

GENERAL NOTES:

1. EXTERIOR SIDING WALL & CEILING 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 2020 (7th 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 7-16 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 7-16 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.

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-TMY 21 001 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 OR CEILING 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 PER SECTIONS 1626.4(1), 1404.4, 1404.6, 1626.4(2) & 1404.2. SEE NOTES ON SHEET 8 FOR ADDED LIMITATIONS & CONDITIONS FOR WOOD FRAME WALLS OR CEILINGS.

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 # ④ & ④A PROVIDING SUPPORT TO PRODUCT MUST BE PROPERLY ANCHORED TO TRANSFER LOADS TO THE EXISTING STRUCTURAL SYSTEM (WALL OR CEILING). SUBSTRUCTURE (FURRING) COMPONENTS ④ & ④A MUST BE AS INDICATED ON BILL OF MATERIALS ON SHEET 2, SPACED AT 16" ON CENTER (MAX). SEE DETAILS ON SHEETS 3 THRU 7.

6. EXTERIOR SIDING WALL & CEILING PLANKS ARE MADE OF THERMORY U.S.A. THERMALLY TREATED WHITE ASH WOOD 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 THERMORY U.S.A. THERMALLY THREADED REFINED WOOD DECKING PROFILES:

QUALIFICATION	TEST METHOD	TEST RESULT
MODULUS OF RUPTURE	ASTM D 4761 (AFTER WEATHERING)	10,573.5 psi
MODULUS OF ELASTICITY	ASTM D 4761 (AFTER WEATHERING)	1’232,815 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 0.91 & 1.28 MEAN RATIO AT MODULUS OF ELASTICITY.
FLAME SPREAD INDEX	ASTM E 84*	INDEX 50 (CLASS B)
SMOKE INDEX	ASTM E 84*	100 (CLASS B)
CONNECTOR TEST:		
LATERAL CAPACITY (#8-20 x 1.57" SCREW)	ASTM D 1761 (AFTER WEATHERING) **	PARALLEL TO LENGTH 94.0 lbs (ULTIMATE)
LATERAL CAPACITY (#8-20 x 1.57" SCREW)	ASTM D 1761 (AFTER WEATHERING) **	PERPENDICULAR TO LENGTH 52.2 lbs (ULTIMATE)
WITHDRAWAL CAPACITY (#8-20 x 1.57" SCREW)	ASTM D 1761 (AFTER WEATHERING) **	636 lbs (ULTIMATE)

* TEST #RJ8138F-1 FOR THERMORY U.S.A. THERMALLY TREATED WHITE ASH WOOD BY QAI LABORATORIES, 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-TMY-21 001.

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

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)	
EXTERIOR SIDING WALL & CEILING SYSTEM - W/THERMALLY TREATED WHITE ASH WOOD	M.P. DRAWN BY: 08/20/2021 DATE: 21-054 DRAWING No. SHEET 1 OF 8
THERMORY-U.S.A. 56 HARVESTER AVENUE, SUITE 1-201 BATAVIA, NY 14020 PHONE: (585) 250-4074	
TILTECO INC. TILIT TESTING & ENGINEERING COMPANY 6355 W. 38th, Suite 100, Virginia Gardens, FL 33166 Phone: (305) 431-1331 Fax: (305) 431-1331 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167	
P.E. SEAL/SIGNATURE/DATE	

COMPONENTS

① **SIDING/CEILING PLANK**

Diagram illustrating the cross-section of a Siding/Ceiling Plank. The plank has a total width of 5.9" and a thickness of 0.305". The top flange has a thickness of 0.5" and a width of 0.3". The bottom flange has a thickness of 0.790" and a width of 0.335". The central body of the plank is 5.4" wide. The diagram is labeled (A) SIDING/CEILING PLANK.

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WALTER HUBERT, P.E.

EXTERIOR SIDING WALL & CEILING SYSTEM -
 W/THERMALLY TREADED WHITE ASH WOOD

THERMORMY-U.S.A.
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 BATAVIA, NY 14020
 PHONE: (585) 250-4074

