

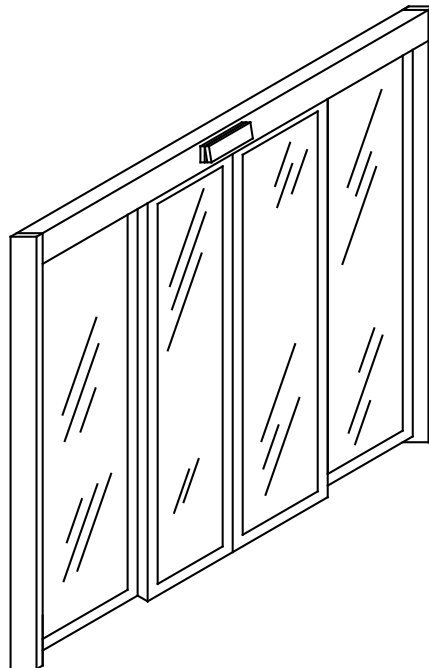


# Automatic Entrance Systems

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## Model 1175 (H60-Narrow) Hurricane Sliding Door System

**\*\*Dade County Approved\*\***



### **WARNING**

- Turn OFF all power to the Automatic Door if a Safety System is not working.
- Instruct the Owner to keep power turned OFF until corrective action can be achieved by a NABCO trained technician. Failure to follow these practices may result in serious consequences.
- NEVER leave a Door operating without all Safety detection systems operational.

**WARNING:**

**Do not install, operate or service this product unless you have read and understand the Safety Practices, Warnings, Installation and Operating Instructions contained in this manual. Failure to do so may result in property damage or personal injury.**

**WARNING:**

**Turn OFF all power to the Automatic Door if a Safety System is not working.**

**Instruct the Owner to keep all power turned OFF until corrective action can be achieved by a NABCO trained technician. Failure to follow these practices may result in serious consequences**

**NEVER leave a Door operating without all Safety detection systems operational.**

**CAUTION:**

Read these safety practices before installing, operating or servicing the sliding door. Failure to follow these practices may result in serious consequences.

Read, study and understand the operating instructions contained in or referenced in this manual before operating the sliding door. If you do not understand the instructions, ask the installing qualified technician to teach you how to use the sliding door.

This manual and the owners' manual must be given to and retained by the purchasing facility or end user.

1. If the door appears broken or does not seem to work correctly, it should be immediately removed from service and a qualified technician contacted for corrective action.
2. Disconnect power at the fused disconnect during all electrical or mechanical service. When uncertain whether power supply is disconnected, always verify using voltmeter.
3. All electrical troubleshooting or service must be performed by qualified electrical technicians and must comply with all applicable governing agency codes.
4. It is the responsibility of the installing door technician to install all warning and instructional labels in accordance with ANSI A156.10.
5. It is the responsibility of the purchasing facility or end user to keep warning instructional labels and literature legible, intact, and with the door.
6. Replacement labels and literature may be obtained from local NABCO Entrances, Inc. distributors. If the name of the local distributor is unknown, contact NABCO Entrances, Inc. at (877-622-2694) for assistance.
7. Do not place fingers or uninsulated tools inside the electrical control box. Touching wires or other parts inside the enclosure may cause electrical shock, serious injury or death.



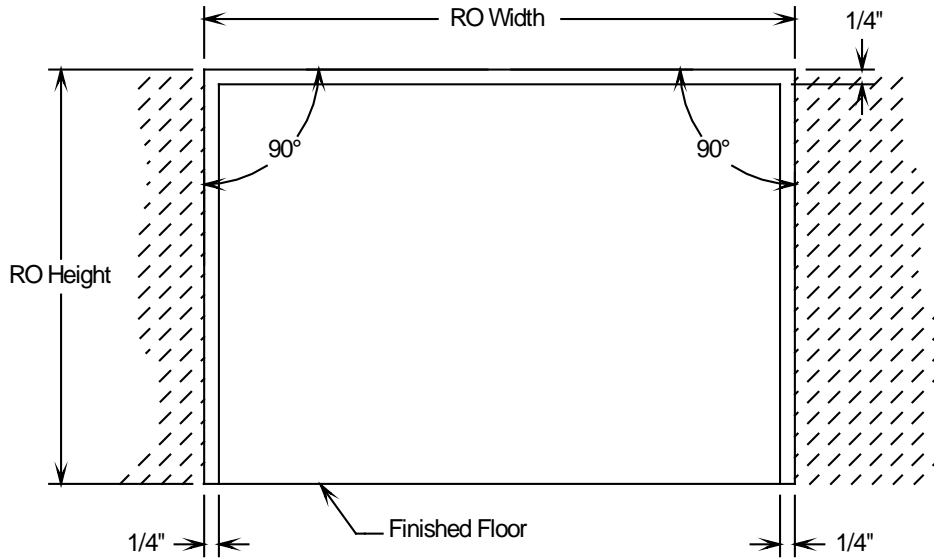
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TOOL LIST	
<p>½" Wrench: Box or Open End (2 required)                      15/16" Open End Wrench                      3/8" Drive Socket Wrench                      7/16" Socket                      6" Socket Extension                      Allen Wrenches 3/32", 1/8", 3/16"                      Phillips Screwdrivers: #2 and #3                      Slotted Screwdriver: Large</p>	<p>Hand Drill: Electric or Cordless                      Drill: 1/8"                      7/32"                      ¼" Masonry                      3/8" by 82 Deg. Countersink                      Level: (Laser Type Preferred)                      Tape Measure                      Broom</p>

### A. Rough Opening (RO) Preparation

1. Check floor across entire opening. Make sure installation area is level and clear of debris.
2. RO height should be door height plus 1/4" per side. (Allow for tile or other materials that may change floor height.)
3. RO width should be total door width plus 1/4" per side. (See Figure 1)



**Figure 1:** Rough Opening Preparation

## B. Framing and Header Installation

1. Place header on a flat surface with removable cover facing up. Protect the header from scratches.
2. Remove two screws from the bottom of the cover. Remove the cover. (See Figure 2) Remove parts box from header and set aside.
3. Position the jamb tubes on each end of the header. Fasten with the provided 1/4-20 x 1 inch bolts into rivnuts in jambs. (See Figure 3) Refer to label on jamb for proper location.

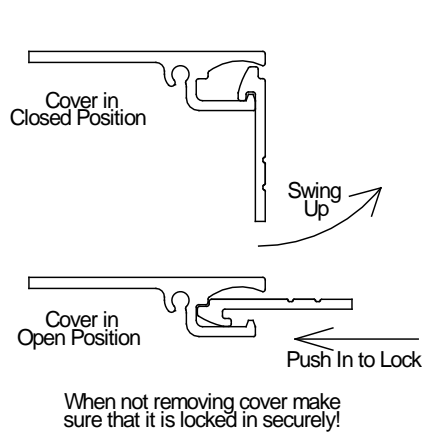


Figure 2

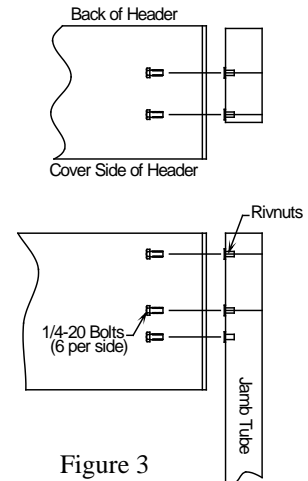


Figure 3

### **CAUTION:**

When installing header, keep unprotected pedestrians out of the area below the header until it is secured to the building. Failure to do so may result in property damage or personal injury.

4. Lift header and jamb tubes into position.

Note: Unless it was a specially ordered unit, the cover on the fixed sidelite units with wall track is on the exterior. On a Full Open unit it is on the interior.

5. Level the header assembly by shimming under the appropriate jamb if necessary.
6. Plumb one jamb tube in both planes. If required, shim the back of the jamb. (See Figure 4)
7. When installing this unit it is important to be in compliance with Dade County Hurricane specifications for fastening the header and jambs to the building as specified on the prints in the Appendix.
8. Plumb and securely fasten the other jamb.
9. Reinstall cover. Install the Handy terminal bracket under the mounting bolt. (See Figure 5) It should

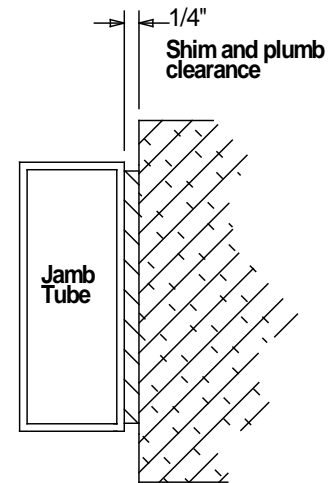


Figure 4

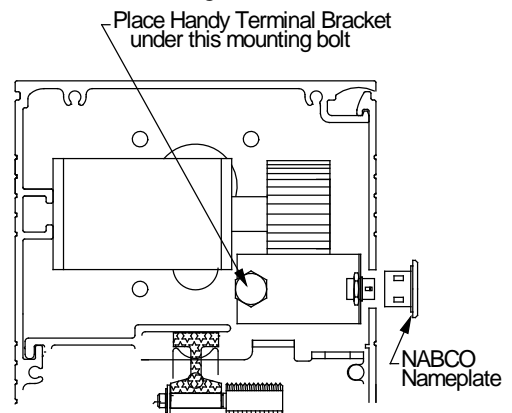


Figure 5

align with the pryout plug on the NABCO nameplate.

**C. Installation of Track**

(Full Open Units ONLY)

1. Snap a chalk line on the floor from jamb to jamb (See Figure 7) on the interior side of the building. Note the dimensions shown are for a Full Open.
2. Floor track is factory cut. Contact NABCO ENTRANCES customer service at (877) 622-2694 to order new track.
3. There will be two pieces of threshold for a Bi-Part and one piece of threshold for a Single. Both units will come with a Bolt Lock Plate that will be installed under the nose of the door panel(s). The Bi-Part configuration is shown in figure 8.
4. Locate track flush with the chalk line. Check floor track location with plumb bob from the header. It should be 1/8" inset from the header. (See Figure 9)
5. Prior to installation the floor track will need to be drilled in compliance with Dade County Hurricane specifications for fastening the threshold as specified on the prints in the Appendix.
6. Using the drilled floor track mark the location of the track holes onto the floor. Drill the holes using a 3/16-inch masonry bit. Fasten the track to the floor using 1/4" x 2 3/4" ITW Buildex PFH Tapcons with a minimum of 1 3/4" embedment in 3500 psi concrete.

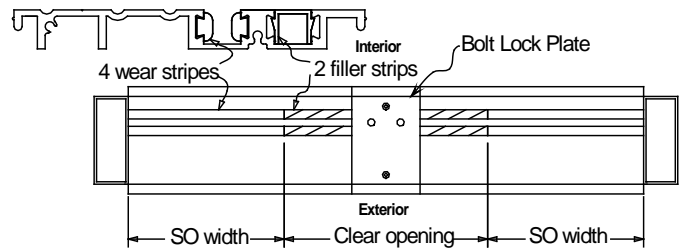
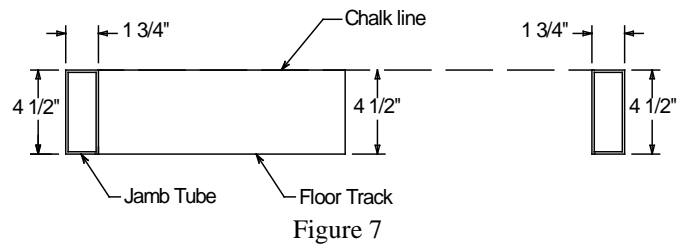
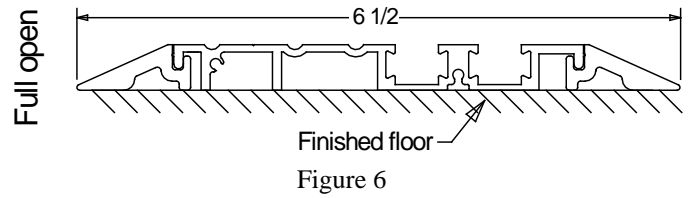


Figure 8

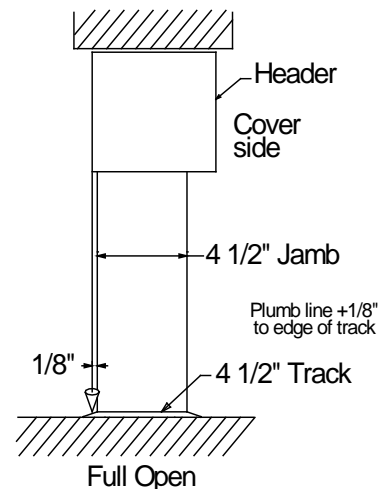


Figure 9

## D. Glass Handling and Installation

### CAUTION:

Use caution when moving and installing the glass panels. These panels are constructed with tempered glass. Any sharp objects that come in contact with the glass may cause the glass to craze. NABCO Entrances, Inc. is not responsible for broken glass.

1. When glazing the unit the use of a qualified glazer is required.
2. Be sure that the area surrounding the glass installation is free of debris and any sharp objects that could contaminate the glazing process or damage the glass.
3. The use of approved glazing materials is required. (See Figure 10)

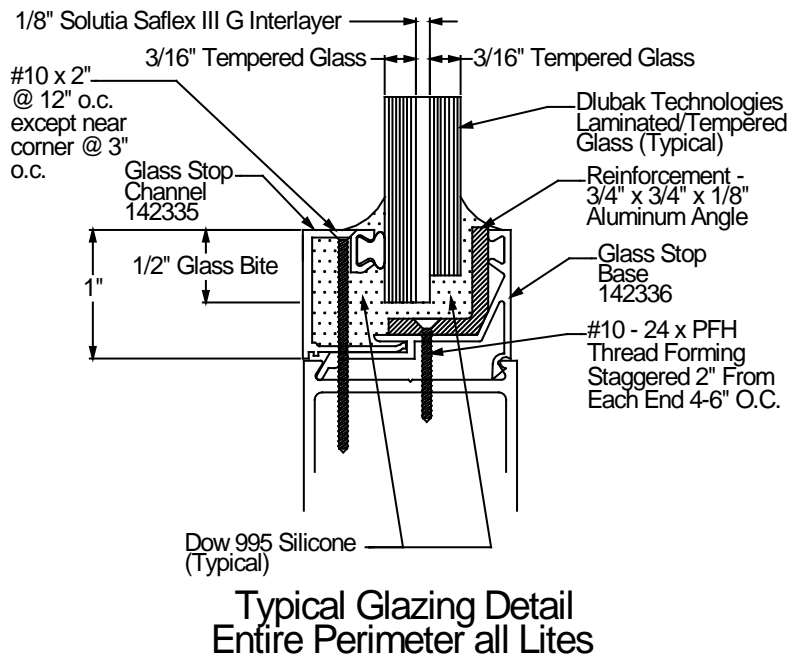


Figure 10



**E. Installation of Swing Panel**

1. Locate the swing panel pivot in the parts box.
2. Install the pivot into the jamb by rotating it into the cutout in the jamb and fastening it with a 1/4"-20 x 3/4 inch screw.  
 (See Figure 11)
3. Drill thru the barrel of the pivot and into the track with a 7/32" bit.
4. Install the self-tapping 1/4"-20 x 1 inch screw down the barrel of the pivot and into the track.
5. Install the nylon guide into the barrel of the pivot.
6. Locate the swing panel. It will have the ball detent at the top and bottom of the nose stile.
7. (Full Open Units Only) Remove the control panel switch assembly from the panel. (See Figure 12) Save the screws for reinstallation. Optional key switches with the same functions are available from customer service. Descriptions of switch functions are described in Chart 1.

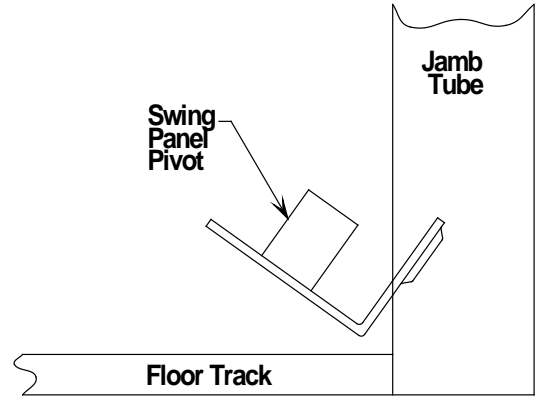


Figure 11

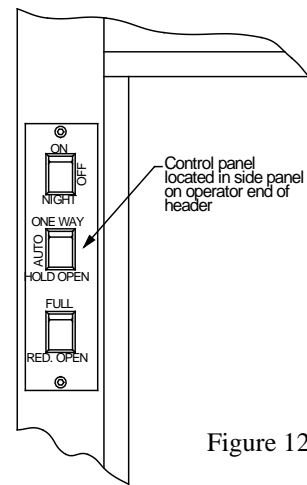


Figure 12

Control Panel Switches	Option	Function
Top	1. ON 2. Off 3. Night	1. Turns the unit on. 2. Turns the unit off. 3. Limits access to the door by turning off the sensors on the door but allowing the door to be accessed by a push plate, card reader or other source.
Middle	1. One way 2. Auto 3. Hold Open	1. Sets the door to open in only one direction. (Entrance or Exit) 2. Sets the door to open in both directions. (Entrance and Exit) 3. Sets the door to open and remain open.
Bottom	1. Full Open 2. Reduced Open	1. Sets the door to fully open. 2. Sets the door so that it does not open completely.

