



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Quick House USA, LLC
11860 W. State Road, Suite B 13
Fort Lauderdale, FL 33325

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: QH-305 (Exterior or Partition) and QH-610 (Partition Only) Composite Wall Panel Systems

APPROVAL DOCUMENT: Drawing No. **23-197**, titled "QH-305 (Exterior or Partition) and QH-610 (Partition Only) Wall Panel System", sheets 1 through 16 of 16 (including 3A and 4A), dated 09/01/2023, prepared by the Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, manufacturing plant's city and state, model/series, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on each panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises** NOA # **21-0412.02** and consists of this page 1, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



NOA No 23-0913.13
Expiration Date: July 28, 2026
Approval Date: November 2, 2023
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under NOA #16-0114.06

A. DRAWINGS

1. Drawing **14-092**, titled “QH-305 (Exterior or Partition) and QH-610 (Partition Only) Wall Panel System”, sheets 1 through 16 of 16 (including 3A and 4A), dated 07/23/2015, with revision 1 dated 07/17/2016, prepared by the Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS

1. Test report on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Compression Loading per ASTM E72
 - 7) Tension Loading per ASTM E72
 - 8) Racking Loading per ASTM E72along with marked-up drawings and installation diagram of QH-305 Series Steel Panels, prepared by Intertek/Architectural Testing, Inc., Test Report No. **BT-QHU-15-001**, dated 06/22/2015, signed and sealed by Yamil G. Kuri, P.E.
2. Test report on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Compression Loading per ASTM E72
 - 7) Tension Loading per ASTM E72
 - 8) Racking Loading per ASTM E72along with marked-up drawings and installation diagram of QH-610 Series Steel Panels, prepared by Intertek/Architectural Testing, Inc., Test Report No. **BT-QHU-15-003**, dated 11/19/2015, signed and sealed by Yamil G. Kuri, P.E.
3. Test report on Tensile Test per ASTM E 8-15a of the 0.0369” galvanized steel, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-15-T329**, dated 11/24/2015, signed and sealed by Rafael E. Droz-Seda, P.E.

C. CALCULATIONS

1. Anchor’s verification calculations prepared by Tilteco, Inc., dated 07/23/2015, signed and sealed by Walter A. Tillit, Jr., P.E.

D. MATERIAL CERTIFICATIONS

1. None.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 23-0913.13
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

F. STATEMENTS

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Tilteco, Inc., dated 12/10/2015, signed and sealed by Walter A. Tillit, Jr., P.E.
2. Statement letter of no financial interest issued by Tilteco, Inc., dated 12/10/2015, signed and sealed by Walter A. Tillit, Jr., P.E.

2. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing **17-268**, titled “QH-305 (Exterior or Partition) and QH-610 (Partition Only) Wall Panel System”, sheets 1 through 16 of 16 (including 3A and 4A), dated 09/29/2017, prepared by the Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. MATERIAL CERTIFICATIONS

1. None.

E. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

F. STATEMENTS

1. Statement letter of code conformance to the 6th edition (2017) FBC issued by Tilteco, Inc., dated 09/29/2017, signed and sealed by Walter A. Tillit, Jr., P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 23-0913.13
Expiration Date: July 28, 2026
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under NOA # 21-0412.02 and new

A. DRAWINGS

1. Drawing No. **23-197**, titled “QH-305 (Exterior or Partition) and QH-610 (Partition Only) Wall Panel System”, sheets 1 through 16 of 16 (including 3A and 4A), dated 09/01/2023, prepared by the Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. MATERIAL CERTIFICATIONS

1. None.

E. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

F. STATEMENTS

1. Statement letter of code conformance to the 8th edition (2023) of the FBC, issued by Tilteco, Inc., dated 09/01/2023, signed and sealed by Walter A. Tillit, Jr., P.E.
2. Statement letter of code conformance to the 7th edition (2020) of the FBC, issued by Tilteco, Inc., dated 04/07/2021, signed and sealed by Walter A. Tillit, Jr., P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 23-0913.13
Expiration Date: July 28, 2026
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GENERAL NOTES:

1. THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) APPLIES ONLY TO THE STRUCTURAL WALL PANELS INDICATED AND SPECIFIED ON THIS DRAWING, HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2020 (7th EDITION) AND 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-16 (FBC2020) AND ASCE 7-22 (FBC2023) AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-16 & 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 THIS SHEET.

DESIGN DEAD AND LIVE LOADS SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7-16 & ASCE 7-22 STANDARDS.

2. BUILDING DIMENSIONS, DETAILS, UPLIFT, OVERTURNING, FOUNDATION, ROOF AND OTHER ELEMENTS WHERE WALL PANELS WILL BE INSTALLED SHALL BE DESIGNED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT AND REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION.

3. ALL ELECTRICAL, MECHANICAL DETAILS AND PARTS AND FIRE RATING PROVISIONS ARE NOT PART OF THIS APPROVAL AND SHALL BE PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER AND REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION.

4. ALL STEEL PANELS AND TRACKS SHALL HAVE COMMERCIAL QUALITY ASTM A-653, GRADE 50 Min. WITH 50 KSI Min. YIELD STRENGTH (AFTER ROLLED). G-90 GALVANIZED STEEL DESIGNATION.

5. ALL SCREWS SHALL BE CORROSION RESISTANT AS PER DIN 50018 WITH FLAT HEAD AND RAISED SIDES TO PREVENT EXCESSIVE PENETRATION WITH MIN. Fy = 80 ksi & SHALL COMPLY WITH FLORIDA BUILDING CODE SECTION 2411.3.3.4. ALL MACHINE SCREWS MAY BE HEX HEAD, SEE BILL OF MATERIALS ON SHEET 3.

6. ANCHORS TO CONCRETE FLOOR & FOUNDATION, OR CONCRETE SHALL BE AS FOLLOWS:

-3/8" ø WEDGE BOLT AS MANUFACTURED BY DEWALT INC., WITH 3" MINIMUM EMBEDMENT INTO MIN. f'c=3ksi CONCRETE.

NOTE: TO VERIFY THAT ANCHORS ARE NOT OVERSTRESSED IN THESE APPROVAL DOCUMENTS, A 33% INCREASE IN ALLOWABLE LOADS WAS NOT USED IN THE ANCHORS ANALYSIS.

7. QH-305 WALL PANEL SYSTEM IS DESIGNED TO BE INSTALLED AS AN EXTERIOR BEARING WALL OR CURTAIN WALL OR AS AN INTERIOR NON BEARING PARTITION:

- WHEN INSTALLED AS AN EXTERIOR BEARING WALL, PANEL SHALL BE Laterally supported by a concrete slab and foundation at the bottom, and roof trusses or rafters with sheathing at top, at a spacings not to exceed 24" on centers. wall connection to roof system shall be performed by a florida registered professional engineer or architect and reviewed by the structural plans examiner of the corresponding building department in order to issue a permit for construction. structural design shall include provisions for all loads developed at the joint between wall panels and roof system.

- WHEN INSTALLED AS A CURTAIN WALL, PANEL SHALL BE Laterally supported by concrete slabs/beams, wood or steel structural beams. spacing between lateral support shall not to exceed 24" on centers on buildings without a concrete slab. for buildings with concrete slabs or continuous concrete beams, installation shall be similar to section B-B, sheet 6. structural adequacy of existing building shall be verified by the permit holder.

MAXIMUM ALLOWABLES: OBTAINED THRU TESTING PERFORMED AS PER TAS 201, 202, 203 AND ASTM E-72, AS PER BLACKWATER TESTING INC., REPORT # BT-QHU-15-001.

LARGE MISSILE IMPACT RESISTANT: 50 FT/SEC. MISSILE SPEED.

MAXIMUM PANEL HEIGHT: 120"

MAXIMUM PANEL WIDTH: 48" ((4)12" PANELS ① / ② / ③ + (1)48" PERMABASE)

MAXIMUM COMPRESSION LOAD PER PANEL: 1440 Lb/FT

MAXIMUM TENSION LOAD PER PANEL: 880 Lb/FT

MAXIMUM RACKING LOAD PER PANEL: 250 Lb/FT *

MAXIMUM LATERAL WIND LOAD FOR PANELS @ 12" o.c.: +70.0, -100 psf

* ONLY SOLID PANELS (WITH NO OPENINGS) SHALL BE CONSIDERED TO RESIST THE RACKING FORCES.

8. QH-305 PANEL MAY BE ALSO USED FOR INTERIOR PARTITIONS. QH-610 SHALL ONLY BE USED FOR INTERIOR PARTITIONS. STRUCTURAL ADEQUACY OF QH-610 PANEL HAS BEEN VERIFIED BY BLACKWATER TEST INC. LAB, PER REPORT # BT-QHU-15-003. QH-305 OR QH-610 PANELS USED AS INTERIOR PARTITIONS SHALL COMPLY W/ SECTIONS 1607.15, 2508 AND ANY OTHER APPLICABLE SECTION OF THE FLORIDA BUILDING CODE.

9. ELECTRIC SERVICE DROP CONDUCTORS OR ANY OVERHEAD WIRING SHALL NOT EXIST OR BE INSTALLED OVER ANY PART OF THIS STRUCTURE.

10. (a) THIS P. A. 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. A. D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P. A. 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.A.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.A.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.A.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.

11. A PERMANENT PANEL MANUFACTURER'S LABEL SHALL BE PLACED ON THE EXPOSED SURFACE OF THE PANEL. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL COMPLY WITH SECTION 1705.3 OF THE FLORIDA BUILDING CODE.

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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0913.13
Expiration Date 07/28/2026
By [Signature]
Miami-Dade Product Control

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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC.			QH-305 (EXTERIOR OR PARTITION), & QH-610 (PARTITION ONLY) WALL PANEL SYSTEM		DRAWN BY Y.M.
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th. St., Ste. 305, VIRGINIA GARDENS, FL 33168 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tiltaco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44187			QUICK HOUSE U.S.A., LLC. 117 NE 1ST AVENUE, SUITE 9112 MIAMI, FL. 33132 PH: (305) 903-8816		09/01/2023 DATE
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 21-041	9/1/23	2		
2			4		
23-197 DRAWING No					SHEET 1 OF 16

SPECIFICATIONS FOR NON METALLIC WALL COMPONENTS. APPLICABLE TO EXTERIOR QH-305 WALL PANEL SYSTEM:


1. THE ACROCRETE ACROWALL DA SYSTEM PROVIDES WEATHER RESISTANT TO EXTERIOR WALL. THE UTILIZATION OF DURABLE CEMENTITIOUS BOARD SUBSTRATE (PERMABASE BOARD) COMBINED WITH ACROCRETE ACRYLIC FINISH PROVIDES THE DESIRED ESTHETICS OF VARIOUS COLORS AND TEXTURES TO ACHIEVE AN ARCHITECTURALLY PLEASING WALL. THE ACROCRETE ACROWALL DA SYSTEM IS BACKED BY A 10 YEARS LIMITED MANUFACTURERS WARRANTY ON THE CEMENTITIOUS BOARD (PERMABASE BOARD) AND A 5 YEARS LIMITED MANUFACTURERS WARRANTY ON ALL COATINGS.
2. PRIMER-SEALER-ADHESIVE MODEL KILZ 2 LATEX BY MASTERCHEM INDUSTRIES LLC., IS A READY TO USE LATEX SEALER THAT SHALL BE USED TO BOND THE PERMABASE BOARD TO THE PANELS (① , ② OR ③) BEHIND IT.
3. PERMABASE™ CEMENT BOARD BY NATIONAL GYPSUM COMPANY, IS A 1/2" THICK, CEMENTITIOUS TILE BACKER BOARD MADE OF PORTLAND CEMENT, AGGREGATE AND REINFORCED WITH FIBERGLASS MESH. THE BOTTOM (UNEXPOSED) SIDE FACING HAS A SMOOTH FINISH WITH A FIBERGLASS MESH EMBEDDED IN THE CEMENT SLURRY AND THE TOP (EXPOSED) SIDE FACING HAS A ROUGH FINISH WITH A FIBERGLASS MESH MECHANICALLY EMBEDDED INTO CORE WITH A WEIGHT OF 3.0 POUNDS PER SQUARE FOOT.
- | PHYSICAL PROPERTIES: | TEST METHOD | PERMABASE |
|--|----------------------|-----------|
| FLEXURAL STRENGTH (psi) | ASTM C 947 | 750 |
| WEIGHT (psf) | ASTM C 473 | 3 |
| COMPRESSIVE STRENGTH (psi) (INDENTATION) | ASTM D 2394 | 2250 |
| FLAME SPREAD/SMOKE DEVELOPED | ASTM E 84 | 5/0 |
| THERMAL "R"/K VALUE | PROPERTY OF MATERIAL | 0.2/2.7 |
| SHEAR BOND STRENGTH, 7 DAYS: | | |
| DRY-SET PORTLAND CEMENT MORTAR (psi) | ANSI A118.1 | 204 |
| LATEX-SET PORTLAND CEMENT MORTAR (psi) | ANSI A118.4 | 241 |
| ORGANIC ADHESIVES TYPE 1 (psi) | ANSI A136.1 | 159 |
4. ACROCRETE BASE COAT BY BASF CORPORATION FL, IS AN ACRYLIC ADHESIVE AND BASE COAT COMBINATION FOR THE ACROCRETE WALL SYSTEMS, USED TO EMBED REINFORCING MESH AND USED AS A LEVELING COAT. THE PROPER MIXING RATIO IS 12 Lb OF WATER TO 50 Lb/BAG OF ACROCRETE BASE COAT, COVERING APPROXIMATELY 100 SQUARE FEET OF WALL.
5. ACROMESH BY BASF CORPORATION FL, IS A SPECIALLY WOVEN AND TREATED FIBERGLASS REINFORCING HIGH IMPACT MESH, ALKALI RESISTANT, THICKNESS: 0.045+10% INCHES, WEIGHT: 20.5+10% oz./sq.yd., MINIMUM TENSILE WRAP: 800 Lb/in AND MINIMUM TENSILE FILL: 550 Lb/in.
6. ACROCRETE FINISH BY BASF CORPORATION FL, IS A PREMIXED DECORATIVE AND PROTECTIVE WALL COATING. IT IS FORMULATED WITH A 100% PURE ACRYLIC BASED COATINGS INCORPORATING PURE MARBLE AGGREGATES IN VARIETY OF COLOR AND TEXTURES. 70 Lb PAIL COVERS APPROXIMATELY 100-190 SQUARE FEET OF WALL DEPENDING ON TEXTURE.
7. ACROMESH AND ACROCRETE FINISH BY BASF CORPORATION FL BEAR ALSO A MIAMI-DADE COUNTY PRODUCT CONTROL ACCEPTANCE AS COMPONENTS OF A WALL SYSTEM.

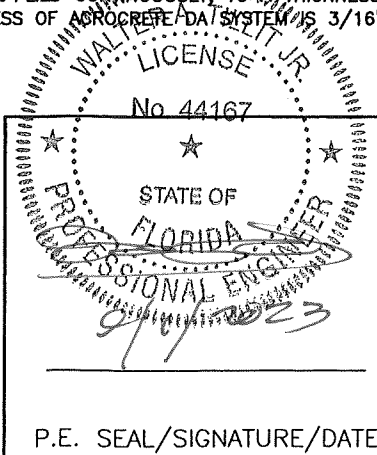
-TEST REPORTS ON ACROCRETE, PREPARED BY APPLIED CONSUMER SERVICES INC.


