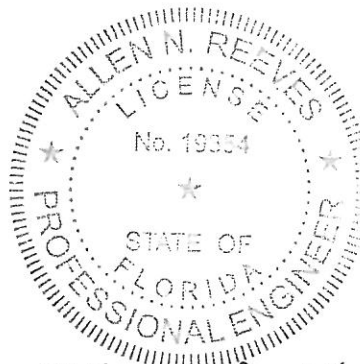


FIBER – STEEL ENTRY DOOR
INSTALLATION INSTRUCTIONS



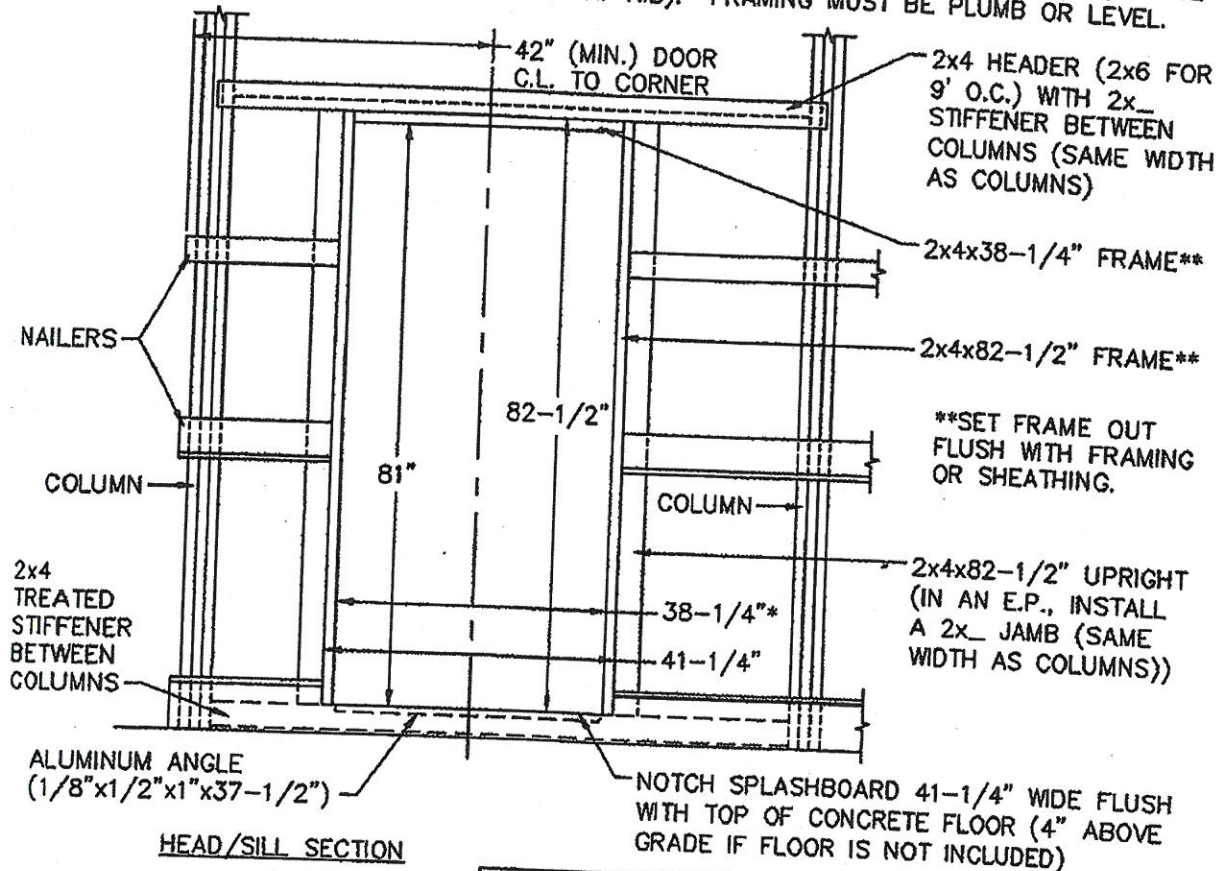
Allen N. Reeves
20 JAN. 2021

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Structural Engineer
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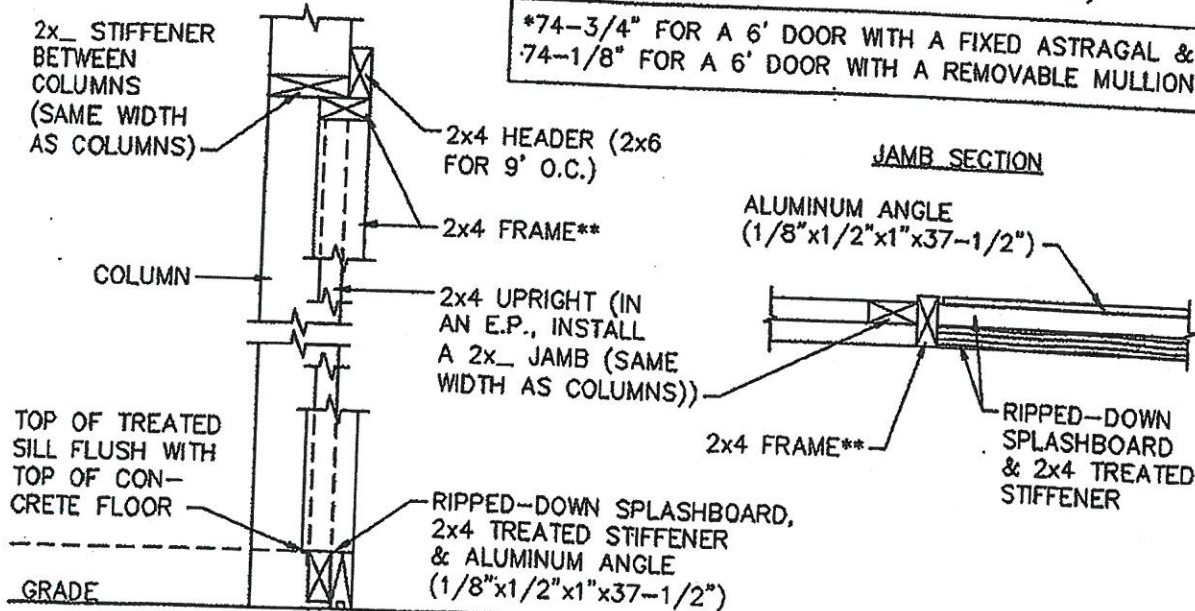
FIBER-STEEL ENTRY DOOR (STEEL SIDING)

(FOR BUILDINGS UP THROUGH 9' O.C.)

STEP 1: FRAME OPENING. LOCATE CENTER OF A 3' DOOR TO LINE UP WITH A FLAT (LOCATE CENTER OF A 6' DOOR TO LINE UP WITH A HI-RIB). FRAMING MUST BE PLUMB OR LEVEL.