8. (Full Open Units Only) There are about 4 feet of cable inside the header for the control panel harness. Withdraw a sufficient amount of the harness to reach the control panel switches on the swing panel.
9. (Full Open Units Only) Route the control panel wiring harness from the header past the swing panel top pivot.  
 (See Figures 13)

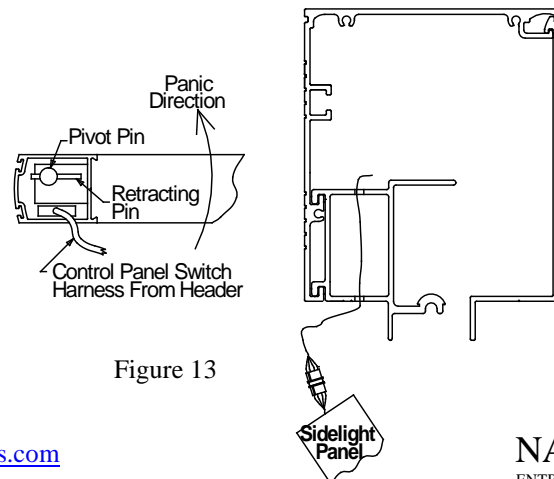


Figure 13

### E. Installation of Swing Panel (Continued)

10. Position swing panel over bottom pivot.  
Note the panic direction and pivot location in Figure 13.
11. Retract the top pivot by pushing the pin down and aligning with the hole in the header.
12. Allow the pivot pin to snap into the hole. Make sure it fully engages the hole. If necessary, lift up on the retracting pin with a screwdriver.
13. (Full Open Unit Only) Pull the control panel wiring harness through the switch cutout in the stile. Connect the switch panel and reinstall with the screws retained earlier.
14. Assemble the limit arm. (See Figure 14) Rest the wheel of the limit arm inside the upper rail of the swing panel. Install the red-coated screw into the factory-drilled hole on the bottom of the header. Use one or two large washers as required.
15. Open and close the swing panel several times, while lifting on the flush bolt handle enough to make contact with the header and the floor track, to score both surfaces. (See Figure 15)
16. Locate the point where the score marks intersect the first centering groove on the bottom of the header (closest to the outside of the header) and the only groove on the floor track. Drill a 17/32" hole. (See Figure 16)

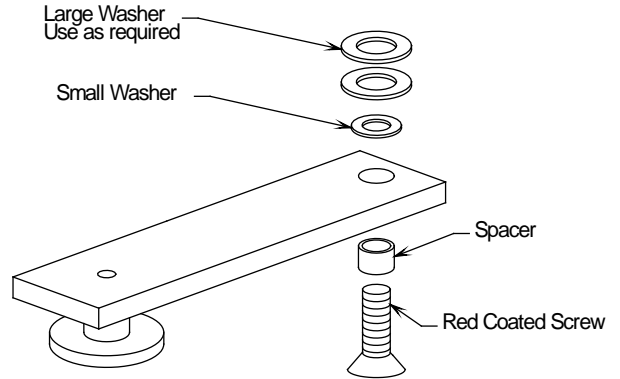


Figure 14

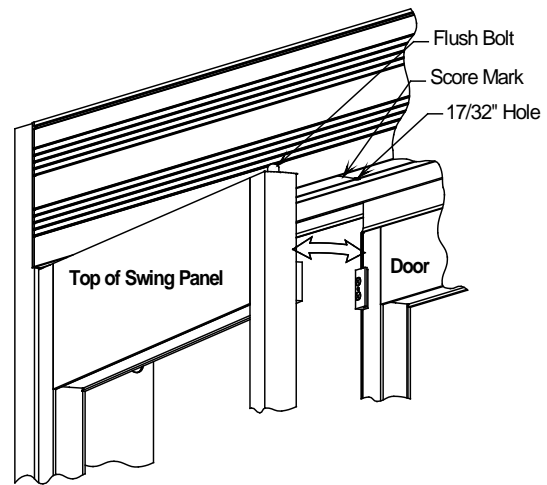


Figure 15

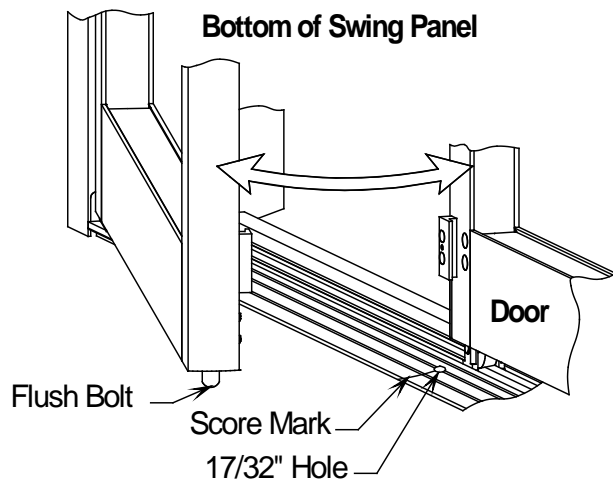


Figure 16

## F. Installation of Fixed Panel (Fixed S/L units only.)

1. Remove Control Panel Switch Assembly from the panel. (See Figure 12) Save screws for use during installation of the panel.
2. There is approximately four feet of cable secured inside the header for the control panel harness. Withdraw a sufficient amount of the harness to reach the control panel switches on the fixed panel.
3. Locate the fixed panel near the jamb tube. Route the control panel harness from the bottom of the header through the top of the rear stile and through the access cutout.
4. Connect the power down harness near the front edge of the panel to the 2 yellow wire harness from the header. Push the excess harness back into the header or hide it in the top rail of the sidelight.
5. Align the back end of the fixed panel with the brackets on the jamb tube. Ensure that no wires are pinched. (See Figure 17)
6. Position panel on to brackets and fasten with the provided screws.
7. Remove the bottom guide cavity cover from the bottom of the stile. Save the screws for use during the later steps of panel installation.
8. Install floor bracket into panel with the color coordinated  $\frac{1}{4}$ -20 x  $\frac{1}{2}$  inch screw. Plumb panel and mark holes on the floor. Drill holes with masonry bit and fasten the bracket to the floor. (See Figure 18)

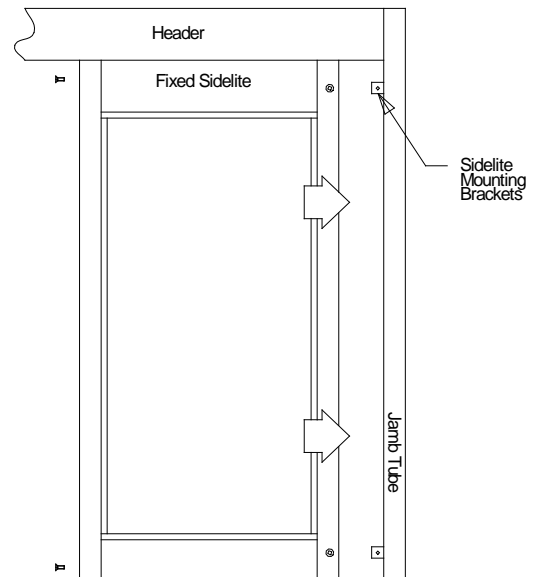


Figure 17

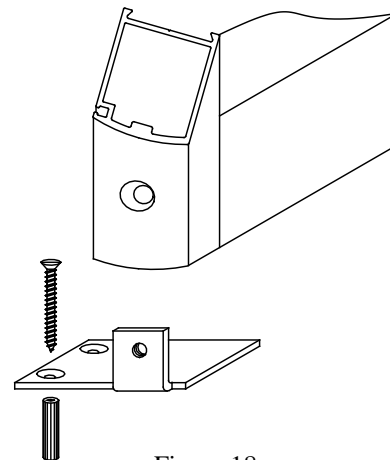
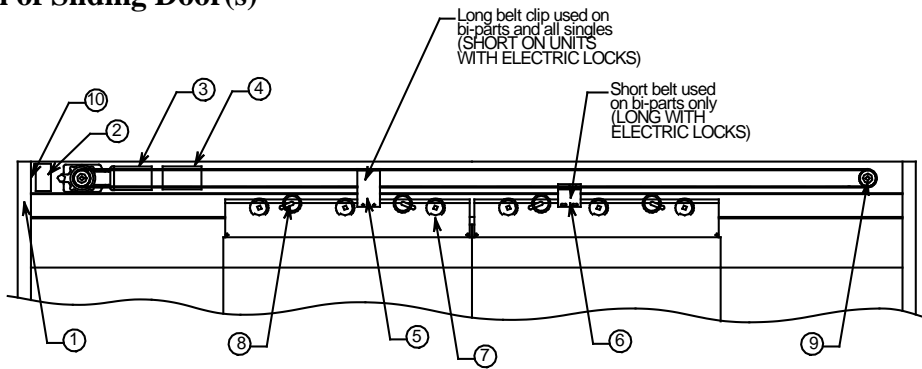


Figure 18

**G. Installation of Sliding Door(s)**



- |                         |                              |
|-------------------------|------------------------------|
| 1. Jamb Tube            | 6. Belt Clip (Lower)         |
| 2. Power Cut Off Switch | 7. Roller                    |
| 3. Operator             | 8. Anti-riser                |
| 4. Control              | 9. Idler                     |
| 5. Belt Clip (Upper)    | 10. Handv Terminal Connector |

Figure 19

1. Loosen the hanger roller and anti-riser nuts with a 15/16-inch wrench. (See Figure 20)
2. Lift door onto track. Slightly tilting the door approach angle may be necessary to allow rollers to catch the track. (See Figure 21)

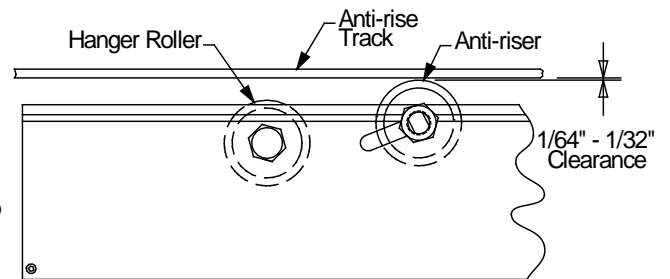


Figure 20

Note: If system is a Full Open unit, it will be necessary to pry up on the bottom guide on the back corner of the door to allow the door to enter the floor track.

**CAUTION:**  
Do not panic door until all adjustments are made and the doors are secured.

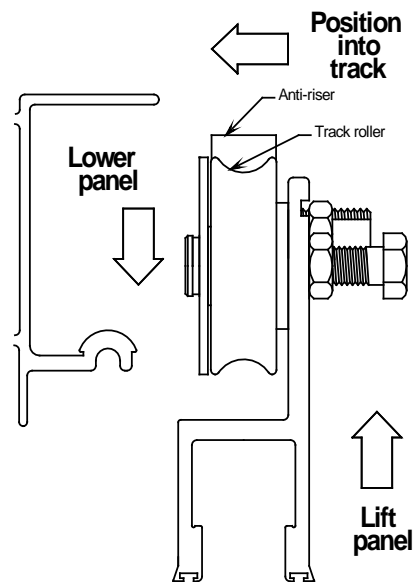


Figure 21

## H. Adjustment of Door

1. Door height from finished floor is adjustable from  $11/64$  inch to  $29/64$  inch. (See Figure 22)
2. Place a  $15/16$ -inch wrench on the nut of the roller. With another  $15/16$ -inch open-end wrench, rotate the bolt clockwise to raise or lower the door.

Note: Do not rotate the bolt counter clockwise, as this would unthread the bolt from the roller.

3. Still holding the bolt head, secure the nut against the door carrier. Repeat this process on the remaining rollers.
4. The leading edge of the doors should meet with no gap between the opposite door (or jamb tube in the case of a single unit) at the top or bottom. If necessary, adjust the height and angle of the doors according to Step 2.
5. Slide the anti-risers up in the slot until there is a  $1/64$ -inch to  $1/32$ -inch gap between anti-riser wheel and anti-riser track. Tighten the nut on the anti-rise wheel.
6. Attach belt clips(s) using the  $\#12 \times 3/4$  inch self-drilling/self tapping screws. Starter mounting holes have been pre-drilled in the door carrier. The belt clips should be installed toward the leading edge of the doors. (See Figure 23)
7. Adjust the doorstop so there is a  $3/8$ -inch gap from the face of the sidelight or swing panel. (See Figure 24) In some cases, the doorstop will be mounted on the jamb tube.

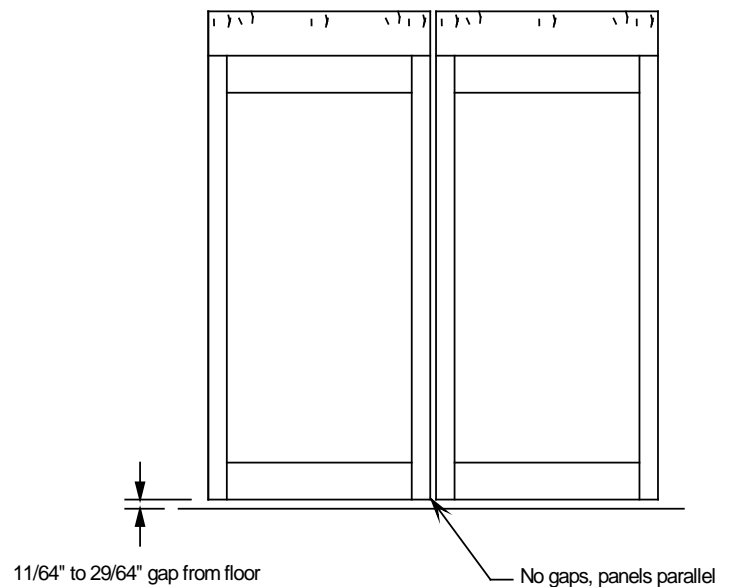


Figure 22

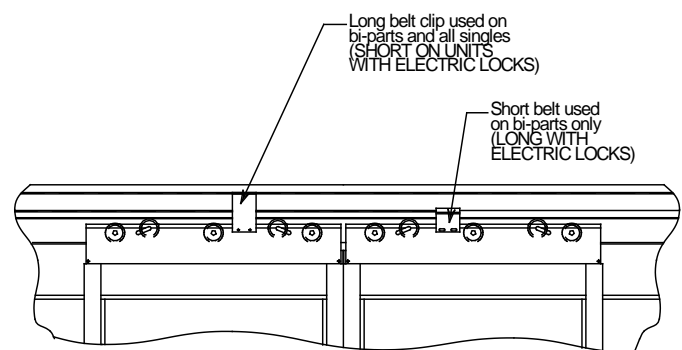


Figure 23

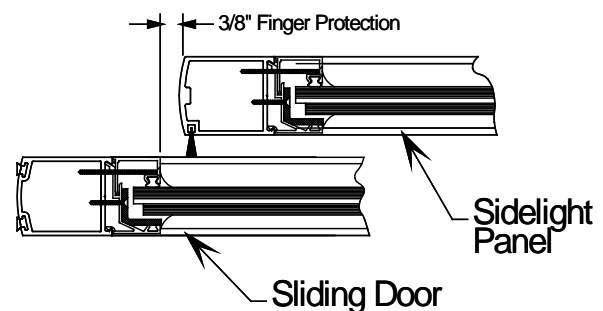


Figure 24

### I. Adjusting Door Preload

**(Glass must be installed before adjusting preload.)**

1. Panic the door open to check door sag. (See Figure 25)
2. Loosen the two locking bolts on the block inside the top rail of the door. (See Figure 26)
3. Adjust door sag by rotating the setscrew on the back edge of the door with a 1/8-inch allen wrench. The door should latch without having to adjust the panel. A longer setscrew is provided in the parts box if required.
4. Retighten locking bolts.