NUMBER	TEST	ADDITIONAL TEST:
2525-A	ASTM G 26, WEATHERING EXPOSURES	-TEST REPORT ON FIRE PROPAGATION UNDER MODIFIED ASTM E 108, PREPARED BY TESTING CONSULTANTS, INC. PROJECT NUMBER 002010.
2525-B	ASTM E 96, VAPOR TRANSMISSION	-TEST REPORT ON SURFACE BURNING CHARACTERISTICS OF ACROBASE AND ACROCRETE FINISH APPLIED TO GRC BOARD, TESTED UNDER ASTM E-84, PREPARED BY COMMERCIAL TESTING COMPANY, REPORT No. 75239.
2525-C	UL-181, p.11, MOLD RESISTANCE	-TEST REPORT ON WEATHERING EXPOSURE TESTS WITH XENON ARC AND RAIN CYCLES, 2000 HOURS UNDER ASTM G-26, PREPARED BY APPLIED CONSUMER SERVICES, INC., REPORT L/N 2931.
2525-D	ASTM D 413, ADHESION TEST	-TEST REPORT ON IMPACT LOAD RESISTANCE OF ACROWALL DA FINISH SYSTEMS UNDER EIMA TEST METHOD AND STANDARD 101.86, PREPARED BY ACROCRETE, INC.
2525-E	ASTM D 2240, HARDNESS TEST	-TEST REPORT ON PHYSICAL PROPERTIES, PREPARED BY JIM WALTER RESEARCH CORP. THE FOLLOWING TESTS WERE PERFORMED:
2525-F	ASTM C 177, THERMAL RESISTANCE	. COMPRESSIVE STRENGTH UNDER ASTM D 1621.
2525-G	ASTM C 6, WATER ABSORPTION	. FLEXURAL STRENGTH UNDER ASTM C 203.
2525-H	FS TT-C-555, WIND DRIVEN RAIN	. WATER ABSORSION UNDER ASTM C 272.
2525-I	ASTM B 177, SALT FOG	. WATER VAPOR TRANSMISSION UNDER ASTM E 96.
2525-J	ASTM C 6, p14, FREEZE/THAW	. DIMENSIONAL STABILITY UNDER ASTM D 2126.
2525-K	ASTM D 968, SAND ABRASION	-TEST REPORT ON SURFACE BURNING CHARACTERISTICS UNDER ASTM E 84 FOR ACRODRY PREMIXED BASE COAT, CELOTEX CORPORATION TESTING SERVICES, MTS JOB No. 520228.
2525-L	ASTM D 1308/ANSI Z-124.2 (MODIFIED),	-ENGINEERING FIRE INVESTIGATION OF ACRODRY, WALKER ENGINEERING, INC.
	CHEMICAL RESISTANCE	
2525-M	STAIN RESISTANCE	

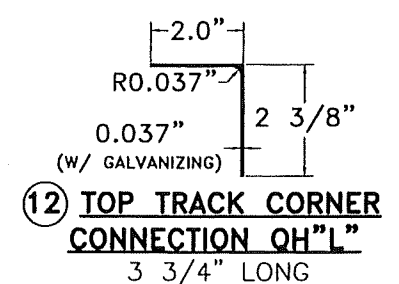
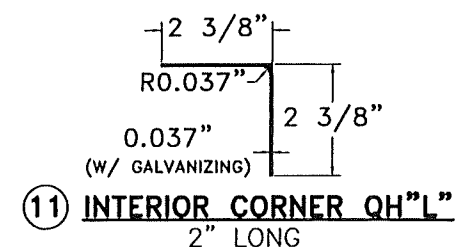
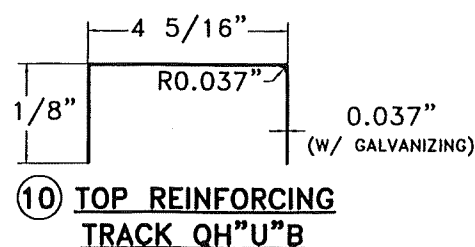
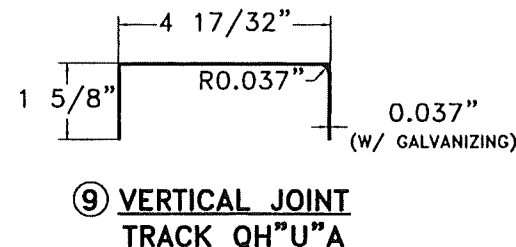
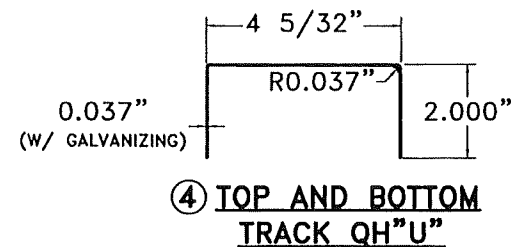
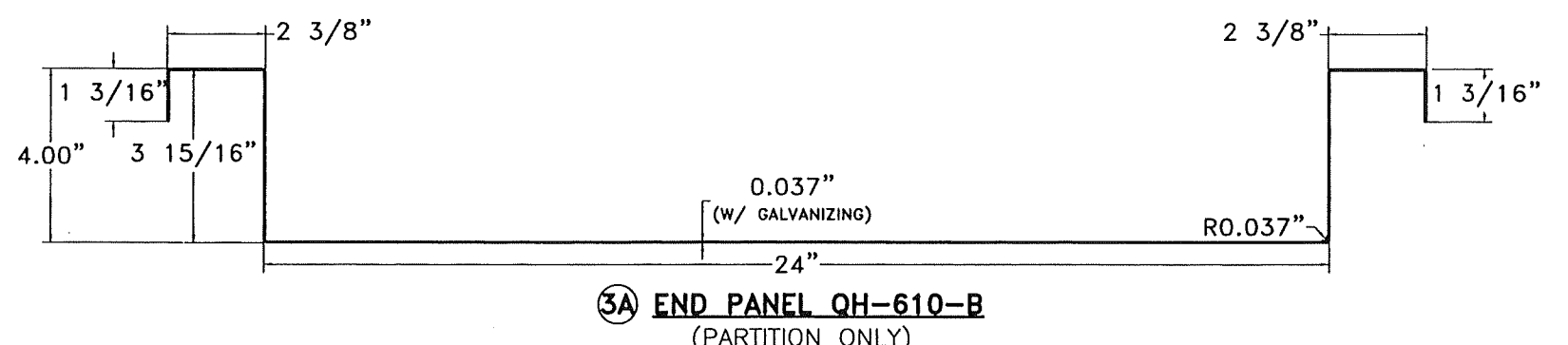
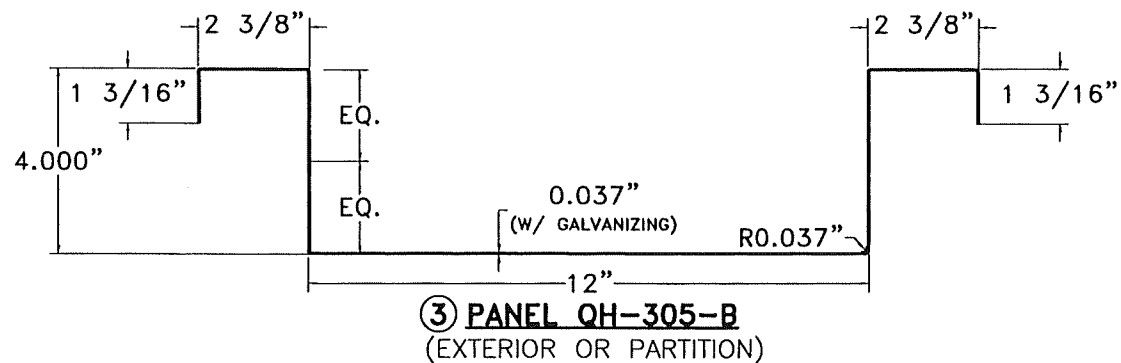
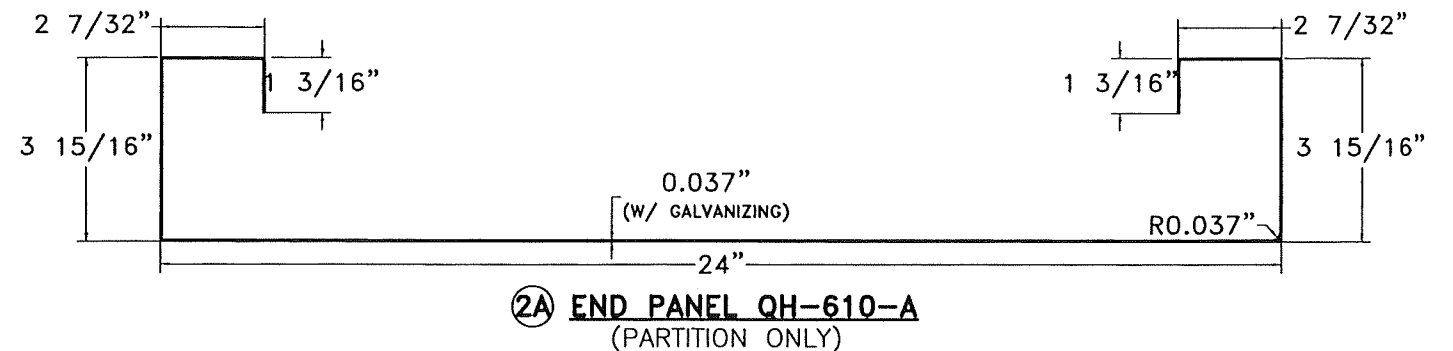
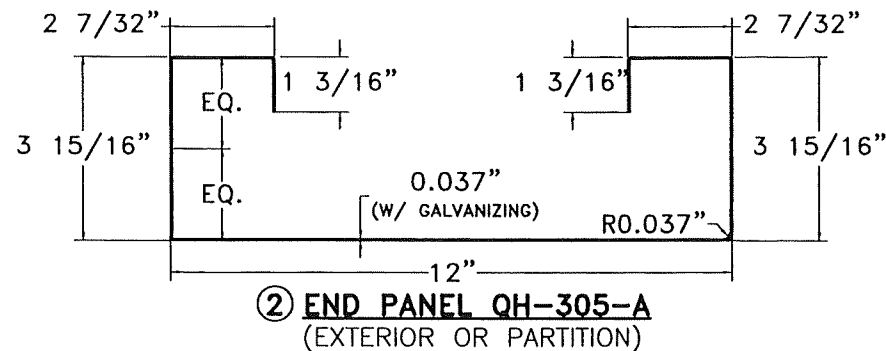
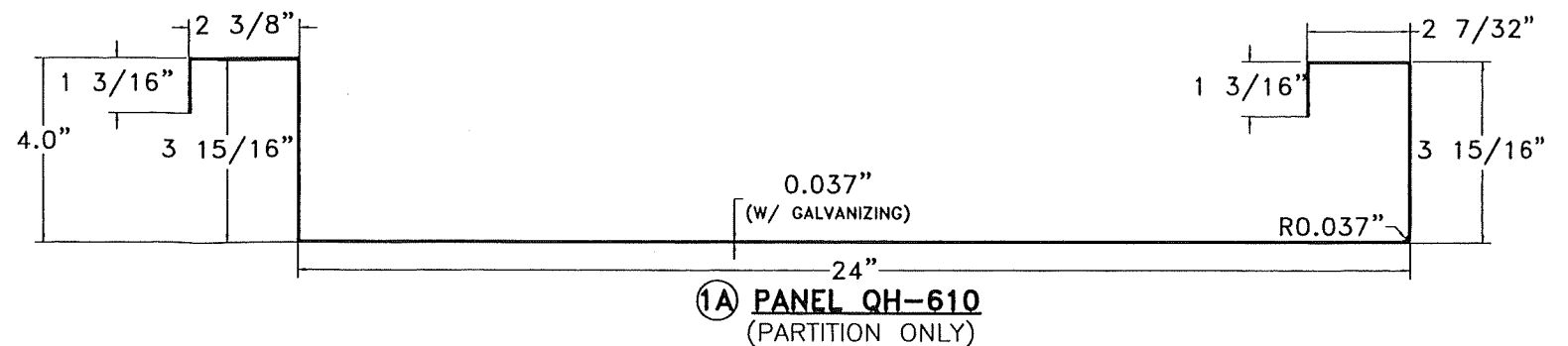
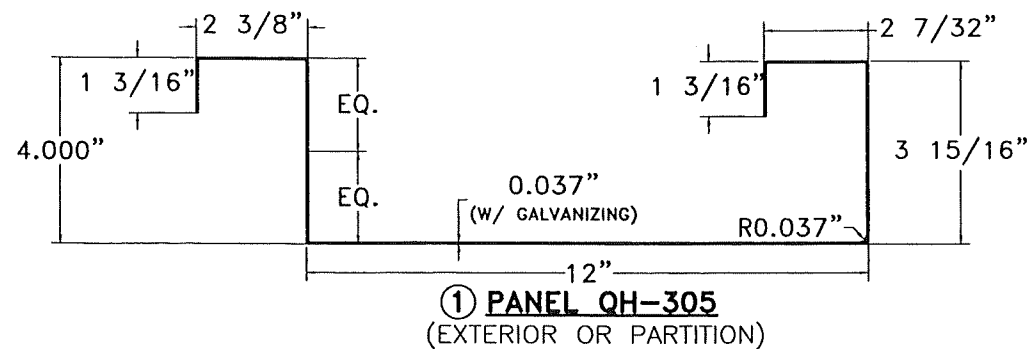
APPLICATION SEQUENCE:

1. SPREAD 6-8 MIL OF PRIMER-SEALER-ADHESIVE TO BOND THE PERMABASE™ CEMENT BOARD TO PANELS ① , ② OR ③
2. USE (2) #10x3/4" S.M.S. LOCATED AT 3" FROM END, AT (2) PER PANEL ① , ② OR ③ TO SECURE PERMABASE™ CEMENT BOARD TO HORIZONTAL TOP AND BOTTOM SLIP TRACK AND USE #10x3/4" S.M.S. STARTING AT 6" FROM ENDS OF PERMABASE, AND AT 6" o.c Max. TO SECURE PERMABASE™ CEMENT BOARD TO GALVANIZED STEEL PANELS AT EVERY HORIZONTAL OR VERTICAL JOINT BETWEEN PANELS. SEE DETAILS 1/4A, 2/4A Y 3/4A.
3. APPLY ACROCRETE BASE COAT AND EMBED 9 1/4" WIDE FIBERGLASS MESH INTO THE WET ACROCRETE BASE COAT OVER EVERY HORIZONTAL OR VERTICAL JOINT BETWEEN PANELS. A PERIOD OF 24 HOURS SHALL LAPSE BETWEEN THE INSTALLATION OF THE JOINT MESH AND THE ACRODRY LEVELING COAT.
4. APPLY ACROCRETE BASE COAT LEVELING COAT USING 1/2"x1/2" STAINLESS STEEL NOTCHED TROWEL WITH 1 1/2" SPACE BETWEEN NOTCHES TO THE ENTIRE SURFACE OF BOARD AT A UNIFORM THICKNESS. A PERIOD OF 24 HOURS SHALL LAPSE BEFORE INSTALLING THE FINISH COAT.
5. FINISH WALL USING A STAINLESS STEEL TROWEL, APPLY AND LEAVE A COAT OF TROWEL FINISHES EFFECT OR SAND EFFECT TO A UNIFORM THICKNESS, APPROXIMATELY 1 TO 1 1/2 TIMES THE LARGEST AGGREGATE. THE TEXTURE IS ACHIEVED BY UNIFORM HAND MOTION AND TYPE OF TOOL USED. MAINTAIN WET EDGE FOR UNIFORMITY OF COLOR AND TEXTURE. A TIGHT COAT OF ACROCRETE FINISH SHALL BE APPLIED CONTINUOUSLY TO A THICKNESS NOT GREATER THAN THE LARGEST AGGREGATES. A WET EDGE SHALL BE MAINTAINED. LEVELING AND TEXTURING SHALL TAKE PLACE IN ONE OPERATION. ACROCRETE FINISH DRYING TIME IS 24 HOURS. OVERALL AVERAGE THICKNESS OF ACROCRETE/DA SYSTEM IS 3/16".
6. GLASS FIBER OR SAFB BLANKET INSULATION MAY BE INSERTED IN THE WALL CAVITY FOR BETTER THERMAL AND SOUND PERFORMANCE.
7. THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS DRAWING SHALL BE STRICTLY ADHERED TO AND A COPY OF THESE INSTRUCTIONS SHALL BE AVAILABLE AT ALL TIMES ON THE JOB SITE DURING INSTALLATION.
8. THE INSTRUCTIONS WITHIN THIS DRAWING GOVERN IF THERE ARE ANY CONFLICTS BETWEEN THE MANUFACTURER'S INSTRUCTIONS AND THIS DRAWING.

