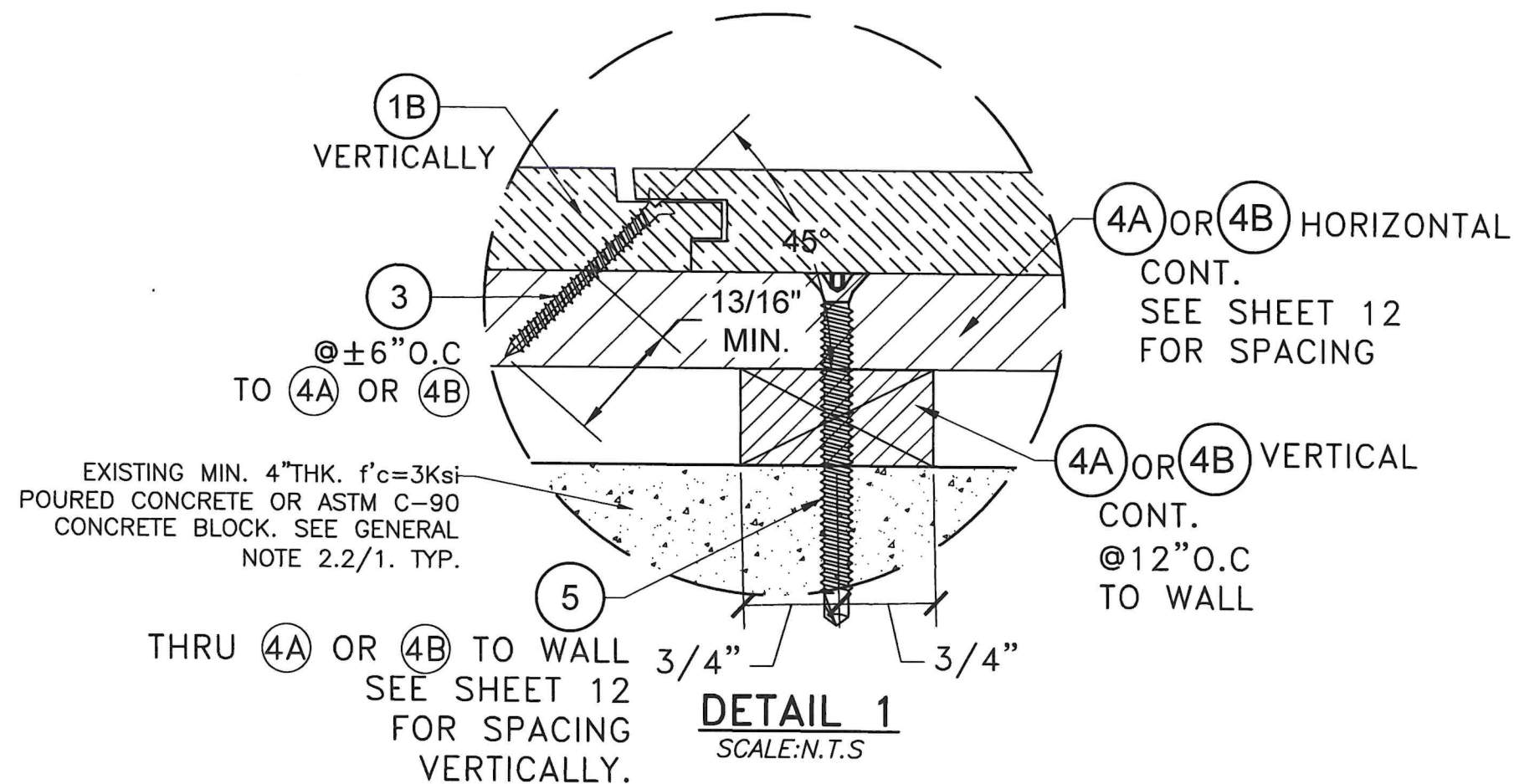
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167





**SECTION A-A: 1B RUNNING VERTICALLY
POURED CONCRETE OR CBS WALL SUBSTRATE.**

SCALE:N.T.S



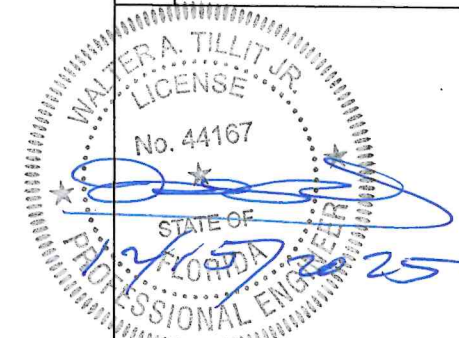
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