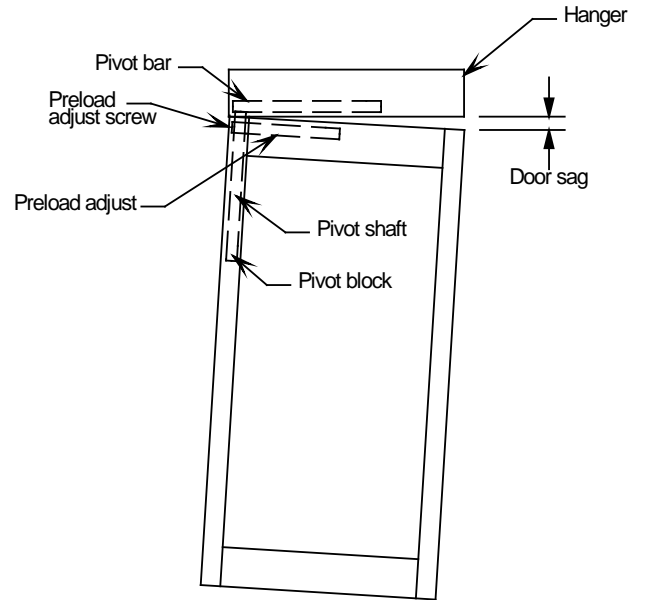


Figure 25

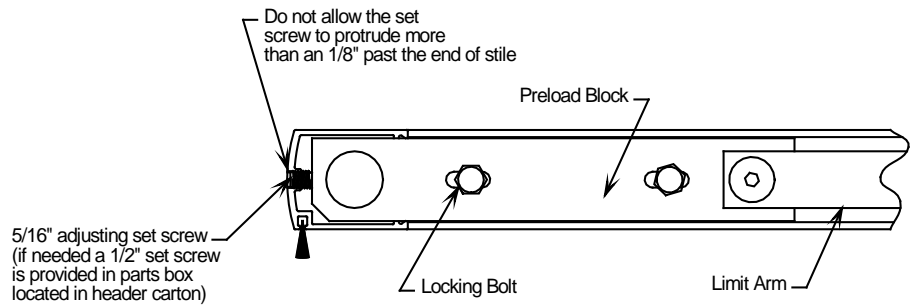


Figure 26

## J. Adjustment of Interlocks (Full Open and Pocketed)

1. Manually close the door(s). If the interlocks prevent the door(s) from closing, it will be necessary to move them outward and shim (See Figure 27) behind them.
2. Panic the door open to access the interlocks.
3. Loosen the mounting screws and slide the interlocks closer to the edges of the stile. Slide shims under the interlocks as needed to ensure proper engagement. (See Figure 28a & 28b) It may be necessary to remove some brush from the backside of the interlock with a pair of scissors.
4. When the interlock position is correct, drill a 1/8-inch hole through the interlock and into the stile. Pound a roll pin from the parts box into each hole to lock the interlock in place.

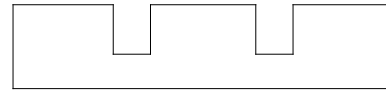


Figure 27

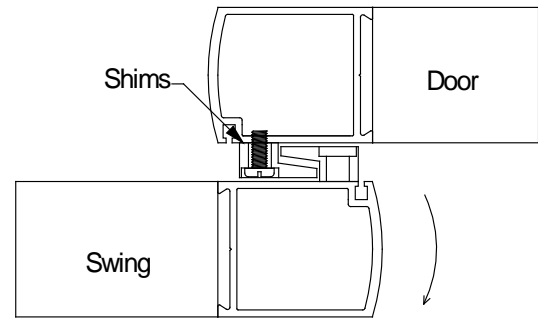


Figure 28a

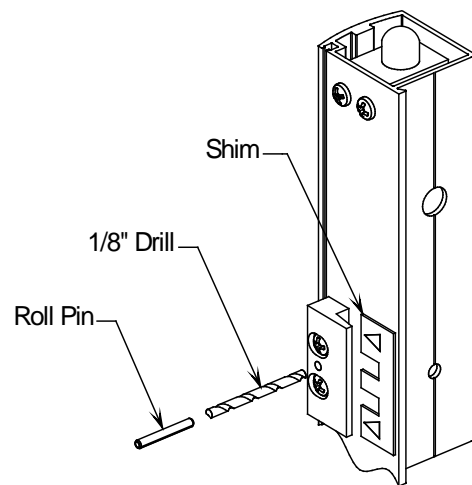


Figure 28b

### K. Installation of Bottom Guide (Fixed Sidelight Only)

1. Locate the bottom guide assembly in the parts box. (See Figure 29)

Note: There is a right hand and left hand bottom guide that will correspond to a right and left door.

2. Panic the door open. Attach the bottom guide, by using the two 1/4-20 x 1 inch hex head bolts and two star washers, to the pivot stile. (See Figure 30)
3. Rotate the bottom guide, one roller at a time, into the cavity on the bottom of the fixed sidelight. Replace the bottom guide cavity cover removed in section F.

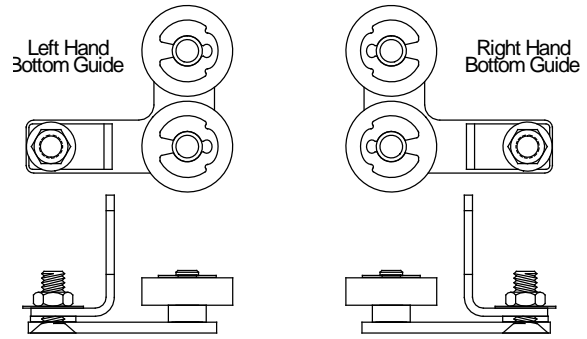


Figure 29

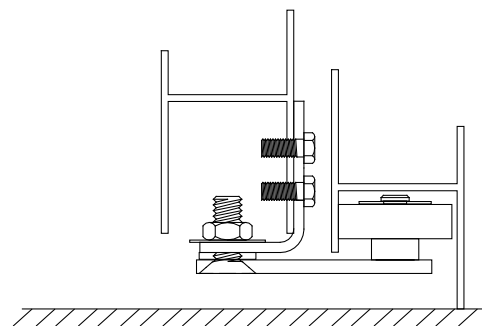
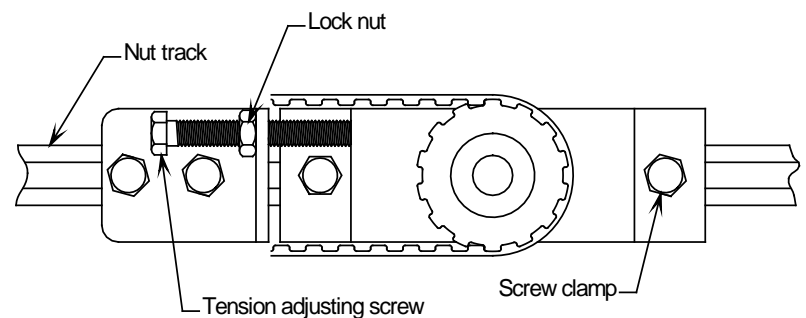


Figure 30

### L. Adjusting Belt Tension

Note: Belt tension is factory set and should not require any adjustment except for unusual circumstances in header mounting or component adjustment.

1. Loosen the mounting nuts on the idler bracket. (See Figure 31)
2. Loosen the lock nut on the tension adjustment screw. Turn the tension adjustment screw to tighten or loosen the belt. The screw should push the idler bracket in the header. If the idler bracket does not move, loosen the two mounting nuts a few more turns.
3. Tension the belt so it is to approximately the same tension as received from the factory. It should not be so taut that it bends the drive or idler shafts! Tighten the lock nut on the adjustment screw against the bracket a secure the mounting nuts.



Belt tension is factory set and should not need adjustment

**DO NOT OVERTIGHTEN BELT**

Figure 31



## M. Belt Alignment

Note: The alignment of the belt is factory-set. Flanges on the pulleys will compensate for minor misalignments and keep the belt on the pulleys. If the belt does come off the pulleys, the alignment of the shafts as well as other installed hardware should be checked.

## N. Installation of Bottom Sweep Vinyl

1. Slide the brush into the weathering extrusions. The excess vinyl should hang out the end of the holder at the rear of the door.
2. Locate the “L” shaped weathering on the outside of the door along the bottom edge with the vinyl located under the door. (See Figure 32) The edge of the extrusion should start just at the curve of the front edge of the door. Mark the three slots of the extrusion on the door. Drill three 1/8 inch mounting holes.
3. Mount the weathering on the door face using #6 x 1/2 inch self-tapping screws from parts box.
4. **(Full Open Units Only)** Locate the straight extrusions on the outside face of the swing panel. The shorter vinyl (1/4” tall) should be installed in the swing panel extrusion. There should not be any excess vinyl on this weathering. Mark the mounting holes and install the panel weathering in the same manner as the door weathering.

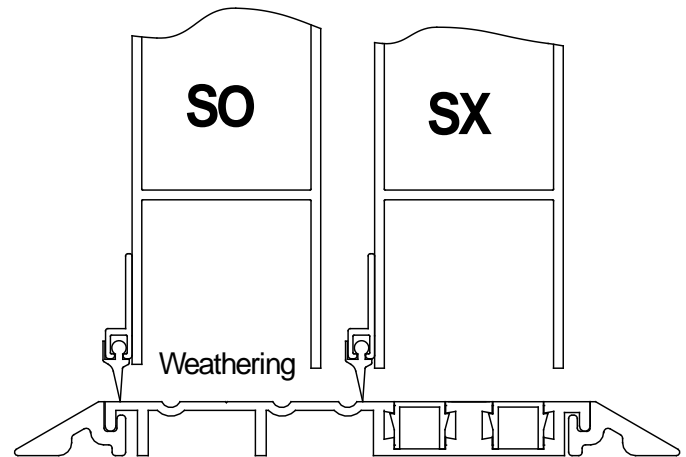


Figure 32

## O. Door Panic Adjustment and Verification of Breakout Magnet Installation

Note: The panic adjustment should be made after the glass is installed. The weight of the door with the glass will affect the amount of force required to panic the door open. If the force required to panic the door is not acceptable, it can be adjusted by performing the following steps.

1. Panic the door open. This may require a slight lifting force to the door or a slight hit with a rubber mallet to the top rail approximately three inches from the nose of the door. Protect the surface of the door to prevent damage.
2. Remove the panic block in the top of the door. (See Figure 33)
3. Loosen the setscrew on the front of the block.
4. Raise or lower the ball plunger with the screw on the underside of the block.

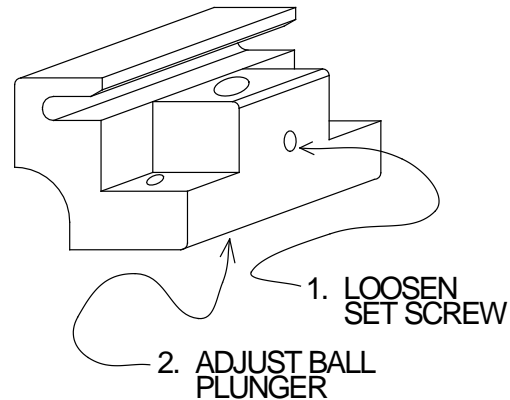


Figure 33

- Adjust the ball plunger for proper breakout resistance to meet ANSI A156.10 or local code.
5. Retighten the setscrew and reinstall into the door. Repeat if necessary.
6. On a full open unit the magnet is located inside the top rail of the swing panel. (See Figure 34) It should line up with the magnetic reed switch, is a 3/8" dia. black circle on the bottom of the header.
7. On fixed sidelights, the magnet is installed inside the top rail of the door. Place a steel washer on the interior side of the rail to confirm it is installed. The magnetic reed switch is installed about eye level in the leading stile of the sidelight facing towards the door. (See Figure 35)

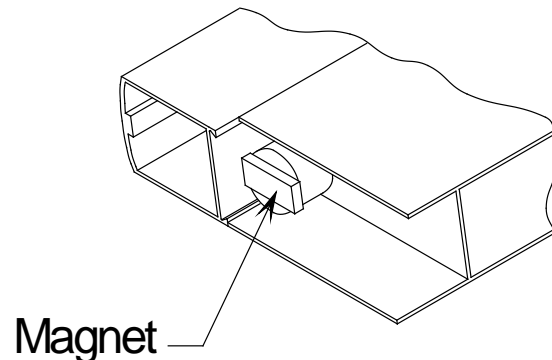


Figure 34

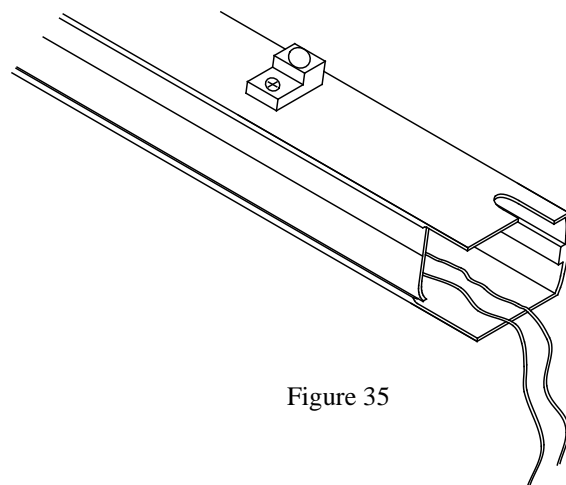


Figure 35

## P. Mounting of Accusensors

Note: Two identical Accusensors have been provided with your door package. (4 if the door opening is greater than 72 inches). The header was wired from the factory so that the *activation* circuitry on the exterior Accusensor is turned off in One Way Traffic Mode (the safety circuitry remains active and can not be turned off). The exterior Accusensor is located on the side of the header in the direction of panic or panel breakout. This can be easily reversed in the field by swapping the connectors where each Accusensor plugs into the main harness.

1. Locate the two individual Accusensors that were provided inside the header. The drilling template can be discarded.
2. Carefully pry off the cover of either Accusensor. Plug the connector from the header through the access hole in the Accusensor and into the connector on the Accusensor.
3. Use the screws provided inside the Accusensor (in the screw holes) to mount the Accusensor in the pre-drilled holes. (See Figure 36)
4. Re-install the cover and snap it into place. If it does not snap into place, the Accusensor has been mounted on to tightly. Back off on the mounting screws slightly and try again. If it is not properly secured, the cover may loosen due to vibration or wind gusts.
5. Repeat for the other Accusensor on the other side of the header.
6. To reverse the One Way Traffic Mode, locate the connectors mating the Accusensor Harnesses to the control box harness. They will be located under the plastic wire cover in the header. Swap the two connectors and re-secure the plastic wire cover.

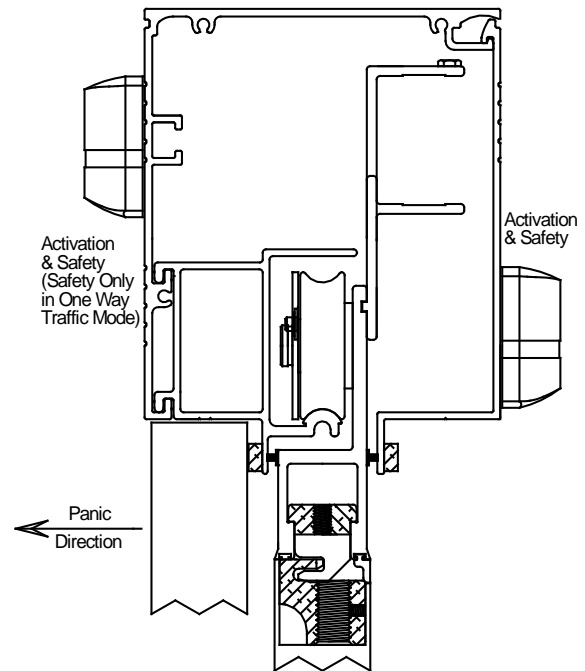


Figure 36

## Q. Typical Slider Wiring

Wiring diagrams are included in the back of the manual, which reflect the typical primary and secondary circuits installed at the factory. The low voltage (12VDC) reed switch (panic breakaway) and Accusensor are easily connected on site using factory-installed connector housings. The factory uses Underwriters Laboratories' (UL) Recognized Component wire, terminals and connector housings to manufacture the slider. Contact the Customer Service Department for assistance with special applications.

## R. Microprocessor Controller

The Microprocessor Controller has been designed to control the numerous operating characteristics of the slide door system including speed, recycling, and door opening width. It will need to be programmed after the installation is complete. (*See the Microprocessor Manual 159000 for more details.*)

## S. Holding Beams (optional)

The holding beams are flush mounted in doorframes, facing each other. A pulsed, infrared light beam is continuously transmitted across the door opening. Interruption of the beam causes a relay switch closure. This signal will travel back to the microprocessor controller causing the doors to open and remain open until the object or person is out of the way. A wiring diagram is included in the back of this manual.

## T. Electric Lock (optional)

Electric locks are available in two configurations: fail-safe and fail secure. These locks will prevent someone from opening the doors until an activation signal is applied to the electric lock. This signal could be from a remote switch, transmitter, or activation device on the face of the door.

Fail-safe will allow the door to manually slide open if the power to the door unit is interrupted. Fail secure will not permit the door to be manually opened if power is interrupted. Fail secure cannot be opened until the power is restored and the lock receives an activation signal. Neither type of electric lock will inhibit the panic breakout.

Each electric lock is factory installed and wired into the control box. (See Figure 37) The only adjustments required are minor horizontal alignments of the electric lock bolt with the trailing edge of the belt clip. Horizontal adjustment is made by moving the electric lock assembly along the nut track inside the header. With the door in the closed position, move the electric lock until the bolt comes in contact with the belt clip. The less door travel with the door in this position the better. Secure mounting and adjustment screws and re-check the bolt and door travel. It is also a good idea to check the rigidity of the transformer mounting. Shipping vibrations may have loosened the bracket. The transformer is integral to the lock assembly and requires 120 VAC power. A wiring diagram is included at the back of this manual for reference.

