

SIMPSON DOOR COMPANY

SERIES 7901 GLAZED AND/OR OPAQUE WOOD DOOR - INSWING & OUTSWING INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN HAS BEEN TESTED & EVALUATED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING AND 2018 RESIDENTIAL CODE AT THE DESIGN PRESSURES STATED HEREIN.
- THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT(S) NO. CCLI-16-003 AND CCLI-16-004 AND ASSOCIATED LABORATORY DRAWINGS.
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE, MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 1X (OPTIONAL) AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED FOR USE WITH THIS DOCUMENT.
- WHEN USED IN AREAS REQUIRING WIND BORNE DEBRIS PROTECTION, THIS PRODUCT COMPLIES WITH OPENING PROTECTION REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING AND 2006 RESIDENTIAL CODE WITH TEXAS SPECIFIC AMENDMENTS. THIS PRODUCT MEETS MISSILE LEVEL "D" AND INCLUDES WIND ZONE 4 AS DEFINED IN ASTM E1996.
- MATERIALS & HARDWARE
 - DOOR FRAME: PINE
 - PANEL CORE MATERIAL: WESTERN HEMLOCK OR DOUGLAS FIR
 - PANEL FACE VENEER: VARIABLE
 - LOCKING HARDWARE:
 - KWIKSET CORP: DEADBOLT LOCK, A 980 SERIES HEAVY DUTY COMMERCIAL GRADE 1 WITH DEADBOLT STRIKE PLATE. PASSAGE (KNOB) LOCK, A 400 SERIES KEYED KNOB GRADE 3 WITH PASSAGE STRIKE PLATE.
 - SCHLAGE: DEADBOLT LOCK, SCHLAGE B60 DEADBOLT WITH DEADBOLT STRIKE PLATE. PASSAGE (KNOB) LOCK, SCHLAGE F SERIES WITH PASSAGE STRIKE PLATE.
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04e1 GLASS CHARTS. SEE SHEET 8 FOR GLAZING DETAILS.
- OPERABILITY DESIGNATIONS STAND FOR THE FOLLOWING (AS APPLICABLE): X: OPERABLE PANEL & O: FIXED PANEL

INSTALLATION NOTES:

- ONE (1) SUBSTRATE INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEET 3. SUBSTRATE INSTALLATION ANCHORS SHALL BE INSTALLATION PER NOTE 2 BELOW AND HINGE INSTALLATION ELEVATION ON SHEET 3.
- HINGE TO DOOR SLAB, JAMB AND SUBSTRATE MOUNTING AS FOLLOWS.
 - USE FOUR (4) EACH 9 X 3/4" PENROD SCREW TO ATTACH EACH HINGE TO DOOR SLAB.
 - USE TWO (2) EACH #10 WOOD SCREWS TO ATTACH EACH HINGE TO JAMB LEAVING TWO OUTER SCREW HOLES OPEN ON EACH HINGE TO BE USED IN SECURING THE DOOR UNIT TO THE SUPPORTING SUBSTRATE.
 - USING TWO OUTER SCREW HOLES, SECURE DOOR UNIT INTO SUPPORTING SUBSTRATE USING APPROPRIATE INSTALLATION ANCHORS FROM INSTALLATION ANCHOR SCHEDULE BELOW.
- ANCHORS ARE TO MATCH TYPE, SIZE, EDGE DISTANCE AND EMBEDMENT OF THOSE SHOWN IN THE INSTALLATION ANCHOR SCHEDULE ON THIS SHEET FOR THE RESPECTIVE SUBSTRATE.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM SIZE IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING).
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS. ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN THE INSTALLATION ANCHOR SCHEDULE ON THIS SHEET.

| TABLE OF CONTENT | |
|------------------|--------------------------------|
| SHEET | DESCRIPTION |
| 1 | GENERAL AND INSTALLATION NOTES |
| 2 | ELEVATIONS |
| 3 | HARDWARE AND ANCHOR LOCATIONS |
| 4 TO 6 | VERTICAL SECTIONS |
| 7 & 8 | HORIZONTAL SECTIONS |
| 8 | PANEL GLAZING & INFILL DETAILS |

| PERFORMANCE RATINGS | | | | |
|-----------------------|------------------------|--|---|--------------------------------|
| DESIGN PRESSURE (psf) | | | | IMPACT RATING |
| CONFIGURATION | PANEL STYLE | WHERE WATER PENETRATION REQUIREMENT EXISTS | WHERE WATER PENETRATION REQUIREMENT DOES NOT EXIST (NOTE 1) | |
| OUTSWING | FULLY GLAZED | +19 / -55 | +/-55 | WIND ZONE 4 MISSILE LEVEL D |
| | OPAQUE & GLAZED/OPAQUE | N/A | +/-55 | |
| INSWING | FULLY GLAZED | N/A | +/-55 | |
| | OPAQUE & GLAZED/OPAQUE | N/A | +/-55 | |

NOTES:

- OVERHANG IN ACCORDANCE WITH REQUIREMENT BELOW CAN BE USED PER CHAPTER 17 OF FBC.
 - Door assemblies installed where the overhang (OH) ratio is equal to or more than 1. The overhang ratio shall be calculated by the following equation.
 - OH ratio = OH Length/OH Height, Where:
 - OH length = The horizontal measure of how far an overhang over a door projects out from door surface.
 - OH height = The vertical measure of the distance from the door sill to the bottom of the overhang over a door.

| INSTALLATION ANCHOR SCHEDULE | | | | | | | |
|------------------------------|-----------|--------|---|---------------------|-------------------------|-------------------|--|
| SUBSTRATE | HEAD TYPE | SIZE | MANUFACTURER AND/OR SPECIFICATION | MIN. EMBEDMENT (IN) | MIN. EDGE DISTANCE (IN) | MIN. SPACING (IN) | CAPACITIES BASED ON |
| CONCRETE | FLAT HEAD | 3/16" | ITW TAPCON | 1 1/2 | 1 1/4 | 3 | MINIMUM COMPRESSIVE STRENGTH OF 2500 psi. |
| | | | Elco Ultracon | 1 3/8 | 1 | 3 | |
| MASONRY (BLOCK/CMU) | FLAT HEAD | 3/16" | ITW TAPCON | 1 | 2 | 3 | STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT/117 PCF DENSITY (OR GREATER) WITH COMPRESSIVE STRENGTH OF 1900 PSI MIN. |
| | | | Elco Ultracon | 1 1/2 | 2 1/2 | 3 | |
| WOOD (1) | FLAT HEAD | No. 10 | ANSI B18.6.1 (WOOD SCREW) ASME B18.6.4 (TAPPING SCREW) | 1 3/8 | 3/4 | 3/4 | WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42 |

NOTES:
1) FOR WOOD AND TAPPING SCREWS WHERE SPLITTING IS A CONCERN, DRILL 0.112" (No. 34 DRILL SIZE) PILOT HOLE FOR WOOD FRAME INSTALLATION.

| | | | | | |
|----------------------|--|--|--|--|--|
| PROJECT NO. 413-0907 | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