W.H DRAWN BY:		12/5/2025 DATE:		24-127 DRAWING No.		SHEET 4 of 12	
EXTERIOR SIDING (WALL) MADE OF THERMALLY MODIFIED WOOD MATERIAL.				LUNAWOOD LLC. 5596 RIVERVIEW ROAD SE MABLETON, GA 30126 Phone: +358 50 563 0067 Email: info@lunawood.com			
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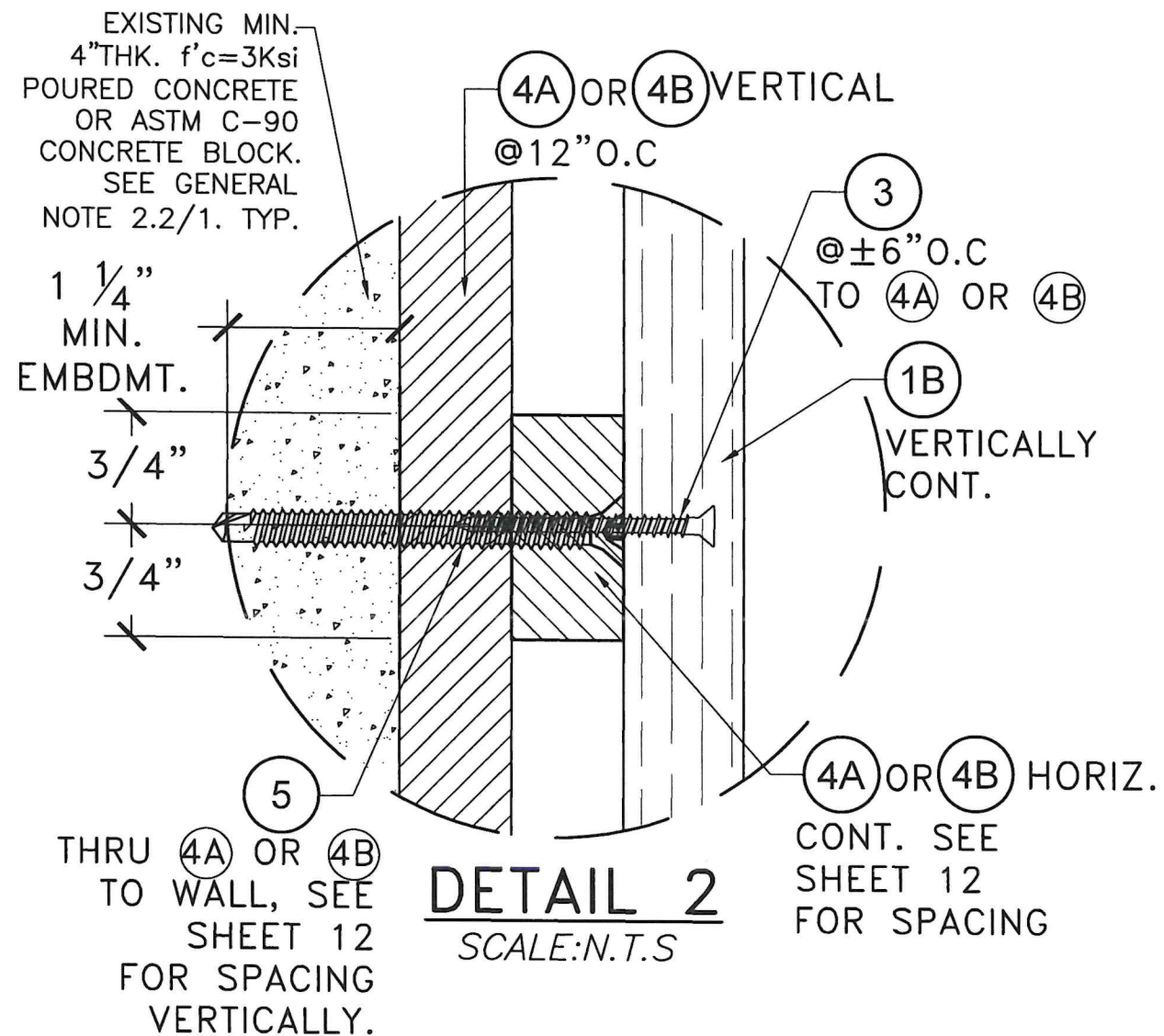
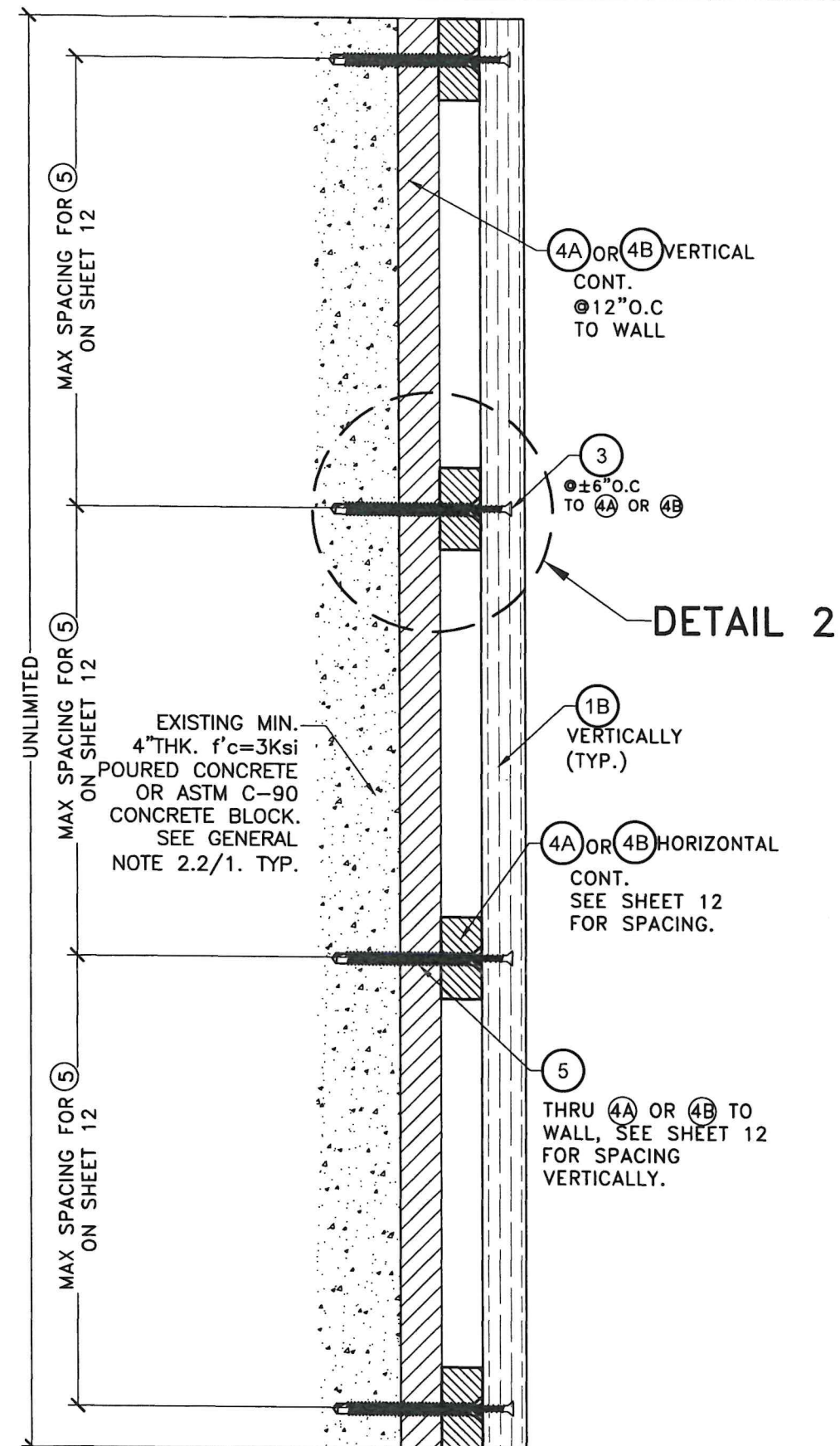
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P.E. SEAL/SIGNATURE/DATE



**SECTION B-B: 1B RUNNING VERTICALLY
POURED CONCRETE OR CBS WALL SUBSTRATE.**

SCALE: N.T.S.