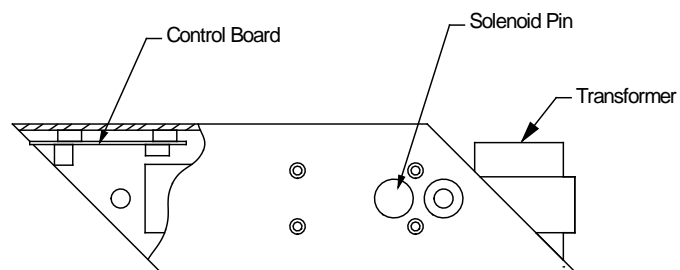


Figure 37

## U. Electrical Information

**CAUTION:** Disconnect all power to the junction box prior to making any connections.

1. Convenient electric service holes have been provided in the slide header end caps and jamb tubes. An electrician should route 120 VAC, single phase, 5 amp (minimum) power to the factory supplied and mounted junction box in the header.
2. The electrician should connect one power hot lead (black) to the power cut off switch mounted inside the junction box. Utilizing an appropriate wire nut, the electrician should connect the common lead (white) to the loose common lead (white) found inside the junction box. The ground wire should be connected to the ground screw located in the bottom of the switch junction box. (See Figure 38)
3. Replace the junction box cover. The unit's power should now be activated through the building's electrical circuit breaker box. Proceed with performance set-up procedures outlined in the Microprocessor and Handy Terminal Manual (P/N 159000).

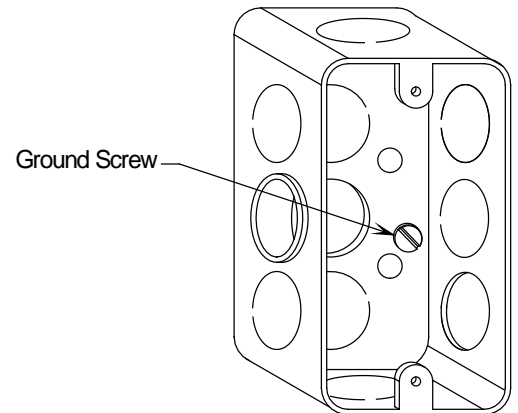


Figure 38

## V. Troubleshooting

<b>Symptom</b>	<b>Solution</b>
Accusensor does not seem to reach out far enough	Increase the area lever on the side of the Accusensor to a higher number. Increase the opening speed on the door with the handy terminal.
Accusensor is not seeing people accessing the door from the side.	Turn on more of the area switches on the front of the Accusensor.
When the doors are panicked open, the system does not shut down.	Check the wiring of the power down switch in the fixed panel or bottom of header.
Doors do not move when power is applied or handy terminal connected.	Confirm the swing panel is closed completely. Check the power down magnet in the top rail of the swing panel is installed and aligned with the magnetic power down switch in the bottom of the header. To locate the problem circuit, disconnect the plugs at the Accusensor. The Microprocessor will ignore any switch or sensor when it is unplugged from circuit.
The cover on the Accusensor will not snap on.	Install a couple of thin washers to space the Accusensor off from the header and provide clearance for the cover.
Doors move very slowly when the handy terminal is connected.	This is normal. It is “learning” the door stroke. After learning the stroke, the handy terminal will prompt you with options.
The doors do not open completely.	Look for obstructions in the track as well as inside the header. Check to make sure that the belt clips are not hitting something. Check that the mode switch on the panel is not in “Reduced Opening” mode. Use the handy terminal and reinitialize the system.
I want to eliminate all outside switches and sensors and make the system operate in automatic mode.	Disconnect the 12 pin connector from inside the microprocessor and install the special connector jumper tool p/n 115941 into its place. The system will consist of only the motor, operator and control box (Microprocessor). The handy terminal will be the only means of operating the door.
I want to reset the system back to the factory settings.	<ol style="list-style-type: none"> <li>1. Plug in handy terminal and wait for door to close.</li> <li>2. At “Swing/Slide Stroke?” enter <b>YES</b></li> <li>3. At “Swing Door Y or N?” enter <b>YES</b> (even though you have a slide door)</li> <li>4. Door will try to initialize as a swing door and reset the settings.</li> <li>5. It will prompt you with “Swing/Slide Stroke.” Enter <b>YES</b></li> <li>6. At “Swing Door Y or N?” enter <b>NO</b></li> <li>7. The system will now initialize as a slide door at the factory settings.</li> <li>8. You must set the door stroke from the handy terminal from the prompts at this point.</li> </ol>
Door does not run in “ON” but may run in “OFF”	The holding beam connector (it has a red and white wire in it) in the main harness has a jumper plug connected to this plug. Remove the jumper. There have been cases where some installers have incorrectly connected this red/white connector to a blue wire connector. Remove the blue wire connector and install a jumper into it. The red/white should be empty and any open blue wire connectors should have a jumper installed.

**W. Common Replacement Parts**

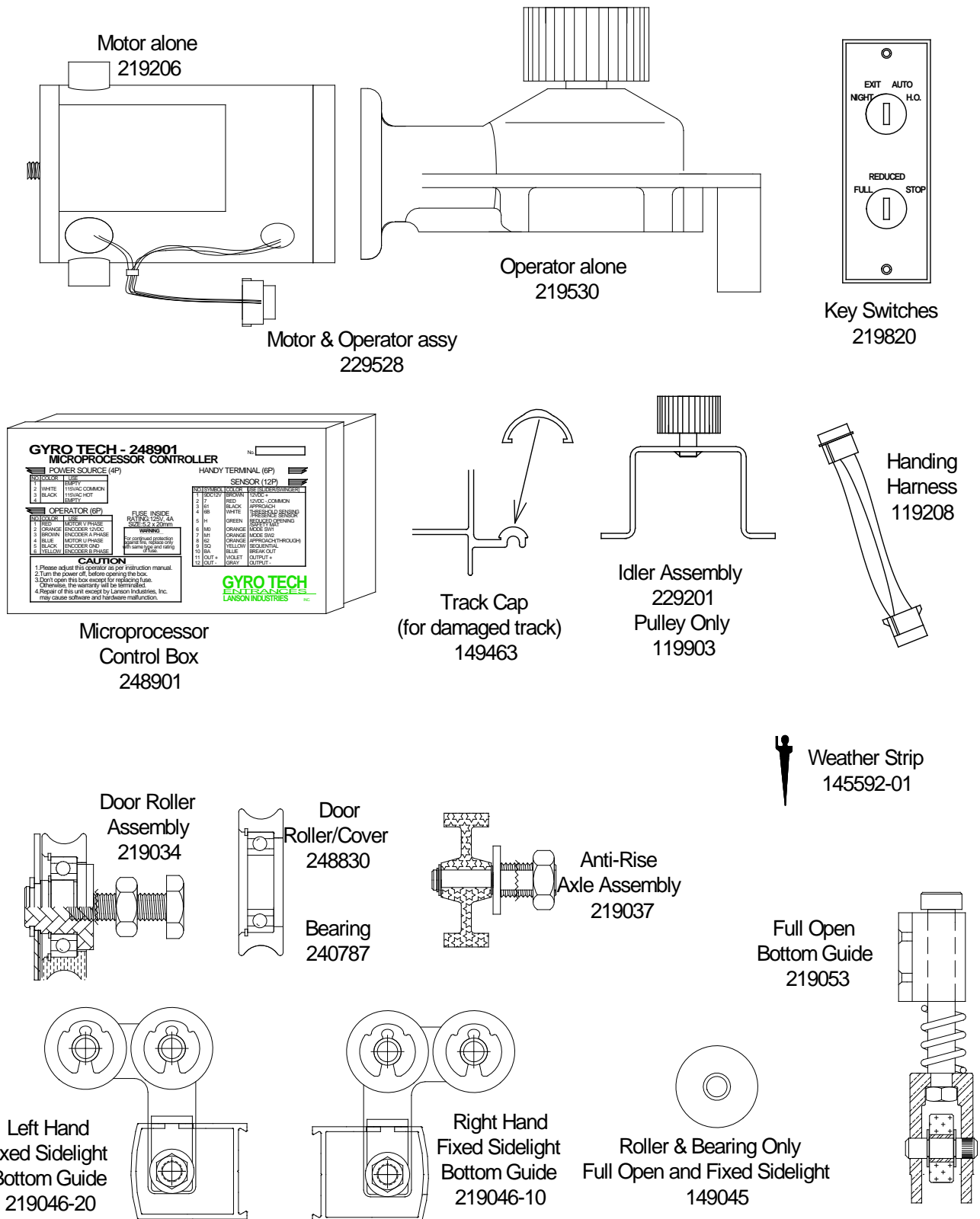


Figure 39

**X. Wiring diagram for connecting push plates or card readers for Night mode.**

Attach the normally open contacts across the red and black wire on either the rocker or key switches.