SIMPSON DOOR COMPANY
400 W. SIMPSON AVENUE
McCLEARY, WASHINGTON 98557

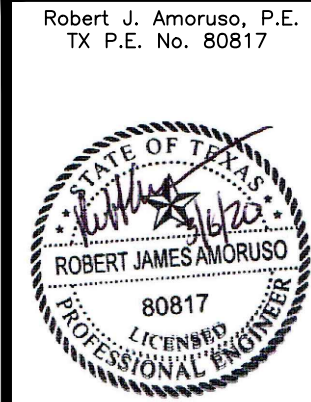
SERIES 7901 GLAZED AND/OR OPAQUE WOOD DOOR - INSWING & OUTSWING
GENERAL AND INSTALLATION NOTES

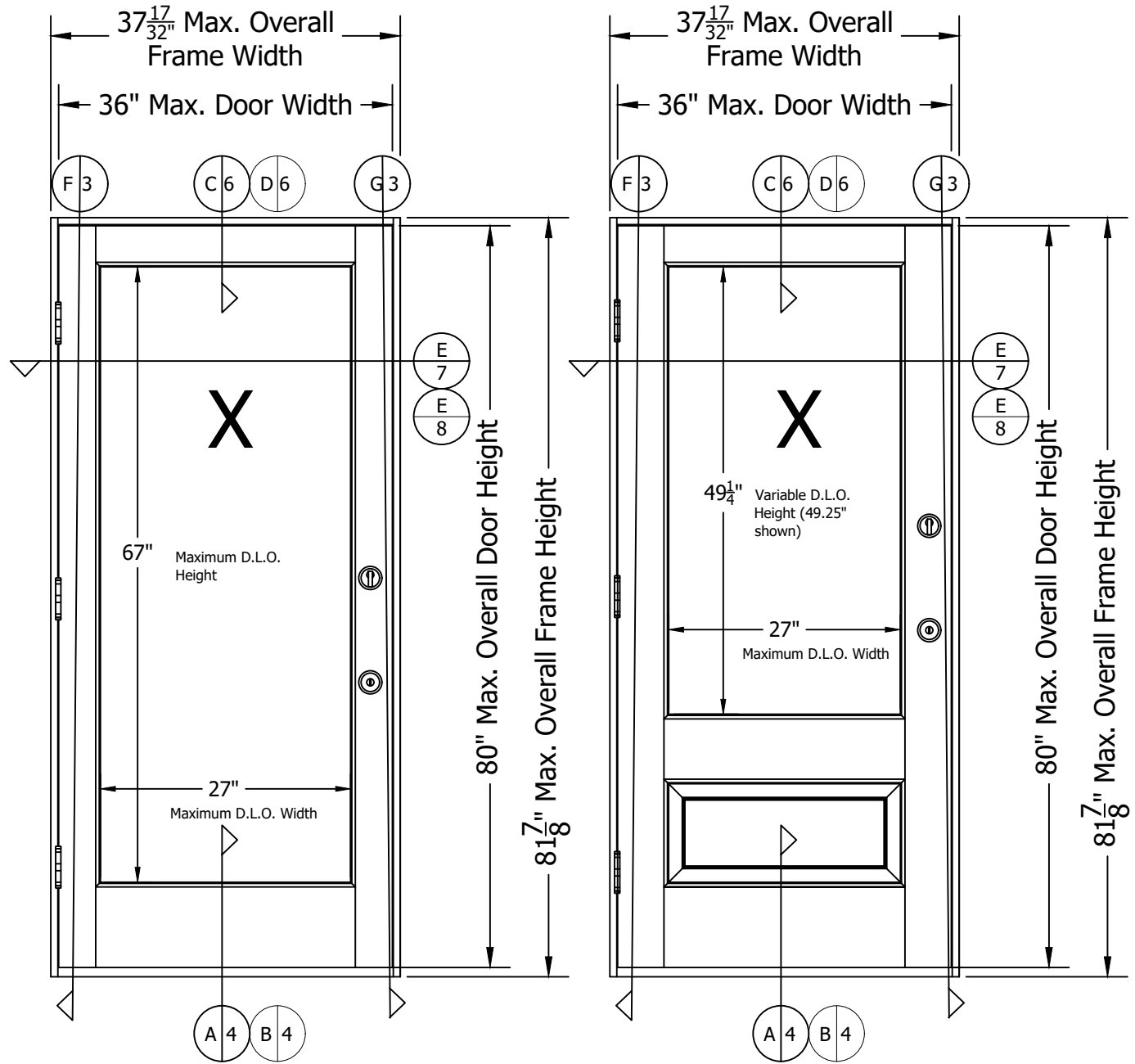
DATE: 7/10/18
DRAWING NO: SIMP2013
SHEET: 1 OF 8

DRAWN BY: RJA
SCALE: N.T.S.
REV: ---

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FL 32756
TX Reg. No. F-13749
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