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

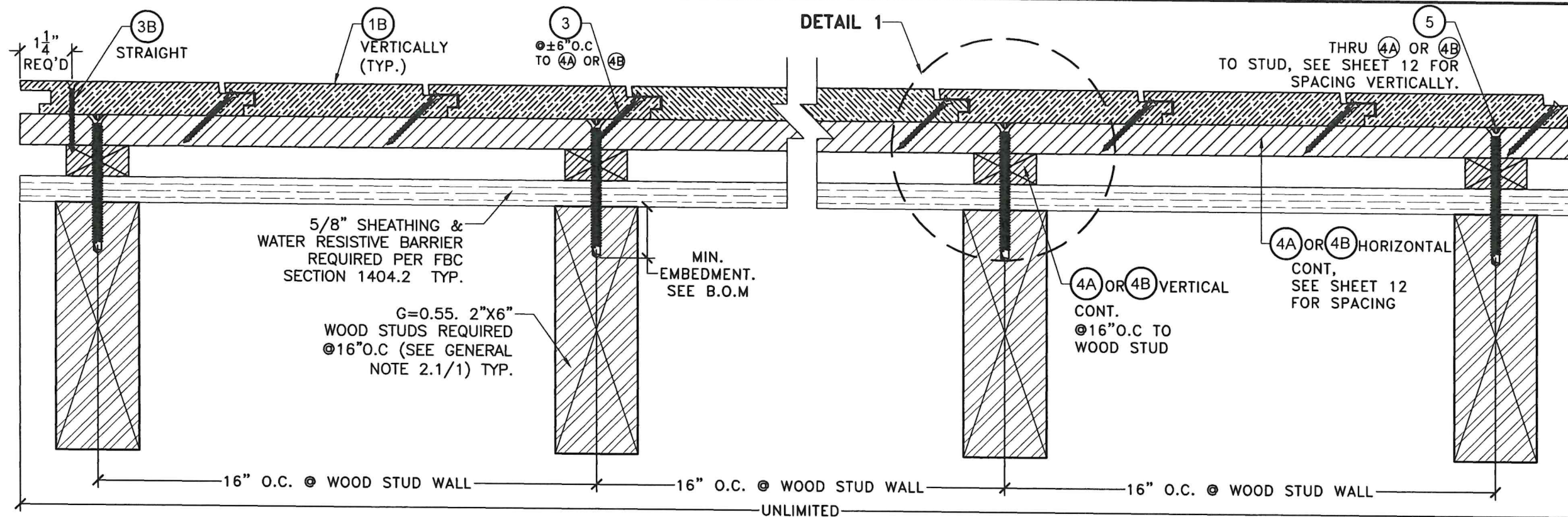
© 2025 TILTECO, INC.		TILTECO inc.		EXTERIOR SIDING (WALL) MADE OF THERMALLY MODIFIED WOOD MATERIAL.		W.H. DRAWN BY:	
TILIT TESTING & ENGINEERING COMPANY 5355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719		WALTER A. TILIT Jr. P.E. FLORIDA Lic. # 44167		LUNAWOOD LLC. 5596 RIVERVIEW ROAD SE MABLETON, GA 30126 Phone: +358 50 563 0067 Email: info@lunawood.com		12/5/2025 DATE:	
						24-127 DRAWING No.	
						SHEET 5 of 12	

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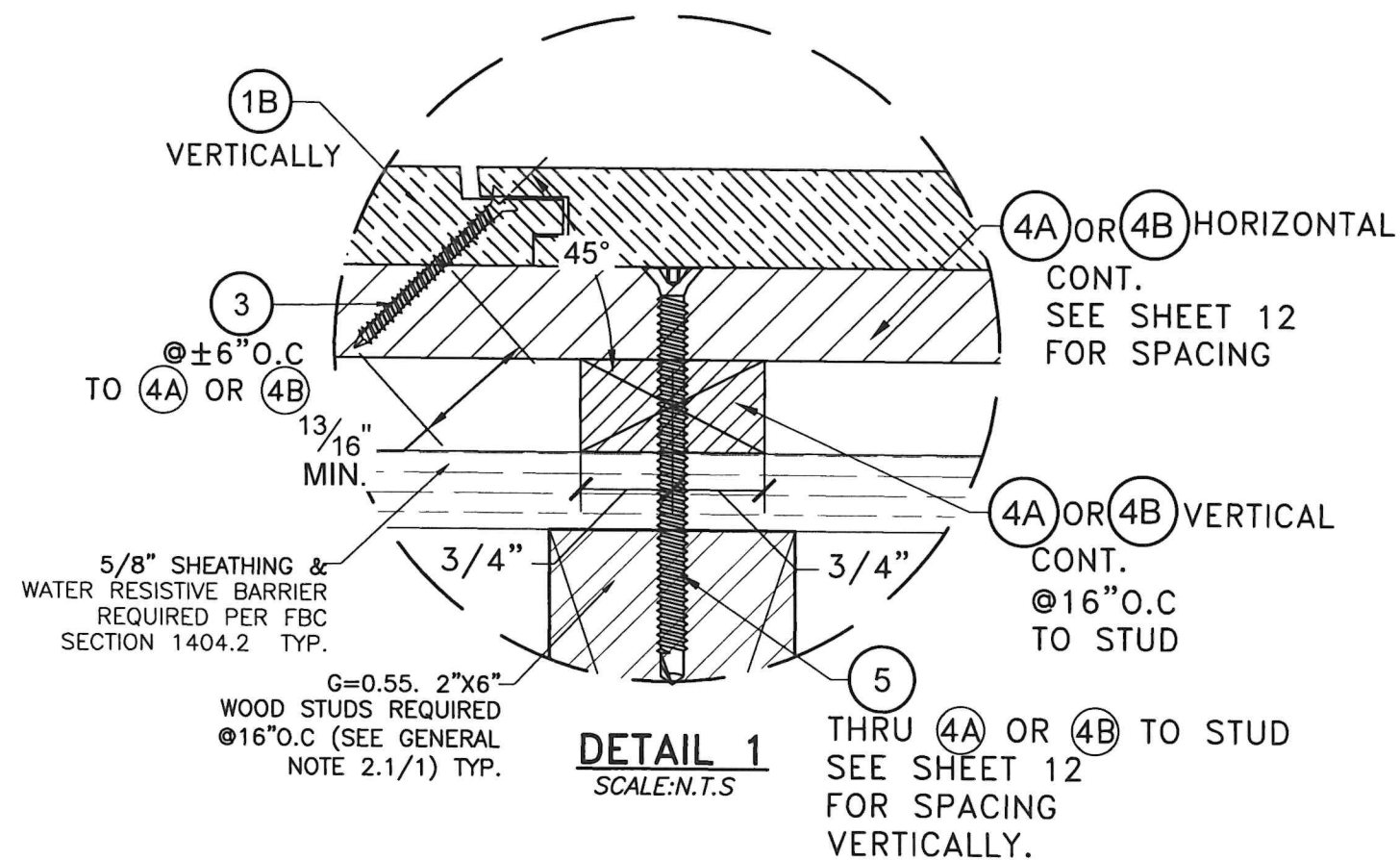
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WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE