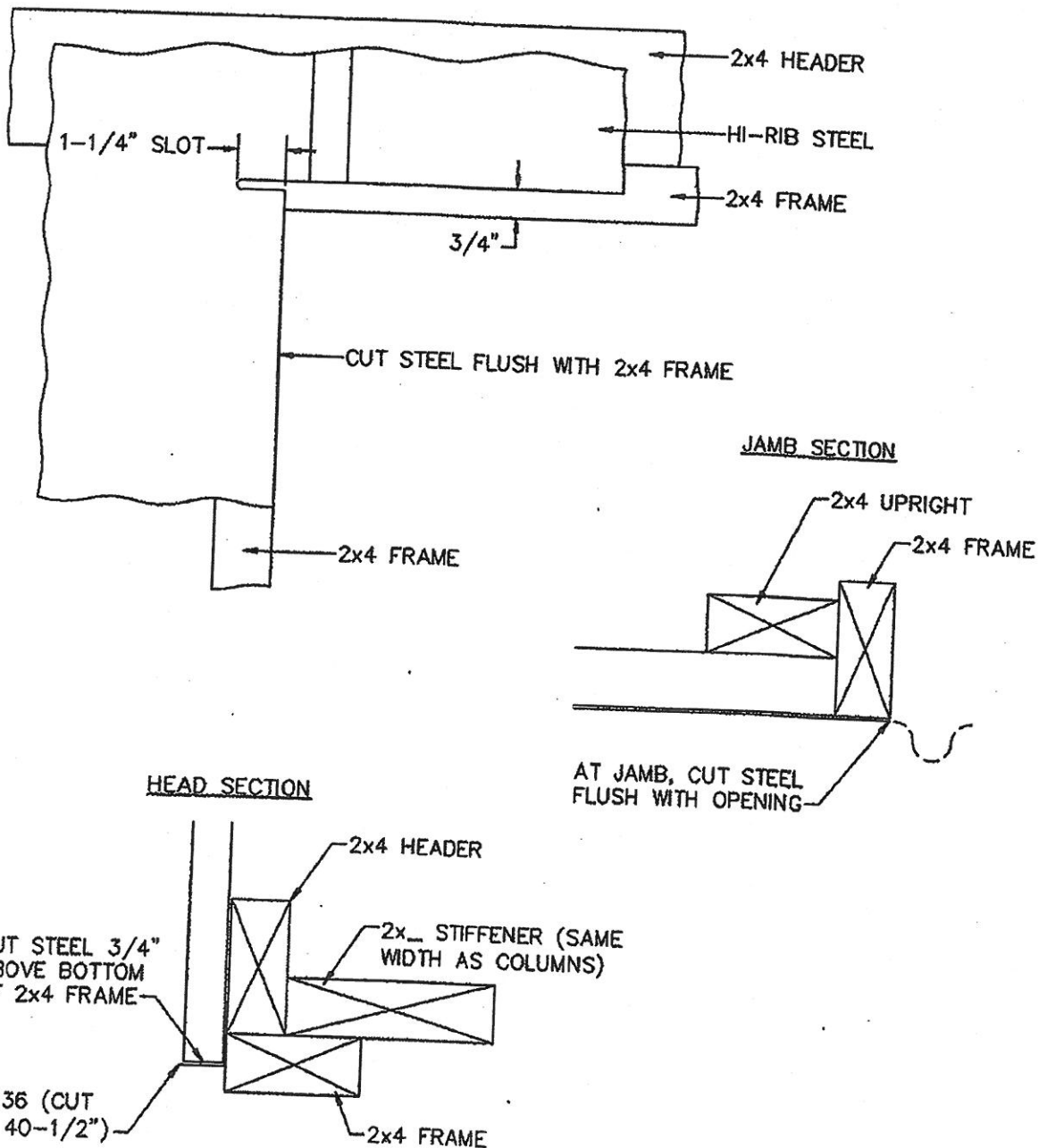
*74-3/4" FOR A 6' DOOR WITH A FIXED ASTRAGAL & 74-1/8" FOR A 6' DOOR WITH A REMOVABLE MULLION.



FIBER-STEEL ENTRY DOOR (STEEL SIDING)

STEP 2: CUT STEEL FOR OPENING. AT HEADER, CUT STEEL $\frac{3}{4}$ " ABOVE BOTTOM OF 2x4 FRAME. AT JAMBS, CUT STEEL FLUSH WITH OPENING. AT CORNERS, CUT A $1\text{--}\frac{1}{4}$ " SLOT AS SHOWN BELOW.

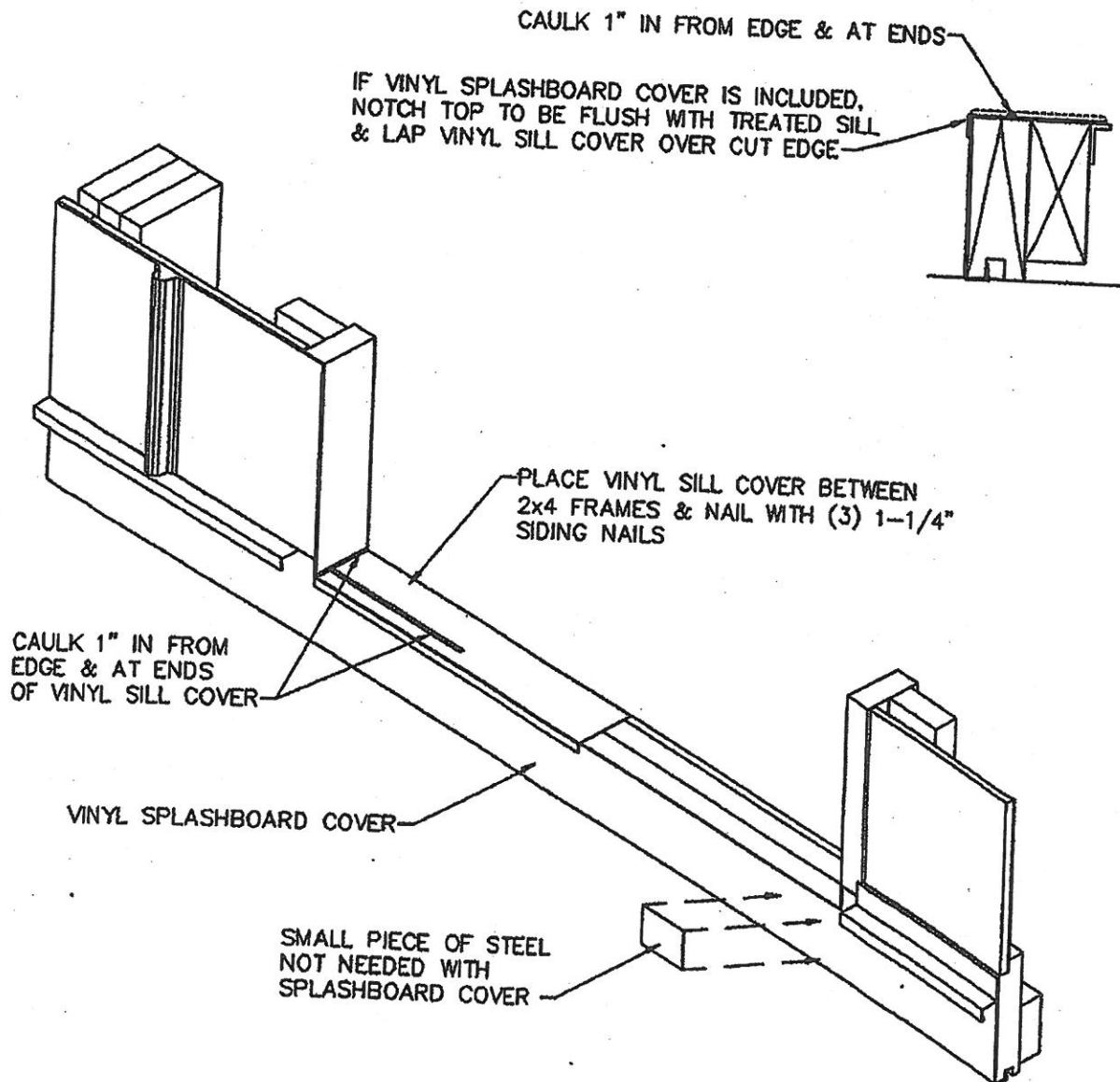
STEP 3: CUT A PIECE OF T#136 TO $40\text{--}\frac{1}{2}$ " & SLIDE IN AT HEADER (DO NOT FASTEN).



