

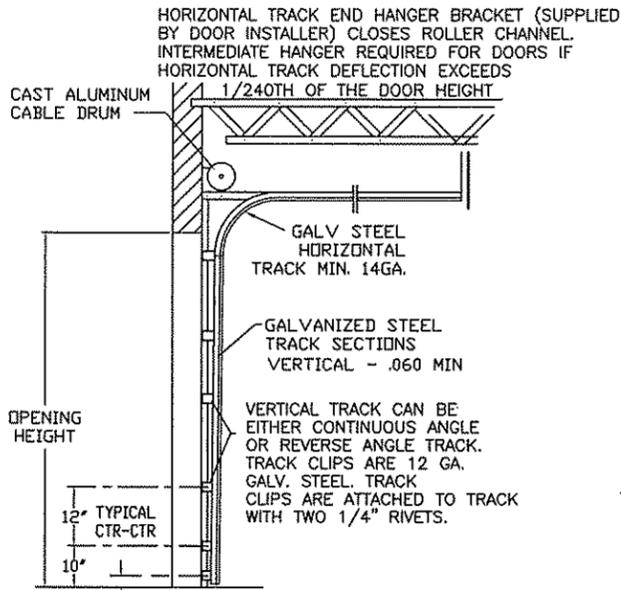
CLOPAY MODEL 902  
IDEAL MODEL C2AL

REVISIONS

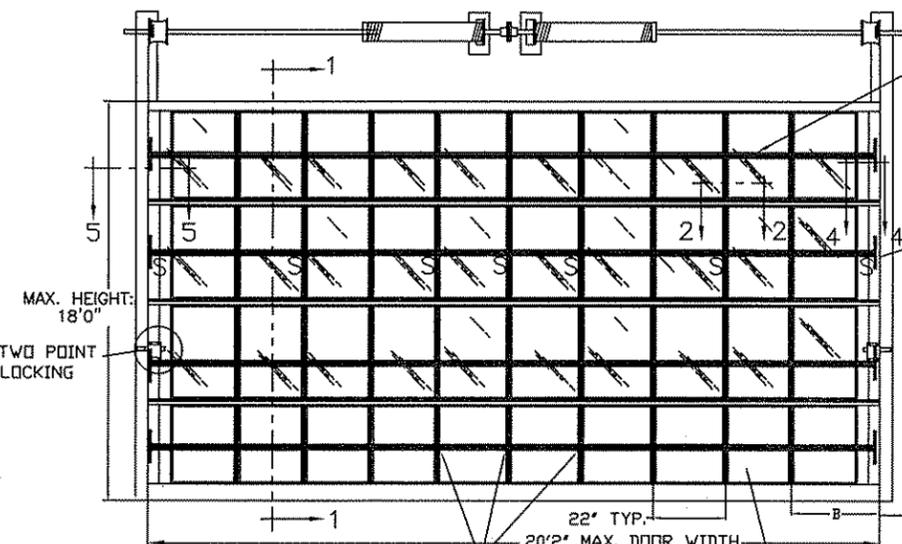
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
03	-	11/2008	-	SH	ADDED MPC.
04	-	02/2012	-	SH	UPDATED WINDCODE CHART
05	-	08/2012	-	SH	REVISED FOR TDI
06	-	06/2013	-	SH	REMOVED ACRYLIC GLAZING. SPECIFIED MAX GLAZING DIMENSION

DOOR HEIGHT 'A'	NUMBER OF SECTIONS
UP TO 8'-0"	4
8'-3" THRU 10'-0"	5
10'-3" THRU 12'-0"	6
12'-3" THRU 14'-0"	7
14'-3" THRU 16'-0"	8
16'-3" THRU 18'-0"	9

MAX. SECTION HEIGHT: 24"

