NOTES:

1. GLAZING OPTION – .125" MINIMUM DSB GLAZING MEETS UNIFORM STATIC DESIGN PRESSURES SHOWN ON THIS DRAWING. GLAZING SHALL HAVE A MAXIMUM HEIGHT OF 6.70" AND A MAXIMUM LENGTH OF 24.00". GLAZING IS NOT IMPACT RESISTANT AND DOES NOT MEET THE REQUIREMENTS FOR WIND–BORNE DEBRIS REGIONS.

2. ALUMINUM FULL VIEW OPTION – ALUMINUM FULL VIEW SECTION MAY REPLACE ANY SECTION EXCEPT TOP AND BOTTOM PANELS. ALUMINUM FULL VIEW SECTION SHALL HAVE RAILS AND STILES OF EXTRUDED ALUMINUM ALLOY 6063–T6 WITH A 3–5/8" INTEGRAL FIN WITH .125" MINIMUM DSB GLAZING INSTALLED WITH ALUMINUM RETAINERS IN ORDER TO MEET UNIFORM STATIC DESIGN PRESSURES SHOWN ON THIS DRAWING. GLAZING IS NOT IMPACT RESISTANT AND DOES NOT MEET THE REQUIREMENTS FOR WIND–BORNE DEBRIS REGIONS.

3. MINIMUM OF 1" OVERLAP ON BOTH JAMBS REQUIRED TO MEET NEGATIVE DESIGN PRESSURES.

4. SLIDE LOCKS OR OPERATOR REQUIRED.

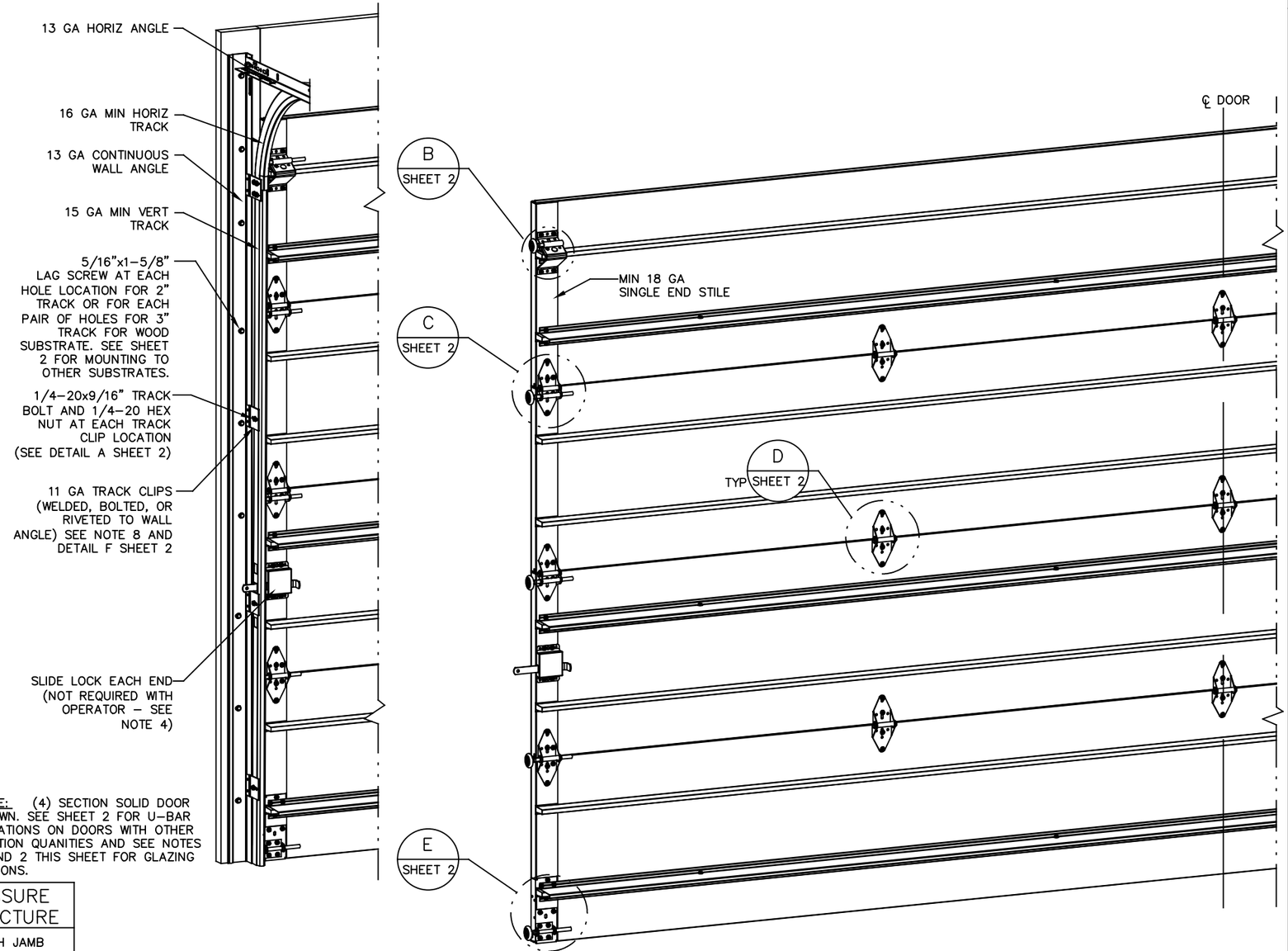
5. SECTION STEEL TO HAVE THE FOLLOWING MINIMUM THICKNESS:
TS 150 – 29 GA EXTERIOR, 29 GA INTERIOR
TS 200 – 26 GA EXTERIOR, 26 GA INTERIOR
TS 200–20 – 20 GA EXTERIOR, 27 GA INTERIOR