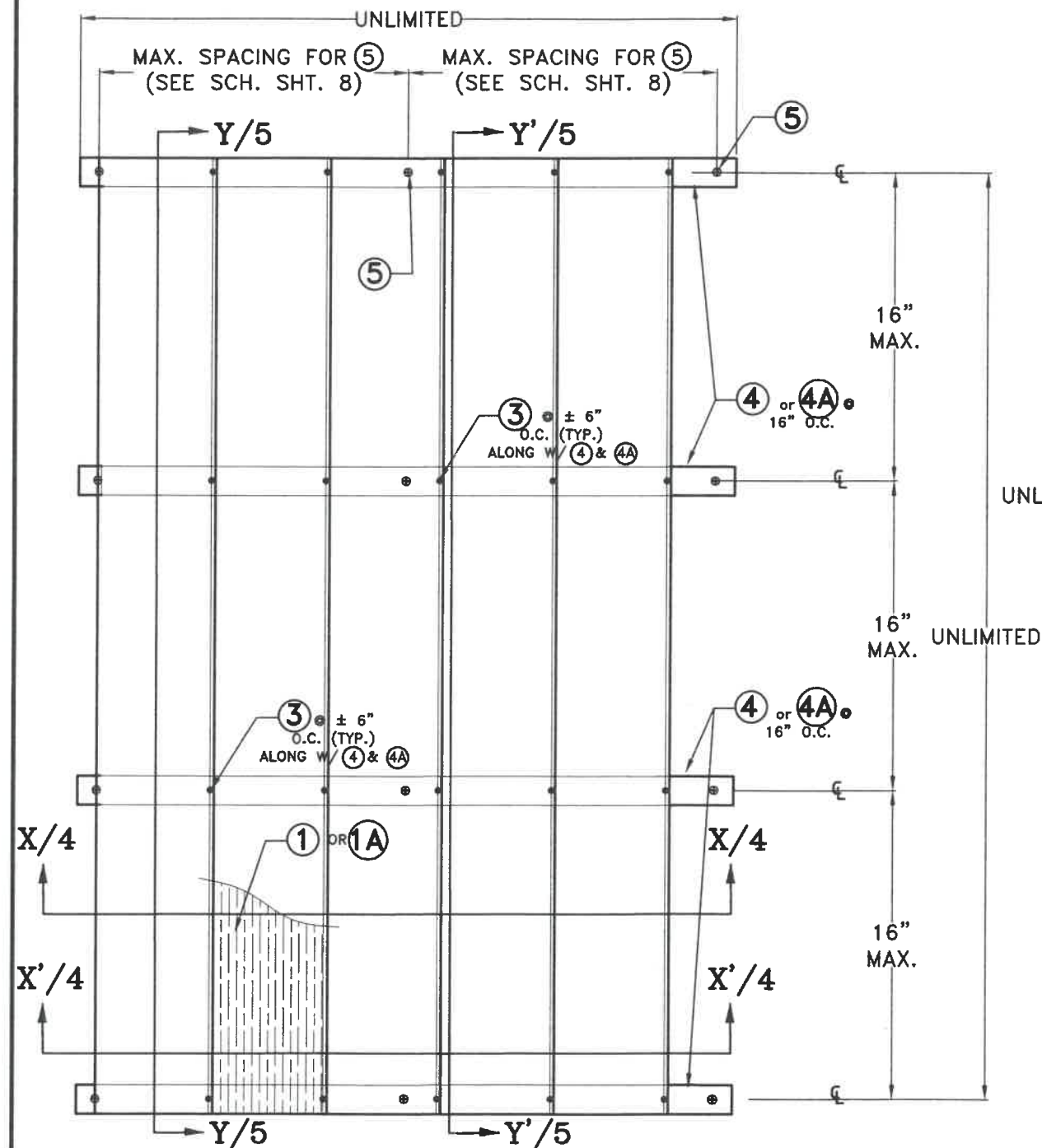
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DATE: 08/20/2021