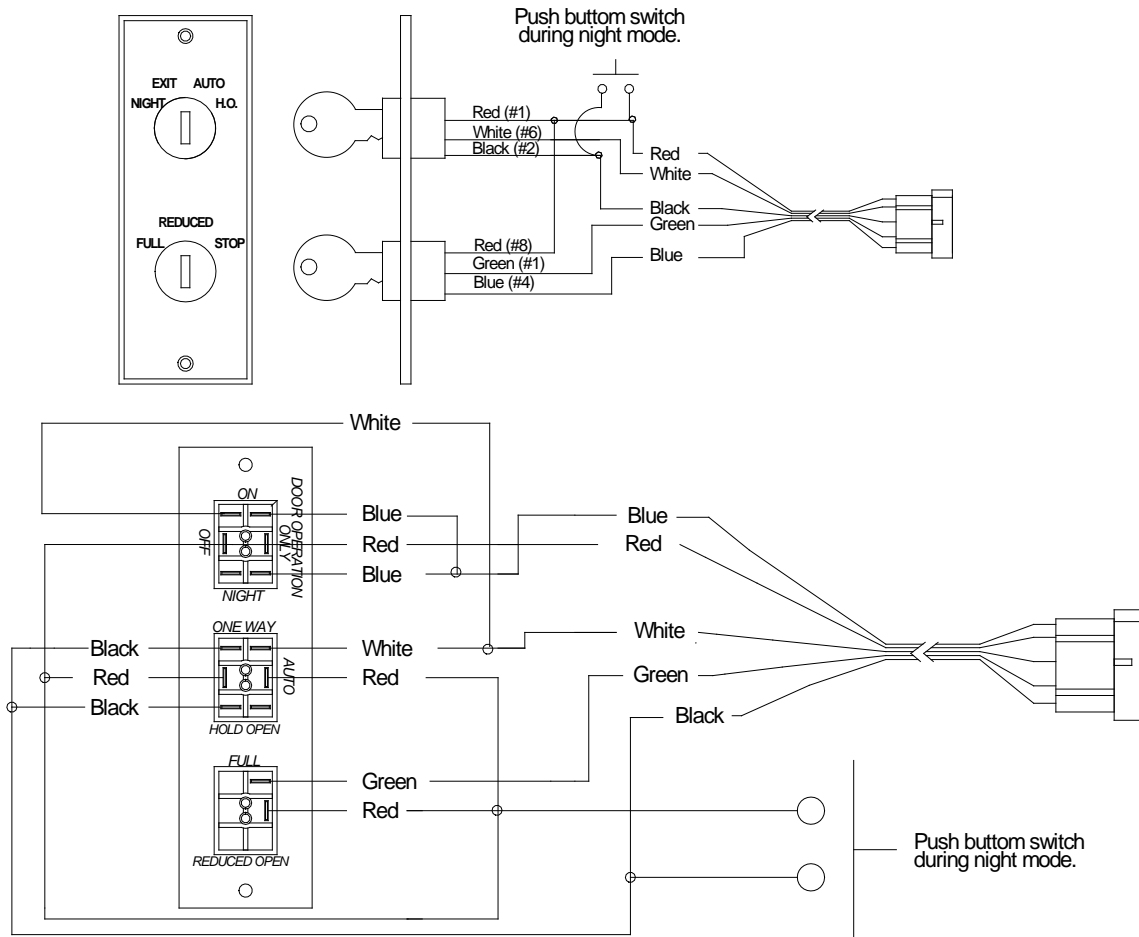


Figure 40



**X. Wiring diagram Activation with Night Mode**

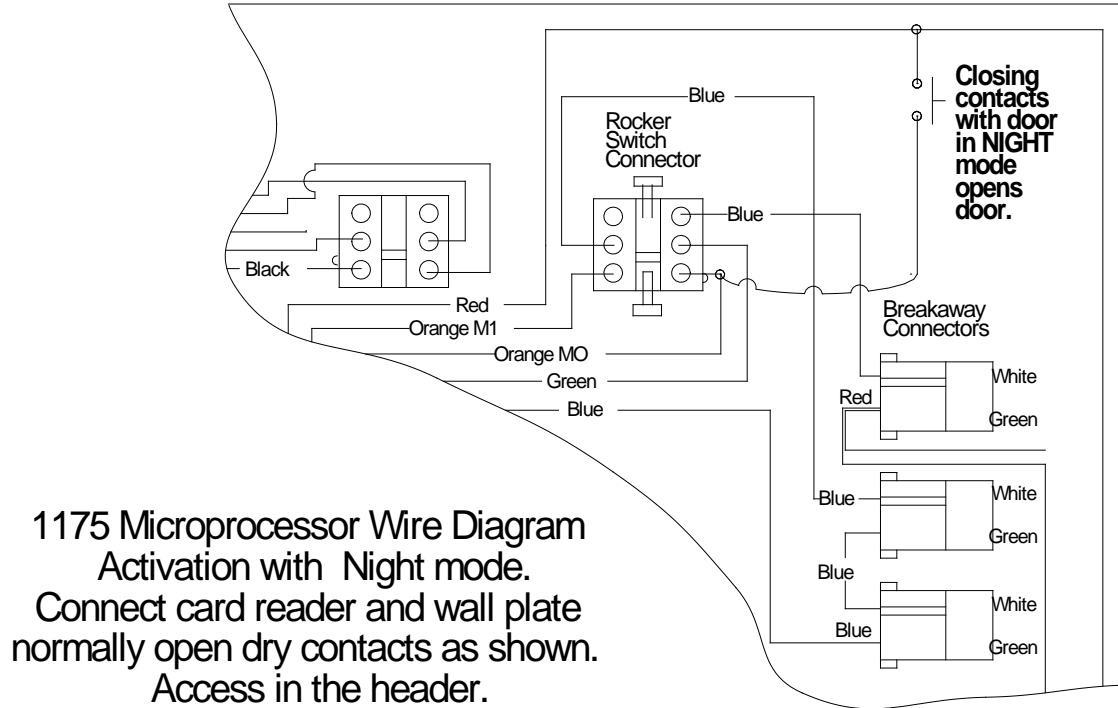


Figure 41

**X. Microprocessor Wiring Diagram**

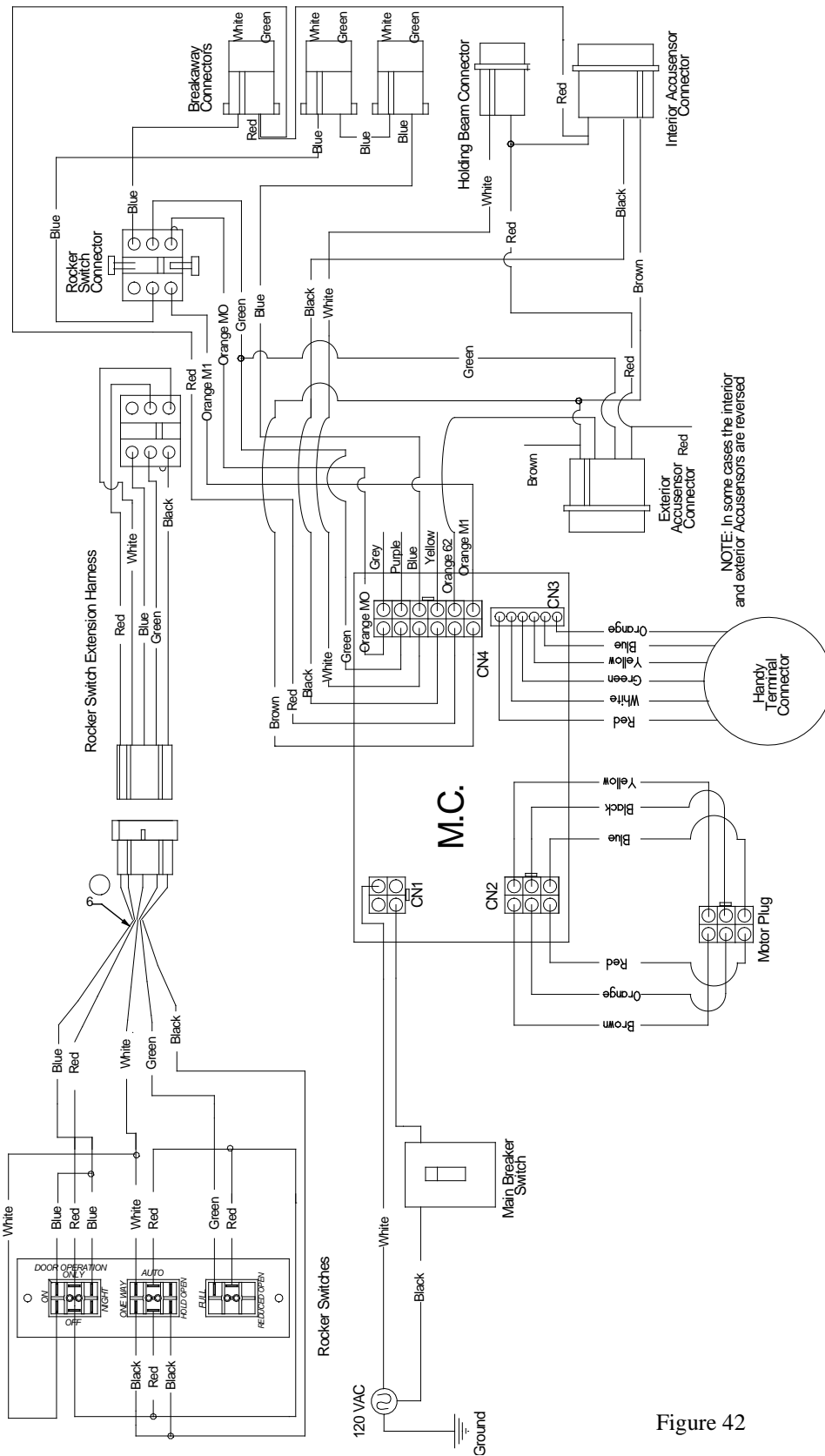
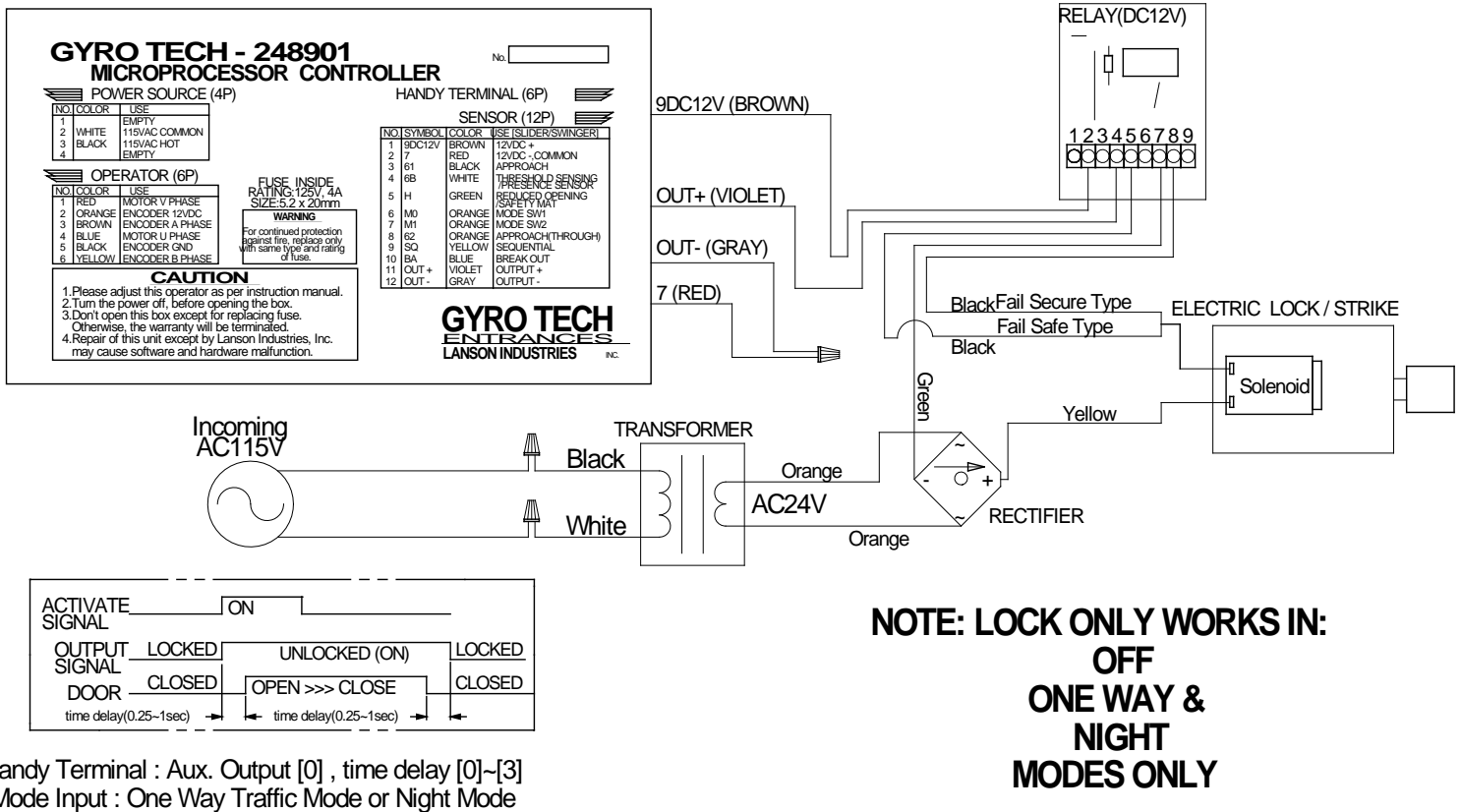


Figure 42

**1175 Microprocessor Wire Diagram**

**X. Wiring Diagram for Fail Safe and Fail Secure Electric Locks**



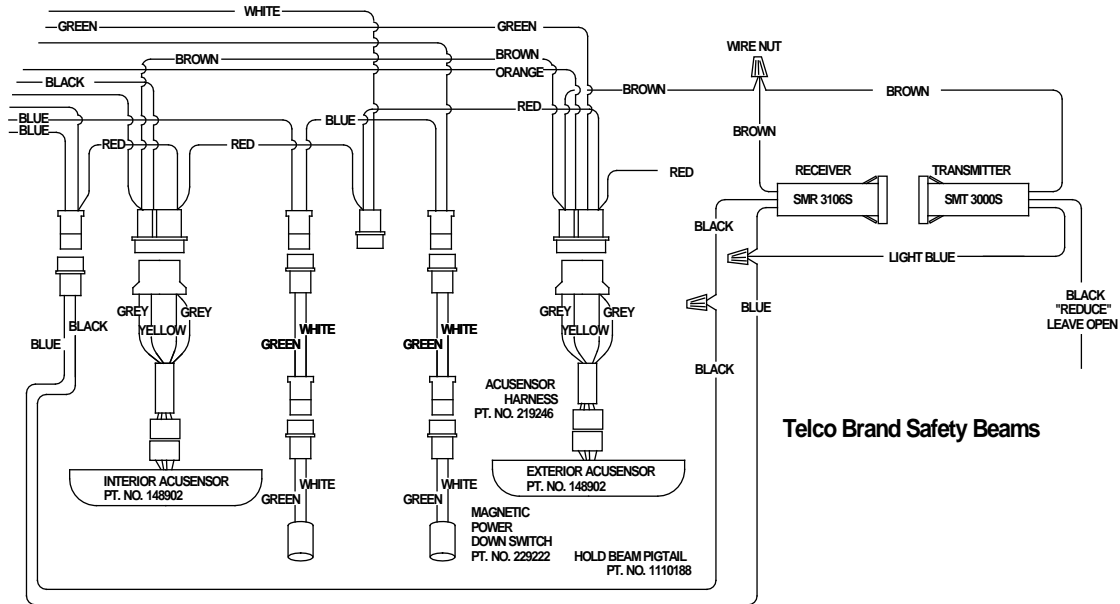
Generic Wiring Diagram for Fail Safe and Fail Secure Electric Locks

Figure 43

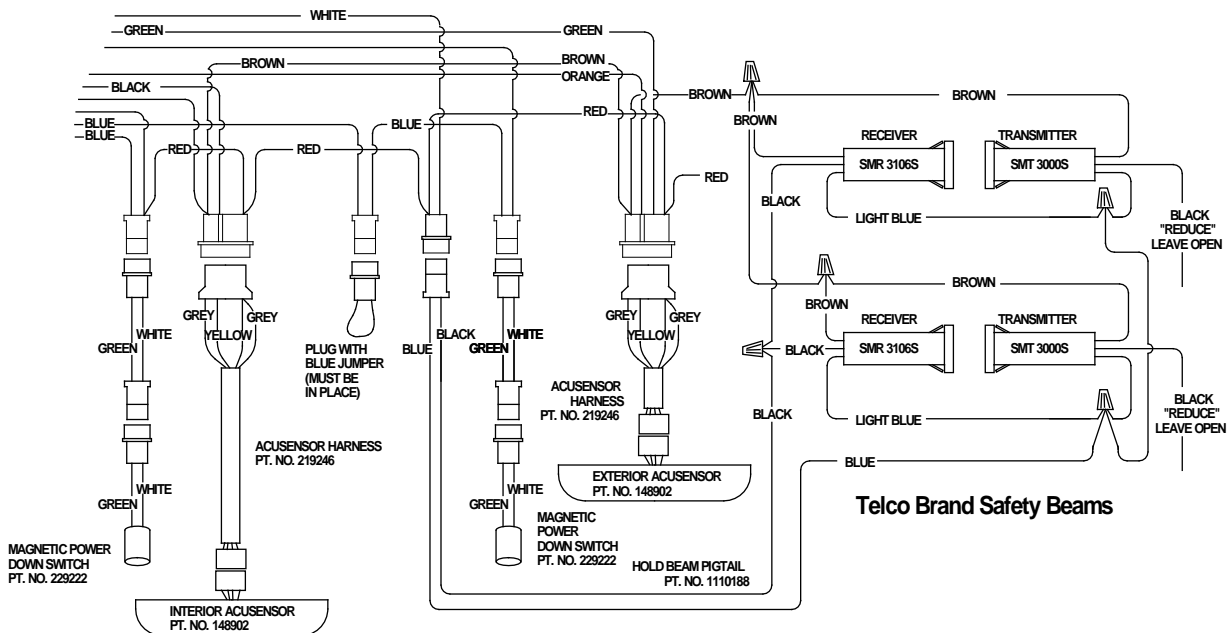
X. Holding Beam Wiring Diagram

# Telco Brand Safety Beams

## Wiring Diagram for Holding Beams for Breakout Shutdown



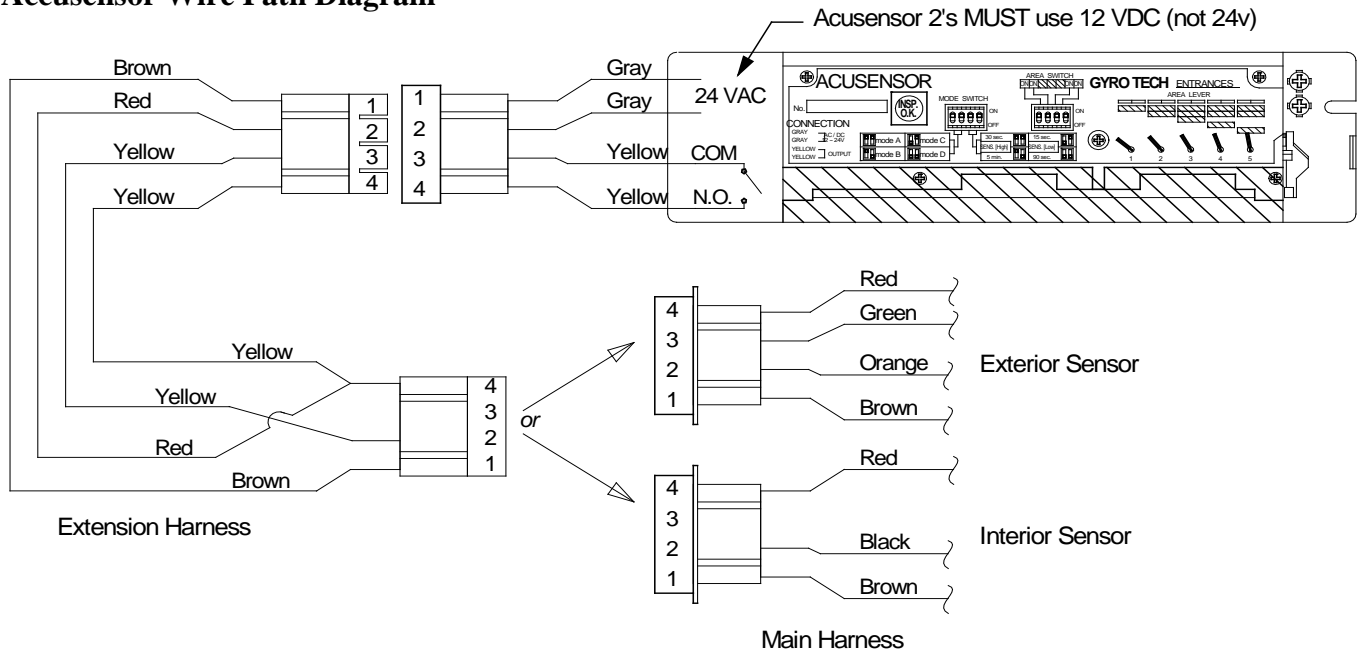
## Wiring Diagram for Holding Beams as a Safety



Holding Beam Wire Diagram P/N 1510194 March 28, 2001

Figure 44

**X. Accusensor Wire Path Diagram**



**Mode Input for SW1 and SW2**

SW1	SW2	Results
Off	Off	Auto Mode. Approach and Approach Thru signals available Electric Lock is always unlocked
Off	On	Night Mode. None of the activation signals will be accepted. Sensors provide threshold safety and Electric Lock is always locked.
On	On	Full Open Mode. The door keeps the full open point, not affected by sensors. Electric Lock is always unlocked
On	Off	One Way Traffic. The interior sensor activates the door, the exterior sensor provides threshold safety. Electric Lock is locked until an interior activation is received.

MO	M1	Mode
Open	Open	Auto
Gnd	Open	Exit
Gnd	Gnd	Hold Open
Open	Gnd	Night

Figure 45

## Y. NABCO ENTRANCES RETURN POLICY

If it is necessary to return a malfunctioning unit to NABCO, please use the following guidelines:

Return Material Tags (RMT) are to be used for in and out of warranty materials. The RMT is also used for repair and return as well as return for credit transactions. An RMT must accompany all returned items.

Complete one RMT for each item that will be returned. The following information should be recorded on the tag:

- Serial No. or Part No. – Serial numbers for electronic components are stamped, engraved or printed on stickers and located on the component. Non-electrical parts usually do not have serial numbers.
- Part name.
- Expiration Date – Expiration dates for electronic components are stamped, engraved or printed on stickers and located on the component. Non-electrical parts usually do not have expiration dates. For “warranty claims of non-electrical parts”, please include a photocopy of the original NABCO invoice the part was purchased on.
- Date Returned – the date that the part is returned to NABCO Entrances Inc.
- Requested Repair and Return Action – Specify in/out warranty for R&R, Exchange, or in warranty for credit. For requests for credits, please write the number of the invoice you want credited.
- Firm Name
- Date of Installation
- Installed at Job
- Describe Part Problem

The RMT tag is printed in triplicate. Please keep the top copy of the tag for your returns. Send the remaining two copies along with the part to the attention of the Repair and Return Department at NABCO Entrances Inc. Please remember to package the parts properly. Ship the parts freight prepaid. Collect shipments will be refused. If inquiring on the returned part, please use the RMT number associated with that part.

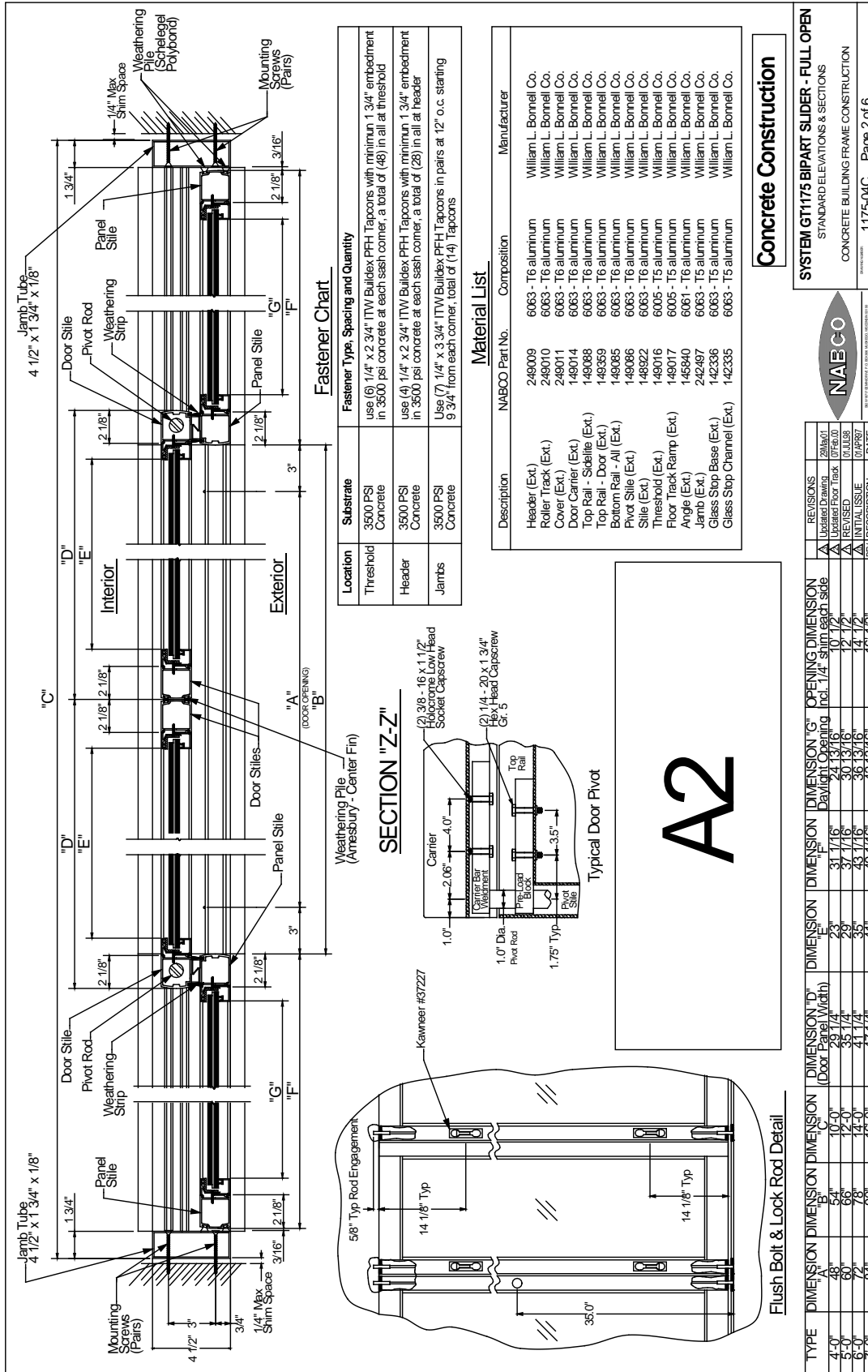
NABCO Entrances Standard Terms & Conditions and Warranty govern all returned items. These are provided in detail in the Terms and Conditions section of the NABCO Entrances Price Book. If you have any questions on warranty or the use of the RMT tags, please call NABCO’s Customer Service Department toll free at 1-877-NABCO WI (1-877-622-2694).