FIBER-STEEL ENTRY DOOR (STEEL SIDING)

STEP 4: INSTALL VINYL SILL COVER ON TREATED SILL TO PROTECT ALUMINUM THRESHOLD FROM CORROSION DUE TO CCA TREATED SILL.

STEP 5: RUN A HEAVY BEAD OF CAULKING 1" IN FROM OUTSIDE EDGE OF VINYL SILL COVER & ALONG ENDS OF VINYL SILL COVER AT 2x4 FRAMES. CAULK JUST BEFORE DOOR IS INSTALLED.



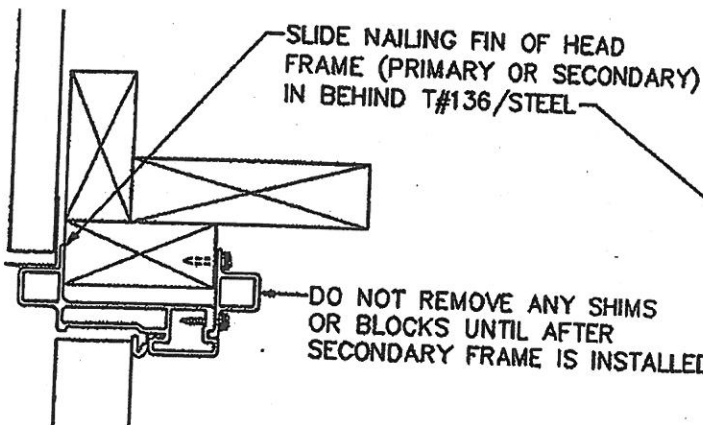
FIBER-STEEL ENTRY DOOR (STEEL SIDING)

STEP 6: REMOVE SECONDARY FRAME --- IT WILL BE REINSTALLED AFTER DOOR IS INSTALLED. DO NOT REMOVE ANY SHIMS OR BLOCKS UNTIL AFTER DOOR & SECONDARY FRAME ARE INSTALLED.

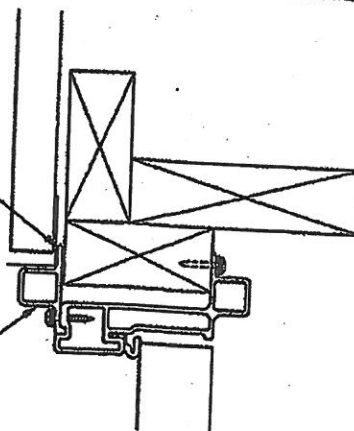
STEP 7: INSTALL DOOR. FOR AN OUTSWING DOOR, SLIDE NAILING FIN OF HEAD FRAME IN BEHIND T#136/STEEL & SLIDE UP AS FAR AS POSSIBLE TO ALLOW SILL TO CLEAR VINYL SILL COVER & CAULKING. SWING BOTTOM OF DOOR INTO OPENING UNTIL ENTIRE NAILING FIN IS TIGHT TO STEEL ALONG JAMBS & SET INTO PLACE. CENTER DOOR UNIT IN OPENING & FASTEN WITH (5) #9x1" S.S.I.D. SCREWS PER JAMB THROUGH PRE-PUNCHED HOLES IN NAILING FIN (10 TOTAL). IF DOOR IS 6' WIDE, SEE NEXT PAGE FOR ADDING SCREWS AT HEAD. IF DOOR IS AN INSWING, INSTALL FROM INSIDE BUILDING & ADD 4 SCREWS AT HEAD. WIPE OFF EXCESS CAULKING ALONG SILL. DO NOT FASTEN ALUMINUM SILL UNTIL STEP #10.

STEP 8: REINSTALL SECONDARY FRAME. FASTEN TO DOOR FRAME 1ST WITH (12) #9x1" S.S.I.D. SCREWS AT PRE-PUNCHED HOLES --- 5 PER JAMB & 2 AT HEAD (4 AT HEAD FOR DOORS OVER 3' WIDE). THEN FASTEN TO WOOD FRAMING WITH (14) #9x1" S.S.I.D. SCREWS AT PRE-PUNCHED HOLES --- 5 PER JAMB & 4 AT HEAD. FOR AN INSWING DOOR, SLIDE NAILING FIN OF SECONDARY HEAD FRAME IN BEHIND T#136/STEEL & DO NOT INSTALL 4 EXTERIOR SCREWS AT HEAD INTO WOOD FRAMING. IF DOOR IS 6' WIDE, SEE NEXT PAGE FOR ADDING SCREWS AT HEAD.

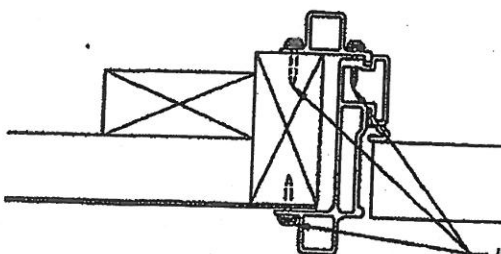
HEAD SECTION (OUTSWING)



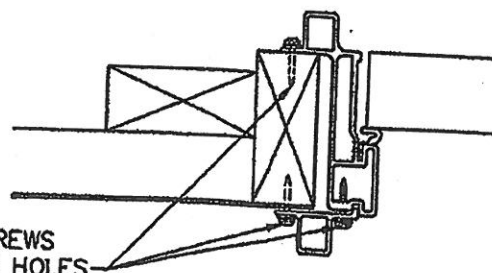
HEAD SECTION (INSWING)



JAMB SECTION (OUTSWING)