CUSTOMER: Robert J. Amoroso, P.E.
TX P.E. No. 80817





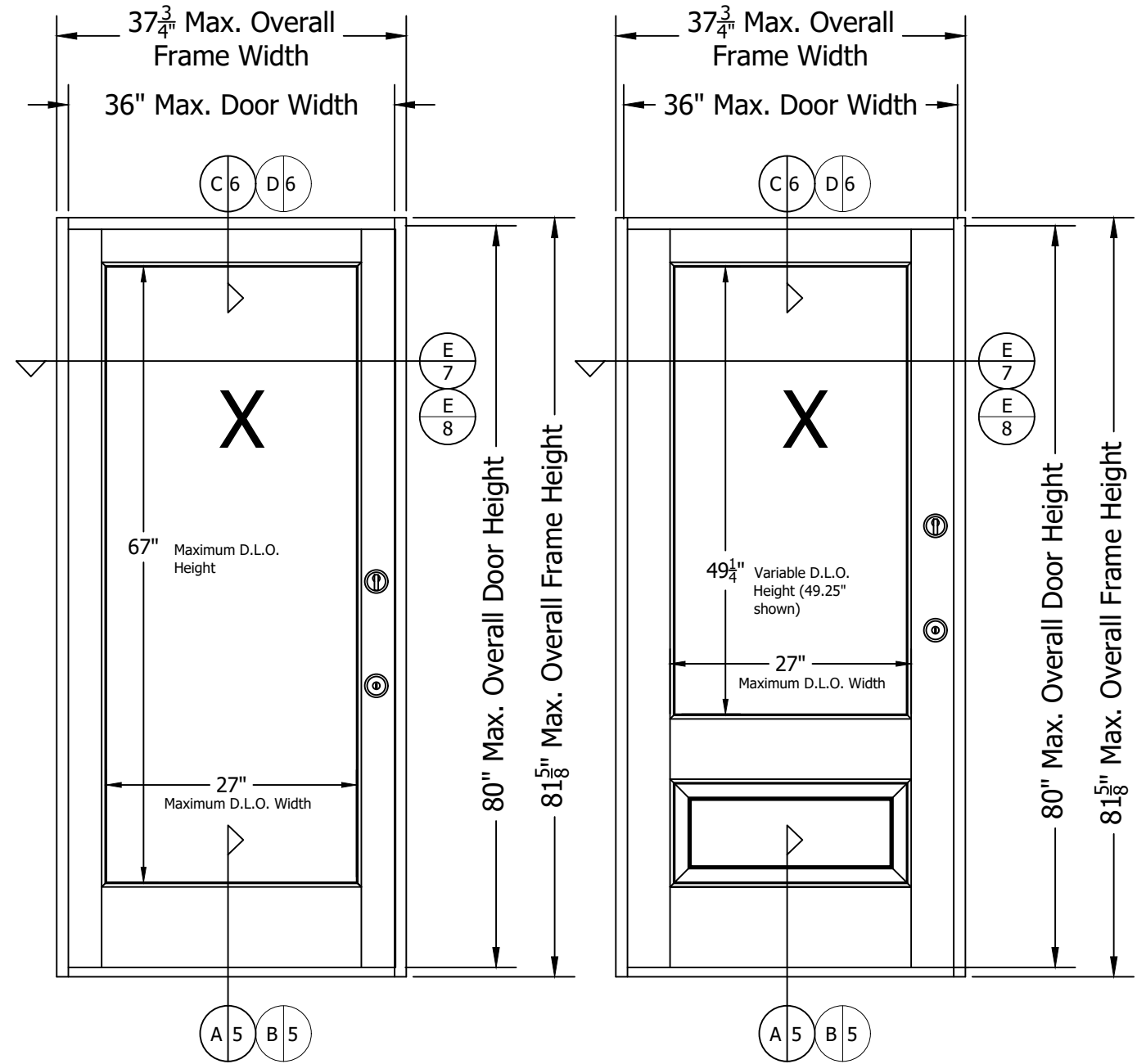
FULLY GLAZED UNIT

GLAZED/OPAQUE UNIT SHOWN

FULLY OPAQUE UNIT APPROVED.
 VARIABLE MID-RAIL LOCATION APPROVED FOR
 GLAZED/OPAQUE AND OPAQUE UNITS.

**INSWING UNIT
 ELEVATIONS**

AS VIEWED FROM INTERIOR



FULLY GLAZED UNIT

GLAZED/OPAQUE UNIT SHOWN

FULLY OPAQUE UNIT APPROVED.
 VARIABLE MID-RAIL LOCATION APPROVED FOR
 GLAZED/OPAQUE AND OPAQUE UNITS.

**OUTSWING UNIT
 ELEVATIONS**

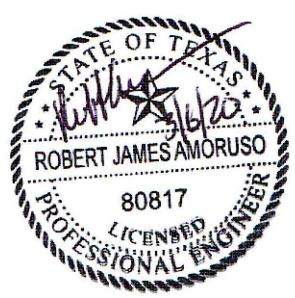
AS VIEWED FROM INTERIOR

PROJECT NO. 413-0907

CUSTOMER: **SIMPSON DOOR COMPANY**
 400 W. SIMPSON AVENUE
 MCCLEARY, WASHINGTON 98557
 SERIES 7901 GLAZED AND/OR OPAQUE WOOD DOOR - INSWING & OUTSWING
 ELEVATIONS

PREPARED BY: **PTC**
 PTC PRODUCT DESIGN GROUP, LLC
 PO BOX 5927
 LONGWOOD, FLORIDA 32752
 TX Reg. No. F-13740
 Email: info@ptc-corp.com
 DRAWN BY: RJA
 SCALE: N.T.S.
 DATE: 7/10/18
 DRAWING NO.: SIMP2013
 REV: ---
 SHEET: 2 OF 8

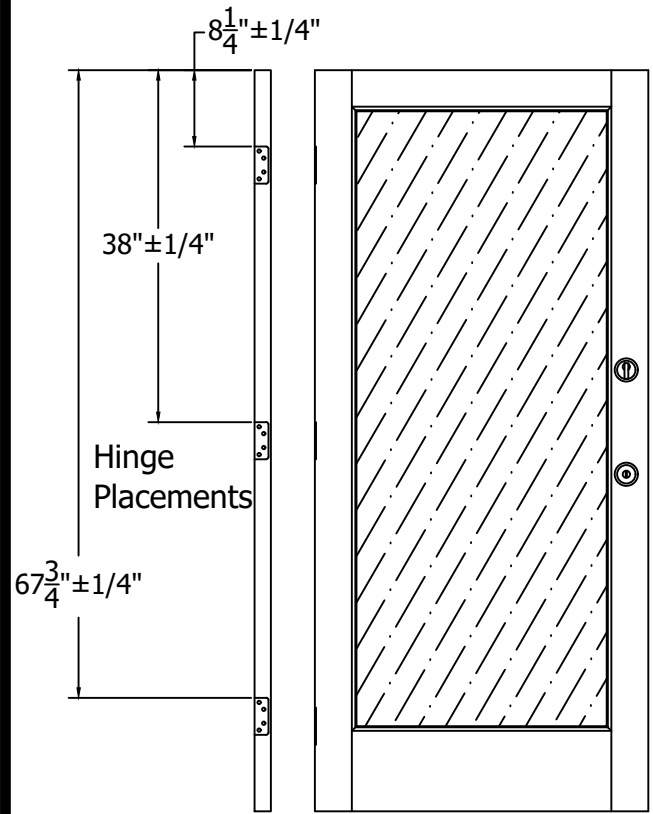
Robert J. Amoruso, P.E.
 TX P.E. No. 80817



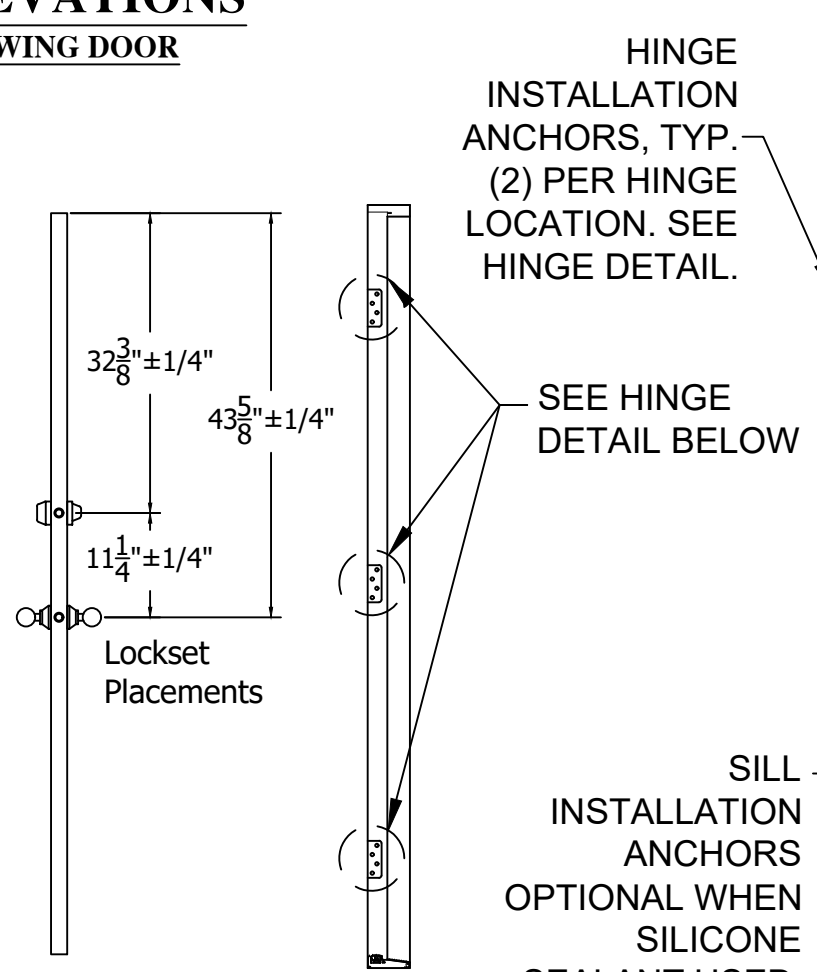
| REV | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
| | | | |