SECTION A'-A': 1B RUNNING VERTICALLY
WOOD FRAME SUBSTRATE.
SCALE: N.T.S

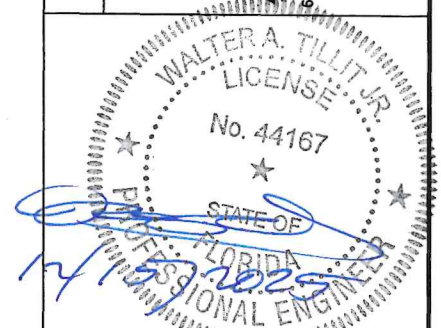


FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)											
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24-127		DRAWING No.									
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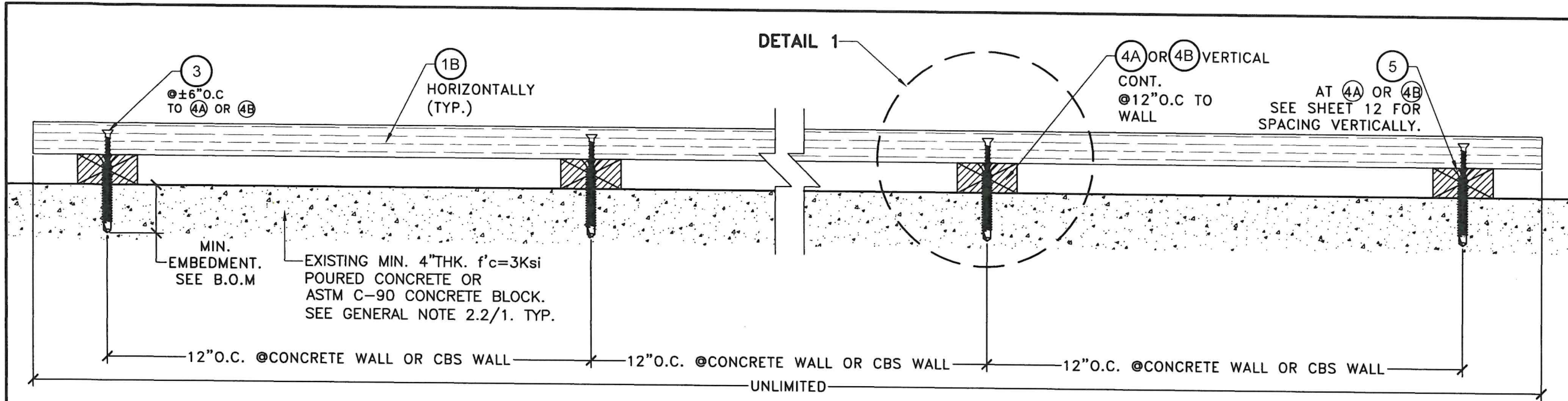
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LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