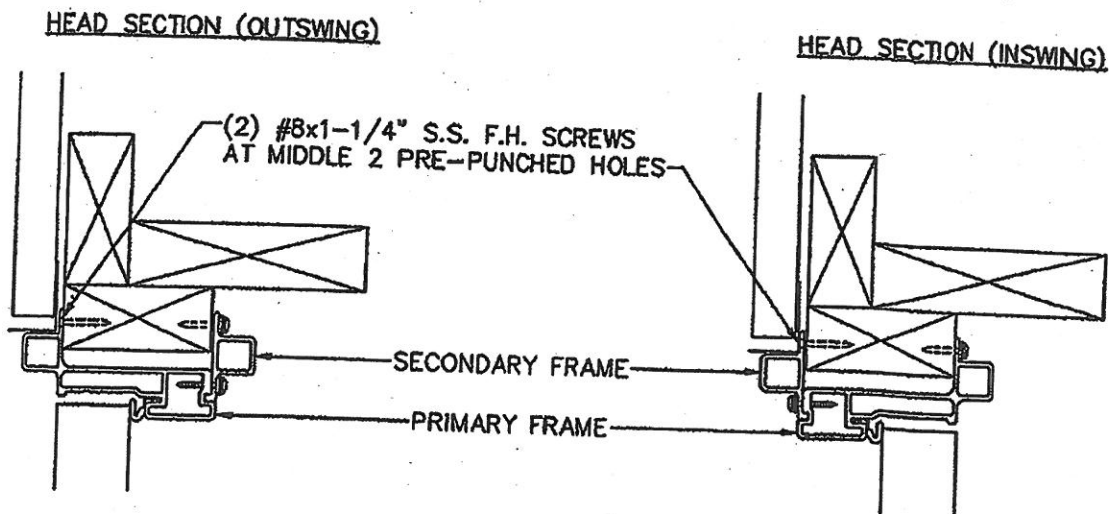


JAMB SECTION (INSWING)



FIBER-STEEL ENTRY DOOR (STEEL SIDING)

STEPS 7A & 8A (ADDITIONAL SCREWS REQUIRED FOR A 6' WIDE DOOR): IN ADDITION TO SCREWS SHOWN ON PREVIOUS PAGE, ADD (2) #8x1-1/4" S.S. F.H. SCREWS (T-20 TORX DRIVE) AT OUTSIDE HEAD FRAME (PRIMARY OR SECONDARY FRAME AS SHOWN BELOW). FASTEN SCREWS AT 2 MIDDLE PRE-PUNCHED HOLES (COUNTER-SINK INTO FRAME WITH A 1/4" OR 3/8" DRILL BIT).



STEP 9: REMOVE PLUG FROM LOCKSET HOLE IN DOOR. OPEN DOOR & REMOVE ALL SHIMS AROUND PERIMETER, INCLUDING SILL SPACER BLOCK AT BOTTOM ON LATCH SIDE OF DOOR. OPEN & CLOSE DOOR TO MAKE SURE IT SWINGS FREELY -- NO ADJUSTMENTS SHOULD BE NEEDED.

ADJUSTING DOOR TO FRAME REVEAL: IF REVEAL BETWEEN DOOR & FRAME NEEDS TO BE ADJUSTED AFTER FRAMES HAVE BEEN FASTENED TO FRAMING (ESPECIALLY ON LATCH SIDE OF DOOR), REMOVE #9x1" S.S.I.D. SCREWS FROM BOTH PRIMARY & SECONDARY FRAME IN AREA THAT NEEDS TO BE ADJUSTED. PRE-DRILL A PILOT HOLE IN FIN OF FIBERGLASS FRAME APPROX. 1" ABOVE SCREW REMOVED, MAKE ADJUSTMENT & INSTALL SCREW AT NEW LOCATION. CAULK OTHER HOLE TO SEAL AGAINST WATER LEAKAGE.

REPAIRING STRIPPED-OUT SECONDARY FRAME SCREWS: IF A #9x1" S.S.I.D. SCREW STRIPS OUT WHEN FASTENING SECONDARY FRAME TO PRIMARY FRAME, DRILL OUT HOLE WITH A 3/16" BIT. INSERT A PLASTIC ANCHOR FOR A #6-8 SCREW SIZE & RUN #9x1" S.S.I.D. SCREW BACK INTO HOLE.

HINGE SCREWS: IF DOOR SLAB NEEDS TO BE REMOVED OR REPLACED FOR ANY REASON, OR HINGE SCREWS NEED TO BE TIGHTENED, HINGE SCREW SIZES ARE AS FOLLOWS:

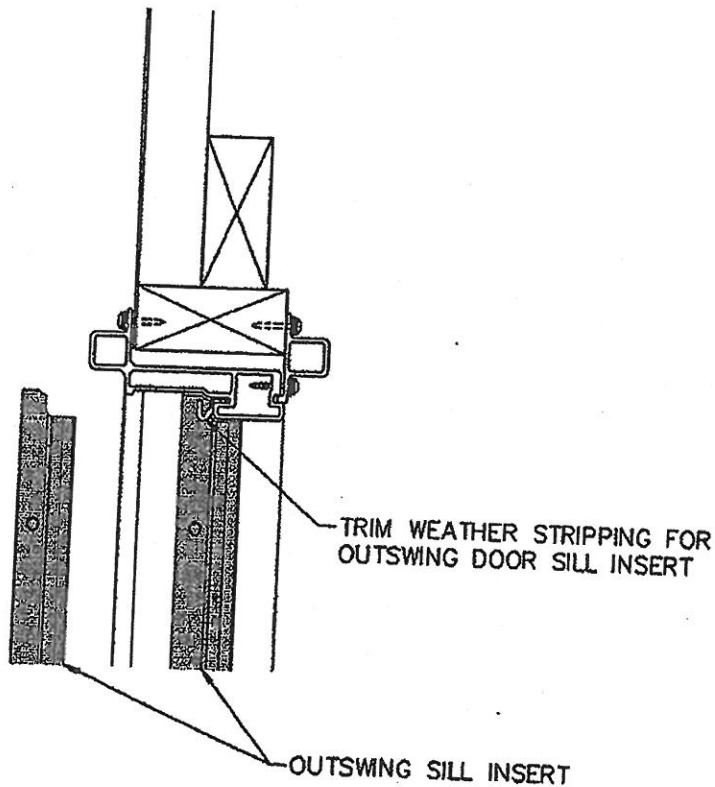
HINGE TO DOOR PANEL: #12-24x3/4" F.H.U.C. (#10 HEAD WITH T-25 TORX DRIVE).

HINGE TO JAMB FRAME: #12-24x9/16" F.H.U.C. (#10 HEAD WITH T-25 TORX DRIVE).