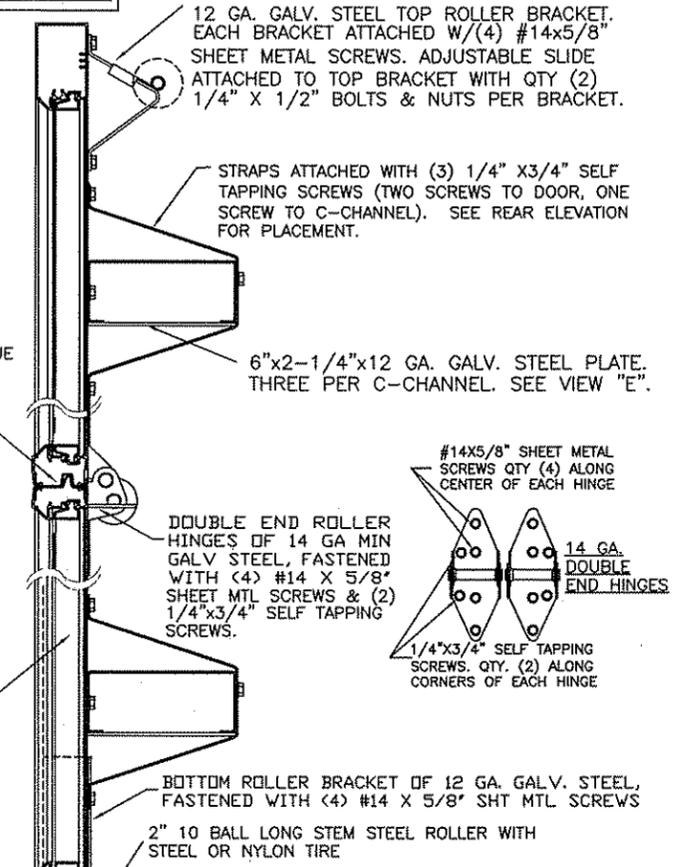


\*\*STANDARD-LIFT TRACK DETAILS\*\*



6" C-CHANNEL ONE PER SECTION VIEW "D"  
7 STRAPS PER SECTION AS SHOWN.  
NOTE CENTER STILES ALWAYS 22" FROM CENTER TO CENTER. FOR ANY GIVEN DOOR WIDTH. DIMENSION 'B' IS THE LEFTOVER DIMENSION ON BOTH ENDS OF THE DOOR. THIS DIMENSION WILL NOT BE GREATER THAN 33" OR LESS THAN 18"

SECTION 1 - 1



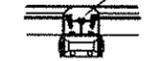
12 GA. GALV. STEEL TOP ROLLER BRACKET. EACH BRACKET ATTACHED W/(4) #14x5/8" SHEET METAL SCREWS. ADJUSTABLE SLIDE ATTACHED TO TOP BRACKET WITH QTY (2) 1/4" X 1/2" BOLTS & NUTS PER BRACKET.  
STRAPS ATTACHED WITH (3) 1/4" X3/4" SELF TAPPING SCREWS (TWO SCREWS TO DOOR, ONE SCREW TO C-CHANNEL). SEE REAR ELEVATION FOR PLACEMENT.  
6"x2-1/4"x12 GA. GALV. STEEL PLATE. THREE PER C-CHANNEL. SEE VIEW "E".  
DOUBLE END ROLLER HINGES OF 14 GA MIN GALV STEEL, FASTENED WITH (4) #14 X 5/8" SHEET MTL SCREWS & (2) 1/4"x3/4" SELF TAPPING SCREWS.  
14 GA. DOUBLE END HINGES  
1/4"x3/4" SELF TAPPING SCREWS. QTY. (2) ALONG CORNERS OF EACH HINGE  
BOTTOM ROLLER BRACKET OF 12 GA. GALV. STEEL, FASTENED WITH (4) #14 X 5/8" SHT MTL SCREWS  
2" 10 BALL LONG STEM STEEL ROLLER WITH STEEL OR NYLON TIRE

DOOR IS MADE OF 6063-T5 ALUMINUM EXTRUSIONS. WALL THICKNESS: TOP & BOTTOM RAILS .075 INTER. TOP & BOTTOM RAILS .075 TOP HAS .1 X 1.875" FIN INTER. TOP RAIL CAP .040 SINGLE & DOUBLE END STILES .075 CENTER STILES .062

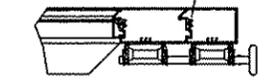
\*\*NOTE: DOUBLE TRACK LOW HEADROOM, HI-LIFT TRACK, FOLLOW-THE-ROOF TRACK, AND VERTICAL LIFT TRACK ARE AVAILABLE OPTIONS. 3" TRACK ALSO AVAILABLE.