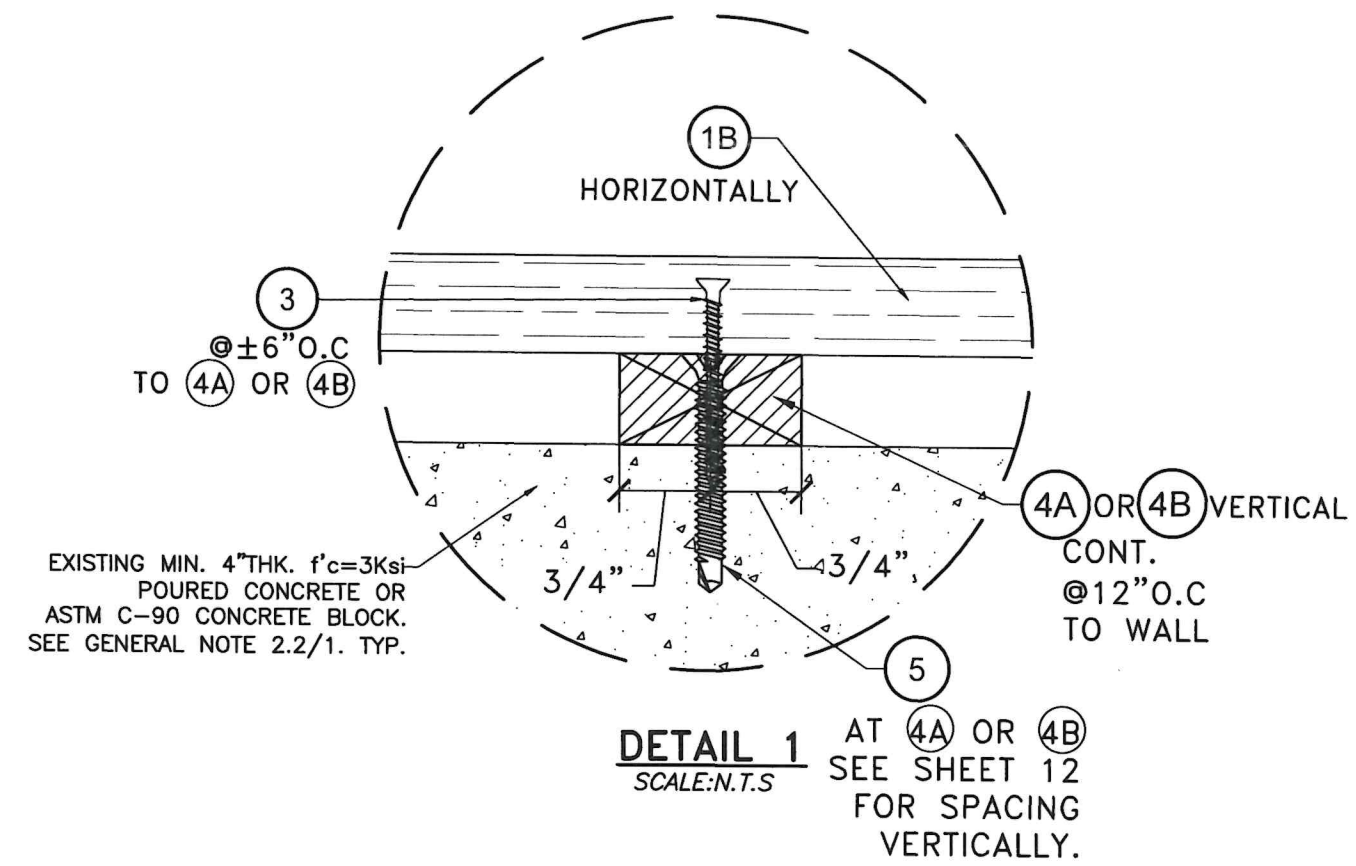
12/15/2005

P.E. SEAL/SIGNATURE/DATE



**SECTION C-C: 1B RUNNING HORIZONTALLY
CONCRETE WALL OR CBS WALL SUBSTRATE.**

SCALE: N.T.S



DETAIL 1
SCALE: N.T.S

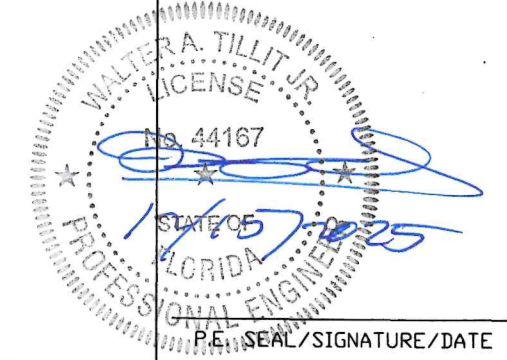
AT 4A OR 4B
SEE SHEET 12
FOR SPACING
VERTICALLY.