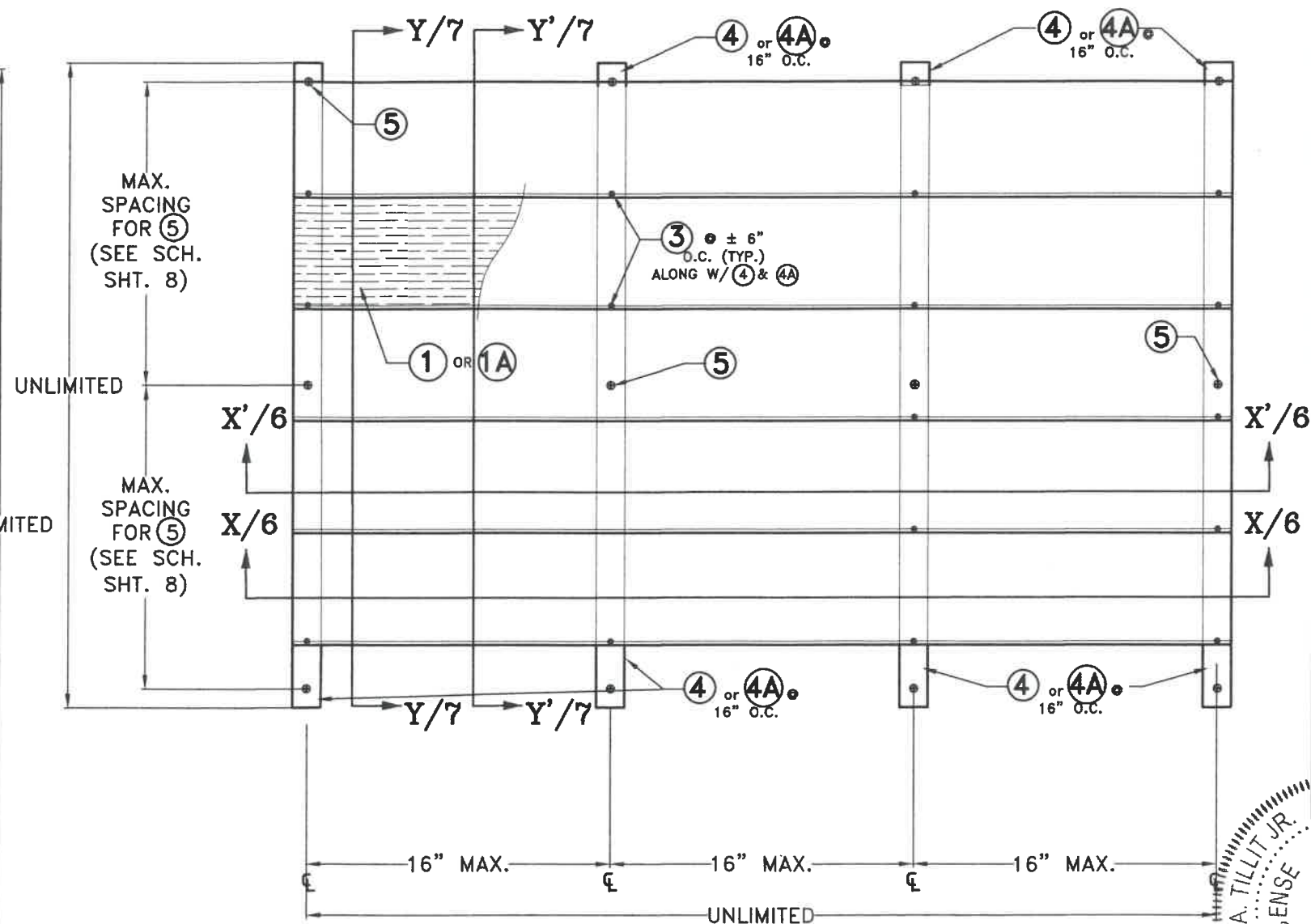
21-054
DRAWING No.

HEET 2 OF 8



EXTERIOR ELEVATION OF ① W/
④ & ④A RUNNING HORIZONTALLY

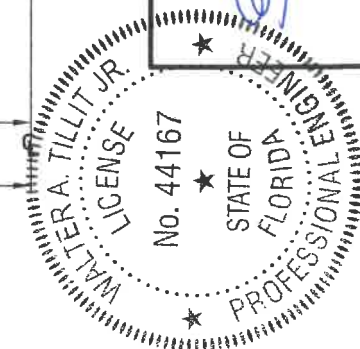
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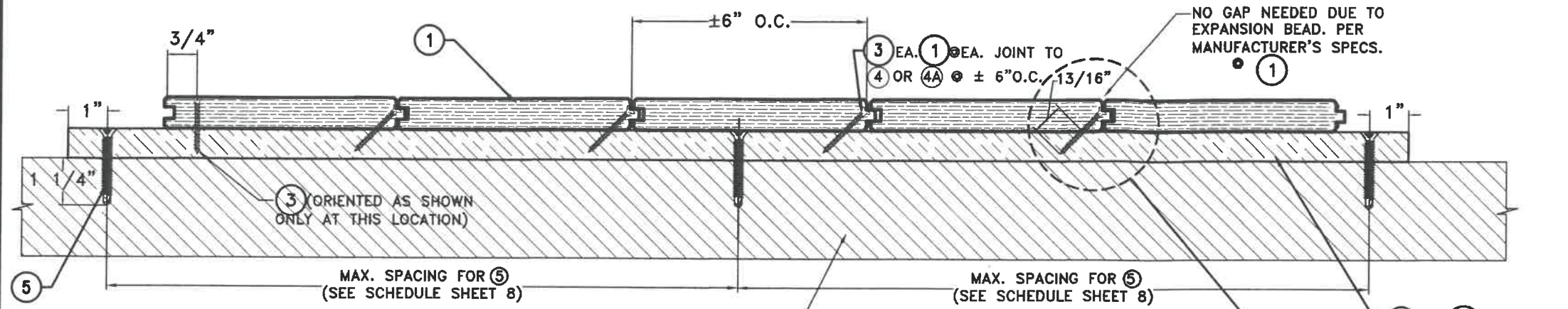