6. A 22 GA X 2–1/4" X 3–3/4" BACKUP PLATE SHALL BE LOCATED AT EACH INTERMEDIATE HINGE LOACTION.

7. THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.

8. TRACK CLIPS SHALL BE LOCATED WITH CENTERLINE OF BOTTOM CLIP SPACED 10" MAX FROM BOTTOM OF TRACK AND REMAINING TRACK CLIPS SPACED AT 24" O.C. MAX. SPACING BETWEEN TOP TRACK CLIP AND SPLICE PLATE SHALL BE 30" O.C. MAX.

9. WHEN MOUNTING TO WOOD, DOOR JAMB TO BE MINIMUM 2x6 NO. 2 SPF LUMBER OR BETTER. REFER TO JAMB CONNECTION SUPPLEMENT FOR ATTACHMENT TO SUPPORTING STRUCTURE.



NOTE: (4) SECTION SOLID DOOR SHOWN. SEE SHEET 2 FOR U–BAR LOCATIONS ON DOORS WITH OTHER SECTION QUANITIES AND SEE NOTES 1 AND 2 THIS SHEET FOR GLAZING OPTIONS.

SUPERIMPOSED DESIGN PRESSURE LOADS ON SUPPORTING STRUCTURE		
MAX DOOR WIDTH	DOOR HEIGHT	MAX UNIFORM LOAD EACH JAMB (PLF)
16'–2"	ALL	+92.2/–102.7

J. C. VOELKEL LICENSE No 82229 STATE OF FLORIDA PROFESSIONAL ENGINEER

J. CHRISTIAN VOELKEL, PE
312 N. WARRINGTON RD. UNIT 1A
PENSACOLA, FL
FL PE 77945
TX PE 133174

PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WINDLOAD CONSTRUCTION DETAILS.