## **Z. Appendix**

- A1. Full Open – Concrete Building Frame Pg. 1 of 6**
- A2. Full Open – Concrete Building Frame Pg. 2 of 6**
- A3. Full Open – Steel Building Frame Pg. 3 of 6**
- A4. Full Open – Steel Building Frame Pg. 4 of 6**
- A5. Full Open – Aluminum Building Frame Pg. 5 of 6**
- A6. Full Open – Aluminum Building Frame Pg. 6 of 6**
  
- A7. Fixed Sidelite – Concrete Building Frame Pg. 1 of 6**
- A8. Fixed Sidelite – Concrete Building Frame Pg. 2 of 6**
- A9. Fixed Sidelite – Steel Building Frame Pg. 3 of 6**
- A10. Fixed Sidelite – Steel Building Frame Pg. 4 of 6**
- A11. Fixed Sidelite – Aluminum Building Frame Pg. 5 of 6**
- A12. Fixed Sidelite – Aluminum Building Frame Pg. 6 of 6**





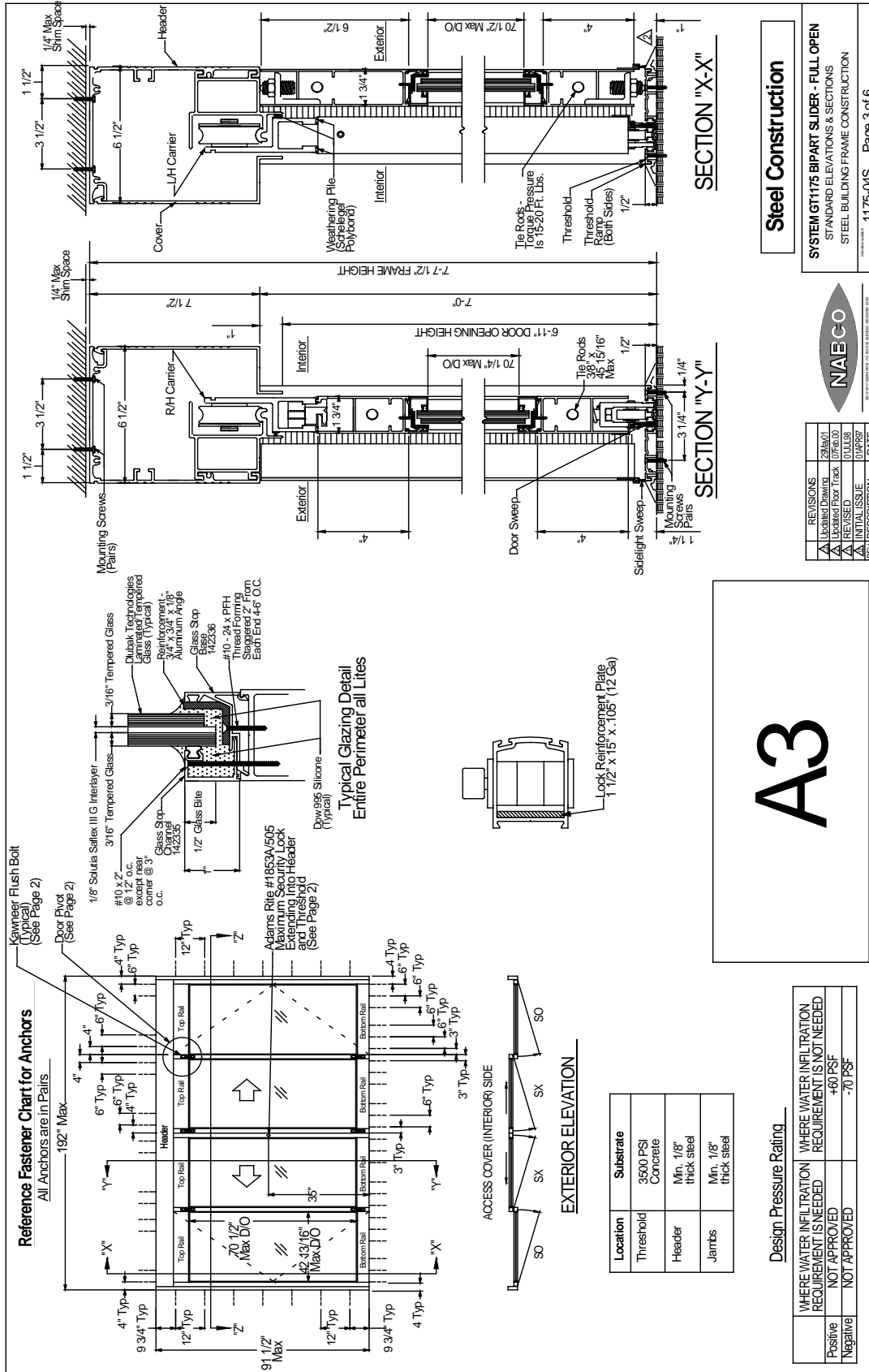


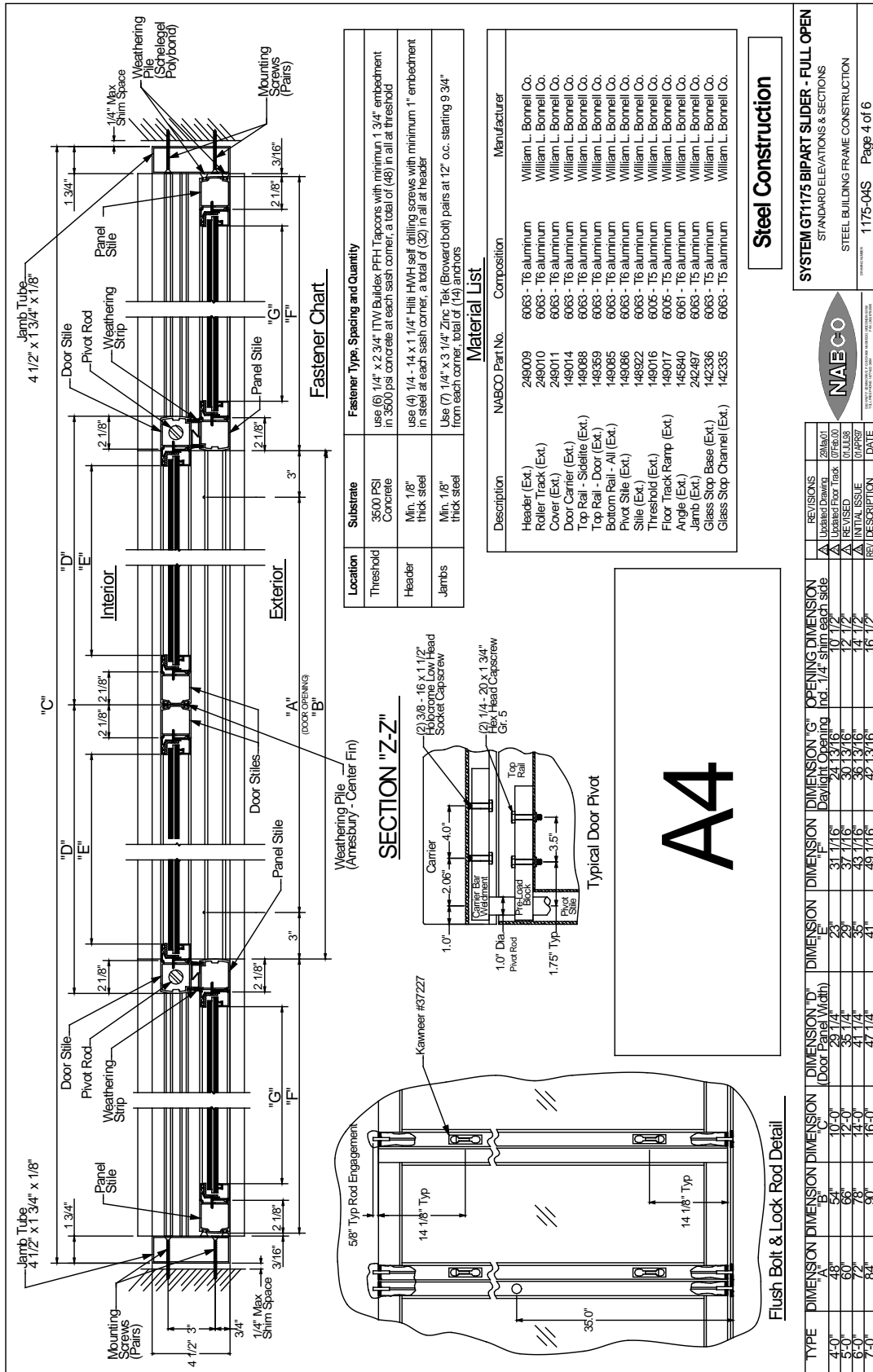
**Concrete Construction**

**SYSTEM GT1175 BIPART SLIDER - FULL OPEN**  
STANDARD ELEVATIONS & SECTIONS  
CONCRETE BUILDING FRAME CONSTRUCTION  
1175-04C Page 2 of 6



REVISIONS	DATE	REVISION DESCRIPTION
1	09/04/01	Updated Drawing
2	07/06/00	Updated Floor Track
3	07/00/98	REVISED
4	07/00/97	INITIAL ISSUE



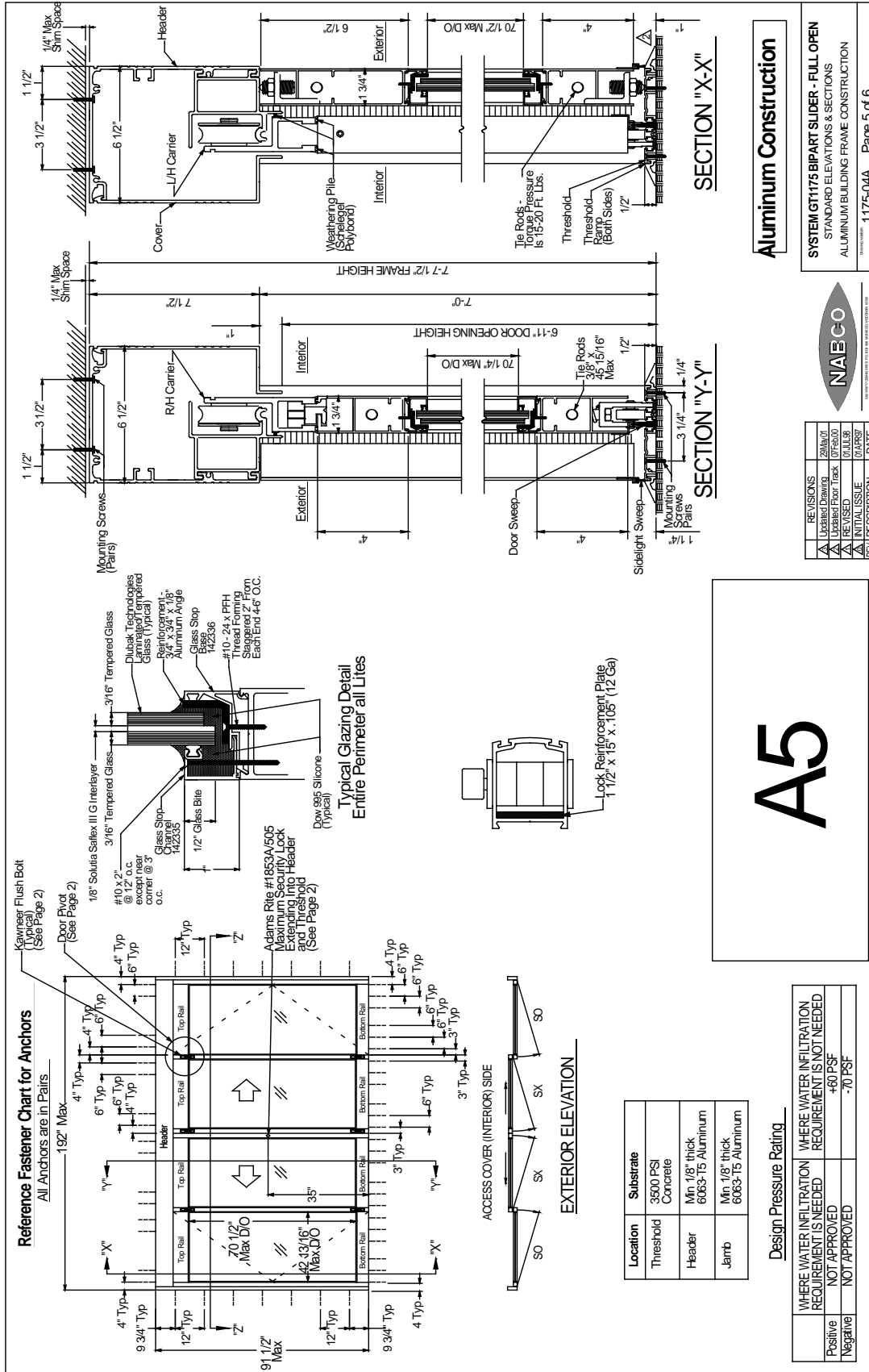


**Steel Construction**

**SYSTEM GT1175 BIPART SLIDER - FULL OPEN**  
STANDARD ELEVATIONS & SECTIONS  
STEEL BUILDING FRAME CONSTRUCTION  
1175-04S Page 4 of 6



REVISIONS	DATE	DESCRIPTION
1	07/16/00	Updated Drawing
2	07/16/00	Updated Foot Track
3	07/16/00	REVIS
4	07/16/00	INITIAL ISSUE
5	07/16/00	REV DESCRIPTION