EXTERIOR ELEVATION OF ①A W/
④ & ④A RUNNING VERTICALLY

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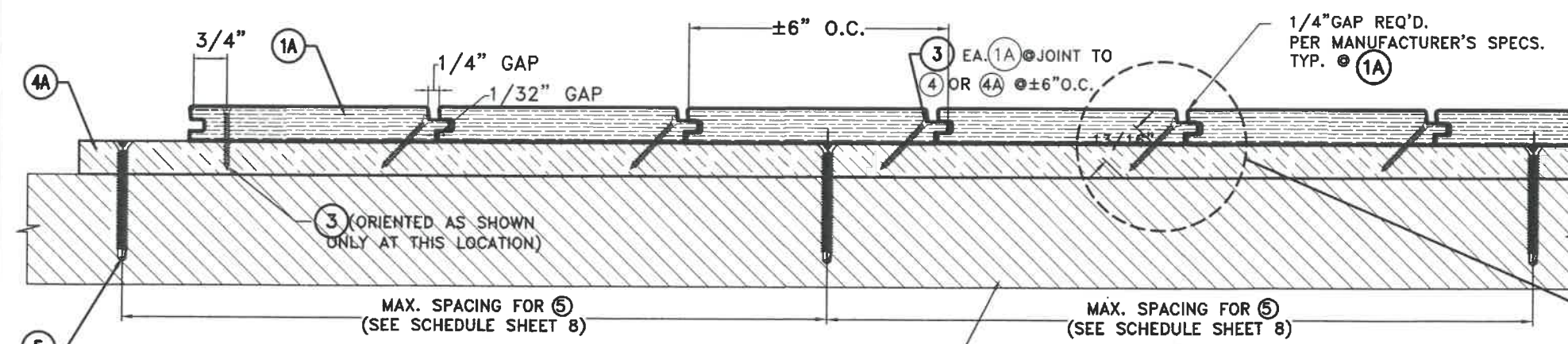
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE) EXTERIOR SIDING WALL & CEILING SYSTEM - W/THERMALLY TREATED WHITE ASH WOOD		M.P. DRAWN BY: 08/20/2021 DATE:	21-054 DRAWING NO.	SHEET 3 OF 8
THERMORY-U.S.A. 56 HARVESTER AVENUE, SUITE 1-201 BATAVIA, NY 14020 PHONE: (585) 250-4074		TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 635 W. 11TH ST. SUITE 100 Phone: (360) 971-1320 Fax: (360) 971-1531 e-mail: tilteco@aol.com CA-0005719 WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167		
REV. NO.	DESCRIPTION	DATE	REV. NO.	DESCRIPTION
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EXISTING MIN. 4" THK, $f'_c=3\text{ksi}$ POURED CONCRETE OR ASTM C-90 CONCRETE BLOCK OR MIN. 1 1/2" THK. $G=0.55$. 2 X 4 WOOD STUDS/SHEATHING REQUIRED @ 16" O.C. SEE NOTE 2/1

SECTION X-X
N.T.S



EXISTING MIN. 4" THK, $f'_c=3\text{ksi}$ POURED CONCRETE OR ASTM C-90 CONCRETE BLOCK OR MIN. 1 1/2" THK. $G=0.55$. 2 X 4 WOOD STUDS/SHEATHING REQUIRED @ 16" O.C. SEE NOTE 2/1