INSTALLATION ANCHOR LOCATION ELEVATIONS

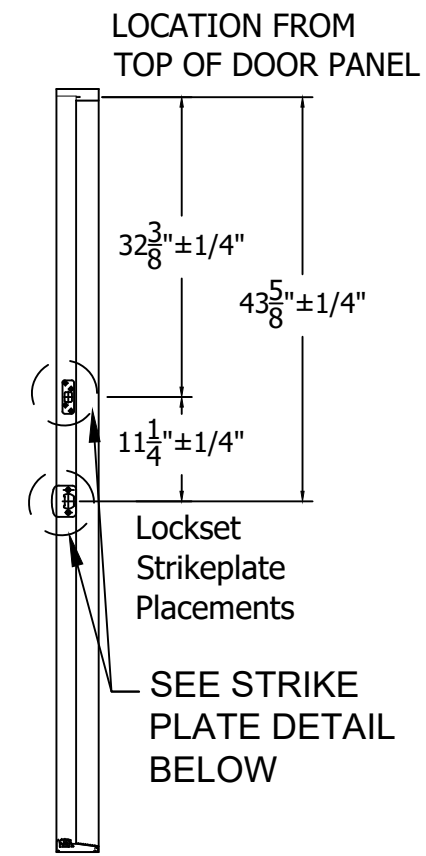
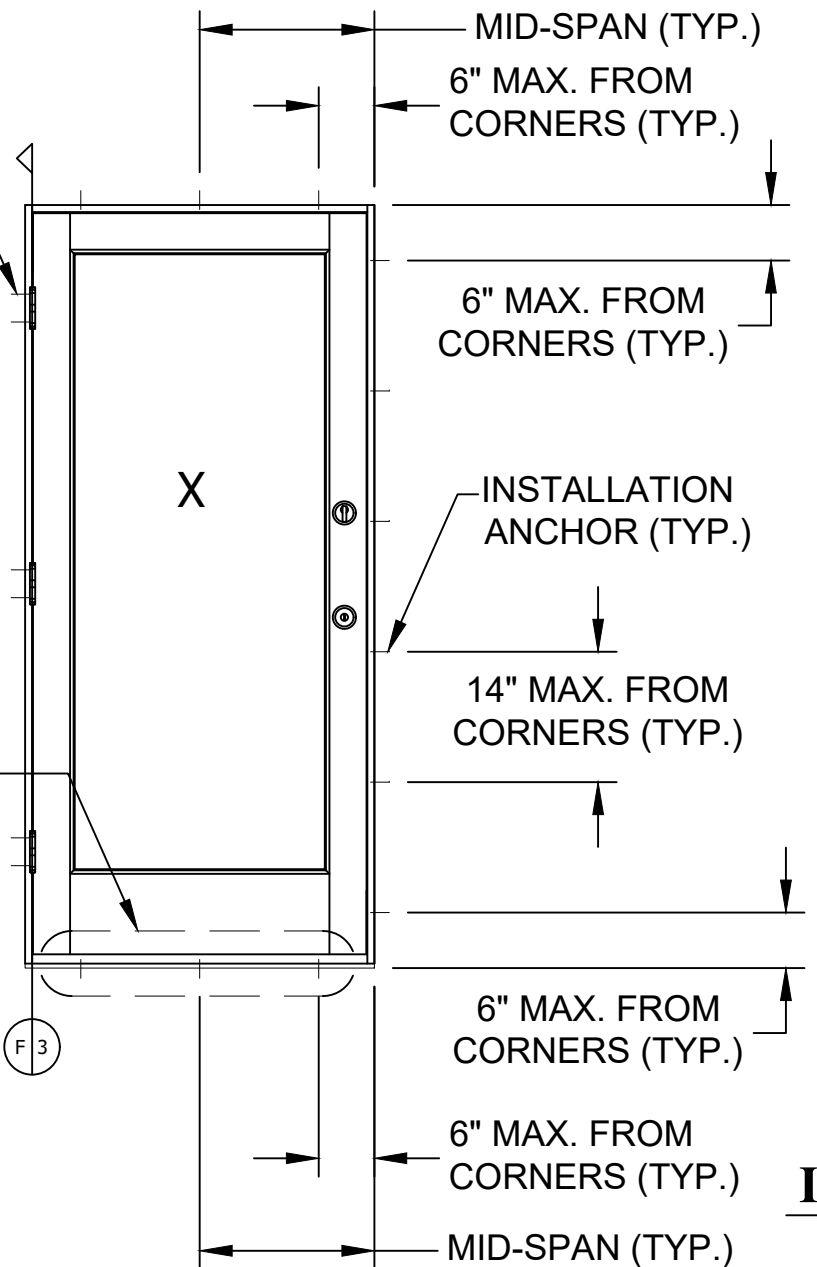
INSWING AND OUTSWING DOOR



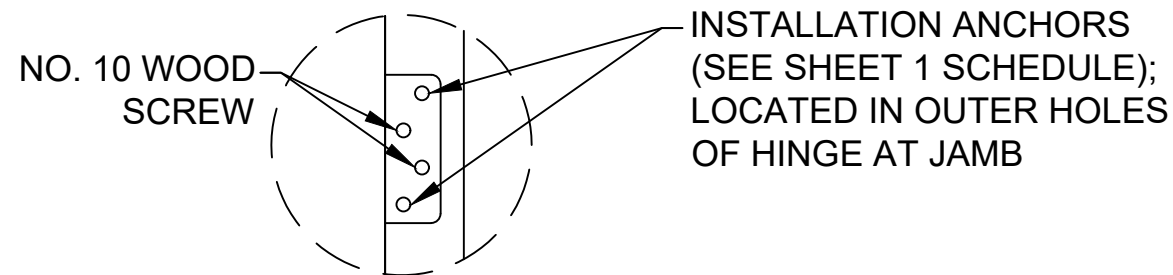
**HARDWARE
LOCATION
ON PANEL**
INSWING (SHOWN) AND
OUTSWING DOOR



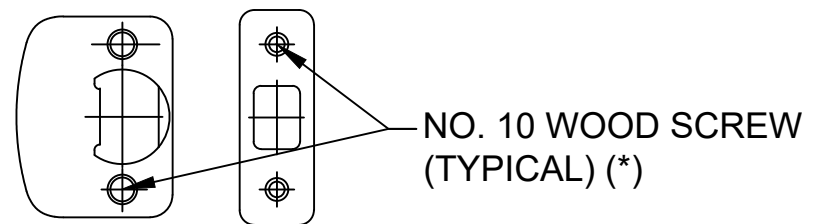
**SECTION F/3
DOOR HINGE
INSTALLATION ANCHOR
LOCATIONS**
INSWING (SHOWN) AND OUTSWING DOOR