PRODUCT REVISED
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By 
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FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC.			QH-305 (EXTERIOR OR PARTITION), & QH-610 (PARTITION ONLY) WALL PANEL SYSTEM		DRAWN BY Y.M.
 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th. St., Ste. 305, VIRGINIA GARDENS, FL 33168 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			QUICK HOUSE U.S.A., LLC. 117 NE 1ST AVENUE, SUITE 9112 MIAMI, FL. 33132 PH: (305) 903-8816		09/01/2023 DATE
					23-197 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 21-041	9/1/23	3		
2			4		
					SHEET 2 OF 16



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By *[Signature]*
Miami-Dade Product Control

COMPONENTS
SCALE 1/4"=1"

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

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TILLIT TESTING & ENGINEERING COMPANY
8355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone: (305)971-1630 Fax: (305)971-1631
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167


**QH-305 (EXTERIOR OR PARTITION),
& QH-610 (PARTITION ONLY)
WALL PANEL SYSTEM**
QUICK HOUSE U.S.A., LLC.
117 NE 1ST AVENUE, SUITE 9112
MIAMI, FL. 33132
PH: (305) 903-8816

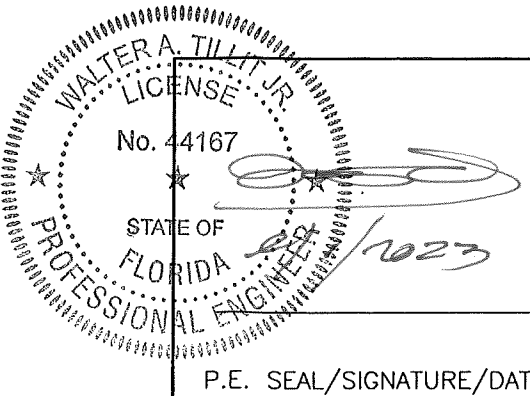
DRAWN BY
Y.M.
09/01/2023
DATE
23-197
DRAWING No
SHEET 3 OF 16


REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

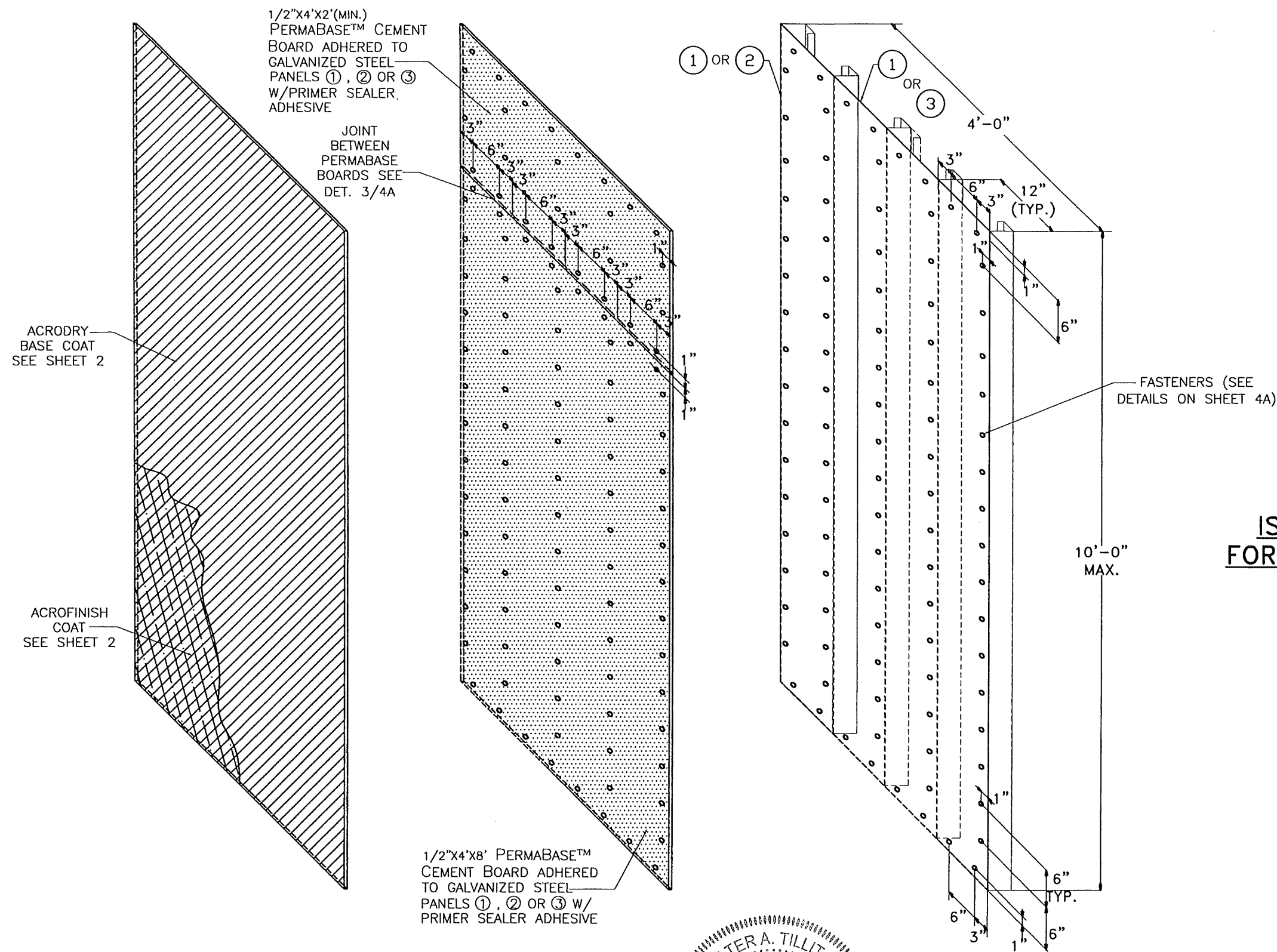
BILL OF MATERIALS			
COMPONENT #	DESCRIPTION	MATERIAL	REMARKS
①	PANEL QH-305	ASTM A-653 GRADE 50	G-90 GALVANIZED FULL HEIGHT PANEL
①A	PANEL QH-610	ASTM A-653 GRADE 50	G-90 GALVANIZED FULL HEIGHT PANEL
②	END PANEL QH-305-A	ASTM A-653 GRADE 50	G-90 GALVANIZED FULL HEIGHT PANEL
②A	END PANEL QH-610-A	ASTM A-653 GRADE 50	G-90 GALVANIZED FULL HEIGHT PANEL
③	PANEL QH-305-B	ASTM A-653 GRADE 50	G-90 GALVANIZED SHORT PANEL
③A	PANEL QH-610-B	ASTM A-653 GRADE 50	G-90 GALVANIZED SHORT PANEL
④	TOP AND BOTTOM TRACK QH"U"	ASTM A-653 GRADE 50	G-90 GALVANIZED *
⑤	5/16"Øx3/4" M.S. W/ NUT	ZINC PLATED STEEL	MIN. Fy=33Ksi STL *
⑥	#10x1/2" F.H. SDS	STEEL	SELF DRILLING SCREWS *
⑦	3/8"Øx3" WEDGE BOLT	STEEL	POWER FASTENERS INC, W/ 3"MIN. EMBEDMENT INTO CONCRETE *
⑨	VERTICAL JOINT TRACK QH"U"A	ASTM A-653 GRADE 50	G-90 GALVANIZED *
⑩	TOP REINFORCING CONT. TRACK QH"U"B	ASTM A-653 GRADE 50	G-90 GALVANIZED **
⑪	INTERIOR CORNER QH"L", 2" LONG	ASTM A-653 GRADE 50	G-90 GALVANIZED *
⑫	TOP TRACK CORNER CONNECTION QH"L", 3 3/4" LONG	ASTM A-653 GRADE 50	G-90 GALVANIZED *

* USE AT BOTH QH-305 & QH-610 PANEL SYSTEMS.
** ONLY REQ'D W/ QH-305 EXTERIOR WALL PANEL.


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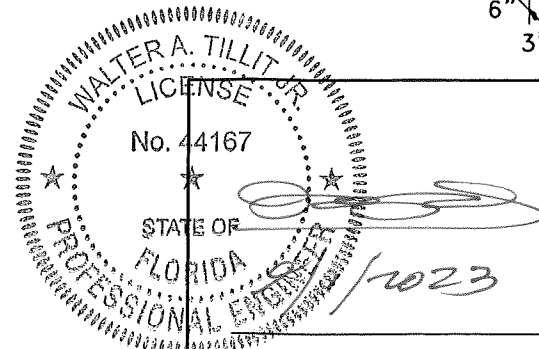


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©2023 TILTECO, INC.				QH-305 (EXTERIOR OR PARTITION), & QH-610 (PARTITION ONLY) WALL PANEL SYSTEM	
 TILLIT TESTING & ENGINEERING COMPANY 8355 N.W. 38th. St., Ste. 305, VIRGINIA GARDENS, FL 33168 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tiltaco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167				QUICK HOUSE U.S.A., LLC. 117 NE 1ST AVENUE, SUITE 9112 MIAMI, FL. 33132 PH: (305) 903-8816	
				DRAWN BY Y.M. 09/01/2023 DATE 23-197 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 21-041	9/1/23	3		
2			4		
					SHEET 3A OF 16



ISOMETRIC DETAIL FOR PANEL ASSEMBLY

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8355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
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e-mail: tilteco@tillit.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

QH-305 (EXTERIOR OR PARTITION),
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WALL PANEL SYSTEM

QUICK HOUSE U.S.A., LLC.
117 NE 1ST AVENUE, SUITE 9112
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PH: (305) 903-8816

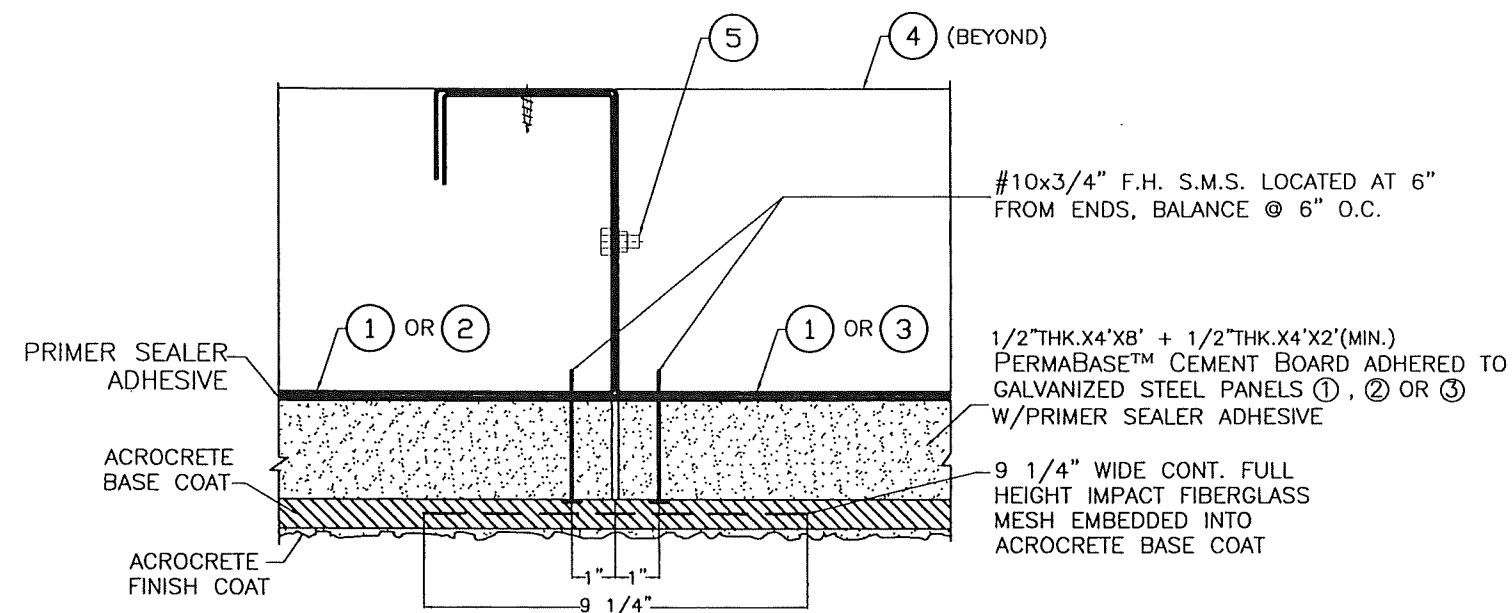
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Y.M.