CENTER STILES FASTENED TO RAILS WITH FULL LENGTH 5/16" ALUMINUM RODS AND FLANGE NUTS

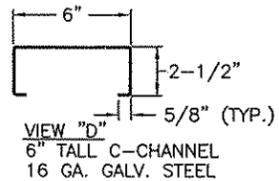
END STILES FASTENED TO RAILS WITH FULL LENGTH 5/16" ALUMINUM RODS AND FLANGE NUTS



SECTION 2 - 2  
COR-LOVLY CENTER HINGE OF 16 GA. GALV. STEEL, ATTACHED TO INTER. BOTTOM RAIL WITH (2) #14 X 5/8" SHT MTL SCREWS AND TO INTER. TOP RAIL WITH (2) 1/4 - 20 X 1/2" HEX HEAD MACHINE SCREWS & NUTS



SECTION 4 - 4  
REINFORCING FIN ON INTER. TOP RAILS ANGLE CUT AT END STILES



VIEW "D"  
6" TALL C-CHANNEL 16 GA. GALV. STEEL

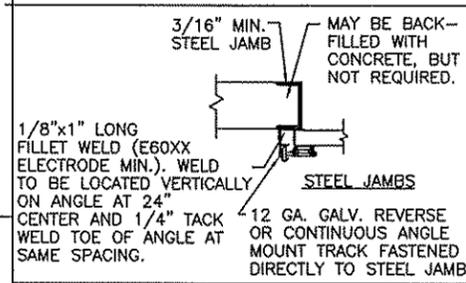
FULL-VISION SECTIONS TO BE 1/8" DSB GLASS HELD IN PLACE WITH SNAP-IN GLAZING BEAD AND HOT MELT.

BOTTOM SECTION REINFORCED WITH A TEMPERED ALUMINUM EXTRUSION WITH INTEGRAL RETAINER FOR FLEXIBLE VINYL ASTRAGAL

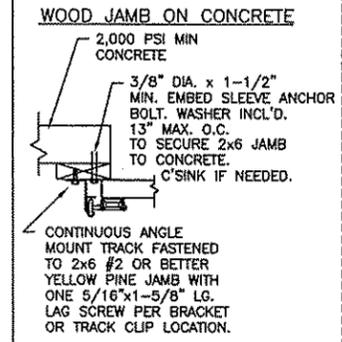
THE OPTIONAL GLAZING SHOWN ON THIS DRAWING MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (REFER TO CHAPTER 16 FBC / IBC).

THIS DOOR MEETS OR EXCEEDS THE DESIGN LOADS FOR THE WIND SPEEDS LISTED BELOW ACCORDING TO THE FLORIDA BLDG. CODE OR IBC (ASCE7) FOR THE FOLLOWING CONDITIONS: 1) ENCLOSED BUILDING, 2) DOOR HAS 2' OF WIDTH IN BUILDING'S END ZONE, 3) IMPORTANCE FACTOR OF 1.0, 4) ROOF SLOPE LESS THAN 10°, AND 5) 50% SAFETY FACTOR.

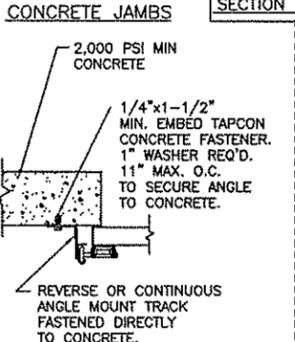
WIND SPEED (MPH)	≤ 120	130	130	140
EXPOSURE LEVEL	B or C	B	C	B
MEAN ROOF HEIGHT	30'	30'	N/A	30'



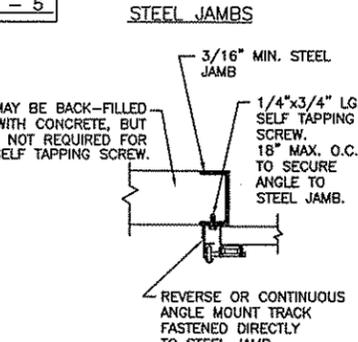
1/8"x1" LONG FILLET WELD (E60XX ELECTRODE MIN.). WELD TO BE LOCATED VERTICALLY ON ANGLE AT 24° CENTER AND 1/4" TACK WELD TOE OF ANGLE AT SAME SPACING.  
12 GA. GALV. REVERSE OR CONTINUOUS ANGLE MOUNT TRACK FASTENED DIRECTLY TO STEEL JAMB