**SECTION G/3
DOOR LOCK
INSTALLATION ANCHOR
LOCATIONS**
INSWING (SHOWN) AND OUTSWING DOOR



**HINGE INSTALLATION
ANCHOR DETAIL**



STRIKE PLATE INSTALLATION ANCHOR DETAIL
(*) OR EQUIVALENT BASED ON OPENING SUBSTRATE

PROJECT NO. 413-0907

| REV | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
| | | | |

SIMPSON DOOR COMPANY
400 W. SIMPSON AVENUE
MCCLEARY, WASHINGTON 98557

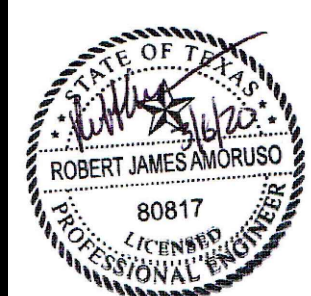
CUSTOMER:
SERIES 7901 GLAZED AND/OR OPAQUE WOOD DOOR - INSWING & OUTSWING
HARDWARE AND ANCHOR LOCATIONS

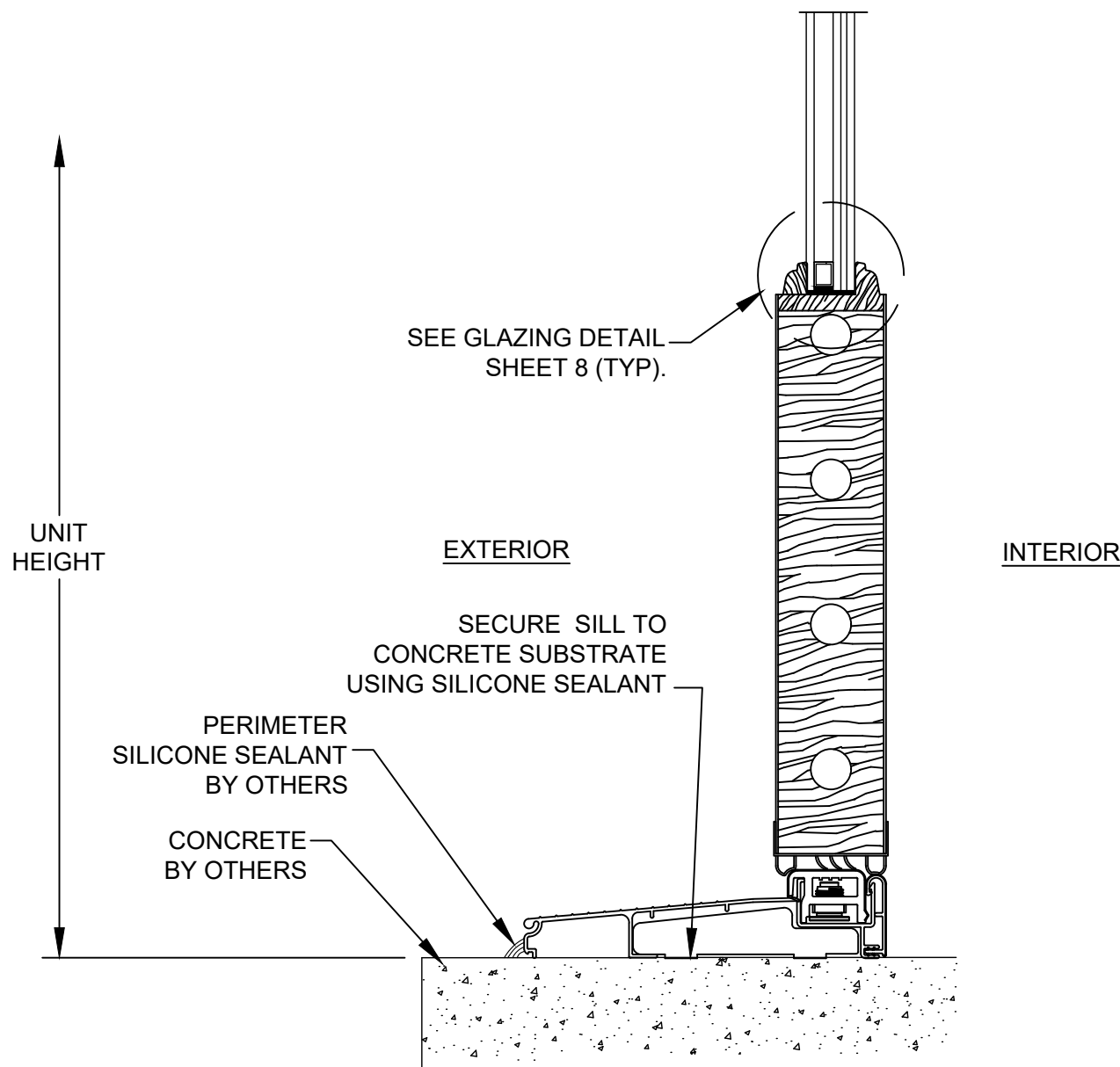
PREPARED BY: RJA
SCALE: N.T.S.
REV: ---

DRAWN BY: RJA
DATE: 7/10/18
DRAWING NO.: SIMP2013
SHEET: 3 OF 8

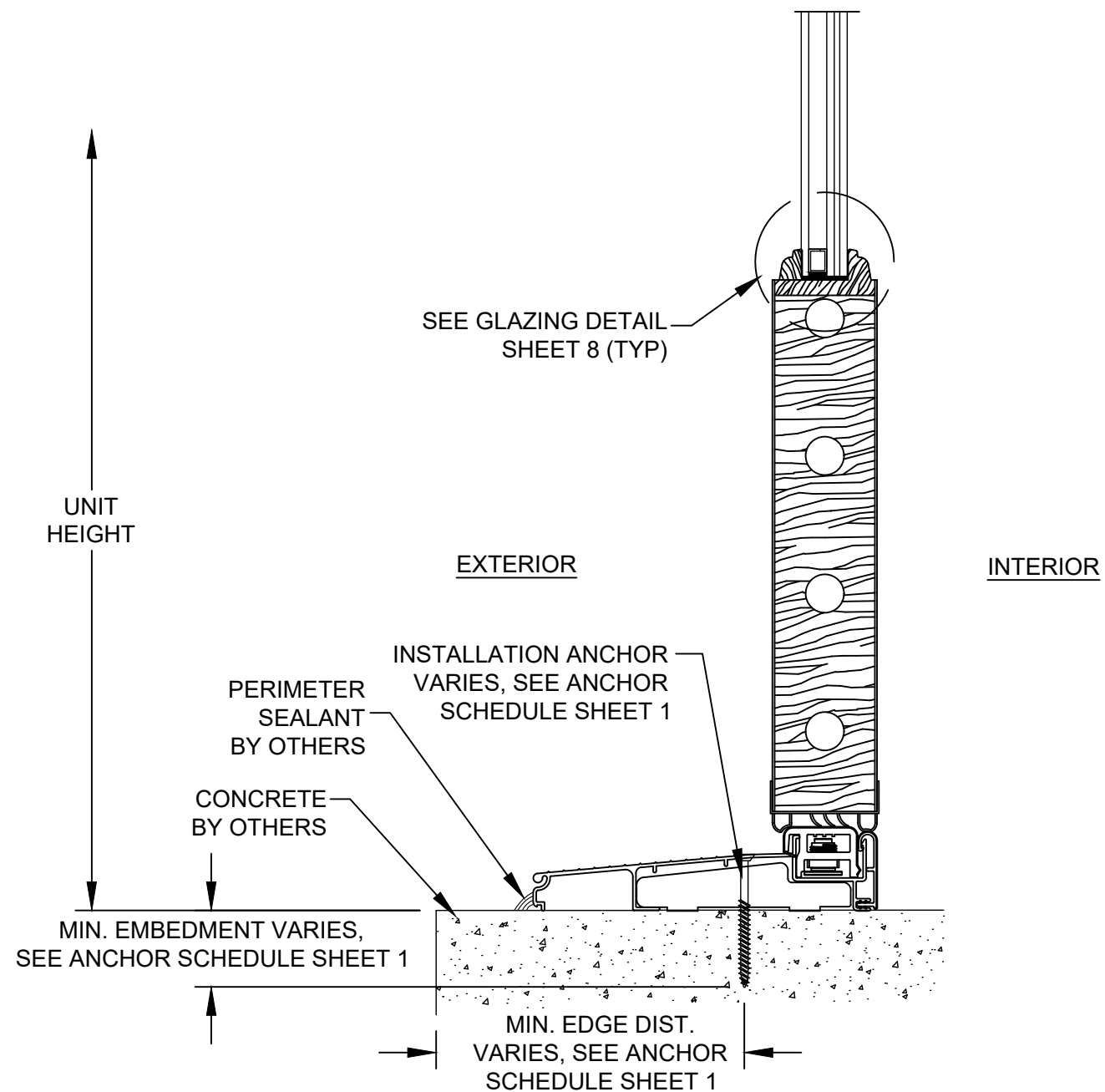
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 5907
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com
TX Reg. No. F-13740