09/01/2023
DATE

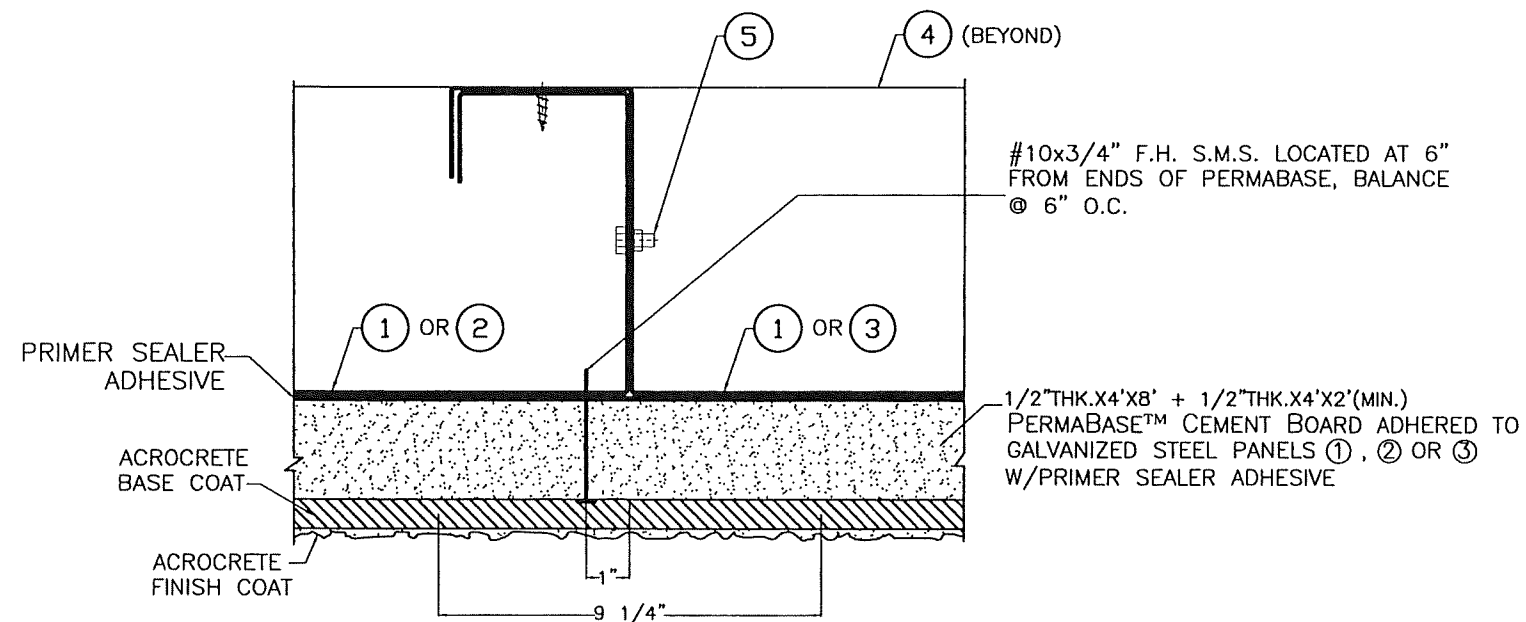
23-197
DRAWING No

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SHEET 4 OF 16

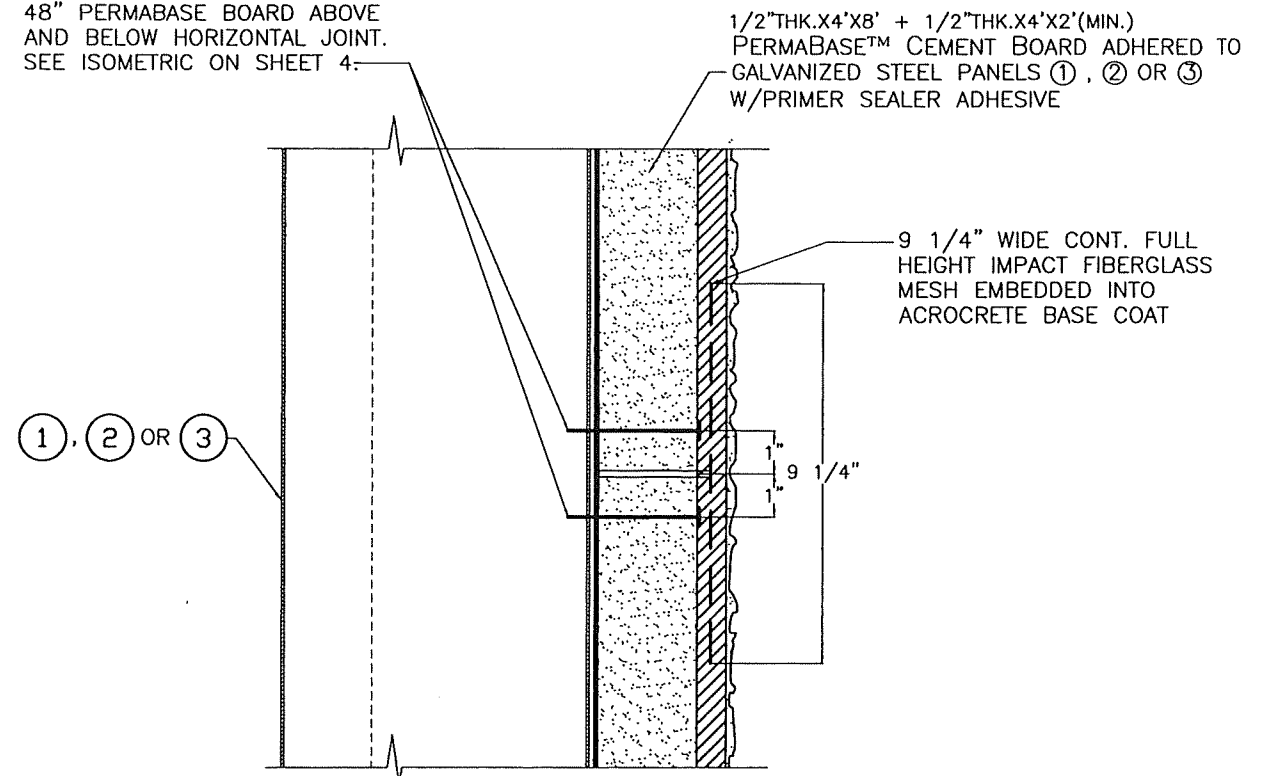


DETAIL 1: TYPICAL SEALING & FASTENING AT VERTICAL JOINT BETWEEN PERMABASE PANELS*



DETAIL 2: TYPICAL SEALING AT JOINT BETWEEN PANELS 1, 2 OR 3 *

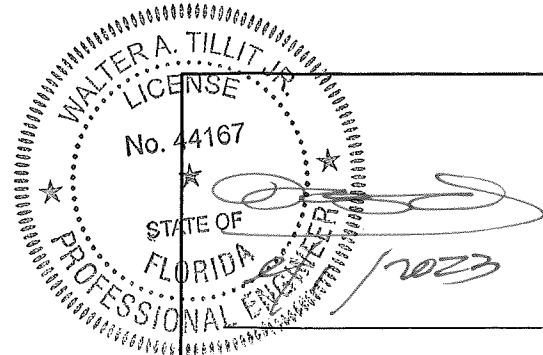
(2) #10x3/4" F.H. S.M.S. LOCATED AT EACH 1, 2, OR 3 AT 3" FROM VERTICAL EDGE OF 1, 2 OR 3, (8) TOTAL REQ'D FOR A 48" PERMABASE BOARD ABOVE AND BELOW HORIZONTAL JOINT. SEE ISOMETRIC ON SHEET 4.



DETAIL 3: TYPICAL SEALING & FASTENING AT HORIZONTAL JOINT BETWEEN PERMABASE PANELS*

* SEE SHEETS 13 & 15 FOR CORNER DETAILS.

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Phone: (305) 871-1530 • Fax: (305) 871-1531
e-mail: tillitco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

QH-305 (EXTERIOR OR PARTITION),
& QH-610 (PARTITION ONLY)
WALL PANEL SYSTEM

QUICK HOUSE U.S.A., LLC.
117 NE 1ST AVENUE, SUITE 9112
MIAMI, FL. 33132
PH: (305) 903-8816

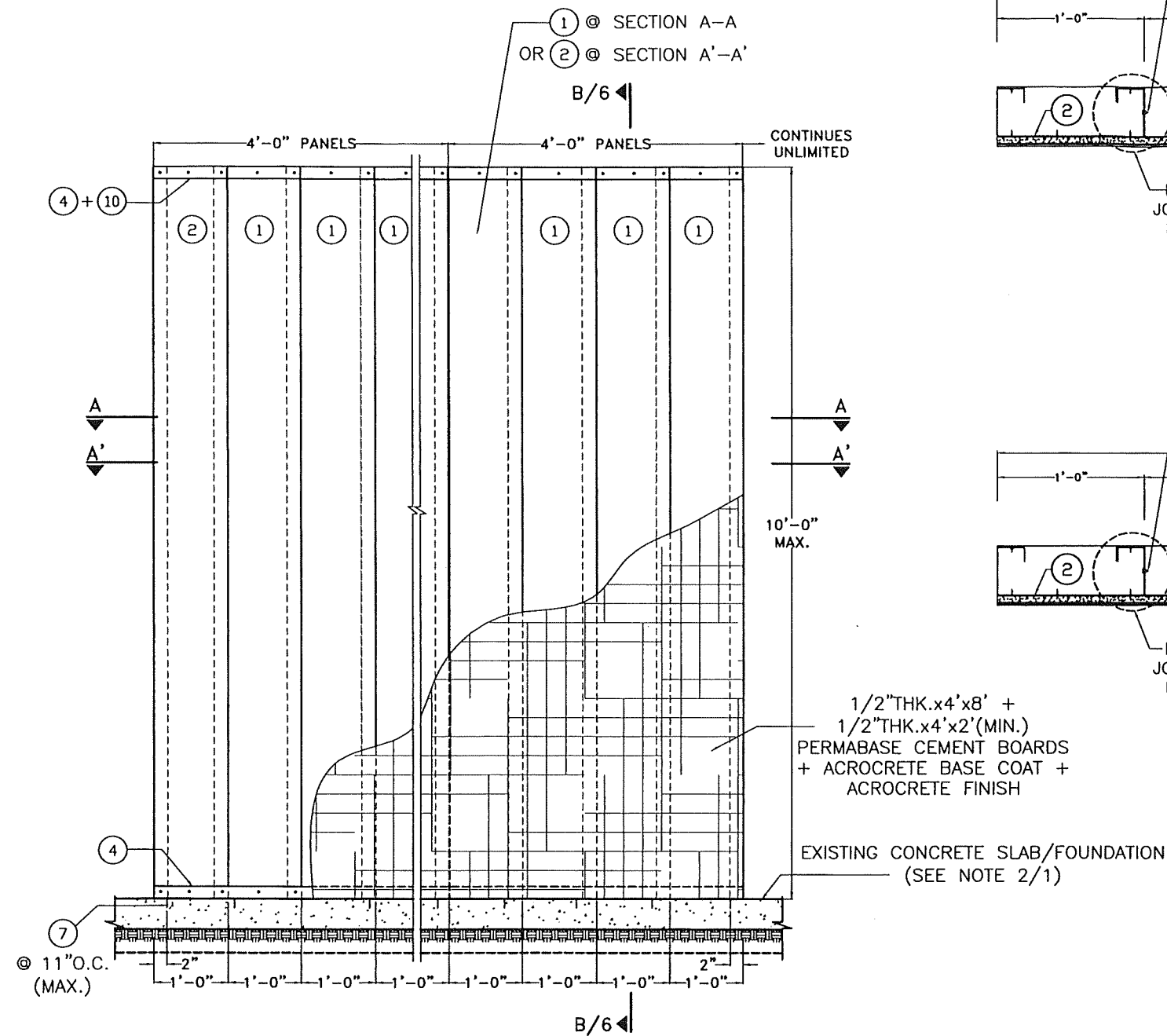
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DATE

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DRAWING No

SHEET 4A OF 16

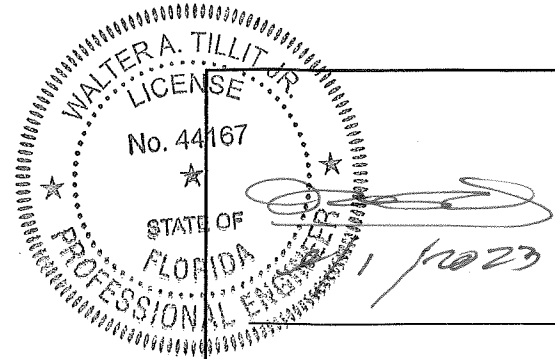
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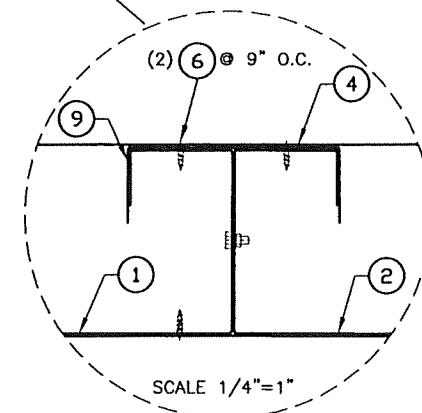
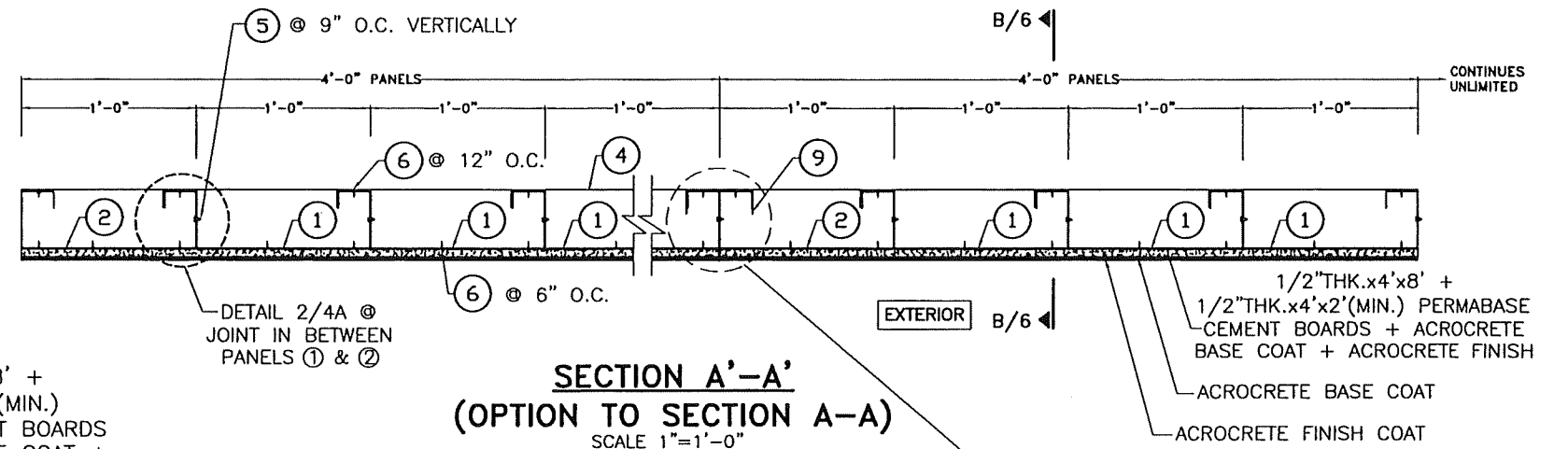
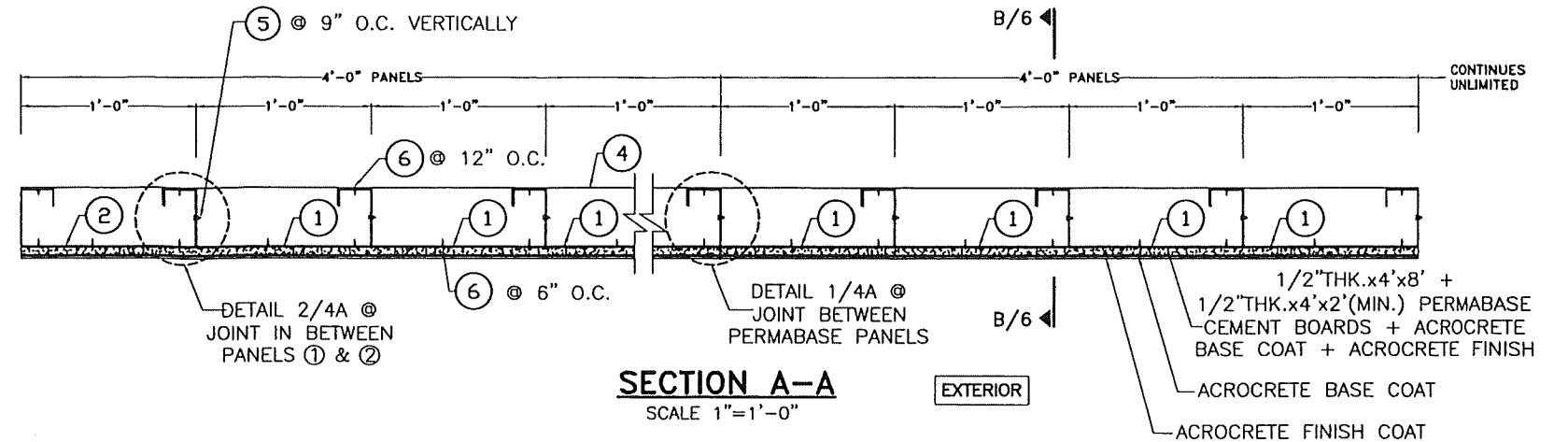
EXTERIOR ELEVATION TYPICAL SOLID PANEL