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

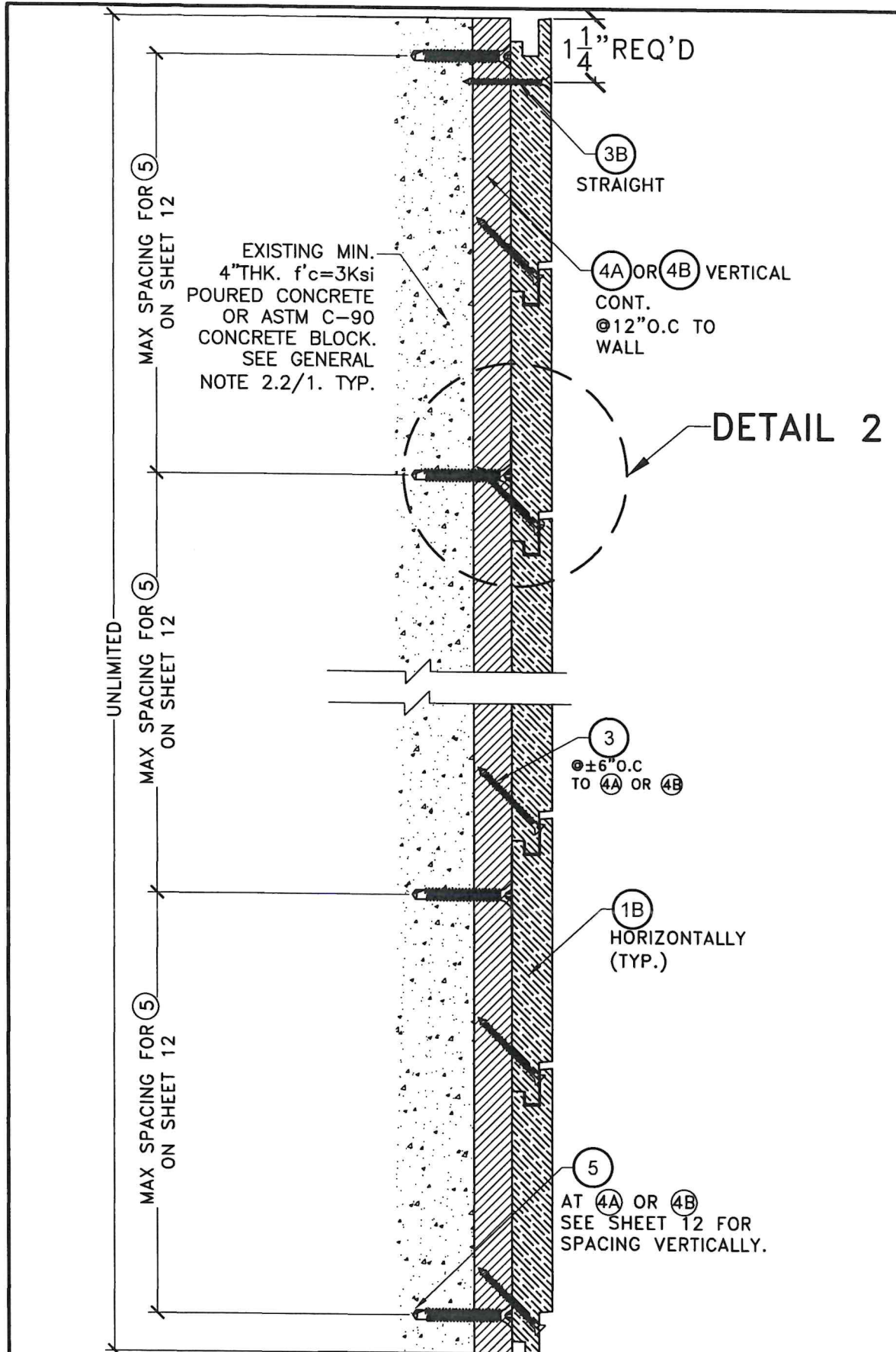
© 2025 TILTECO, INC.		TILTECO inc. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th, St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 Fax : (305)871-1531		W.H. DRAWN BY:	
EXTERIOR SIDING (WALL) MADE OF THERMALLY MODIFIED WOOD MATERIAL.		LUNAWOOD LLC. 5596 RIVERVIEW ROAD SE MABLETON, GA 30126 Phone: +358 50 563 0067 Email: info@lunawood.com		12/5/2025 DATE:	
REV. NO		DESCRIPTION		DATE	
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DATE		DATE		DRAWING No.	
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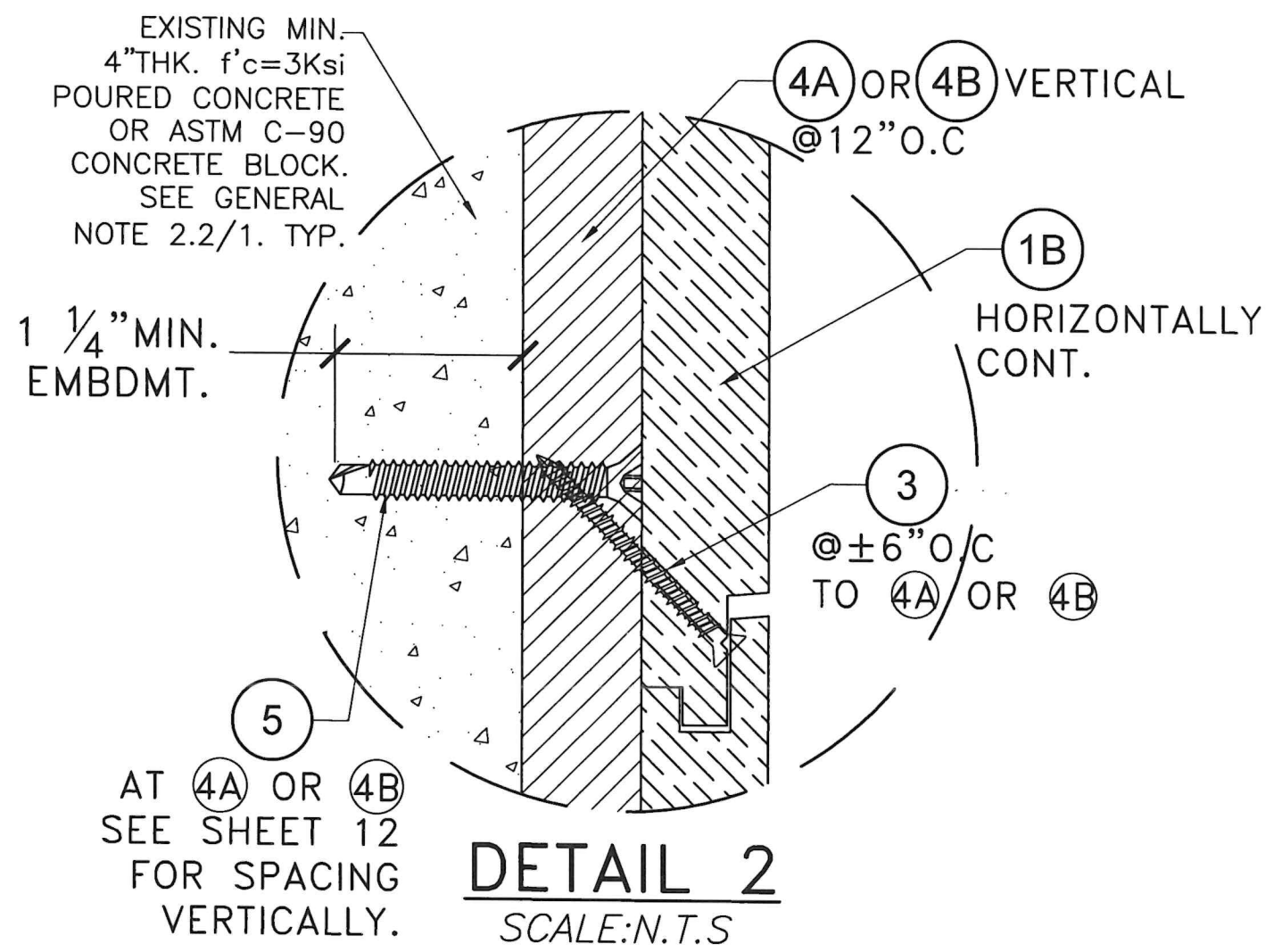
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 ; Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167



P.E. SEAL/SIGNATURE/DATE



SECTION D-D: (1B) RUNNING HORIZONTALLY CONCRETE WALL OR CBS WALL SUBSTRATE.
SCALE:N.T.S



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)				
EXTERIOR SIDING (WALL) MADE OF THERMALLY MODIFIED WOOD MATERIAL		W.H. DRAWN BY:	12/5/2025 DATE:	24-127 DRAWING No.
LUNAWOOD LLC. 5596 RIVERVIEW ROAD SE MABLETON, GA 30126 Phone: +358 50 563 0067 Email: info@lunawood.com		REV. NO.	DESCRIPTION	DATE
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TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167		2	-	-