Robert J. Amoruso, P.E.
TX P.E. No. 80817





A **VERTICAL SECTION**
CONCRETE SUBSTRATE INSTALLATION
USING SILICONE SEALANT



B **VERTICAL SECTION**
CONCRETE SUBSTRATE INSTALLATION
USING OPTIONAL FASTENER

INSWING SILL VERTICAL SECTION

(FULLY GLAZED DOOR SHOWN - GLAZED/OPAQUE & OPAQUE DOOR SAME)

ENDURA PRODUCTS, INC. Z SERIES INSWING ADJUSTABLE SILL

SILL INSTALLATION USING SILICONE SEALANT (SECT. A) REQUIRED BUT CAN BE OMITTED IF SILL INSTALLED USING OPTIONAL FASTENERS (SECT. B)

PROJECT NO. 413-0907

| | | | |
|-----|-------------|------|----|
| REV | DESCRIPTION | DATE | BY |
| | | | |

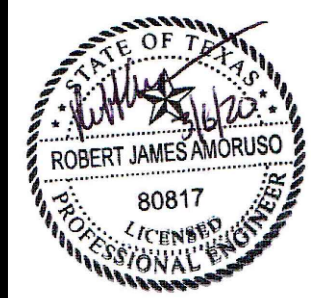
SIMPSON DOOR COMPANY
400 W. SIMPSON AVENUE
MCCLEARY, WASHINGTON 98557

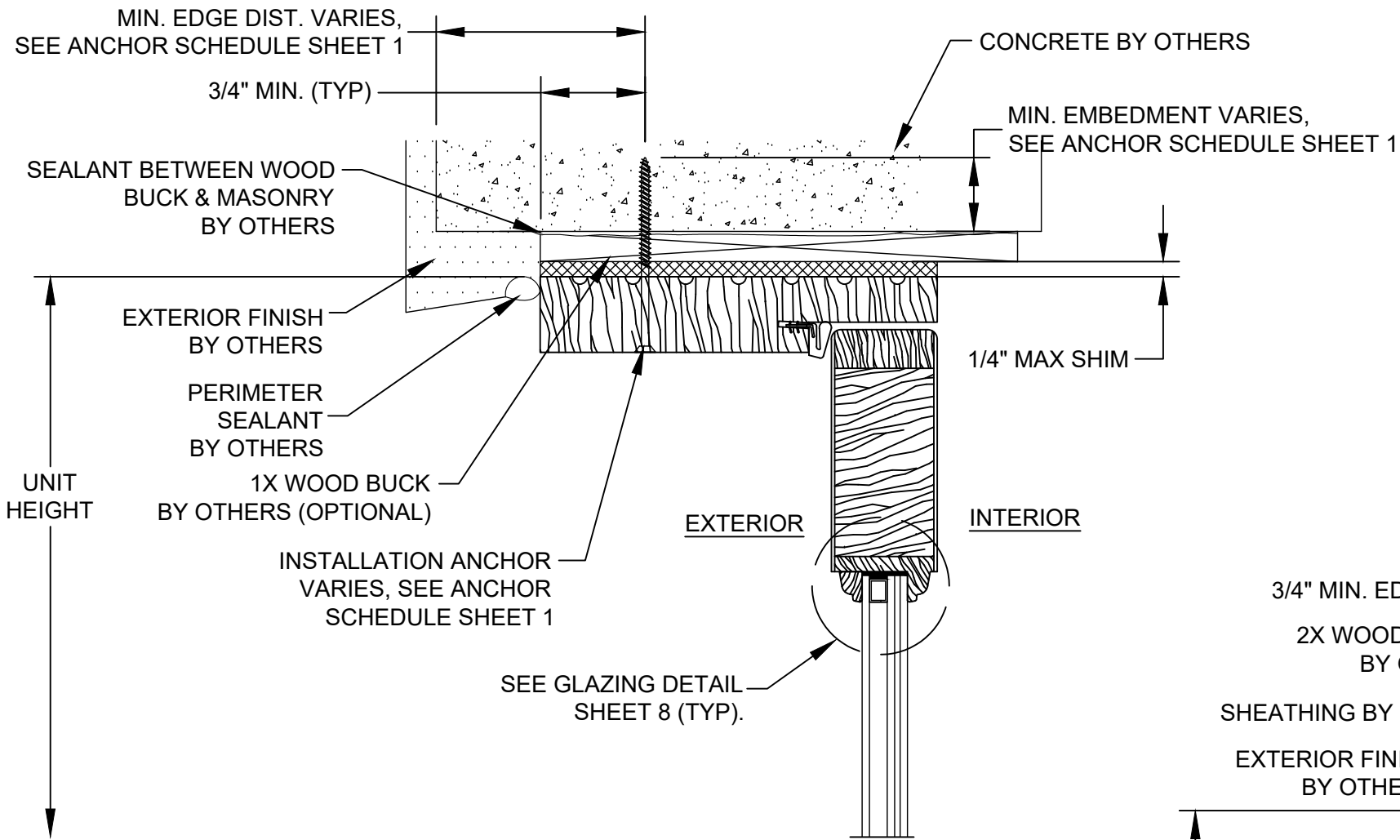
CUSTOMER: SERIES 7901 GLAZED AND/OR OPAQUE WOOD DOOR - INSWING & OUTSWING VERTICAL SECTIONS - INSWING SILL