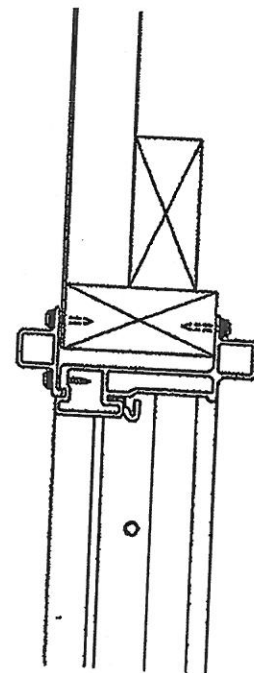
FIBER-STEEL ENTRY DOOR (STEEL SIDING)

STEP 10: FASTEN ALUMINUM SILL WITH (4) #8x1-1/4" S.S. F.H. SCREWS (T-20 TORX DRIVE) IN PRE-PUNCHED HOLES (CAULK HOLES 1ST). AN OUTSWING DOOR REQUIRES A SILL INSERT AS SHOWN BELOW -- TRIM WEATHER STRIPPING FOR INSERT. IF BUILDING IS ON CONCRETE, USE CONCRETE INSERTS FOR SCREWS.

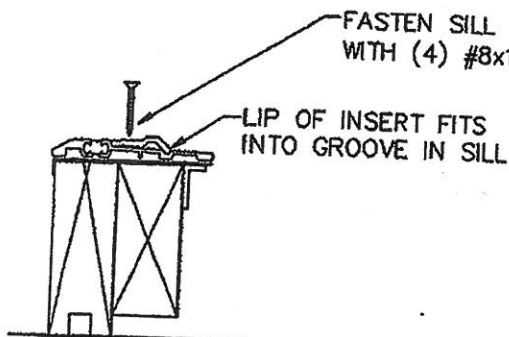
OUTSWING DOOR JAMB



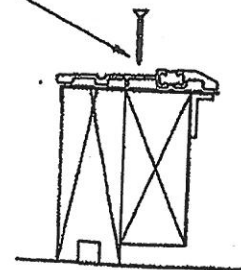
INSWING DOOR JAMB



OUTSWING DOOR SILL



INSWING DOOR SILL



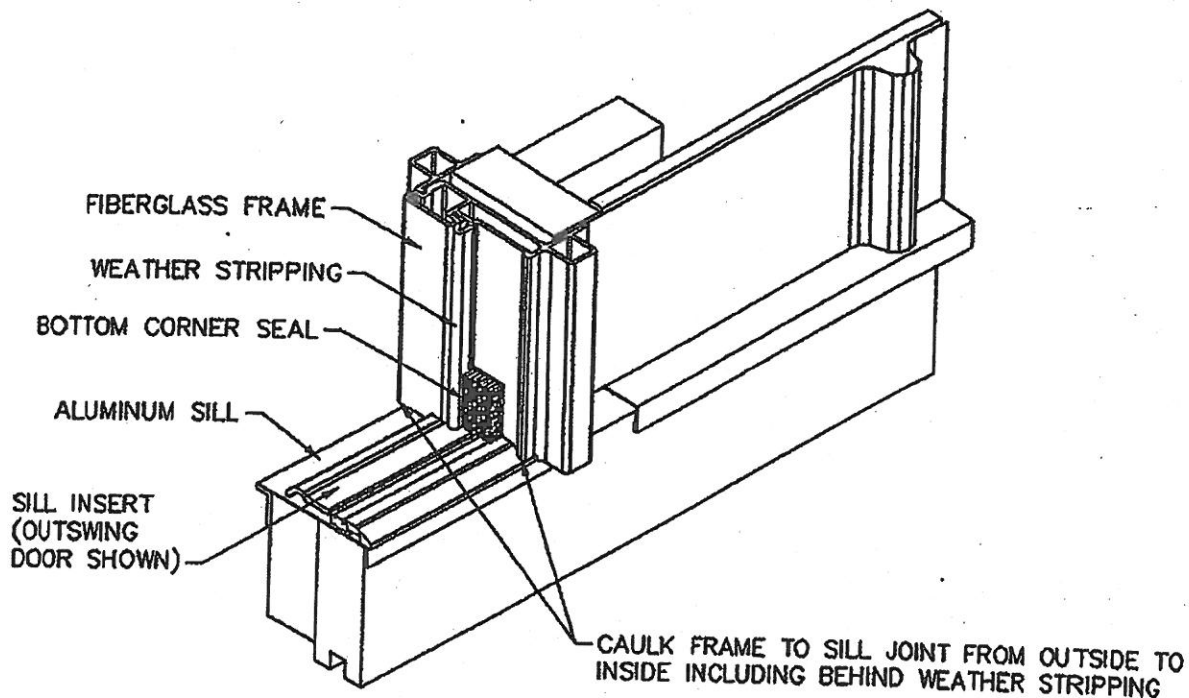


MORTON BUILDINGS
CONSTRUCTION PROCEDURE MANUAL

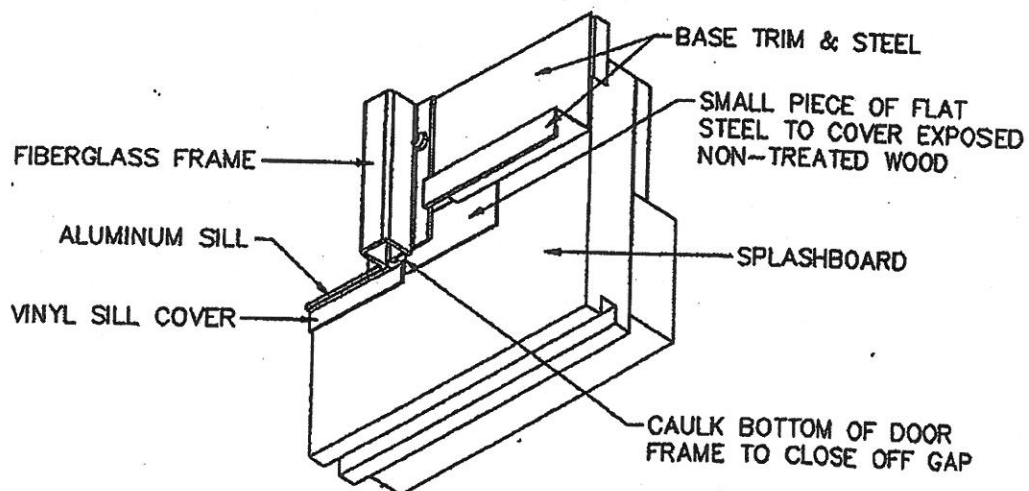
FIBER-STEEL ENTRY DOOR (STEEL SIDING)

STEP 11: CAULK FRAME TO SILL JOINT FROM OUTSIDE TO INSIDE INCLUDING BEHIND WEATHER STRIPPING.

STEP 12: INSTALL BOTTOM CORNER SEALS AT EACH JAMB. PEEL OFF BACKER, FIT EDGE BEHIND WEATHER STRIPPING, PUSH DOWN TIGHT TO SILL & STICK TO FRAME.



STEP 13: CAULK BOTTOM OF DOOR FRAME BETWEEN SPLASHBOARD & FIBERGLASS FRAME TO CLOSE OFF GAP.