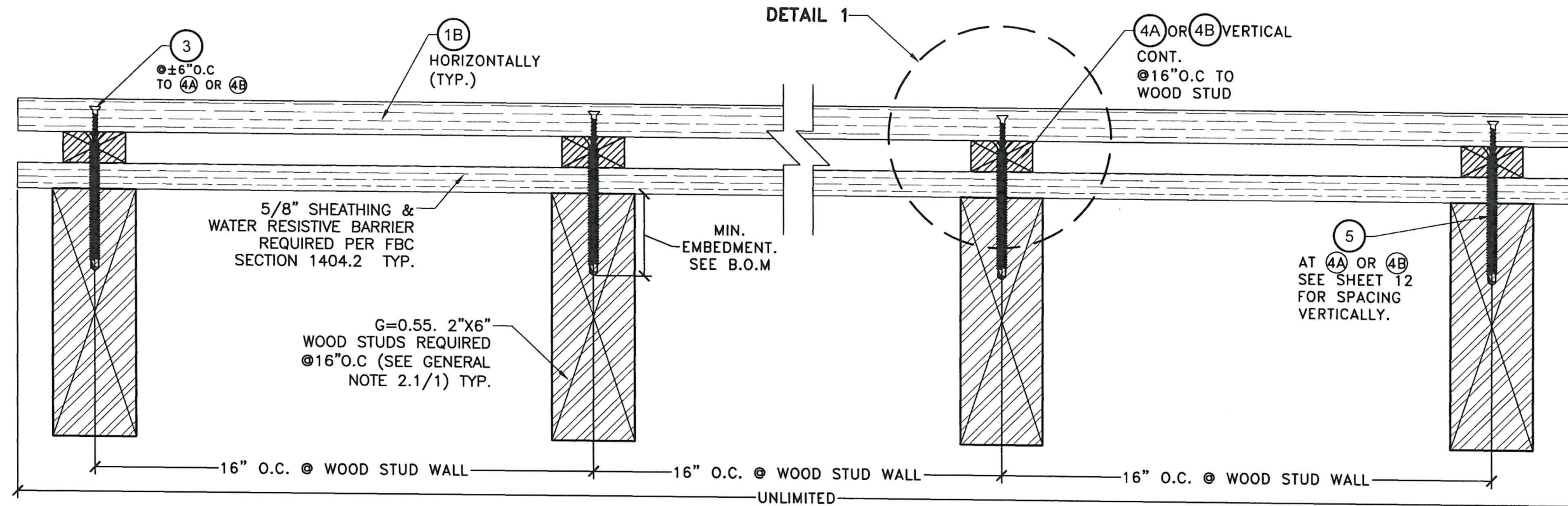
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6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

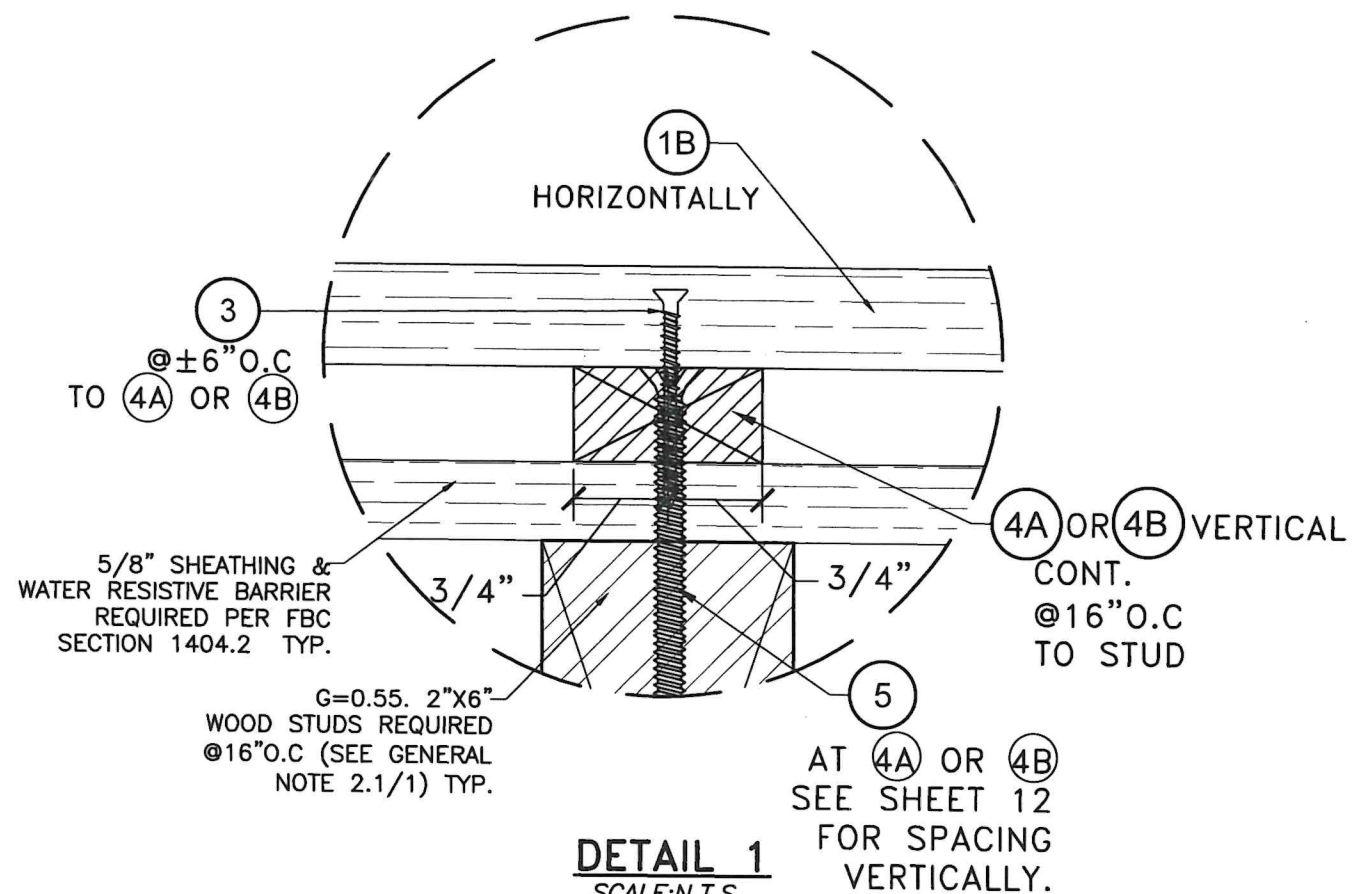
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