Digitally signed by John Christian Voelkel
Date: 2020.07.24 15:32:43 -05'00'

REVISIONS

P1 REMOVED SECTION LIMITATION FOR STANDARD GLAZING
GRT 5/9/08

P2 UPDATED TITLE BLOCK.
GRT 3/26/12

P3 UPDATED TITLE BLOCK
ESC 10/18/17

D UPDATED PRINT TO MATCH RECERT TESTING
TLC 04/01/20

Wayne Dalton™ GARAGE DOORS

A DIVISION OF OVERHEAD DOOR CORP
3395 ADDISON DRIVE
PENSACOLA, FLORIDA 32514
(850) 474–9890

STATIC PRESSURE RATINGS		APPROVED SIZES		SCALE: N.T.S.		SIZE: A
DESIGN (PSF):	+11.40/–12.70	MAX WIDTH:	16'–2"		DATE	NAME
TEST (PSF):	+17.10/–19.05	MAX HEIGHT:	24'–1"	DRAWN	9/6/07	GRT
IMPACT/CYCLIC RATED (YES/NO):	NO	MAX SECTION HEIGHT:	24"	CHECKED	4/11/08	MRB

MODEL TS 150/200/200–20

SHEET 1 OF 2

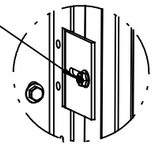
WINDLOAD SPECIFICATION OPTION CODE 2140

DRAWING PART NO. 332631

REV. D

REVISIONS

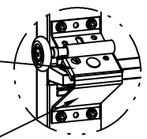
1/4–20x9/16" TRACK BOLT AND 1/4–20 HEX NUT THROUGH THE SLOT IN THE TRACK AND TRACK CLIP



DETAIL A

12 GA ROLLER SLIDE ATTACHED TO BRACKET WITH 5/16–18 BOLT & NUT IN CENTER SLOT AND 1/4–20x9/16" TRACK BOLT & 1/4–20 HEX NUT THROUGH ANY TWO ALIGNING HOLES

12 GA COMMERCIAL 'A' FRAME TOP BRACKET ATTACHED WITH (4) 1/4–20x11/16" SELF DRILLING SCREWS

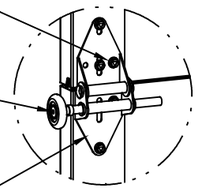


DETAIL B

ADD (2) 1/4–20x11/16" SELF DRILLING SCREWS (INSIDE OF ALL END HINGES)

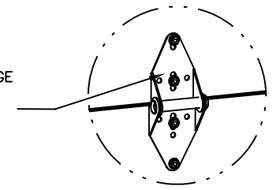
2" STEEL ROLLER WITH 5–1/8" STEM

14 GA WIDE BODY END HINGE TO ATTACH SECTIONS ONE AND TWO.
13 GA WIDE BODY END HINGE TO ATTACH REMAINING SECTIONS.
FOR ALL, ATTACH WITH (4) 1/4–20x11/16" SELF DRILLING SCREWS

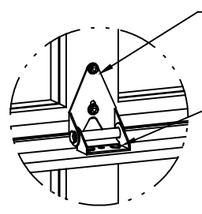


DETAIL C

14 GA WIDE BODY HINGE ATTACHED WITH (4) 1/4–20x11/16" SELF DRILLING SCREWS



SOLID SECTION



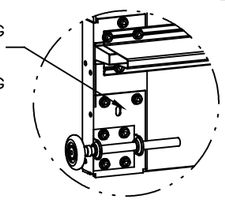
AFV SECTION

14 GA WIDE BODY HALF HINGE ATTACHED WITH (2) 1/4–20x11/16" SELF DRILLING SCREWS (UPPER HALF)

(2) 1/4x1/2" CARRIAGE BOLTS AND 1/4" FLANGE NUTS (LOWER HALF)

DETAIL D

12 GA BOTTOM BRACKET ATTACHED WITH (3) 1/4–20x11/16" SELF DRILLING SCREWS WITH 12 GA ROLLER CARRIER ATTACHED WITH (4) 1/4–20x11/16" SELF DRILLING SCREWS.