SECTION X'-X'
N.T.S

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

EXTERIOR SIDING WALL & CEILING SYSTEM - W/THERMALLY TREADED WHITE ASH WOOD

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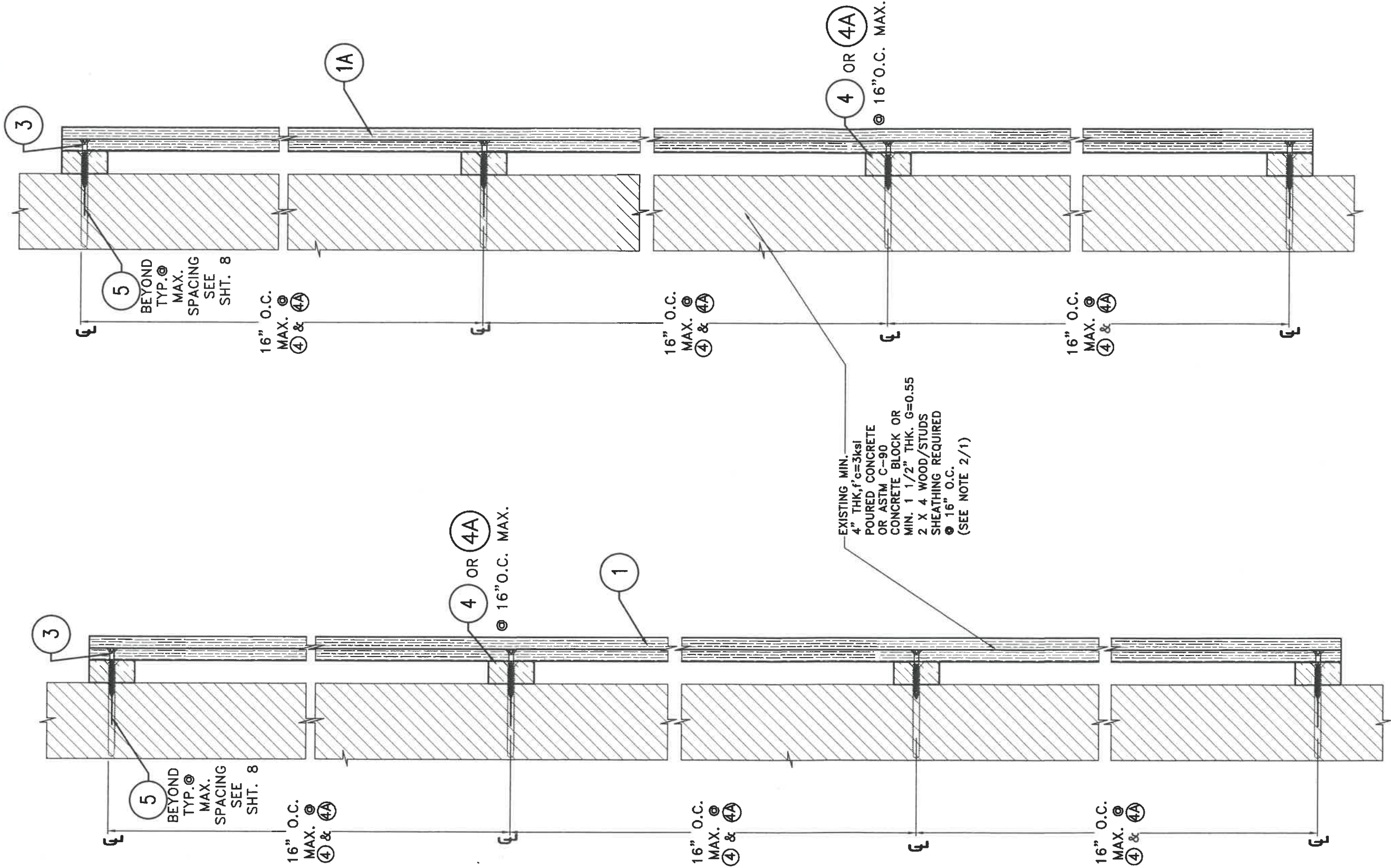
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SHEET 4 OF 8

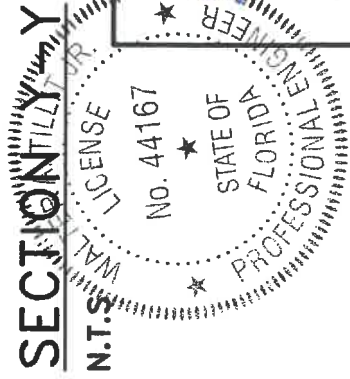
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1/4" GAP REQ'D. TO ALLOW FOR EXPANSION (TYP.) PER MANUFACTURER'S SPECS. 1A



SECTION Y'-Y'
N.T.S



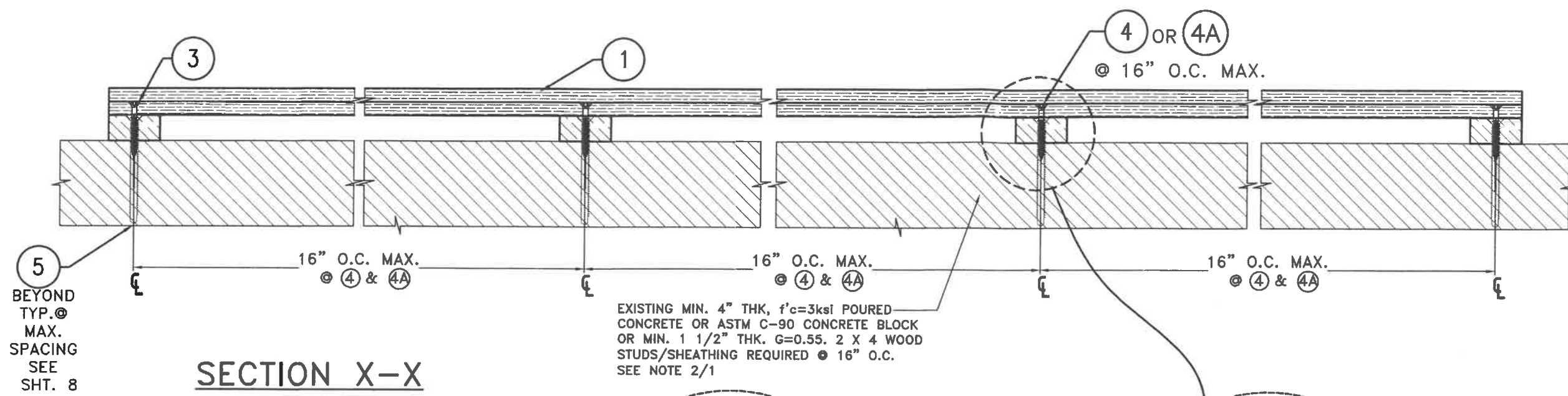
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Walter A. Tillit Jr.