PREPARED BY: PTC PRODUCT DESIGN GROUP, LLC
PO BOX 592725
LONGWOOD, FLORIDA 32752
TX Reg. No. F-13740

DRAWN BY: RJA
SCALE: N.T.S.
DATE: 7/10/18
DRAWING NO.: SIMP2013
SHEET: 4 OF 8

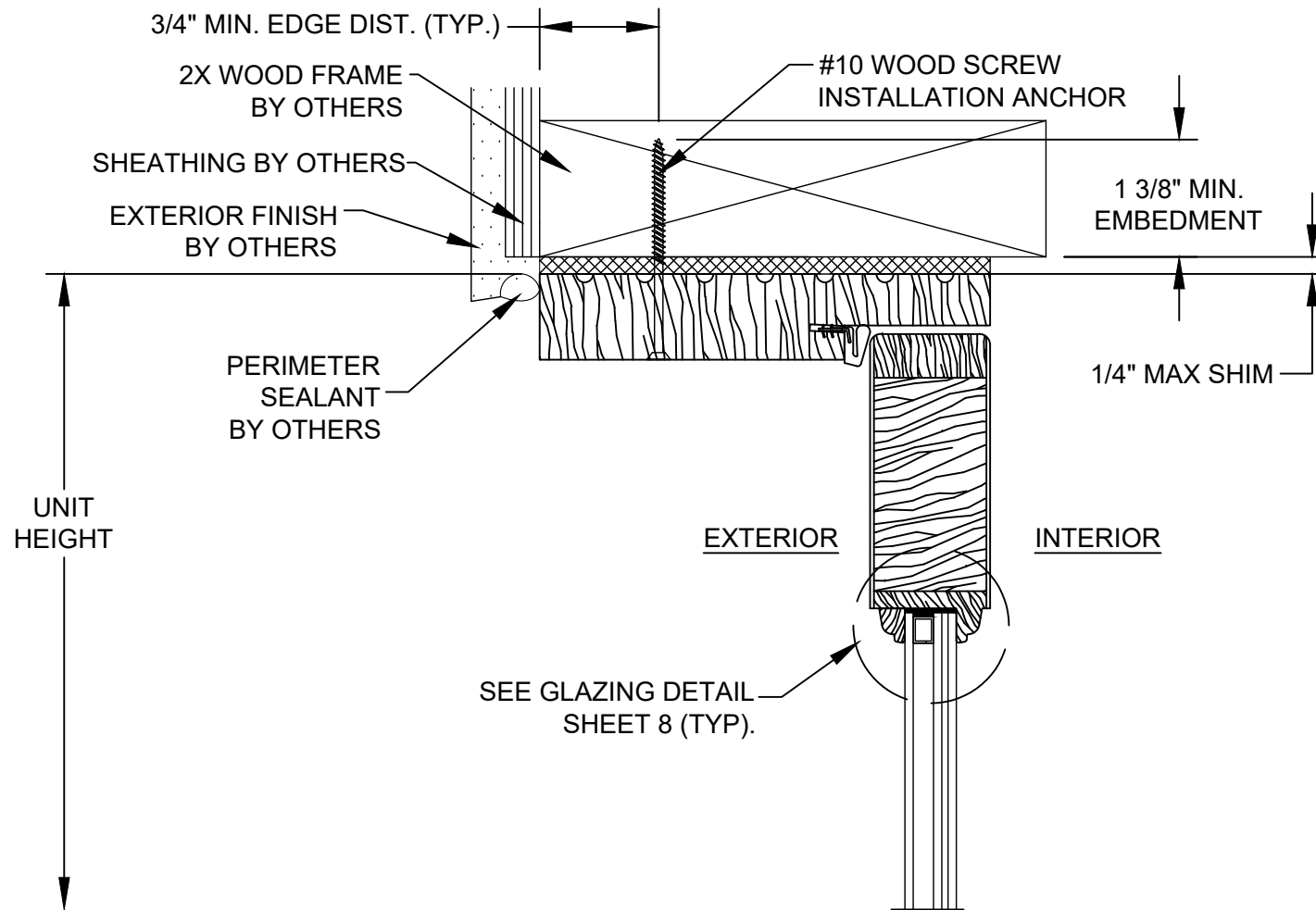
Robert J. Amoruso, P.E.
TX P.E. No. 80817





C **VERTICAL SECTION**
 CONCRETE SUBSTRATE INSTALLATION
 INSWING SHOWN, OUTSWING REVERSED

(FULLY GLAZED DOOR SHOWN - GLAZED/OPAQUE & OPAQUE DOOR SAME)



D **VERTICAL SECTION**
 2X WOOD SUBSTRATE INSTALLATION
 INSWING SHOWN, OUTSWING REVERSED

(FULLY GLAZED DOOR SHOWN - GLAZED/OPAQUE & OPAQUE DOOR SAME)

PROJECT NO. 413-0907

| | | | |
|-----|-------------|------|----|
| REV | DESCRIPTION | DATE | BY |
| | | | |

CUSTOMER: **SIMPSON DOOR COMPANY**
 400 W. SIMPSON AVENUE
 McCLEARY, WASHINGTON 98557

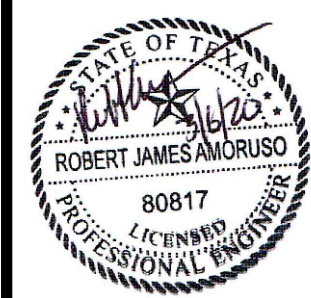
SERIES 7901 GLAZED AND/OR OPAQUE WOOD DOOR - INSWING & OUTSWING
 VERTICAL SECTIONS - HEAD