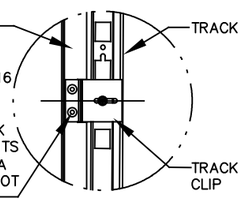
DETAIL E

CONTINUOUS WALL ANGLE

(2) 1/4" X 7/16 SEMI TUBULAR RIVITS OR (2) 1/4"–20 TRACK BOLTS WITH NUTS OR (2) .28" DIA RESISTANCE SPOT WELDS

TRACK

TRACK CLIP



DETAIL F

MIN 3/16" THICK STEEL FOR MOUNTING

MOUNTING WALL ANGLE

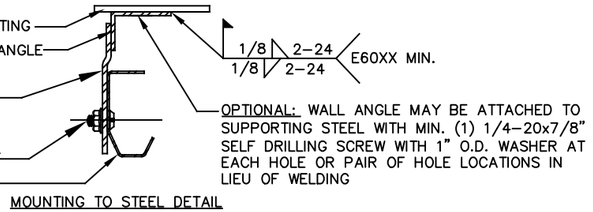
TRACK CLIP

1/4–20x9/16" TRACK BOLT AND 1/4–20 HEX NUT

TRACK

1/8 2–24 E60XX MIN.
1/8 2–24

OPTIONAL: WALL ANGLE MAY BE ATTACHED TO SUPPORTING STEEL WITH MIN. (1) 1/4–20x7/8" SELF DRILLING SCREW WITH 1" O.D. WASHER AT EACH HOLE OR PAIR OF HOLE LOCATIONS IN LIEU OF WELDING



MOUNTING TO STEEL DETAIL

2 3/4" MIN EDGE DIST

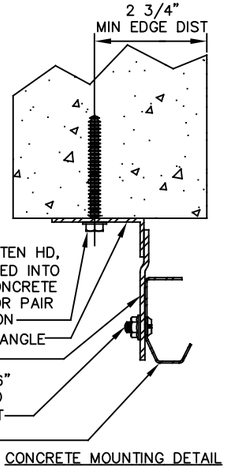
3/8" SIMPSON TITEN HD, 2–3/4" MIN EMBED INTO MIN 2000 PSI CONCRETE AT EACH HOLE OR PAIR OF HOLE LOCATION