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EXTERIOR SIDING WALL & CEILING SYSTEM -
W/THERMALLY TREADED WHITE ASH WOOD
M.P.
DRAWN BY:
08/20/2021
DATE:
21-054
DRAWING No.
SHEET 5 OF 8

THERMORY-U.S.A.
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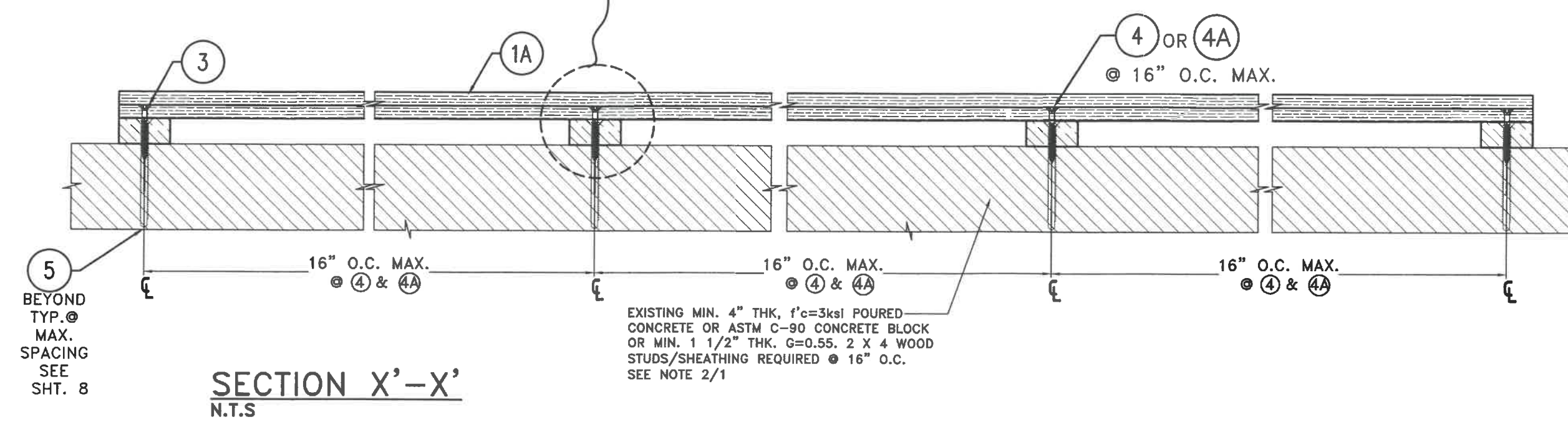
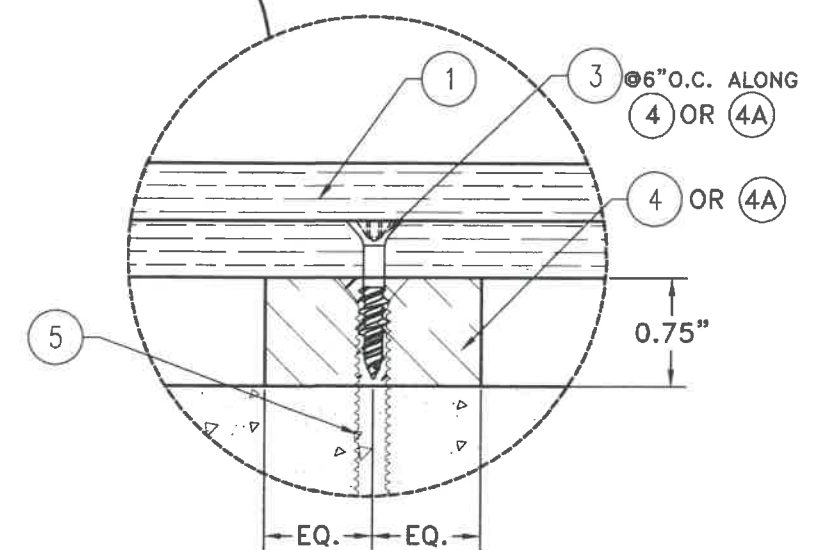
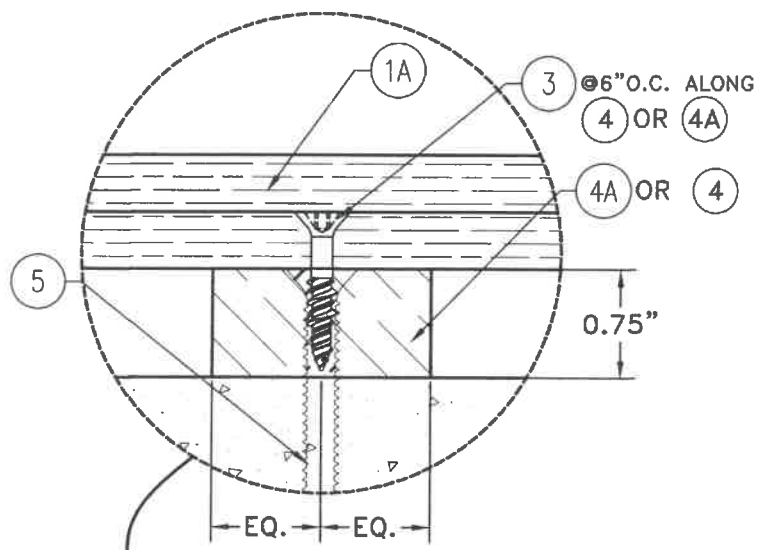
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SECTION X-X
N.T.S