PIE SEAL/SIGNATURE/DATE



**SECTION C'-C': 1B RUNNING HORIZONTALLY
WOOD FRAME SUBSTRATE.**

SCALE: N.T.S



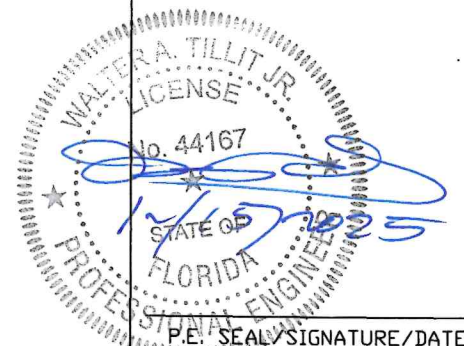
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

EXTERIOR SIDING (WALL) MADE OF THERMALLY MODIFIED WOOD MATERIAL.		W.H. DRAWN BY:		12/5/2025 DATE:		24-127 DRAWING No.		SHEET 10 of 12	
LUNAWOOD LLC. 5596 RIVERVIEW ROAD SE MABLETON, GA 30126 Phone: +358 50 563 0067 Email: info@lunawood.com		REV. NO.		DATE		DESCRIPTION		DATE	
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6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
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CA-0006719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167



P.E. SEAL/SIGNATURE/DATE

ANCHOR SCHEDULE FOR ANCHORAGE OF 4A & 4B TO WALL
SUBSTRATE FOR EXTERIOR 1B SIDING SYSTEM INSTALLATION:

ANCHOR TYPE	SUBSTRATE AT WALL								
	CONCRETE WALL △ MIN. f _c =3000 psi AT 28 DAYS			CONCRETE BLOCK WALL △ ASTM C-90			WOOD WALL *,** MIN. G= 0.55		
	MIN. E.D.	MIN. EMB.	MAX. SPC.	MIN. E.D.	MIN. EMB.	MAX. SPC.	MIN. E.D.	MIN. EMB.	MAX. SPC.
5	2 1/2"	1 3/4"	16" O.C.	2 1/2"	1 1/4"	10" O.C.	3/4"	1 1/2"	16" O.C.

NOTE: MIN. E.D. & EMBEDMENT ARE BEYOND ANY FINISH MATERIAL AT EXISTING WALL (SEE NOTE 2/1) FOR ALL SUBSTRATES

* VALID ONLY FOR HORIZONTALLY INSTALLED FURRING 4A OR 4B AT WOOD FRAME WALLS

- MUST BE ANCHORED W/ 5 TO EXISTING 16" O.C. VERTICAL 2X WOOD STUDS @ EXISTING WOOD FRAME WALL (SEE NOTE 2/1).
- MIN. 1 1/2" EMBEDMENT IS AT EXISTING 2X WOOD STUDS BEYOND ANY EXISTING SHEATHING OR WALL FINISH.
- WOOD FRAME WALL MUST COMPLY WITH SECTIONS 1626.4.2, 1404.2 OF THE FLORIDA BUILDING CODE.
- FASTENER 5 MUST BE INSTALLED AT MIDWIDTH OF EXISTING 2X STUDS AT WOOD FRAME WALL.

** VALID ONLY FOR VERTICALLY INSTALLED FURRING 4A OR 4B AT WOOD FRAME WALLS

- MUST BE ANCHORED TO COINCIDE WITH LOCATION OF EXISTING 16" O.C VERTICAL 2X WOOD STUDS @ EXISTING WOOD FRAME WALL (SEE NOTE 2/1).
- MAX. 16" O.C INDICATED SPACING FOR 5 IS VERTICAL SPACING ALONG EXISTING STUD'S HEIGHT.
- MIN. 1 1/2" EMBEDMENT IS AT EXISTING VERTICAL 2X WOOD STUD BEYOND ANY EXISTING SHEATHING OR WALL FINISH.
- WOOD FRAME WALL MUST COMPLY WITH SECTIONS 1626.4.2, 1404.2 OF THE FLORIDA BUILDING CODE.
- FASTENER 5 MUST BE INSTALLED AT MIDWIDTH OF EXISTING VERTICAL 2X STUD AT WOOD FRAME WALL.
- ADDITIONAL HORIZONTAL FURRING 4A OR 4B USED WHEN SIDING PLANK 1B INSTALLED VERTICALLY AT WOOD WALL SHALL ALSO BE ATTACHED TO EXISTING 16" O.C WOOD STUDS AT WALL BY DRIVING SCREW 5 THRU VERTICAL FURRING 4A OR 4B, PENETRATING MIN. 1 1/2" INTO EXISTING 2X STUDS AT WALL.

△ ADDITIONAL HORIZONTAL FURRING 4A OR 4B USED WHEN SIDING PLANK 1B INSTALLED VERTICALLY AT POURED CONCRETE OR CONCRETE BLOCK WALL SHALL ALSO BE ATTACHED TO EXISTING WALL BY DRIVING SCREW 5 THRU VERTICAL FURRING 4A OR 4B, PENETRATING MIN. 1 3/4" INTO EXISTING POURED CONCRETE WALL & 1 1/4" INTO EXISTING CONCRETE BLOCK WALL.

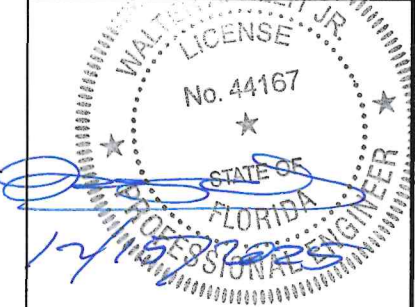
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

W.H DRAWN BY:		12/5/2025 DATE:		24-127 DRAWING No.		SHEET 12 of 12	
EXTERIOR SIDING (WALL) MADE OF THERMALLY MODIFIED WOOD MATERIAL.		LUNAWOOD LLC. 5596 RIVERVIEW ROAD SE MABLETON, GA 30126 Phone: +358 50 563 0067 Email: info@lunawood.com		REV. No	DATE	DESCRIPTION	DATE
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P.E. SEAL/SIGNATURE/DATE