MOUNTING WALL ANGLE

TRACK CLIP

(2) 1/4–20x9/16" TRACK BOLT AND 1/4–20 HEX NUT

TRACK



CONCRETE MOUNTING DETAIL

U–BAR LOCATIONS

(12) SECTION DOORS WITH (9) 3" 20 GA 80 KSI U–BARS LOCATED AS SHOWN

(11) SECTION DOORS WITH (8) 3" 20 GA 80 KSI U–BARS LOCATED AS SHOWN

(10) SECTION DOORS WITH (7) 3" 20 GA 80 KSI U–BARS LOCATED AS SHOWN

(9) SECTION DOORS WITH (7) 3" 20 GA 80 KSI U–BARS LOCATED AS SHOWN

(8) SECTION DOORS WITH (6) 3" 20 GA 80 KSI U–BARS LOCATED AS SHOWN

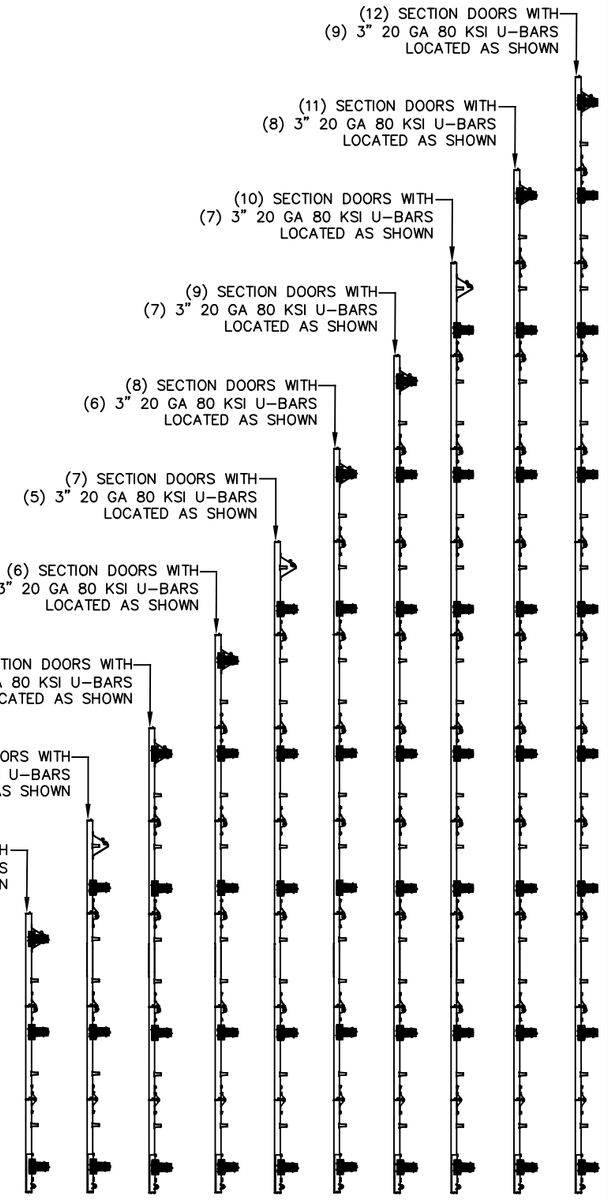
(7) SECTION DOORS WITH (5) 3" 20 GA 80 KSI U–BARS LOCATED AS SHOWN

(6) SECTION DOORS WITH (5) 3" 20 GA 80 KSI U–BARS LOCATED AS SHOWN

(5) SECTION DOORS WITH (4) 3" 20 GA 80 KSI U–BARS LOCATED AS SHOWN

(4) SECTION DOORS WITH (3) 3" 20 GA 80 KSI U–BARS LOCATED AS SHOWN

(3) SECTION DOORS WITH (3) 3" 20 GA 80 KSI U–BARS LOCATED AS SHOWN



NOTE: FOR SOLID SECTIONS, U–BARS SHALL BE PLACED OVER INTEGRAL RIBS AND ATTACHED WITH 1/4–20x11/16" SELF DRILLING SCREWS THROUGH THE U–BAR AND INTEGRAL RIB, ALTERNATING BETWEEN THE TOP AND BOTTOM OF THE U–BAR AT A MAXIMUM CENTER LINE SPACING OF 36". (2) SCREWS SHALL BE INSTALLED HORIZONTALLY TO THE DOOR THROUGH THE U–BAR AND END CAP AT EACH END. ON BOTTOM UBAR OVERLAPPING BOTTOM BRACKET, USE (2) SCREWS ON THE TOP OF UBAR.
FOR ALUMINUM FULL VIEW SECTIONS, (2) 1/4–20x11/16" SELF DRILLING SCREWS SHALL BE USED AT EACH STILE LOCATION.

J. C. VOELKEL LICENSE No 82229 STATE OF FLORIDA PROFESSIONAL ENGINEER

J. CHRISTIAN VOELKEL, PE
312 N. WARRINGTON RD. UNIT 1A
PENSACOLA, FL
FL PE 77945
TX PE 133174

PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WINDLOAD CONSTRUCTION DETAILS.

Wayne Dalton GARAGE DOORS

A DIVISION OF OVERHEAD DOOR CORP
3395 ADDISON DRIVE
PENSACOLA, FLORIDA 32514
(850) 474–9890

STATIC PRESSURE RATINGS	APPROVED SIZES	SCALE: N.T.S.		SIZE: A
DESIGN (PSF): +11.40/–12.70	MAX WIDTH: 16'–2"		DATE	NAME
TEST (PSF): +17.10/–19.05	MAX HEIGHT: 24'–1"	DRAWN	9/6/07	GRT
IMPACT/CYCLIC RATED (YES/NO): NO	MAX SECTION HEIGHT: 24"	CHECKED	4/11/08	MRB

MODEL TS 150/200/200–20

SHEET 2 OF 2

WINDLOAD SPECIFICATION OPTION CODE 2140

DRAWING PART NO. 332631

REV. D