SCALE 1/2"=1'-0"

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e-mail: tilteco@aol.com
CA-0006719
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QH-305 (EXTERIOR OR PARTITION),
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WALL PANEL SYSTEM

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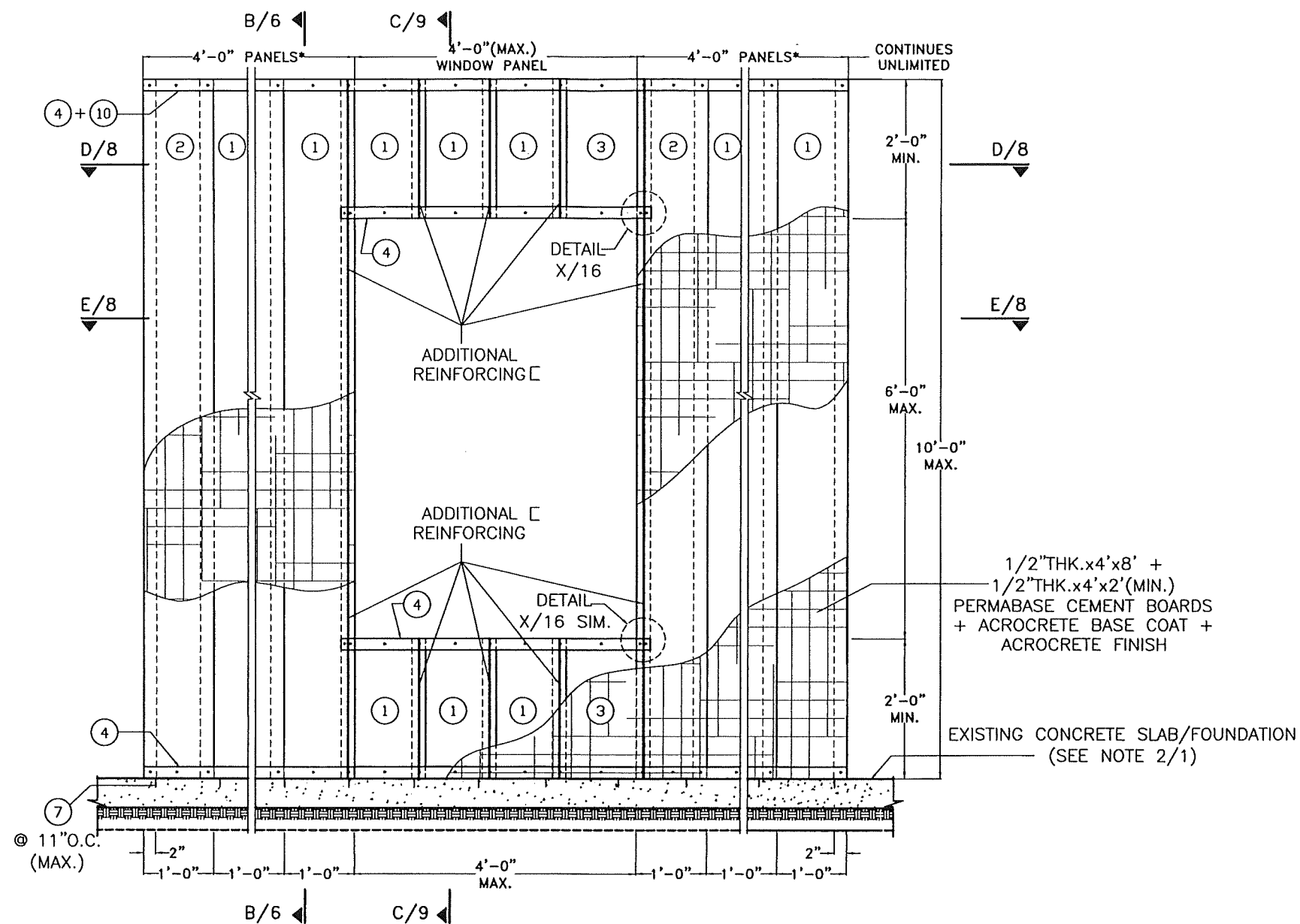
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09/01/2023
DATE

23-197
DRAWING No

SHEET 5 OF 16

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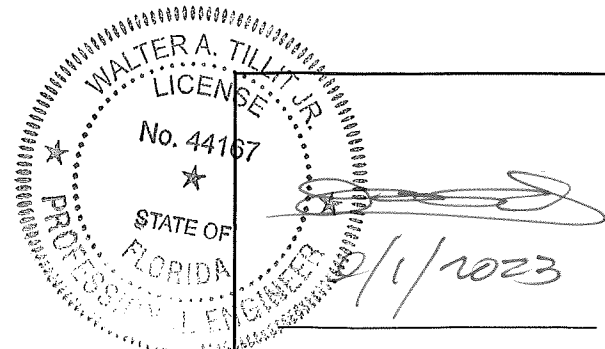


**EXTERIOR ELEVATION TYPICAL PARTIALLY SOLID
PANEL AT WINDOWS**

SCALE 1/2"=1'-0"

* PROVIDE MIN. (1) 4'-0"
WIDE PANEL @ WINDOW JAMB

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e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**QH-305 (EXTERIOR OR PARTITION),
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WALL PANEL SYSTEM**

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PH: (305) 903-8816

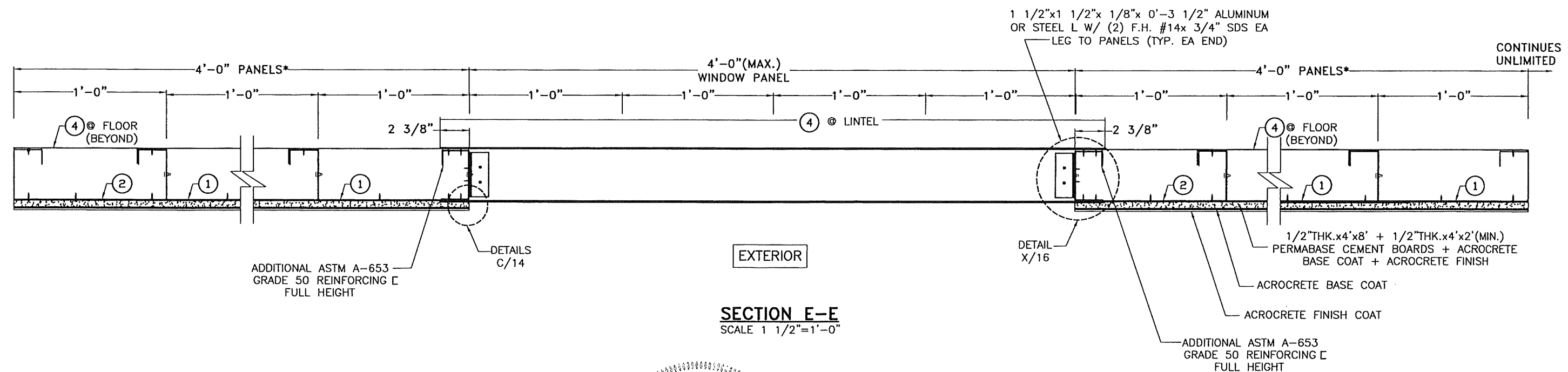
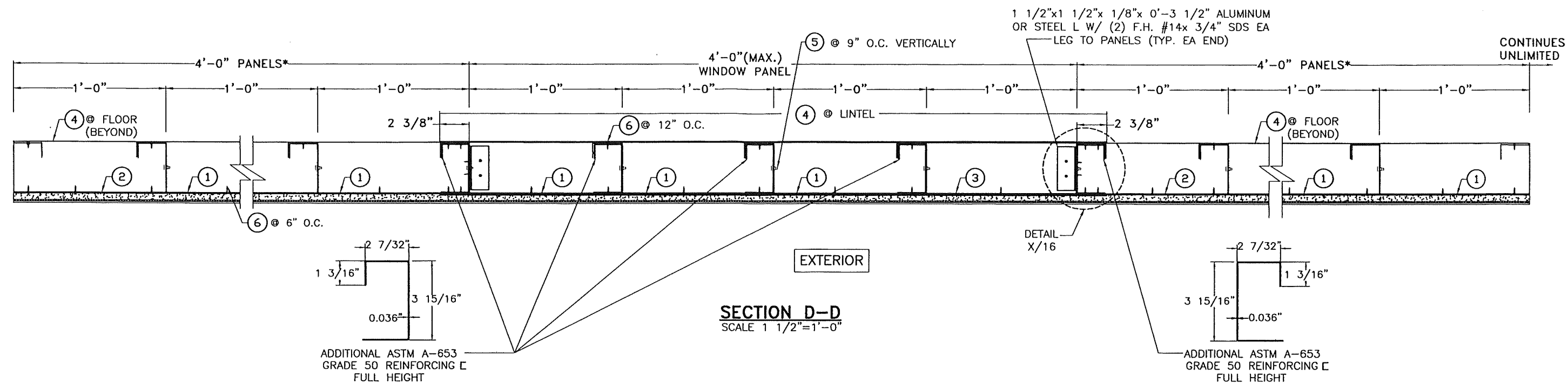
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DATE

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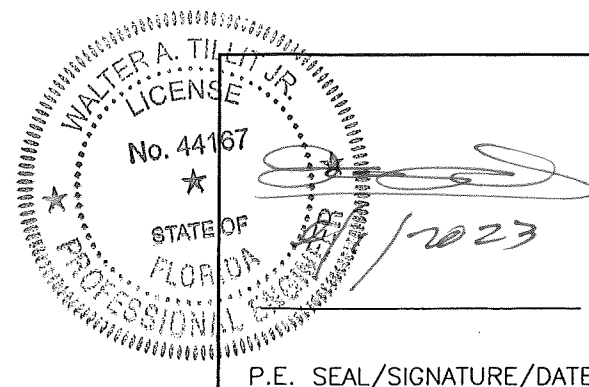
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SHEET 7 OF 16



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* PROVIDE MIN. (1) 4'-0"
WIDE PANEL @ WINDOW JAMB



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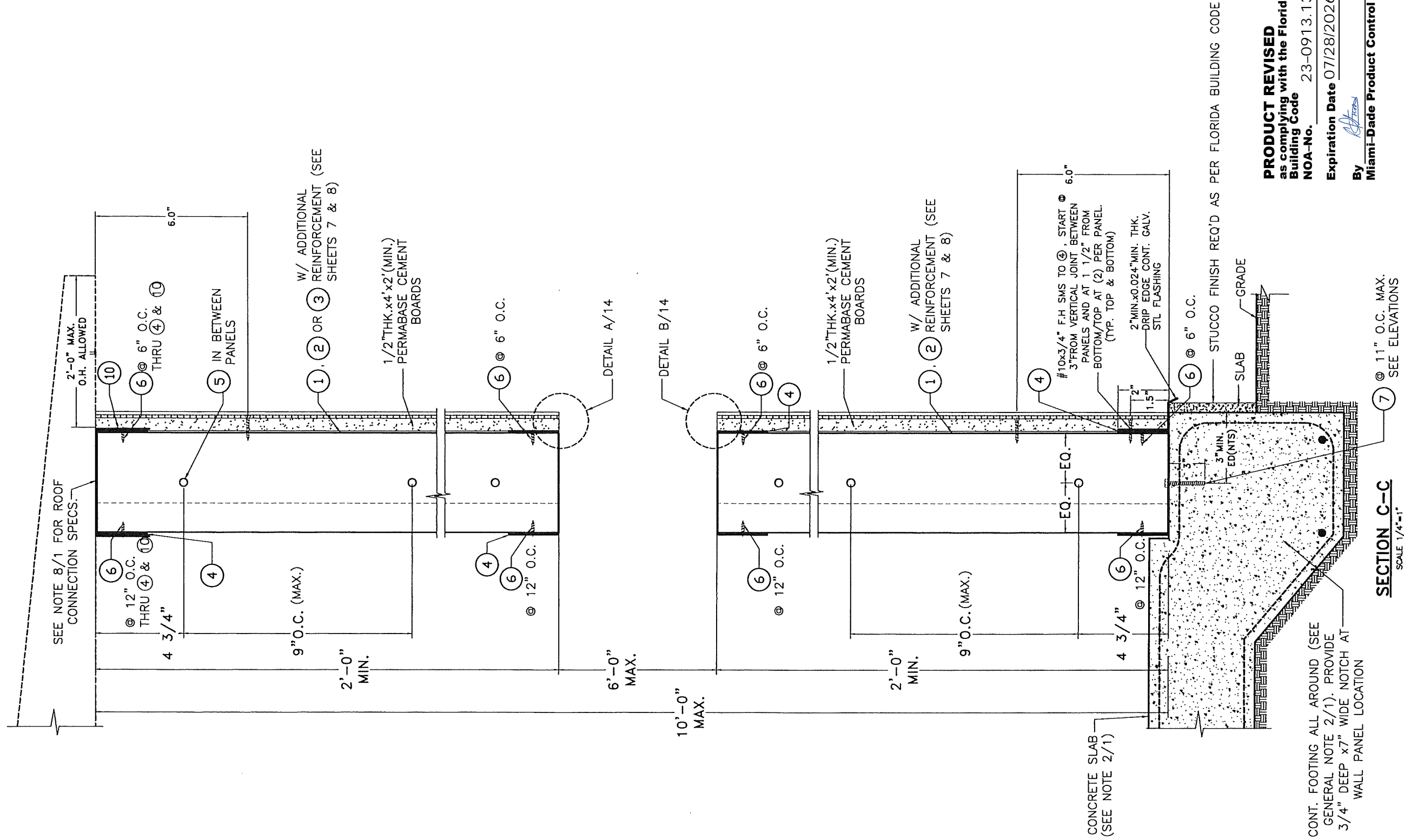
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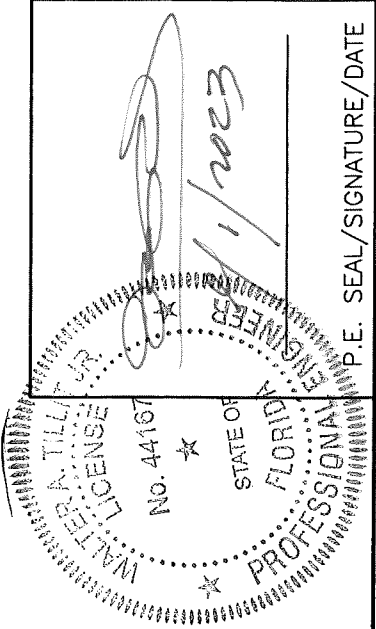
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SHEET 8 OF 16