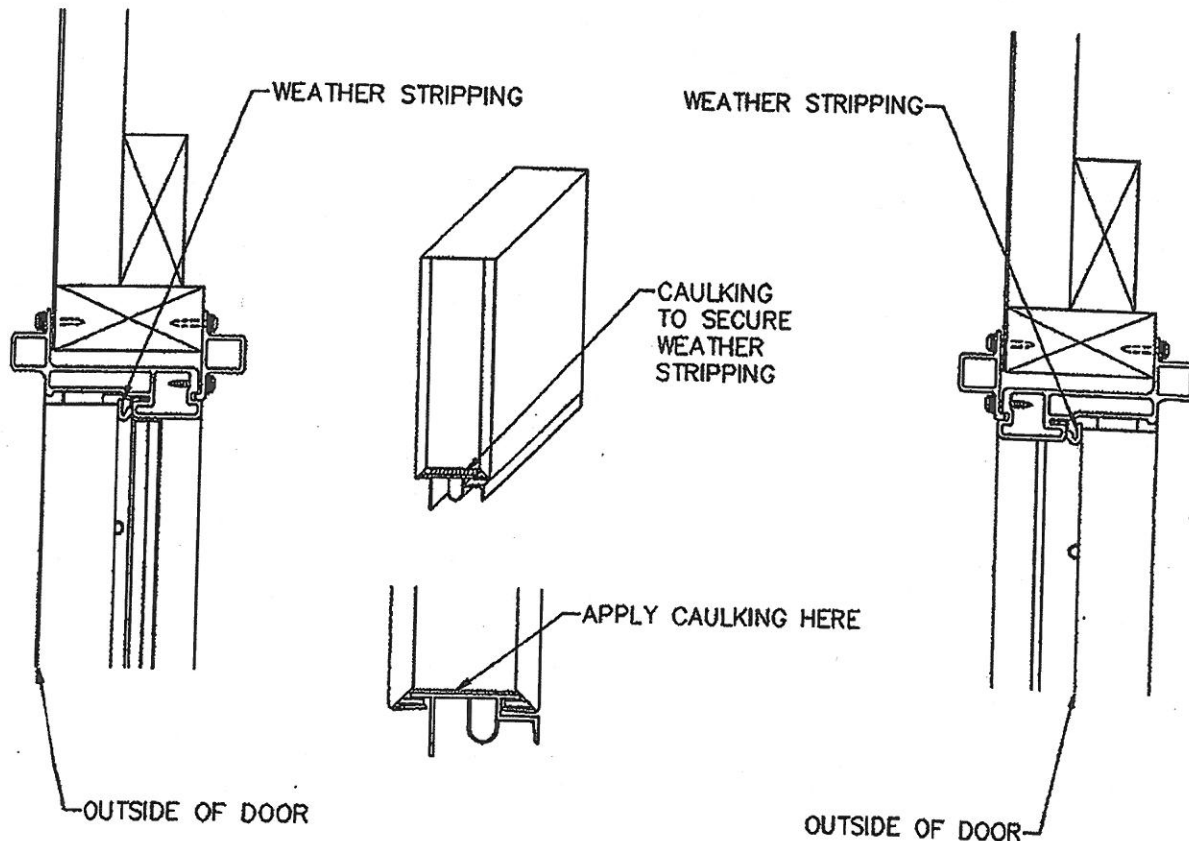


FIBER-STEEL ENTRY DOOR (STEEL SIDING)

STEP 14: SLIDE SWEEP INTO BOTTOM OF DOOR WITH SHORT FIN TOWARD DOOR FRAME WEATHER STRIPPING. STOP APPROX. 1/4" SHORT OF COMPLETE INSERTION & RUN A BEAD OF CAULKING ALONG TOP OF WEATHER STRIPPING TO SECURE IT. SLIDE INTO POSITION FLUSH WITH EDGE OF DOOR. APPLY A SMALL AMOUNT OF CAULKING AT EACH END OF SWEEP.

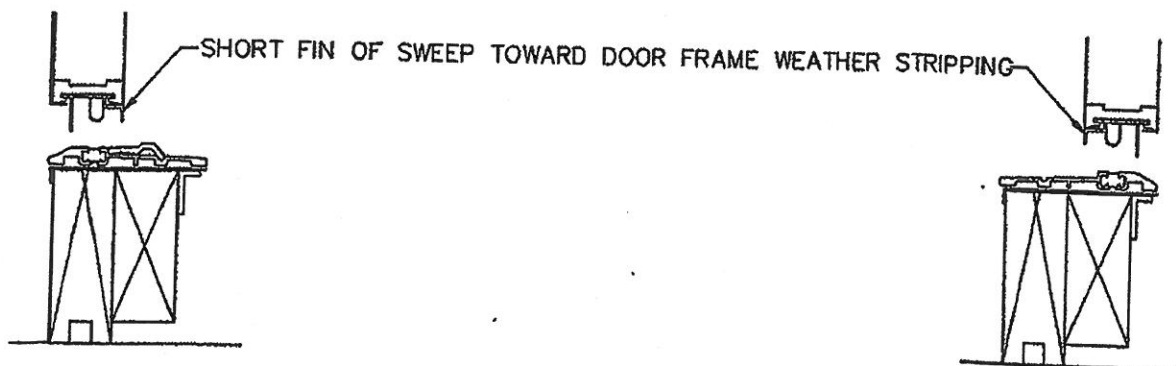
OUTSWING DOOR JAMB

INSWING DOOR JAMB



OUTSWING DOOR SILL

INSWING DOOR SILL



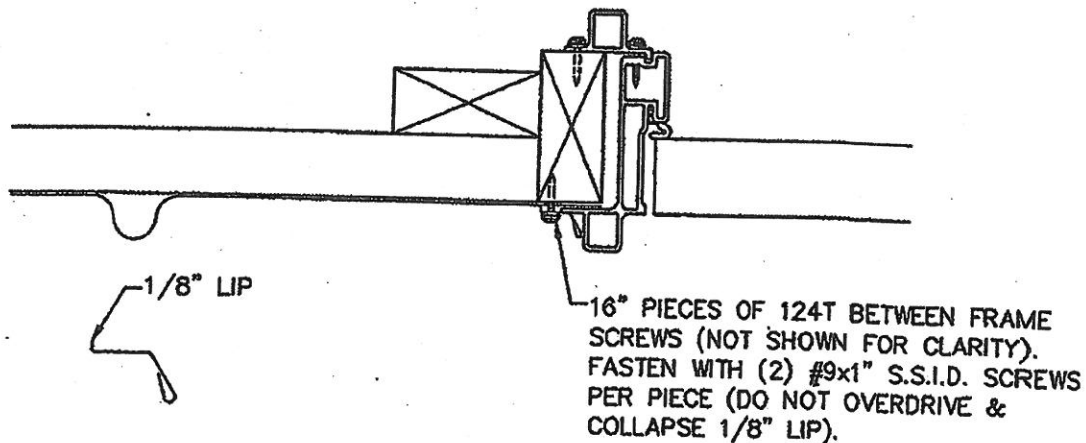


MORTON BUILDINGS
CONSTRUCTION PROCEDURE MANUAL

FIBER-STEEL ENTRY DOOR (STEEL SIDING)