BEYOND
TYP. @
MAX.
SPACING
SEE
SHT. 8

EXISTING MIN. 4" THK, $f'_c=3\text{ksi}$ POURED
CONCRETE OR ASTM C-90 CONCRETE BLOCK
OR MIN. 1 1/2" THK. G=0.55. 2 X 4 WOOD
STUDS/SHEATHING REQUIRED @ 16" O.C.
SEE NOTE 2/1



SECTION X'-X'
N.T.S

BEYOND
TYP. @
MAX.
SPACING
SEE
SHT. 8

EXISTING MIN. 4" THK, $f'_c=3\text{ksi}$ POURED
CONCRETE OR ASTM C-90 CONCRETE BLOCK
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STUDS/SHEATHING REQUIRED @ 16" O.C.
SEE NOTE 2/1

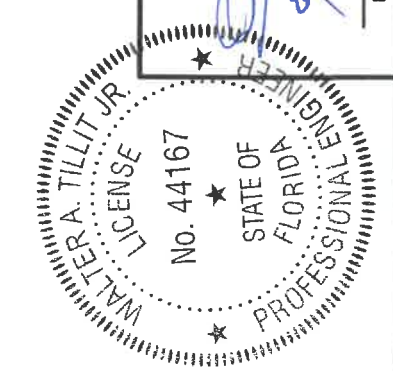
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