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SECTION C-C
SCALE 1/4"=1'-1"

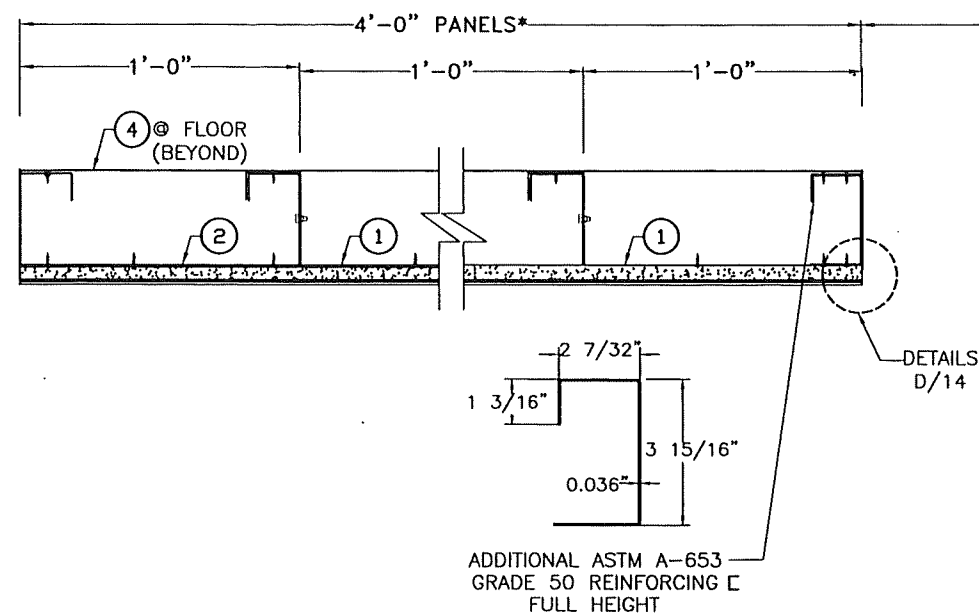


WALTER A. TILLIT JR.
P.E. SEAL/SIGNATURE/DATE
09/01/2023

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6355 N.W. 36th St., Ste. 200, Virginia Gardens, FL 33166
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e-mail: tilteco@tilteco.com
CA-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)				DRAWN BY Y.M.	
QH-305 (EXTERIOR OR PARTITION), & QH-610 (PARTITION ONLY) WALL PANEL SYSTEM				09/01/2023 DATE	
QUICK HOUSE U.S.A., LLC. 117 NE 1ST AVENUE, SUITE 9112 MIAMI, FL. 33132 PH: (305) 903-8816				23-197 DRAWING NO	
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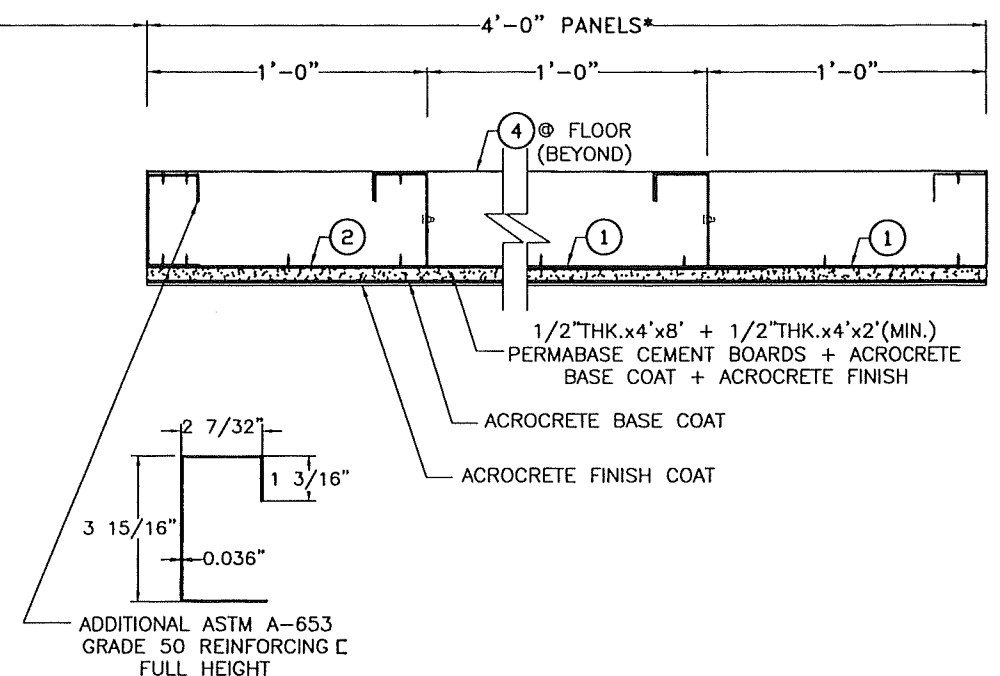
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 10 OF 16
1	OLD 21-041	9/1/23	3			
2			4			



4'-0" (MAX.)

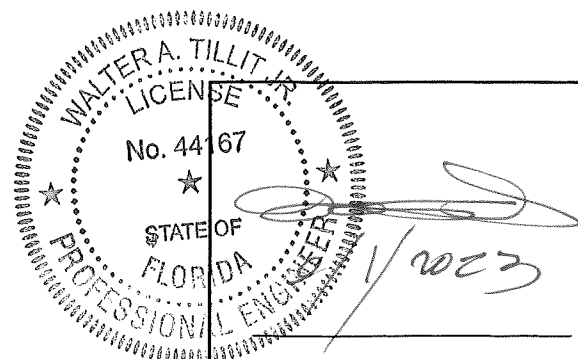
EXTERIOR

SECTION H-H
SCALE 1 1/2"=1'-0"



* PROVIDE MIN. (1) 4'-0" WIDE PANEL @ DOOR JAMB

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e-mail: tiltco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
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**QH-305 (EXTERIOR OR PARTITION),
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WALL PANEL SYSTEM**

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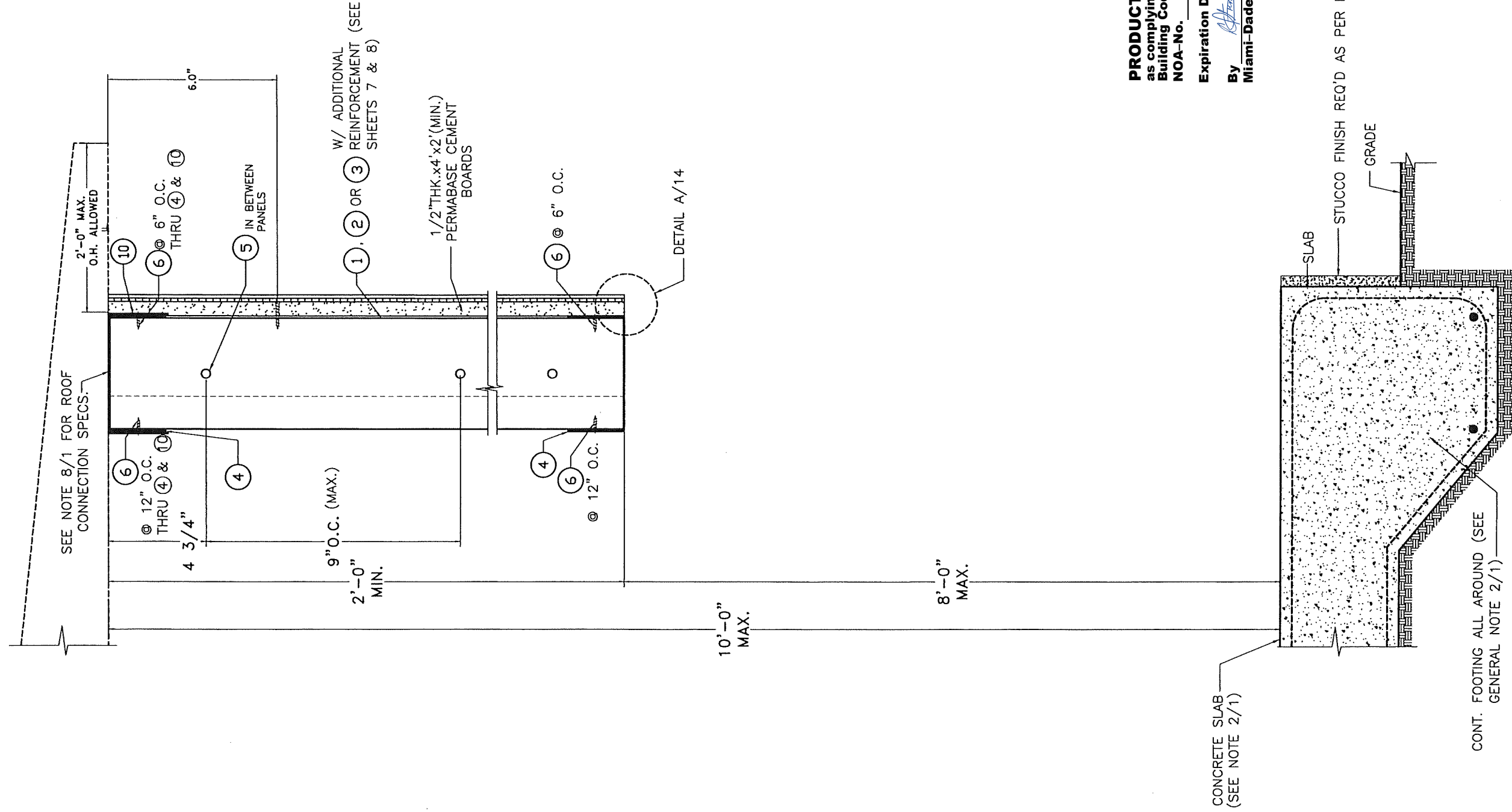
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23-197
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SHEET 11 OF 16



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SECTION F-F
SCALE 1/4"=1'

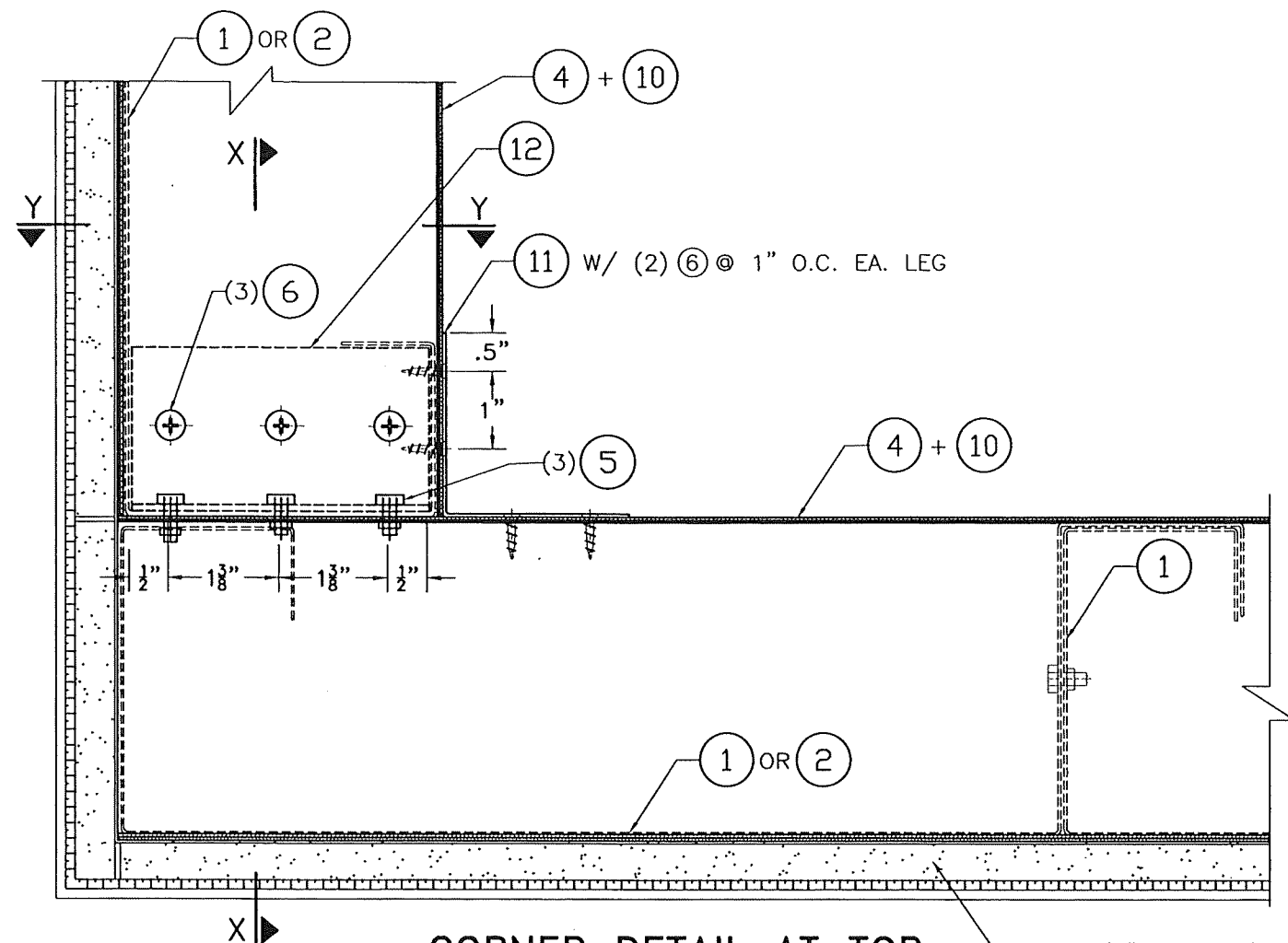
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WALTER A. TILIT, Jr., P.E.
FLORIDA Lic. # 44167