**Aluminum Construction**

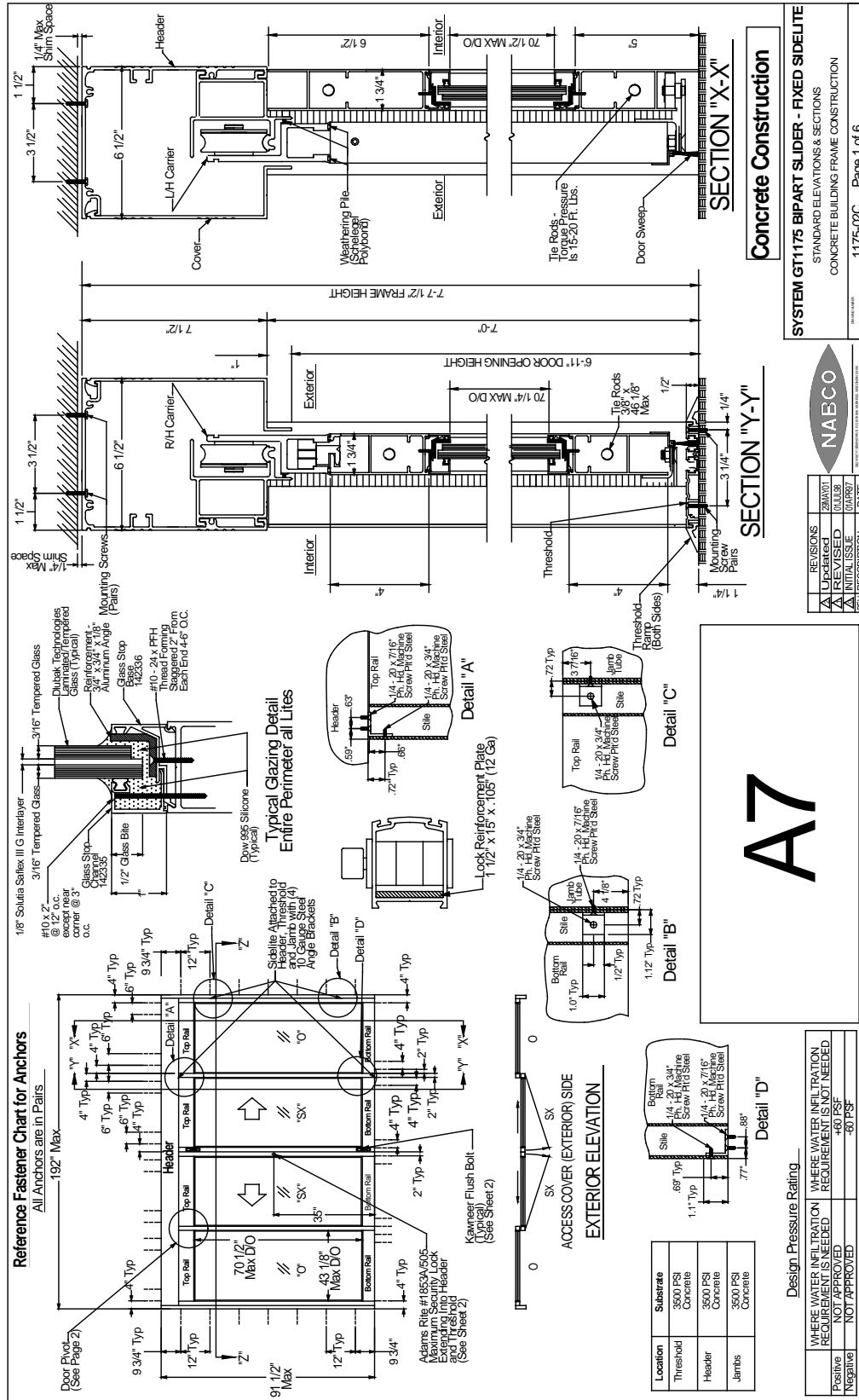
SYSTEM GT1175 BIPART SLIDER - FULL OPEN  
STANDARD ELEVATIONS & SECTIONS  
ALUMINUM BUILDING FRAME CONSTRUCTION

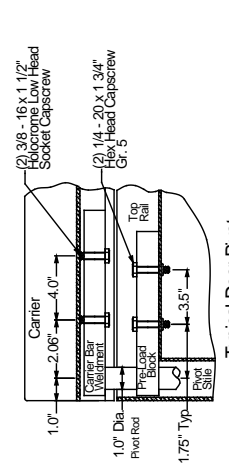
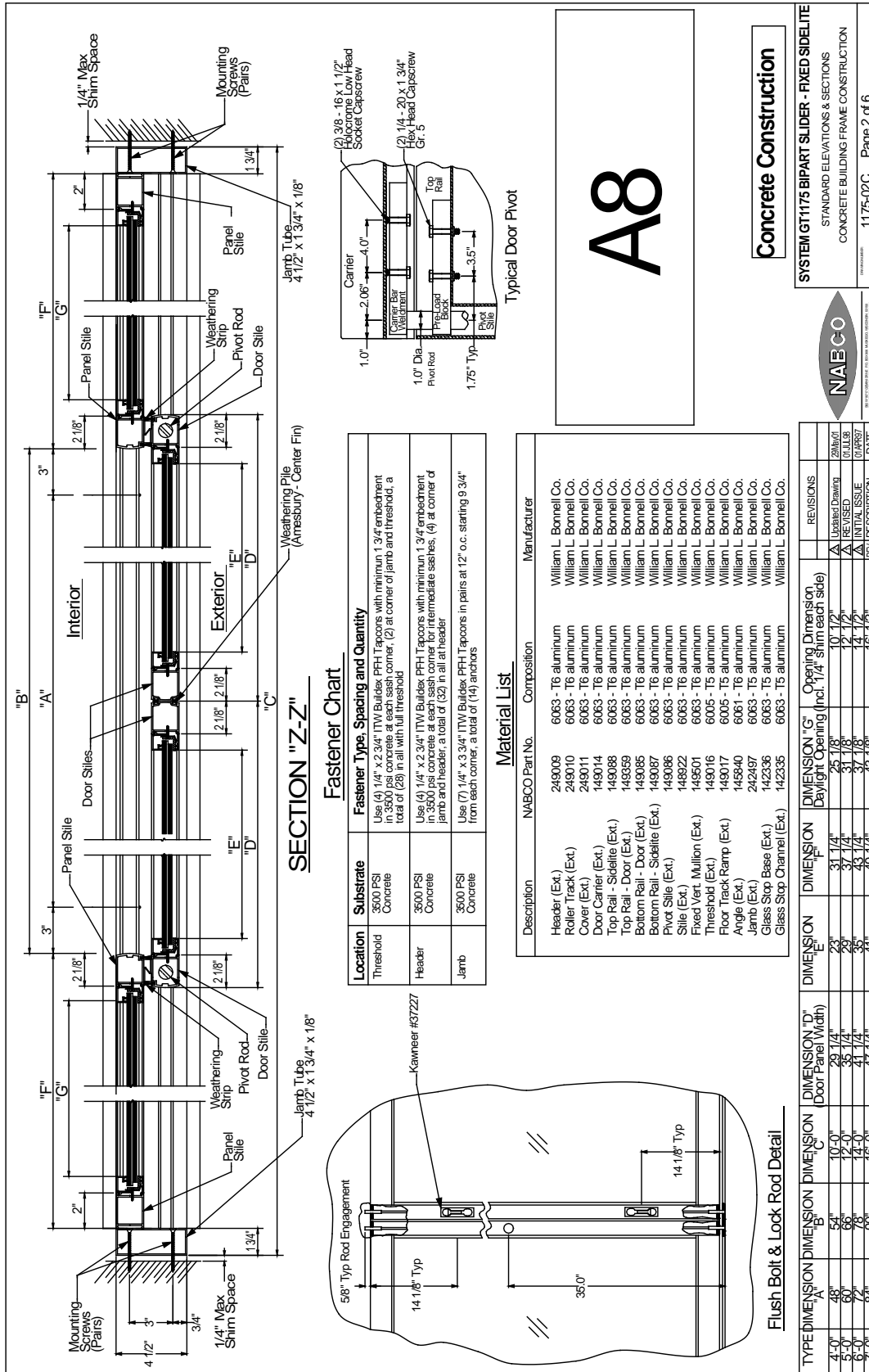
1175-04A Page 5 of 6



REV	DESCRIPTION	DATE
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3	REVISED	04/18/08
4	REVISED	04/18/08
5	REVISED	04/18/08





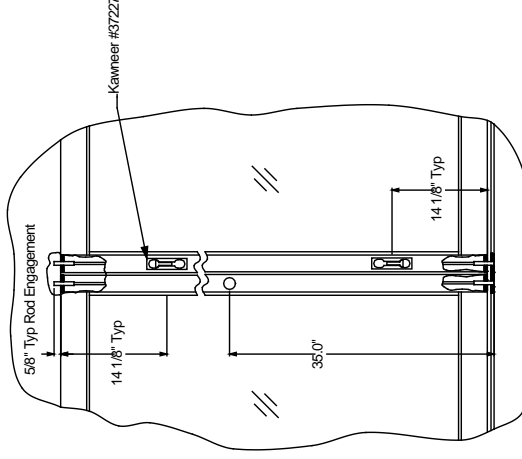


A8

Concrete Construction

Location	Substrate	Fastener Type, Spacing and Quantity
Threshold	3500 PSI Concrete	Use (4) 1/4" x 2 3/4" TW Buldex PFH Tappos with minimum 1 3/4" embedment in 3500 psi concrete at each sash corner, (2) at corner of jamb and threshold, a total of (8) in all with full threshold
Header	3500 PSI Concrete	Use (4) 1/4" x 2 3/4" TW Buldex PFH Tappos with minimum 1 3/4" embedment in 3500 psi concrete at each sash corner for intermediate sashes, (4) at corner of jamb and header, a total of (32) in all at header
Jamb	3500 PSI Concrete	Use (7) 1/4" x 3.3/4" TW Buldex PFH Tappos in pairs at 12" o.c. starting 9 3/4" from each corner, a total of (49) anchors

Description	NABCO Part No.	Composition	Manufacturer
Header (Ext.)	249009	6063 - T6 aluminum	William L. Bonnell Co.
Roller Track (Ext.)	249010	6063 - T6 aluminum	William L. Bonnell Co.
Cover (Ext.)	249011	6063 - T6 aluminum	William L. Bonnell Co.
Door Carrier (Ext.)	149014	6063 - T6 aluminum	William L. Bonnell Co.
Top Rail - Skelitte (Ext.)	149088	6063 - T6 aluminum	William L. Bonnell Co.
Top Rail - Door (Ext.)	149359	6063 - T6 aluminum	William L. Bonnell Co.
Bottom Rail - Door (Ext.)	149085	6063 - T6 aluminum	William L. Bonnell Co.
Bottom Rail - Sidelite (Ext.)	149087	6063 - T6 aluminum	William L. Bonnell Co.
Pivot Stile (Ext.)	149086	6063 - T6 aluminum	William L. Bonnell Co.
Stile (Ext.)	149022	6063 - T6 aluminum	William L. Bonnell Co.
Fixed Vert. Mullion (Ext.)	149501	6063 - T6 aluminum	William L. Bonnell Co.
Threshold (Ext.)	149016	6063 - T5 aluminum	William L. Bonnell Co.
Floor Track Ramp (Ext.)	149017	6063 - T5 aluminum	William L. Bonnell Co.
Jamb (Ext.)	149540	6061 - T5 aluminum	William L. Bonnell Co.
Glass Stop Base (Ext.)	242497	6063 - T5 aluminum	William L. Bonnell Co.
Glass Stop Channel (Ext.)	142336	6063 - T5 aluminum	William L. Bonnell Co.

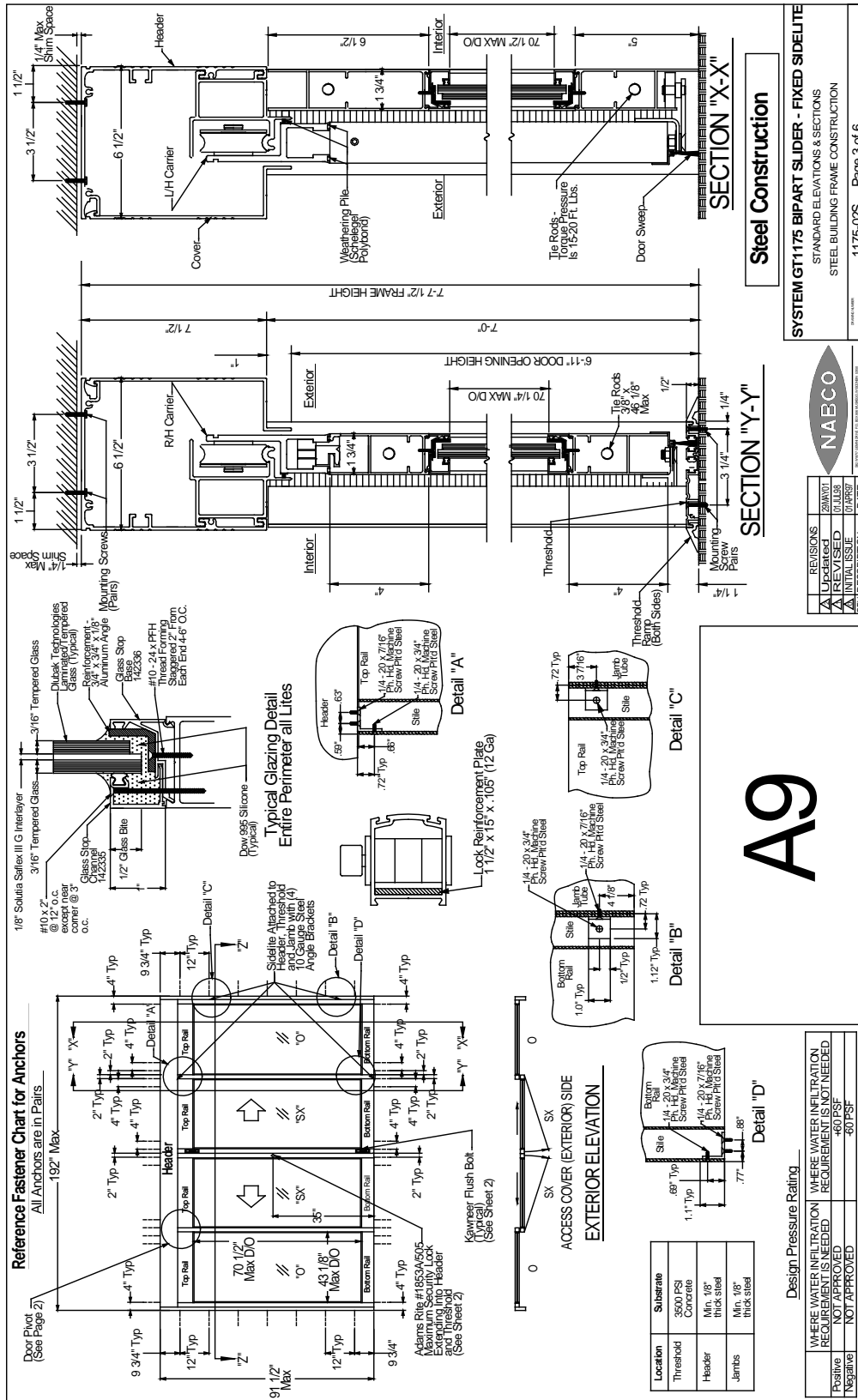


**SYSTEM GT1175 BIPART SLIDER - FIXED SIDELITE**  
STANDARD ELEVATIONS & SECTIONS  
CONCRETE BUILDING FRAME CONSTRUCTION  
1175-02C Page 2 of 6

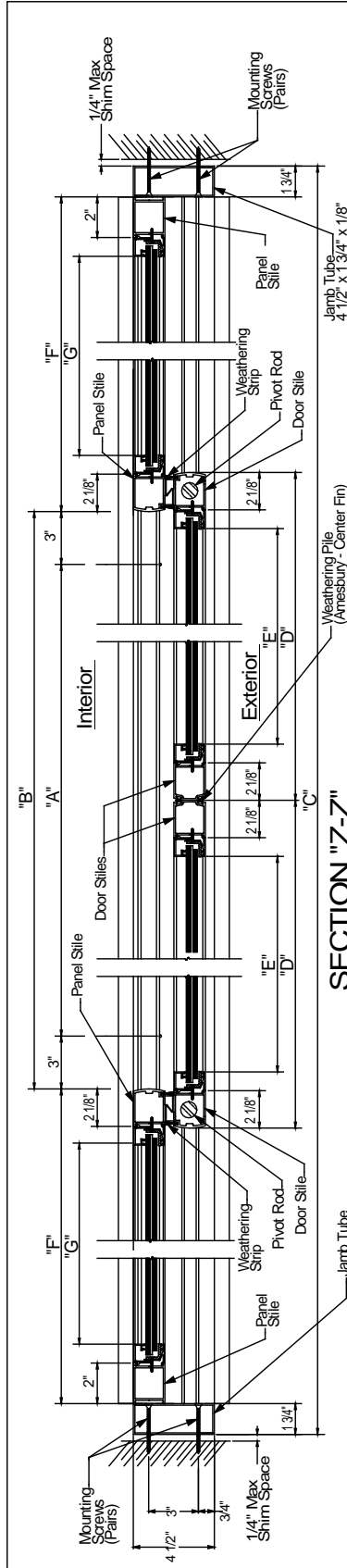


REVISIONS	DATE	DESCRIPTION
2/20/07		Updated Drawing
1/1/08		REVISED
1/1/08		INITIAL ISSUE
16/1/12		REVISED

TYPE	DIMENSION 'A'	DIMENSION 'B'	DIMENSION 'C'	DIMENSION 'D'	DIMENSION 'E'	DIMENSION 'F'	DIMENSION 'G'	Opening Dimension Daylight Opening (incl. 1/4" shim each side)
4'-0"	48"	54"	29 1/4"	23"	31 1/4"	25 1/8"	10 1/2"	10 1/2"
5'-0"	60"	66"	31 1/4"	29"	33 1/4"	27 1/8"	12 1/2"	12 1/2"
6'-0"	72"	78"	33 1/4"	35"	35 1/4"	29 1/8"	14 1/2"	14 1/2"
7'-0"	84"	90"	35 1/4"	41"	37 1/4"	31 1/8"	16 1/2"	16 1/2"