M.P. DRAWN BY: 08/20/2021 DATE: 21-054 DRAWING No. SHEET 6 OF 8

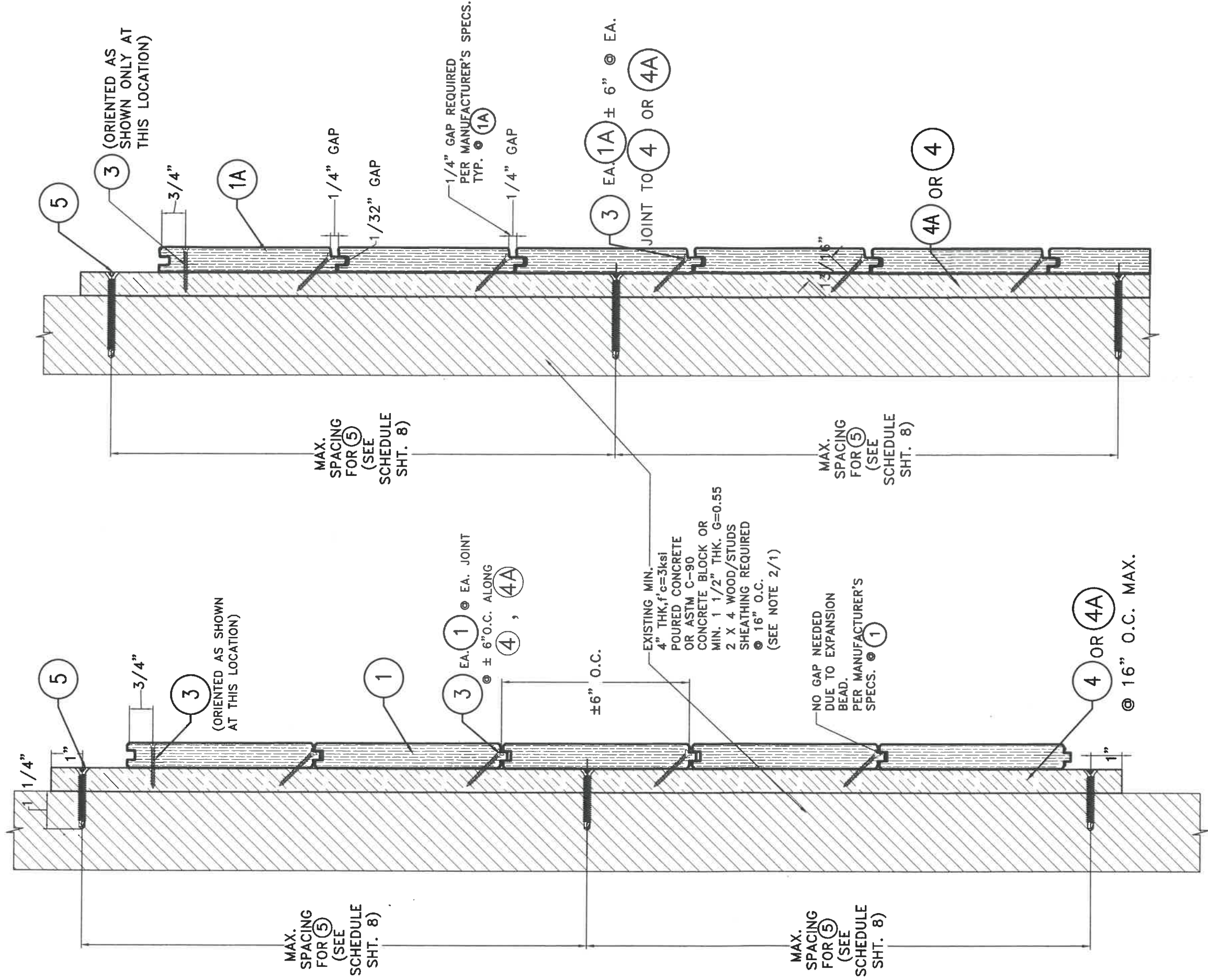
EXTERIOR SIDING WALL & CEILING SYSTEM -
W/THERMALLY TREADED WHITE ASH WOOD

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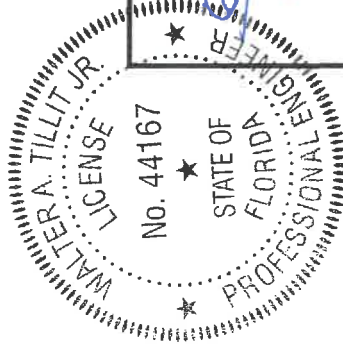


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P.E. SEAL/SIGNATURE/DATE



SECTION Y-Y
N.T.S

SECTION Y'-Y'
N.T.S



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FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)				EXTERIOR SIDING WALL & CEILING SYSTEM - W/THERMALLY TREADED WHITE ASH WOOD		M.P. DRAWN BY:
				THERMORY-U.S.A. 56 HARVESTER AVENUE, SUITE 1-201 BATAVIA, NY 14020 PHONE: (585) 250-4074		08/20/2021 DATE:
REV. NO.	DESCRIPTION	DATE	REV. NO.	DESCRIPTION	DATE	DRAWING No.
1			3			21-054
2			4			SHEET 7 OF 8

ANCHOR SCHEDULE FOR ANCHORAGE OF 4 & 4A TO
SUBSTRATE FOR SIDING/CEILING SYSTEM INSTALLATION:

ANCHOR TYPE	SUBSTRATE AT WALL OR CEILING								
	CONCRETE WALL/CEILING MIN. f'c=3000 psi AT 28 DAYS			CONCRETE BLOCK WALL ASTM C-90			WOOD WALL/CEILING **,** 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.
	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.

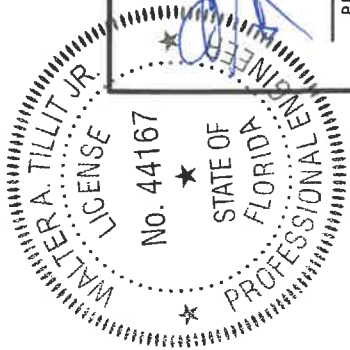
NOTE: MIN. E.D. & EMBEDMENT ARE BEYOND ANY FINISH MATERIAL AT EXISTING WALL OR CEILING (SEE NOTE 2/1) FOR ALL SUBSTRATES

* VALID ONLY FOR HORIZONTALLY INSTALLED FURRING 4 OR 4A AT WALLS OR CEILINGS

- MUST BE ANCHORED TO EXISTING 16" O.C. VERTICAL 2X WOOD STUDS @ EXISTING WALL (SEE NOTE 2/1) OR TO 16" O.C. HORIZONTAL 2X WOOD STUDS @ EXISTING CEILING.
- MIN. 1 1/2" EMBEDMENT IS AT EXISTING 2X WOOD STUDS BEYOND ANY EXISTING SHEATHING OR FINISH.
- SHEATHING 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.

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

- MUST BE ANCHORED TO COINCIDE WITH LOCATION OF EXISTING VERTICAL 2X WOOD STUDS SPACED @ 16" O.C @ EXISTING WALL (SEE NOTE 2/1).
- MAX. 16" O.C INDICATED SPACING 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.
- SHEATHING 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.



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)	
EXTERIOR SIDING WALL & CEILING SYSTEM - W/THERMALLY TREATED WHITE ASH WOOD	M.P. DRAWN BY:
THERMORY-U.S.A. 56 HARVESTER AVENUE, SUITE 1-201 BATAVIA, NY 14020 PHONE: (585) 250-4074	
DATE: 08/20/2021	DATE: 08/20/2021
21-054	21-054
DRAWING No.	DRAWING No.
SHEET 8 OF 8	SHEET 8 OF 8