2/1/2023

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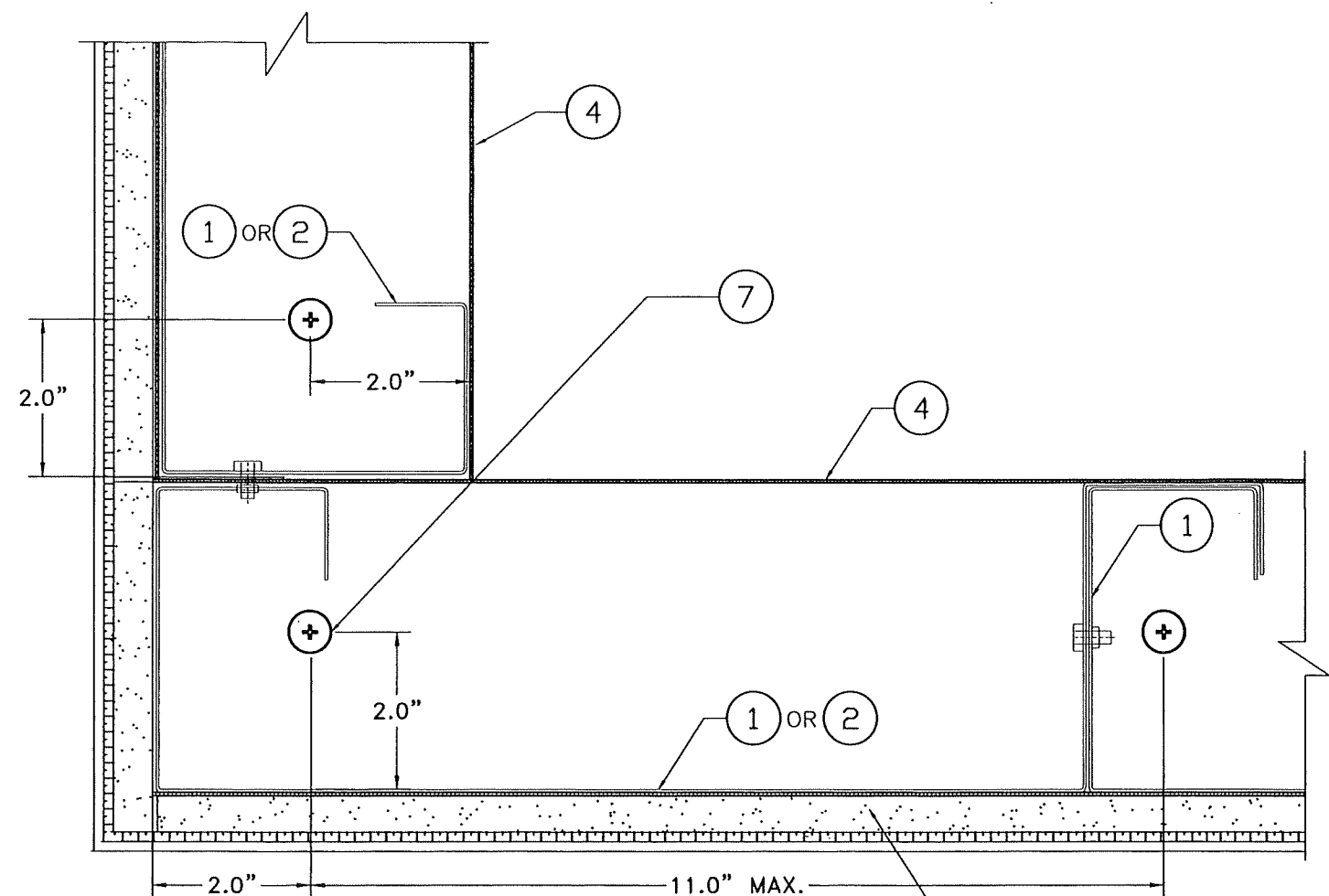
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<div><div>©2023 TILTECO, INC.</div><div><div>TILTECO INC.</div><div>TILIT TESTING & ENGINEERING COMPANY</div><div>6355 N.W. 39th St., Ste. 305, VIRGINIA GARDENS, FL 33166</div><div>Phone: (305)971-1530 Fax: (305)971-1531</div><div>e-mail: tilteco@aol.com</div></div></div>				QH-305 (EXTERIOR OR PARTITION), & QH-610 (PARTITION ONLY) WALL PANEL SYSTEM	
				DATE 08/01/2023	
<div><div>QUICK HOUSE U.S.A., LLC.</div><div>117 NE 1ST AVENUE, SUITE 9112</div><div>MIAMI, FL. 33132</div><div>PH: (305) 903-8816</div></div>				DATE 23-197	
				DRAWING No SHEET 12 OF 16	
				REV. No	DATE
				1	09/01/23
				2	
				3	
				4	



CORNER DETAIL AT TOP

NTS

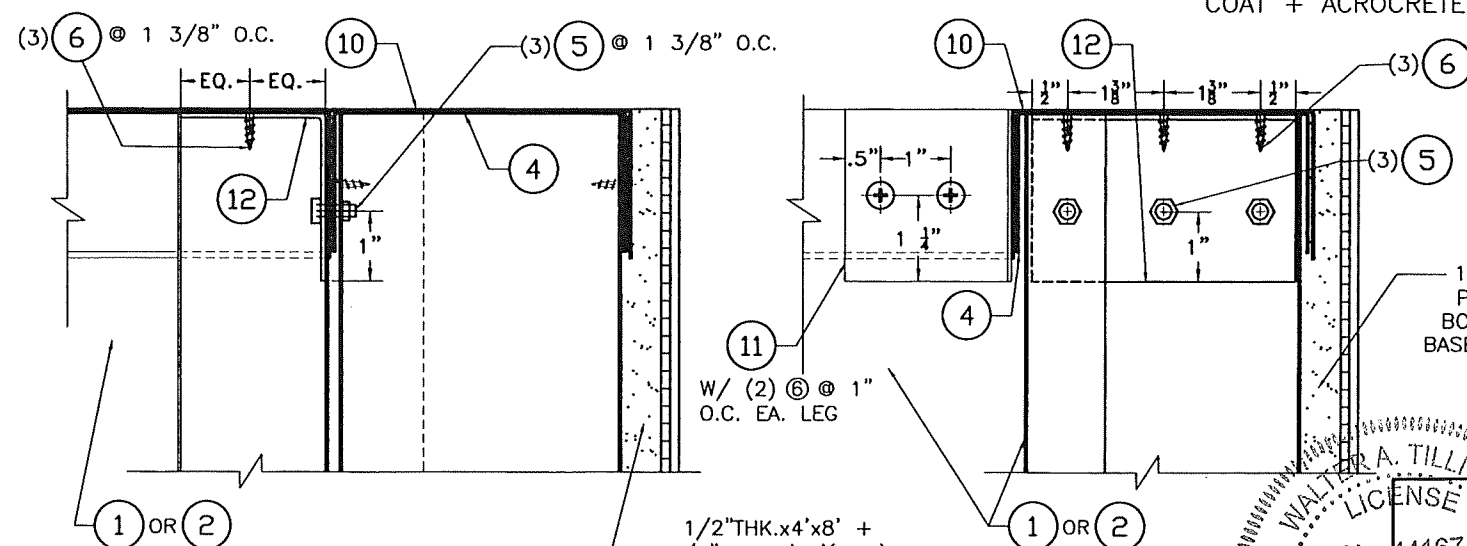
1/2"THK.x4'x8' + 1/2"THK.x4'x2'(MIN.) PERMABASE CEMENT BOARDS + ACROCRETE BASE COAT + ACROCRETE FINISH



CORNER DETAIL AT BOTTOM

NTS

1/2"THK.x4'x8'(MAX.) + 1/2"THK.x4'x2'(MIN.) PERMABASE CEMENT BOARDS + ACROCRETE BASE COAT + ACROCRETE FINISH



SECTION X-X

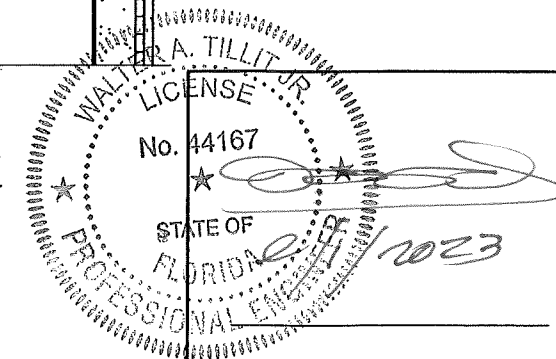
SCALE 3/8"=1"

SECTION Y-Y

SCALE 3/8"=1"

1/2"THK.x4'x8' + 1/2"THK.x4'x2'(MIN.) PERMABASE CEMENT BOARDS + ACROCRETE BASE COAT + ACROCRETE FINISH

1/2"THK.x4'x8' + 1/2"THK.x4'x2'(MIN.) PERMABASE CEMENT BOARDS + ACROCRETE BASE COAT + ACROCRETE FINISH



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PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0913.13
Expiration Date 07/28/2026
By *[Signature]*
Miami-Dade Product Control

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
8355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33188
Phone : (305)871-1530 • Fax : (305)871-1531
e-mail: tiltco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

QH-305 (EXTERIOR OR PARTITION),
& QH-610 (PARTITION ONLY)
WALL PANEL SYSTEM

QUICK HOUSE U.S.A., LLC.
117 NE 1ST AVENUE, SUITE 9112
MIAMI, FL. 33132
PH: (305) 903-8816

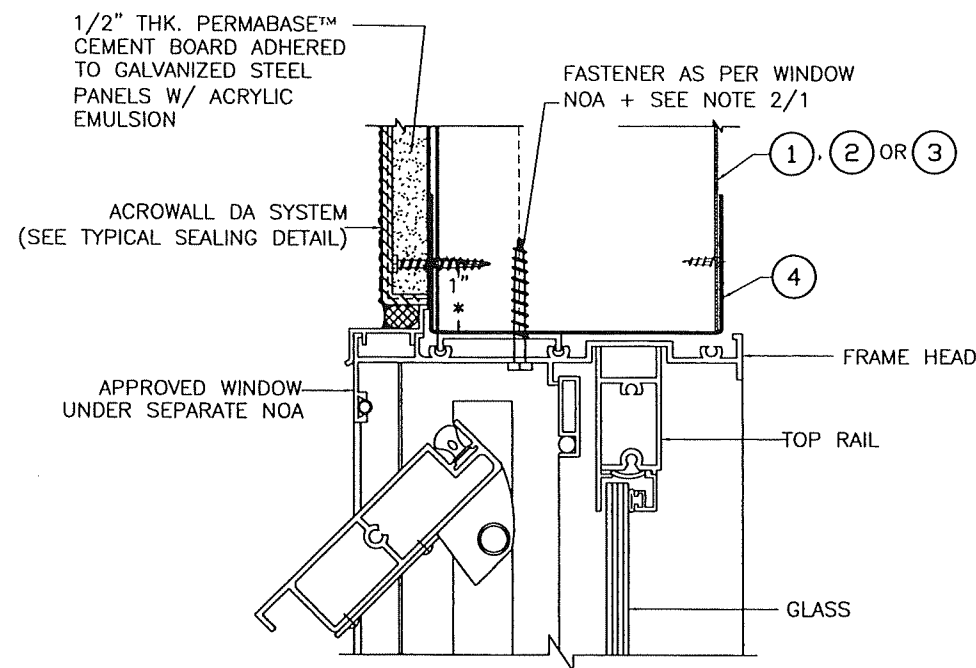
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Y.M.

09/01/2023
DATE

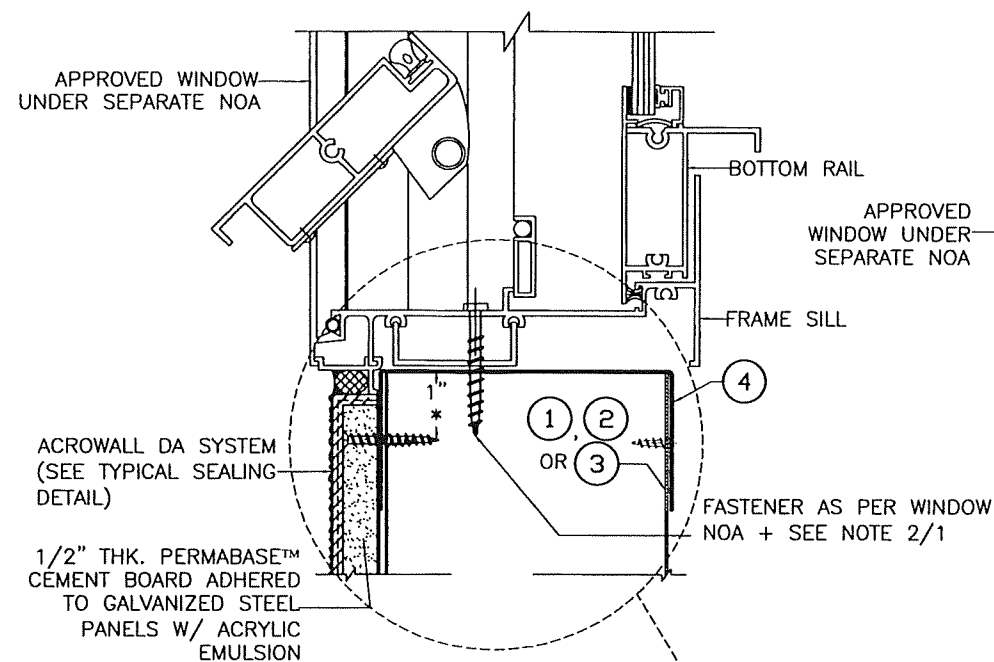
23-197
DRAWING No

SHEET 13 OF 16

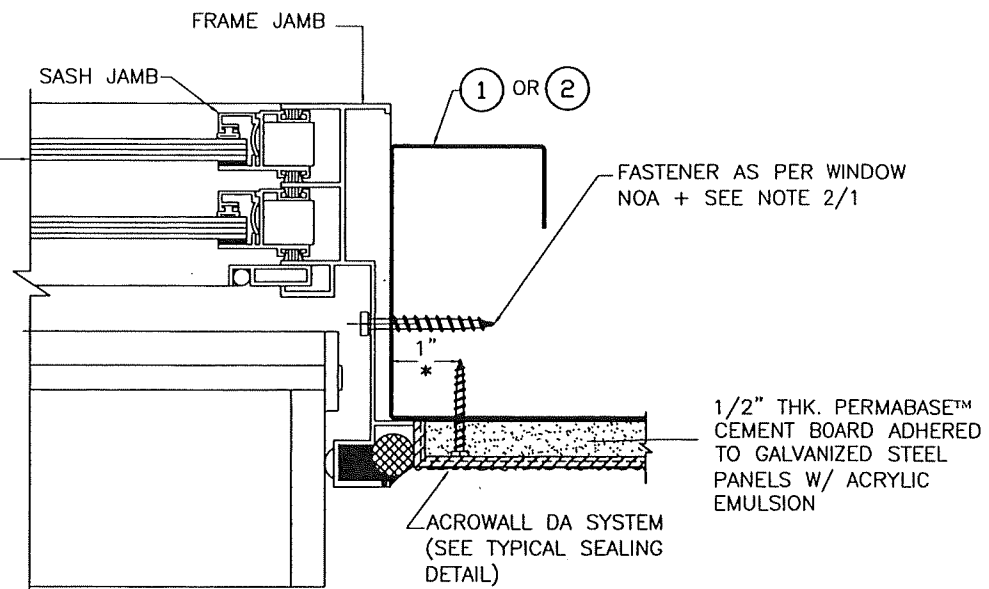
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 21-041	9/1/23	3		
2			4		