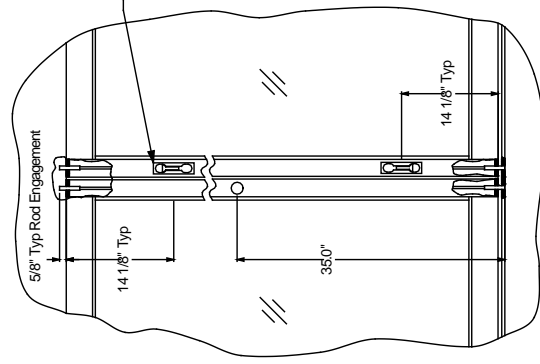




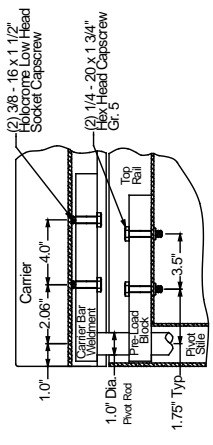
**SECTION "Z-Z"**

**Fastener Chart**

Location	Substrate	Fastener Type, Spacing and Quantity
Threshold	3500 PSI Concrete	Use (4) 1/4" x 2 3/4" ITW Buldex PFH Tapcons with minimum 1 3/4" embedment in 3500 psi concrete at each sash corner, (2) at corner of jamb and threshold, a total of (28) in all with full threshold
Header	Min 1/8" thick Steel	Use (4) 1/4" - 14 x 1 1/4" HHH-HMH self-drilling screws with minimum "t" embedment in Steel at each sash corner for intermediate sashes, (2) at corner of jamb and header, a total of (28) in all at header
Jamb	Min 1/8" thick Steel	Use (7) 1/4" - 14 x 3 1/4" HHH-HMH self-drilling screws with minimum "t" embedment in Steel in pairs at 12" o.c. starting 9 3/4" from each corner, total of (14) anchors



**Flush Bolt & Lock Rod Detail**



**Typical Door Pivot**

**A10**

**Steel Construction**

TYPE	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	DIMENSION "D"	DIMENSION "E"	DIMENSION "F"	DIMENSION "G"	DIMENSION "H"	DIMENSION "I"	DIMENSION "J"	DIMENSION "K"	DIMENSION "L"	DIMENSION "M"	DIMENSION "N"	DIMENSION "O"	DIMENSION "P"	DIMENSION "Q"	DIMENSION "R"	DIMENSION "S"	DIMENSION "T"	DIMENSION "U"	DIMENSION "V"	DIMENSION "W"	DIMENSION "X"	DIMENSION "Y"	DIMENSION "Z"	
4-0"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"	126"	132"	138"	144"	150"	156"	162"	168"	174"	180"	186"	192"	198"	204"
5-0"	58"	64"	70"	76"	82"	88"	94"	100"	106"	112"	118"	124"	130"	136"	142"	148"	154"	160"	166"	172"	178"	184"	190"	196"	202"	208"	214"
6-0"	68"	74"	80"	86"	92"	98"	104"	110"	116"	122"	128"	134"	140"	146"	152"	158"	164"	170"	176"	182"	188"	194"	200"	206"	212"	218"	224"
7-0"	78"	84"	90"	96"	102"	108"	114"	120"	126"	132"	138"	144"	150"	156"	162"	168"	174"	180"	186"	192"	198"	204"	210"	216"	222"	228"	234"

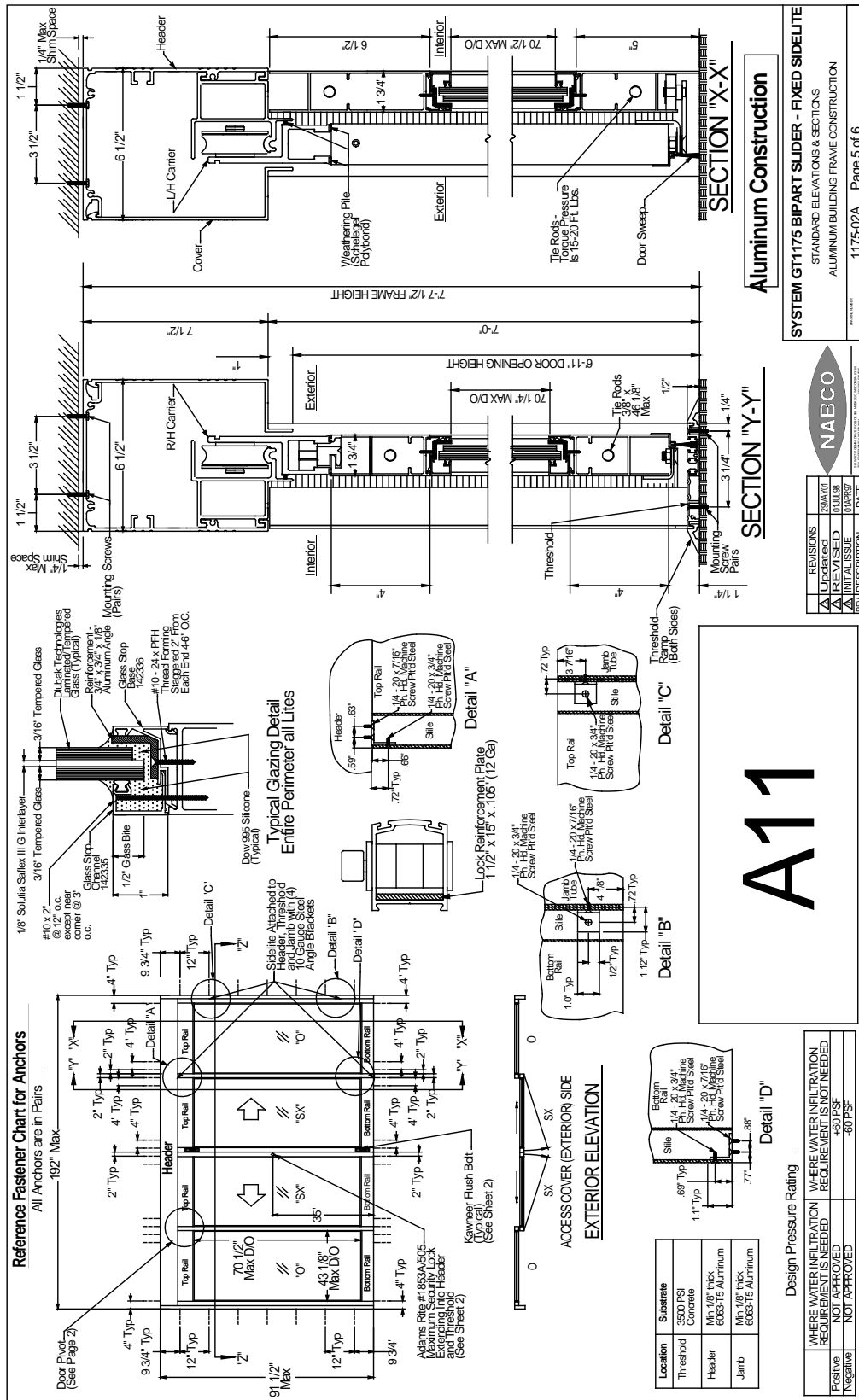
Description	NABCO Part No.	Composition	Manufacturer
Header (Ext.)	249009	6063 - T6 aluminum	William L. Bonnell Co.
Roller Track (Ext.)	249010	6063 - T6 aluminum	William L. Bonnell Co.
Cover (Ext.)	249011	6063 - T6 aluminum	William L. Bonnell Co.
Door Carrier (Ext.)	149014	6063 - T6 aluminum	William L. Bonnell Co.
Top Rail - Sidelite (Ext.)	149088	6063 - T6 aluminum	William L. Bonnell Co.
Top Rail - Door (Ext.)	149089	6063 - T6 aluminum	William L. Bonnell Co.
Bottom Rail - Door (Ext.)	149085	6063 - T6 aluminum	William L. Bonnell Co.
Bottom Rail - Sidelite (Ext.)	149087	6063 - T6 aluminum	William L. Bonnell Co.
Pivot Stile (Ext.)	149086	6063 - T6 aluminum	William L. Bonnell Co.
Stile (Ext.)	148922	6063 - T6 aluminum	William L. Bonnell Co.
Fixed Vert. Mullion (Ext.)	149501	6063 - T6 aluminum	William L. Bonnell Co.
Threshold (Ext.)	149016	6005 - T5 aluminum	William L. Bonnell Co.
Floor Track Ramp (Ext.)	149017	6005 - T5 aluminum	William L. Bonnell Co.
Angle (Ext.)	145840	6061 - T5 aluminum	William L. Bonnell Co.
Jamb (Ext.)	242497	6063 - T5 aluminum	William L. Bonnell Co.
Glass Stop Base (Ext.)	142336	6063 - T5 aluminum	William L. Bonnell Co.
Glass Stop Channel (Ext.)	142335	6063 - T5 aluminum	William L. Bonnell Co.

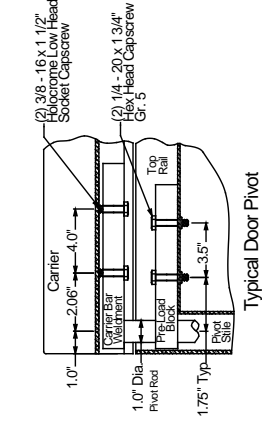
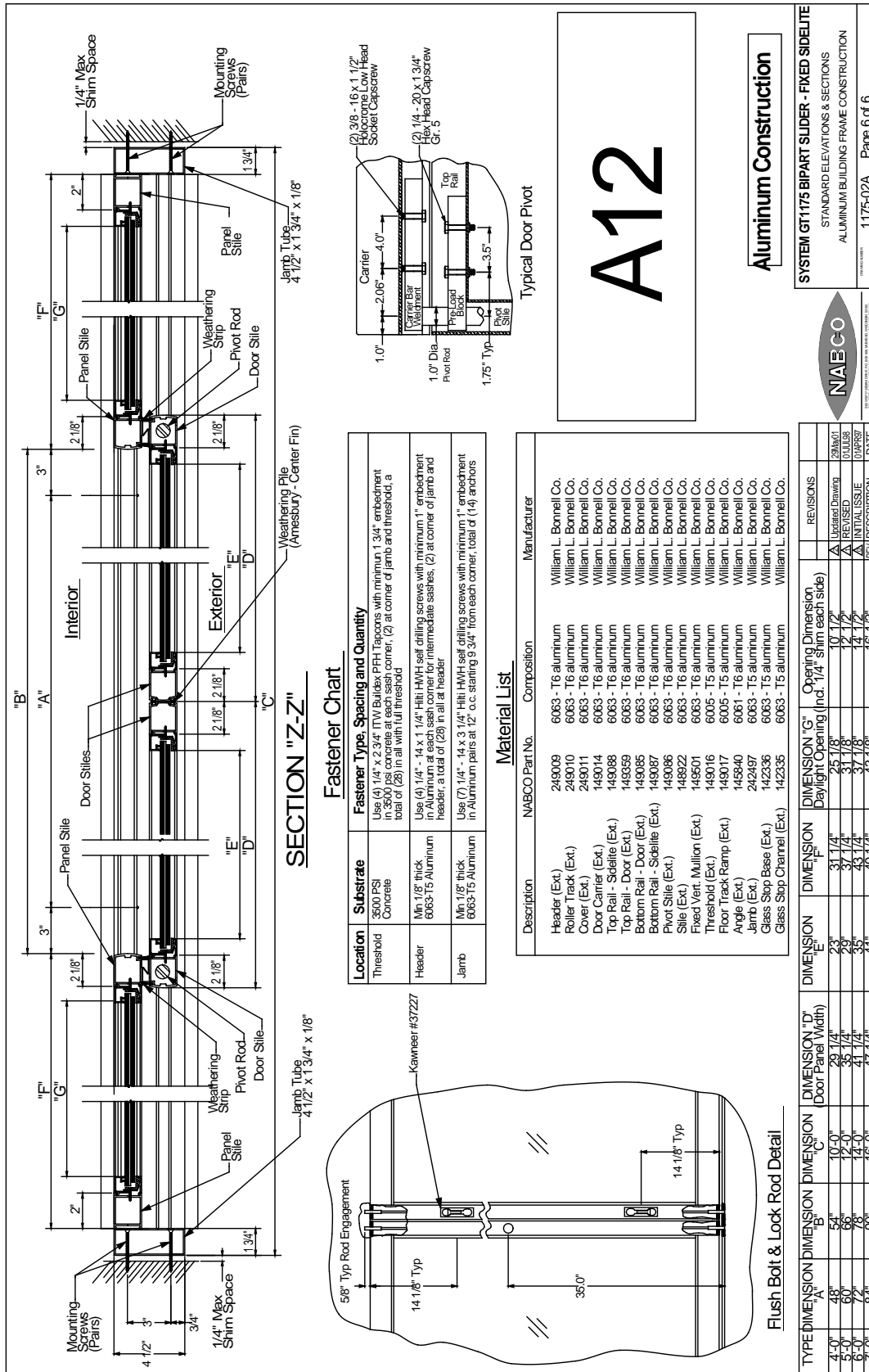
**Material List**

REVISIONS	DATE	DESCRIPTION
1	01/18/08	Issued Drawing
2	03/18/08	REVISED
3	04/18/08	INITIAL ISSUE
4	04/18/08	REVISED



**SYSTEM GT1175 BIPART SLIDER - FIXED SIDELITE**  
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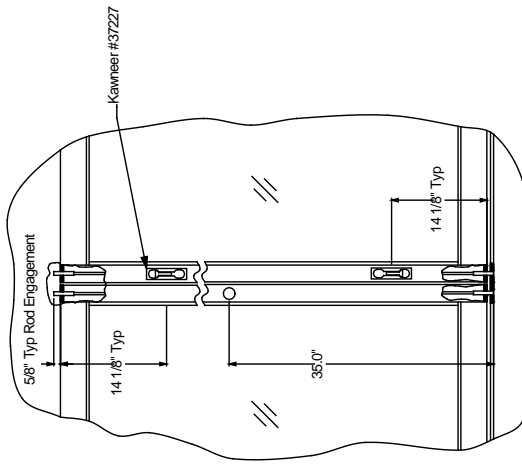
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**Aluminum Construction**

Location	Substrate	Fastener Type, Spacing and Quantity
Threshold	3500 PSI Concrete	Use (4) 1/4" x 2.34" ITW Bulbox PRH Tapcons with minimum 1.34" embedment in 3500 psi concrete at each sash corner, (2) at corner of jamb and threshold, a total of (8) in all with full meshrod
Header	Min 1/8" thick 6063 T5 Aluminum	Use (4) 1/4" - 14 x 1.14" Hilti HMH self drilling screws with minimum 1" embedment in Aluminum at each sash corner for immediate sashes, (2) at corner of jamb and header, a total of (8) in all at header
Jamb	Min 1/8" thick 6063 T5 Aluminum	Use (7) 1/4" - 14 x 3.14" Hilti HMH self drilling screws with minimum 1" embedment in Aluminum pairs at 12" o.c. starting 9.34" from each corner, total of (14) anchors

**Material List**

Description	NABCO Part No.	Composition	Manufacturer
Header (Ext.)	249009	6063 - T6 aluminum	William L. Bonnell Co.
Roller Track (Ext.)	249010	6063 - T6 aluminum	William L. Bonnell Co.
Cover (Ext.)	249011	6063 - T6 aluminum	William L. Bonnell Co.
Door Carrier (Ext.)	149014	6063 - T6 aluminum	William L. Bonnell Co.
Top Rail - Stielite (Ext.)	149088	6063 - T6 aluminum	William L. Bonnell Co.
Top Rail - Door (Ext.)	149359	6063 - T6 aluminum	William L. Bonnell Co.
Bottom Rail - Door (Ext.)	149085	6063 - T6 aluminum	William L. Bonnell Co.
Bottom Rail - Sidelite (Ext.)	149087	6063 - T6 aluminum	William L. Bonnell Co.
Pivot Stile (Ext.)	149086	6063 - T6 aluminum	William L. Bonnell Co.
Fixed Vent, Mullion (Ext.)	148922	6063 - T6 aluminum	William L. Bonnell Co.
Threshold (Ext.)	149016	6063 - T5 aluminum	William L. Bonnell Co.
Floor Track Ramp (Ext.)	149017	6063 - T5 aluminum	William L. Bonnell Co.
Angle (Ext.)	149940	6063 - T5 aluminum	William L. Bonnell Co.
Jamb (Ext.)	242897	6063 - T5 aluminum	William L. Bonnell Co.
Glass Stop Base (Ext.)	142338	6063 - T5 aluminum	William L. Bonnell Co.
Glass Stop Channel (Ext.)	142335	6063 - T5 aluminum	William L. Bonnell Co.



**Flush Bolt & Lock Rod Detail**

TYPE	DIMENSION 'A'	DIMENSION 'B'	DIMENSION 'C'	DIMENSION 'D'	DIMENSION 'D'	DIMENSION 'D'	DIMENSION 'G'	Opening Dimension	REVISIONS
	Door Panel Width	Door Panel Width	Door Panel Width	Door Panel Width	Door Panel Width	Door Panel Width	Daylight Opening (incl. 1/4" shim each side)		
4'-0"	48"	54"	29 1/4"	31 1/4"	31 1/4"	25 1/8"	10 1/2"	2/24/07	Updated Drawing
5'-0"	60"	66"	31 1/4"	33 1/4"	33 1/4"	31 1/8"	12 1/2"	01/08/07	REVISOR
6'-0"	72"	78"	33 1/4"	35 1/4"	35 1/4"	33 1/8"	14 1/2"	04/09/07	INITIAL ISSUE
7'-0"	84"	90"	35 1/4"	37 1/4"	37 1/4"	35 1/8"	16 1/2"		REV/DESCRIPTION
			41"	43 1/4"	43 1/4"	43 1/8"	16 1/2"		DATE

**SYSTEM GT1175 BIPART SLIDER - FIXED SIDELITE**  
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