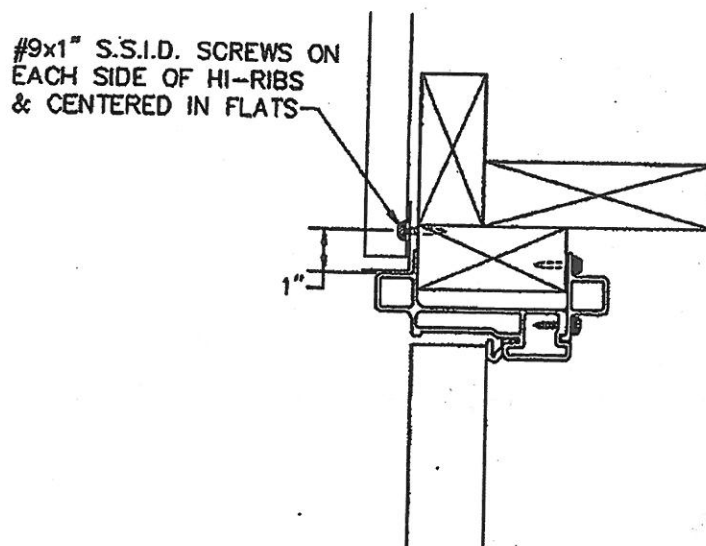
STEP 15: INSTALL 16" PIECES OF 124T SNAP RETAINER (WITH 1/8" LIP) BETWEEN FRAME SCREWS. FASTEN WITH (2) #9x1" S.S.I.D. SCREWS. BE CAREFUL NOT TO OVERDRIVE & COLLAPSE 1/8" LIP.

JAMB SECTION



STEP 16: PULL T#136 DOWN TIGHT TO FIBERGLASS FRAME & CENTER ON FRAME. FASTEN T#136 & STEEL APPROX. 1" ABOVE FRAME WITH #9x1" S.S.I.D. SCREWS. FASTEN STEEL ON EACH SIDE OF HI-RIBS & CENTERED IN FLATS.

HEAD SECTION



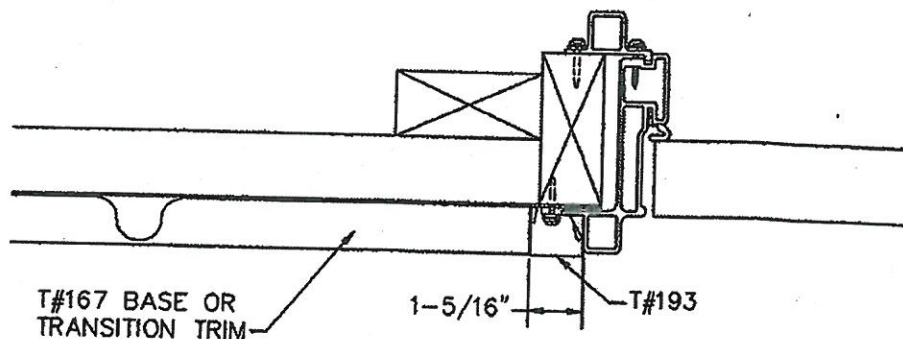


FIBER-STEEL ENTRY DOOR (STEEL SIDING)

STEP 17: CUT T#167 TRANSITION & BASE TRIM 1-5/16" FROM DOOR FRAME TO ALLOW ROOM FOR T#193 JAMB TRIM.

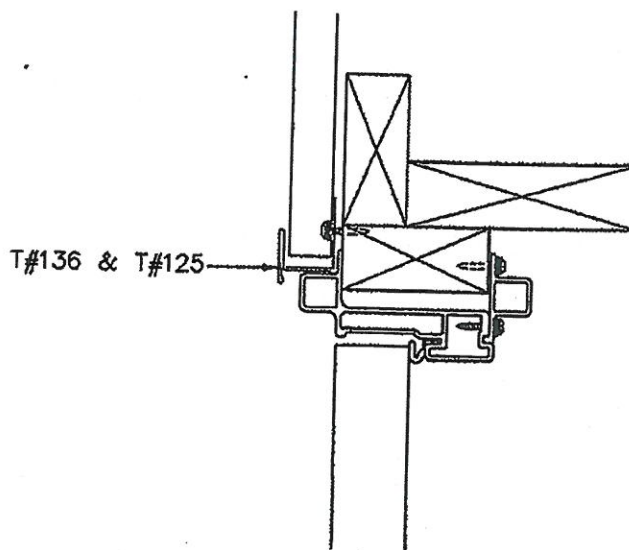
STEP 18: CUT T#193 JAMB TRIM TO FIT FROM TOP OF DOOR FRAME TO BOTTOM OF BASE TRIM. BEFORE INSERTING T#193, PLACE 3 SHORT BEADS OF CAULKING ALONG DOOR FRAME AT EDGE OF 124T TO SECURE & INSTALL T#193 FLUSH WITH TOP OF FRAME.

JAMB SECTION



STEP 19: CUT T#125 HEADER TRIM TO 1/2" MORE THAN OUT-TO-OUT MEASUREMENT OF T#193 JAMB TRIMS & INSTALL BETWEEN T#136 & DOOR FRAME (EXTENDS 1/4" PAST T#193 ON EACH SIDE). BEFORE INSERTING T#125, PLACE 3 SHORT BEADS OF CAULKING BETWEEN FRAME & T#136 TO SECURE T#125.

HEAD SECTION



STEP 20: CAULK SLOT AT EACH END OF T#136 TRIM.