DETAIL A: WINDOW HEAD CONNECTION TO PANEL



DETAIL B: WINDOW SILL CONNECTION TO PANEL

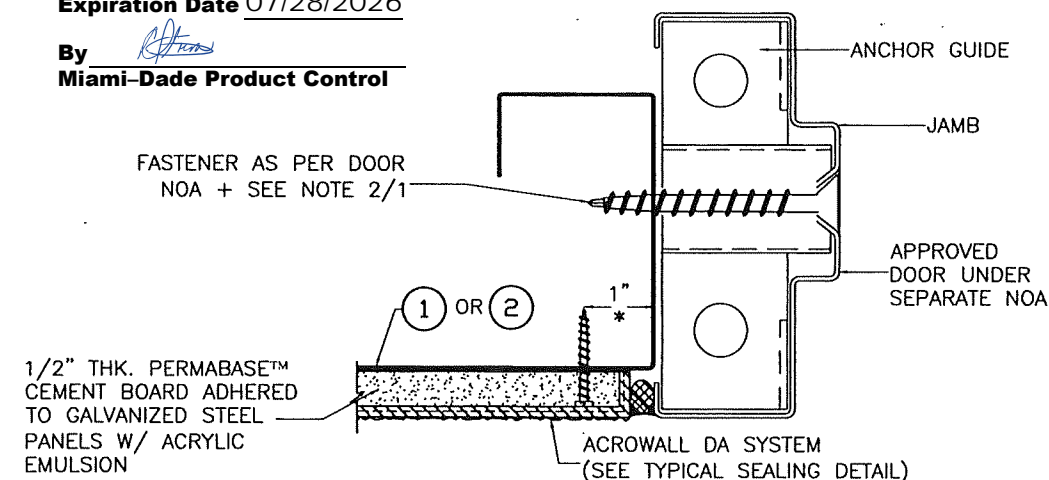


DETAIL C: WINDOW JAMB CONNECTION TO PANEL

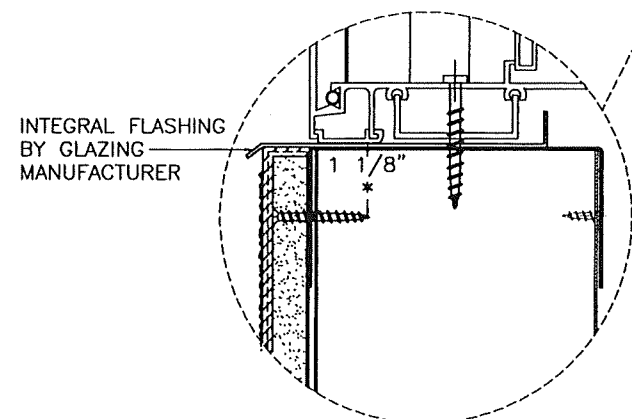
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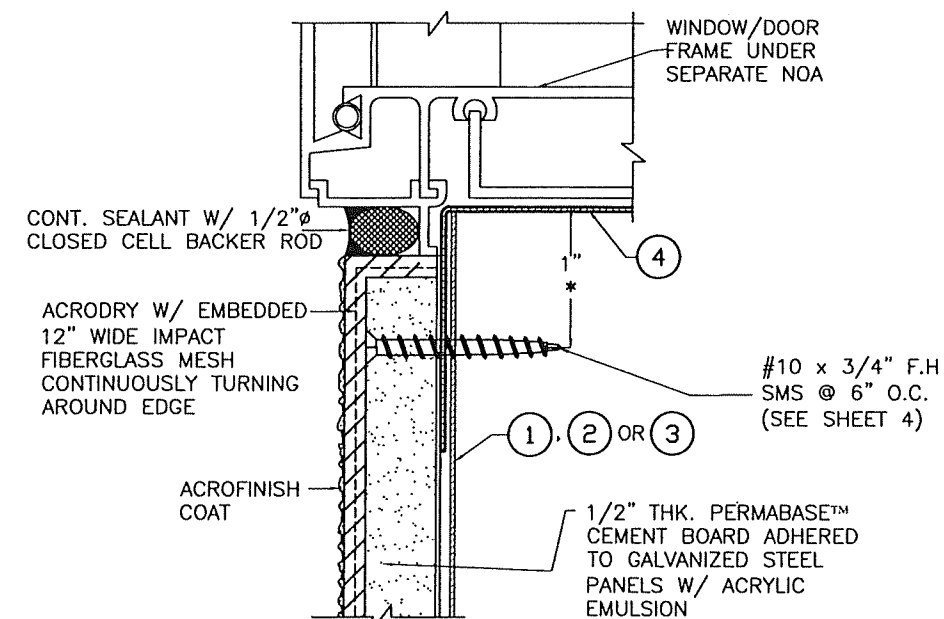
By *R. Tillit*
Miami-Dade Product Control



DETAIL D: DOOR JAMB CONNECTION TO PANEL



**OPTION TO DETAIL B:
WINDOW SILL CONNECTION TO PANEL**



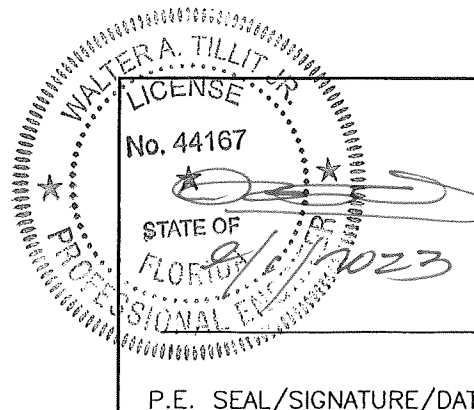
TYPICAL SEALING DETAIL

* #10x3/4" FH SMS USED TO CONNECT (PERMABASE BOARDS) TO PANELS ①, ②, ③ OR TRACK ④ ADJACENT TO WINDOW'S HEADER AND SILL AS WELL AS AT DOOR OR WINDOW JAMB SHALL BE DRIVEN 1" FROM EDGE OF TRACK A AS SHOWN.

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33182
Phone : (305)871-1530 • Fax : (305)871-1531
e-mail: tillitco@aol.com
CA-0008719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**QH-305 (EXTERIOR OR PARTITION),
& QH-610 (PARTITION ONLY)
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117 NE 1ST AVENUE, SUITE 9112
MIAMI, FL. 33132
PH: (305) 903-8816

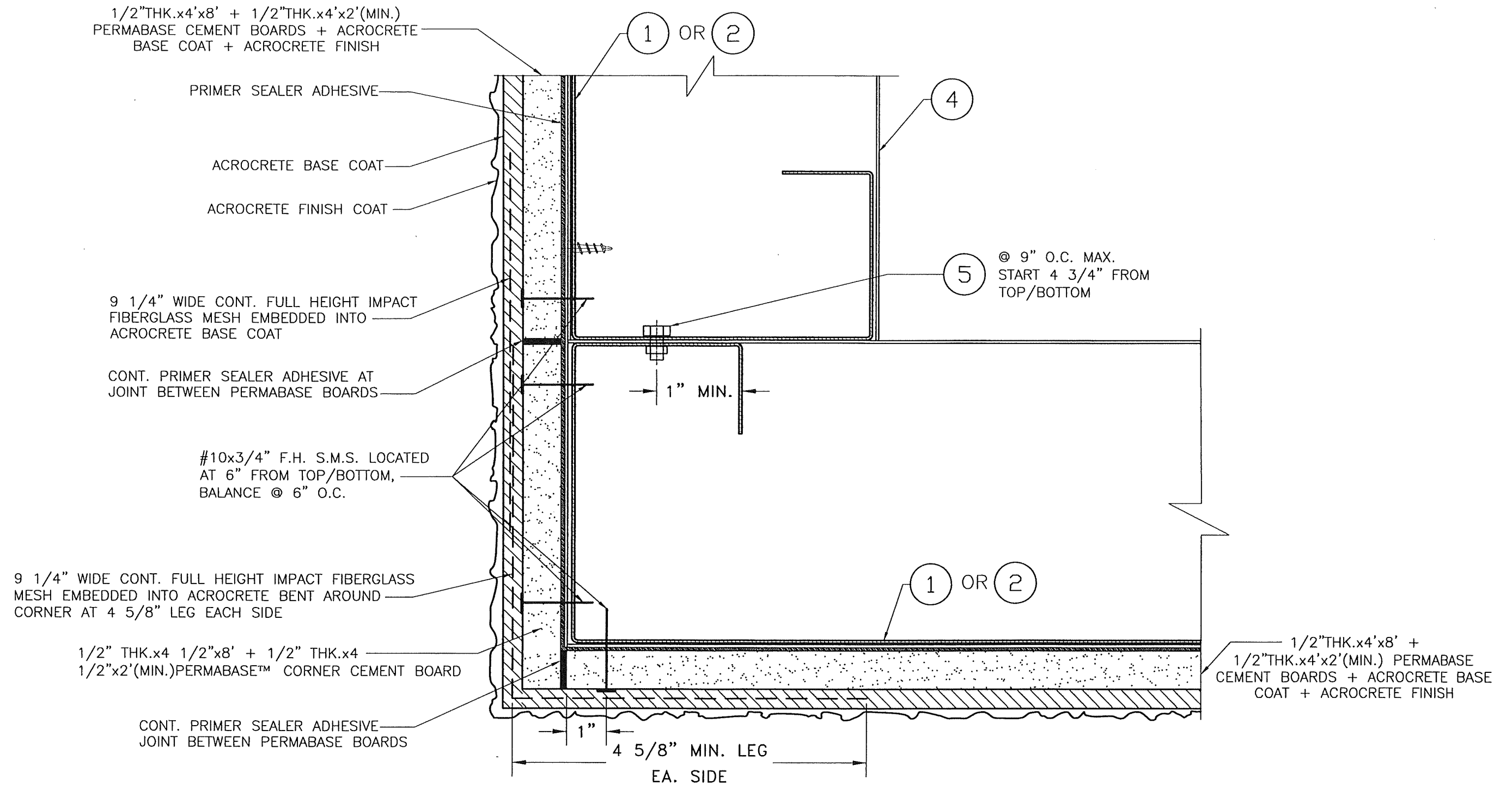
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Y.M.

09/01/2023
DATE

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1	OLD 21-041	9/1/23	3		
2			4		

SHEET 14 OF 16



DETAIL: TYPICAL SEALING AT CORNER BETWEEN PERMABASE PANELS

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WALTER A. TILLIT JR.
 LICENSE
 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
[Signature]
 9/15/2023

P.E. SEAL/SIGNATURE/DATE

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 TILLIT TESTING & ENGINEERING COMPANY
 8355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33168
 Phone : (305)871-1530 • Fax : (305)871-1531
 e-mail: tiltco@tiltco.com
 CA-0006719
 WALTER A. TILLIT Jr. P.E.
 FLORIDA Lic. # 44167

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 117 NE 1ST AVENUE, SUITE 9112
 MIAMI, FL. 33132
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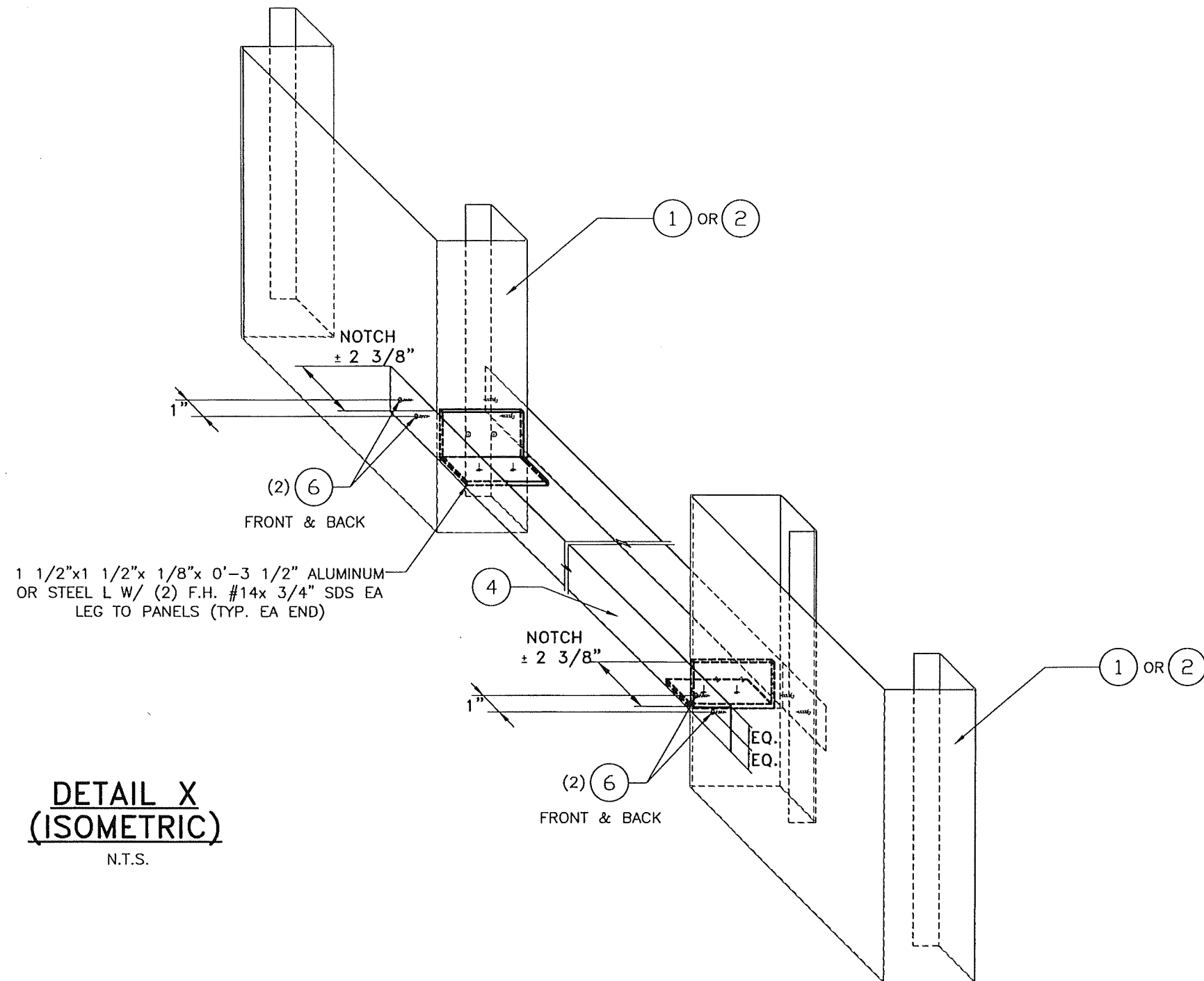
DRAWN BY
 Y.M.

09/01/2023
 DATE

23-197
 DRAWING No

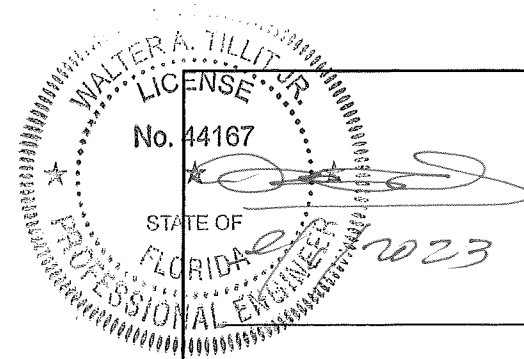
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2			4		

SHEET 15 OF 16



**DETAIL X
(ISOMETRIC)**
N.T.S.

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8355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33168
Phone : (305)971-1530 • Fax : (305)971-1531
e-mail: tiltco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

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2			4		

SHEET 16 OF 16