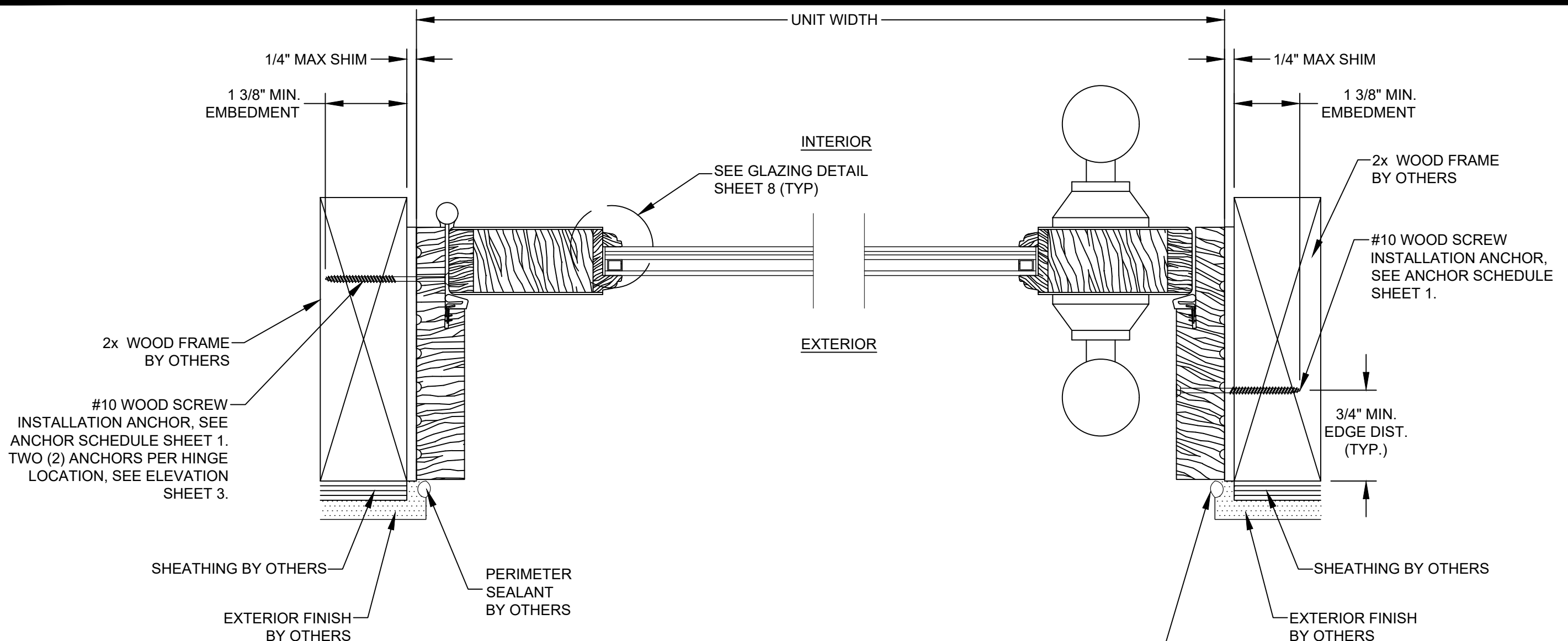
PREPARED BY: RJA
 SCALE: N.T.S.
 REV: ---

DATE: 7/10/18
 DRAWING NO: SIMP2013
 SHEET: 6 OF 8

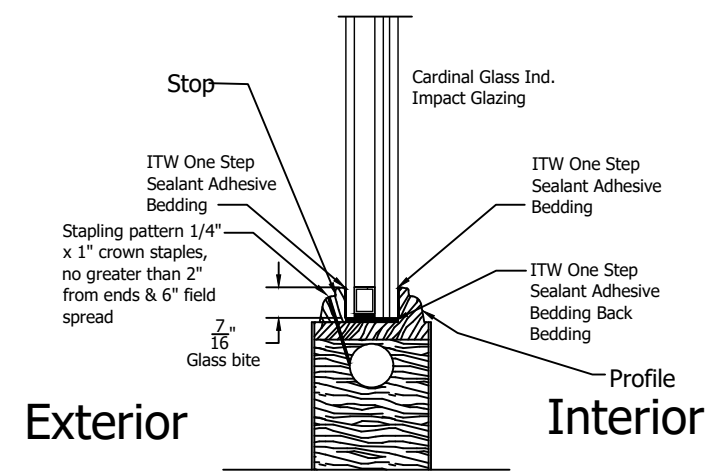
PTC PRODUCT DESIGN GROUP, LLC
 PO BOX 520775
 LONGWOOD, FLORIDA 32752
 TX Reg. No. F-13740
 Phone: 321.690.1788
 Fax: 321.690.1789
 Email: info@ptcgrp.com

Robert J. Amoruso, P.E.
 TX P.E. No. 80817



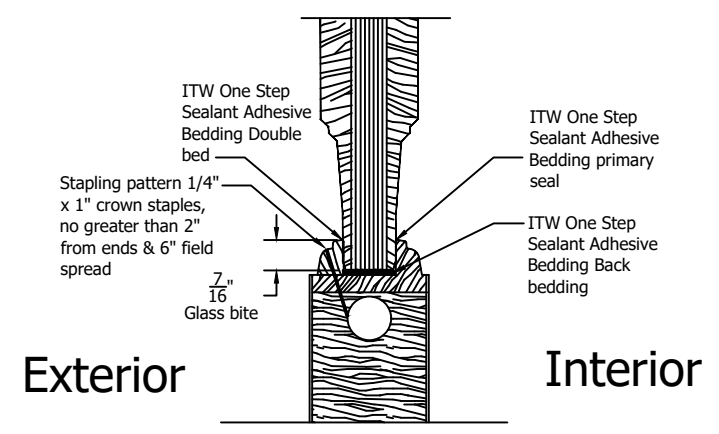


E HORIZONTAL SECTION
 2X WOOD SUBSTRATE INSTALLATION
 INSWING SHOWN, OUTSWING REVERSED
 (FULLY GLAZED DOOR SHOWN - GLAZED/OPAQUE & OPAQUE DOOR SAME)



3/4" O.A. LAMI IGU:1/8" TEMPERED GLASS AT THE EXTERIOR WITH 5/16" AIRSPACE AND LAMINATED TWO (2) PIECES 1/8" ANNEALED GLASS WITH 0.090" KURARAY AMERICA BUTACITE PVB LAMINATE AT INTERIOR. GLASS INSULATED WITH ENDUR AIR SPACER BY CARDINAL.

PANEL GLAZING DETAIL



PANEL INFILL DETAIL

PROJECT NO. 413-0907

| | | | |
|-----|-------------|------|----|
| REV | DESCRIPTION | DATE | BY |
| | | | |

CUSTOMER: **SIMPSON DOOR COMPANY**
 400 W. SIMPSON AVENUE
 McCLEARY, WASHINGTON 98557

SERIES 7901 GLAZED AND/OR OPAQUE WOOD DOOR - INSWING & OUTSWING
 HORIZONTAL SECTION - WOOD SUBSTRATE & GLAZING DETAILS

PREPARED BY: RJA
 DRAWN BY: N.T.S.
 SCALE: ---
 DATE: 7/10/18
 DRAWING NO: SIMP2013
 SHEET: 8 OF 8

PTC PRODUCT DESIGN GROUP, LLC
 PO BOX 592775
 LONGWOOD, FLORIDA 32752
 Phone: 321.690.1788
 Fax: 321.690.1789
 Email: info@ptc-corp.com
 TX Reg. No. F-13740

Robert J. Amoruso, P.E.
 TX P.E. No. 80817