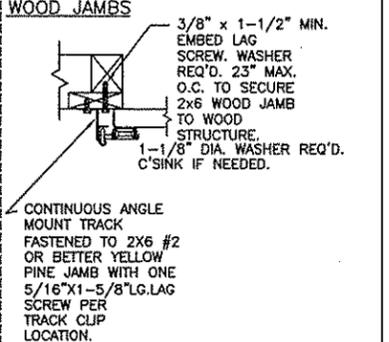
WOOD JAMB ON CONCRETE  
2,000 PSI MIN CONCRETE  
3/8" DIA. X 1-1/2" MIN. EMBED SLEEVE ANCHOR BOLT. WASHER INCL'D. 13" MAX. O.C. TO SECURE 2x6 JAMB TO CONCRETE. C'SINK IF NEEDED.  
CONTINUOUS ANGLE MOUNT TRACK FASTENED TO 2x6 #2 OR BETTER YELLOW PINE JAMB WITH ONE 5/16"x1-5/8" LG. LAG SCREW PER BRACKET OR TRACK CLIP LOCATION.



CONCRETE JAMBS  
2,000 PSI MIN CONCRETE  
1/4"x1-1/2" MIN. EMBED TAPCON CONCRETE FASTENER. 1" WASHER REQ'D. 11" MAX. O.C. TO SECURE ANGLE TO CONCRETE.  
REVERSE OR CONTINUOUS ANGLE MOUNT TRACK FASTENED DIRECTLY TO CONCRETE.



STEEL JAMBS  
3/16" MIN. STEEL JAMB  
1/4"x3/4" LG. SELF TAPPING SCREW. 18" MAX. O.C. TO SECURE ANGLE TO STEEL JAMB.  
MAY BE BACK-FILLED WITH CONCRETE, BUT NOT REQUIRED FOR SELF TAPPING SCREW.  
REVERSE OR CONTINUOUS ANGLE MOUNT TRACK FASTENED DIRECTLY TO STEEL JAMB.



WOOD JAMBS  
3/8" X 1-1/2" MIN. EMBED LAG SCREW. WASHER REQ'D. 23" MAX. O.C. TO SECURE 2x6 WOOD JAMB TO WOOD STRUCTURE.  
1-1/8" DIA. WASHER REQ'D. C'SINK IF NEEDED.  
CONTINUOUS ANGLE MOUNT TRACK FASTENED TO 2x6 #2 OR BETTER YELLOW PINE JAMB WITH ONE 5/16"x1-5/8" LG. LAG SCREW PER TRACK CLIP LOCATION.

THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS IS THE RESPONSIBILITY OF THE BUILDING ENGINEER OR ARCHITECT OF RECORD.

6/12/13  
MARK H. WESTERFIELD  
DESIGN ENGINEER  
CLOPAY CORP. ALL RIGHTS RESERVED  
TOLERANCES are  
W.O. = ±.031  
1/16" = ±.015  
1/32" = ±.005  
1/64" = ±.001  
Degrees = ±1/2"  
Unless Stated Otherwise DIMENSIONS ARE IN INCHES.

DESIGN ENGINEER: MARK WESTERFIELD, P.E.  
FLORIDA P.E. #48495, NC P.E. #23832, TEXAS P.E. #91513  
DESIGN LOADS: +30 & -30 P.S.F.  
TEST LOADS +45 & -45 P.S.F.



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MANUFACTURING PRODUCT CODE:  
MPC: C-AL-1F499

CLOPAY WINDLOAD RATING  
W5

DESCRIPTION: M/N 902, C2AL 20'2" WIDE DES. +30/-30 PSF	SCALE: NONE	DWG. B
DRAWN BY: RJK	DATE: 3/24/04	SHEET 1 OF 1
CHECKED BY: MWW	DATE: 4/1/04	VER: IBC
DWG. NO.: 103296		