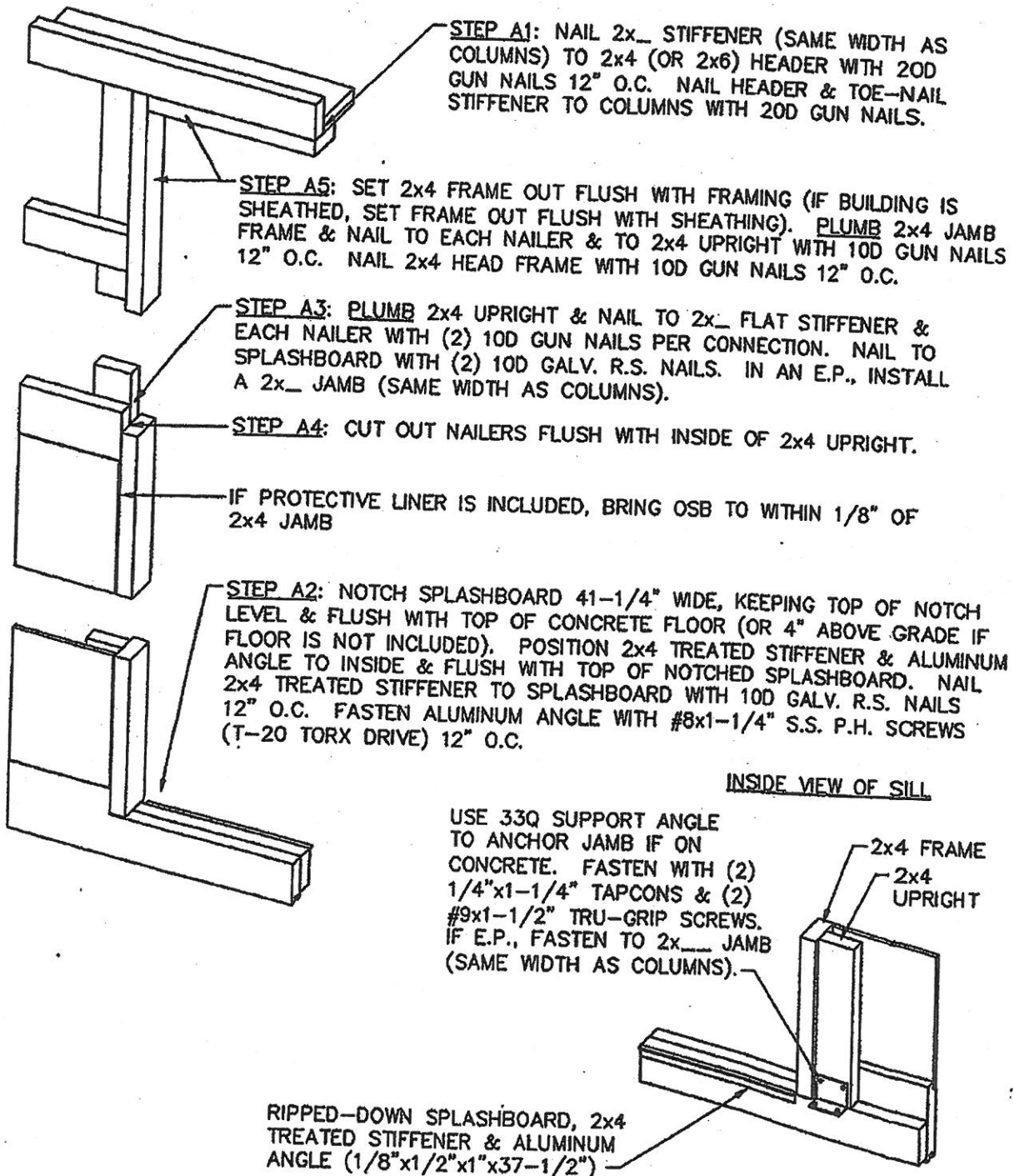


MORTON BUILDINGS
CONSTRUCTION PROCEDURE MANUAL

FIBER-STEEL ENTRY DOOR (STEEL SIDING)

(FOR BUILDINGS UP THROUGH 9' O.C.)

NOTE: FRAMING MUST BE PLUMB OR LEVEL.



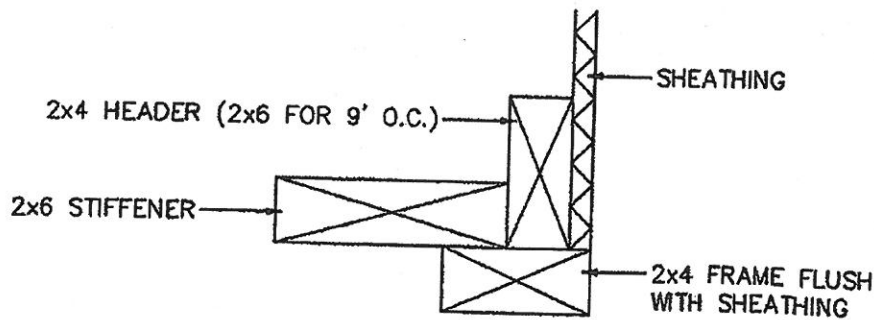


MORTON BUILDINGS
CONSTRUCTION PROCEDURE MANUAL

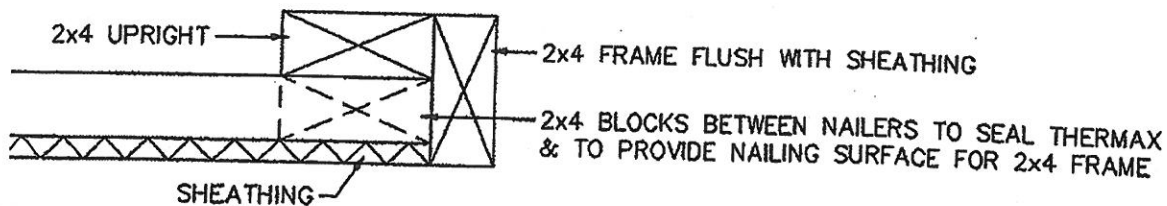
FIBER-STEEL ENTRY DOOR WITH SHEATHING

(FOR BUILDINGS UP THROUGH 9' O.C. WITH THERMAX, SHEETROCK OR OSB SHEATHING)

HEAD SECTION (1/2" OR 1" SHEATHING)



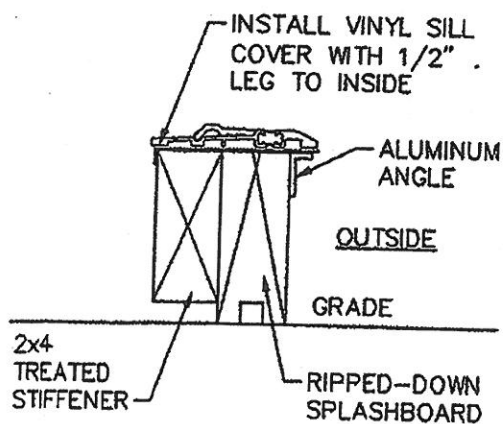
JAMB SECTION (1/2" OR 1" SHEATHING)



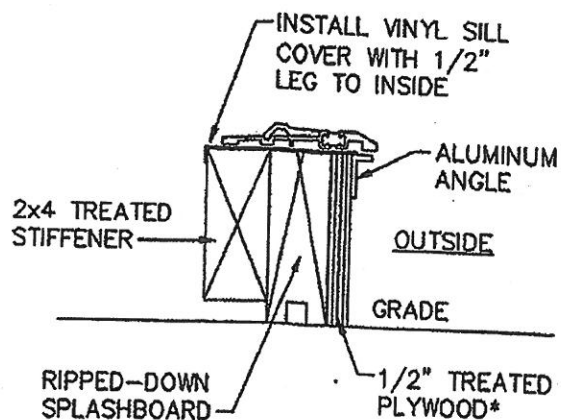
SILL SECTIONS

NOTE: AN OUTSWING SILL IS SHOWN IN DETAILS BELOW -- DETAILS ARE SAME FOR AN INSWING DOOR.

1/2" SHEATHING



1" SHEATHING



*NOTE: IF SPLASHBOARD COVER IS INCLUDED, TRIM AS NEEDED & INSTALL OVER TREATED PLYWOOD AT ENTRY DOOR.