

# VERTICAL PIVOT LIFT GATE STYLES



**#100 - Cornhusker**



**#200 - Barracuda**



**#300 - Chainlink**



**#400 - Catawba**



**#500 - Buckeye**



**#600 - Congress**



**#700 - Saratoga**



**#800 - Prestigious**



**#900 - Ohioan**



**#1000 - Islander**



**Custom Curb Notch**



**Anti-Terrorism**



# VERTICAL PIVOT GATE SYSTEM

## MODEL VPG2490

### SPECIFICATIONS

#### General Information

**UL 325 7th Ed. Listed & CAN/CSA C22.2 No. 247-14 Listed**  
**Rated for Continuous Duty Cycling**

**Power Supply Options:** 120VAC—Single Phase, 20 Amp Service. 240VAC—Single Phase, 10 Amp Service. Solar.

**Batteries & Charging System:** Built-in Battery Backup. Two 12v Batteries Required (Field Supplied). Recommended Batteries: Group 24, Sealed Marine Starting

**Gate Limit/Position Sensor (LPS):** Combined Type “A” Entrapment protection. Open and Close Limit Position.

**Open/Closing Speed:** 10-12 seconds Std. Oversized gate speed of 14-16.

**Shipping Weight:** Typical VPG2490 Operator with 6’ high x 20’ long picket style gate = 1,500 - 1,800 lbs.

**Warranty:** Residential (5 years), Industrial/Commercial (3 years) from date of shipment on manufactured components workmanship. Purchased components and accessories are covered under their respective warranties. (See full warranty for details)

**Optional Accessories:** Solar Panels, Gear Motor Heater, Extreme Cold Package, MUTCD Reflective Tape, LED Warning lights, Audible Devices, and Emergency Access Systems (SOS, Opticom, Click to Enter, Key Box/Switch, etc.)

#### Motor & Drive System

**RAD (Right Angle Drive):** 1/2 HP, Gear Type, Right Angle Locking Worm Drive. Equipped with disengage lever for Manual Operation.

Dual Belt/High torque reduction system, Counter Balanced, Transport Maintenance pin (T/M) used for transport, maintenance to negate movement of gate panel).

#### Operator

**Construction:** Frame - 2” Sq., 11 Ga. (.120). Mounting pads—304 SS. Skins - 18 Ga. Galvaneal.

**Gate Mounting Hardware:** 304 Stainless Steel

**Operator size:** 68” Length, 53” Height, 30” Width

**Paint:** Standard Color - Black, powder coated. Spray applied colors are Commercial Coating 2-part High Solids Polyurethane. **Standard Spray Colors:** White, Brown, Green, and Gray. Custom colors available.

#### Genesis™ Control Board

Solid State coated programmable control board in an NEMA 4 electrical enclosure (Tested to -40° F).

**Security Breach Protection:** Built in 24V brake when A/C or battery is present. Optional internal locking Solenoid mechanism.

**Monitored Inputs:** Open - 2 inputs , Close - 2 inputs with an (2) additional programmable inputs for Open or Close.

**Programmable Inputs, Outputs, & Relays:** The board has 2 programmable inputs, 2 programmable outputs, and 2 built in relays for configuration and integration.

**Control Wiring:** 16 & 18 Ga. Single conductor. Copper with electronic compression terminals tin-plated for max corrosion prevention.

**Dual Gate Operation:** Programing allows for dual gate operation and Sally-Port configuration.

**Delayed Closing:** Programmable from 0 - 90 seconds.

**Preemptive outputs:** 1 - 5 seconds before gate moves.

#### Gate Construction

**Gate Construction:** 10’ - 20’ - 2” Sq., 11 Ga. (.120) Steel Tubing. Over 20’ - 2 1/2” Sq. , 7 Ga. (.187) Aluminum Tubing.

**Gate Lengths:** 10’ - 25’ (Consult factor for over 25’)

**Gate Heights:** 4’ - 8’ from pad grade. Consult factory for gates over 8’ high as they require special crating and freight arrangements.

**Picket Construction:** Steel— 3/4” Sq. 18 Ga. Galvanized Tubing is standard. Aluminum—3/4” Sq. 1/8” wall is standard. Note: Contact factory for special sizes, spacing, and custom materials.

**Chain Link Construction:** 2 3/8” Sch. 40, 20 & 2” x .065” Galv. Steel Tubing 9 Ga. Galv. Fabric (12’ up to 22’). 2 3/8” Sch. 80, 40 & 2” x 1/8” 6061 Alum. Tubing 9 Ga. Alum Fabric (over 22’ to 25’).

**Wind Bracing:** Cable -75 mph design, 1/4” coated aircraft cable (16’ 20’ gates). Rigid Masted - Gates over 20’ or certain heights and materials. Compliant with IBC Section 1609.6 Simplified Wind Load Method for 90 mph wind loading and the 150 mph hurricane wind loading.

**Paint:** Spray applied colors are Commercial Coating 2-part High Solids Polyurethane. **Standard Spray Colors:** Black, White, Brown, Green, and Gray. Custom colors available. **Powder coating available:** Max length of 25’ and max height of 7’.



## Genesis™ Control Board



AutoGate Ver. 5.6  
GENESIS 01:22am

Line Voltage 25.39\*  
Batt Voltage 26.67  
Motor 0.00 Amps  
Cycles 0 T=00

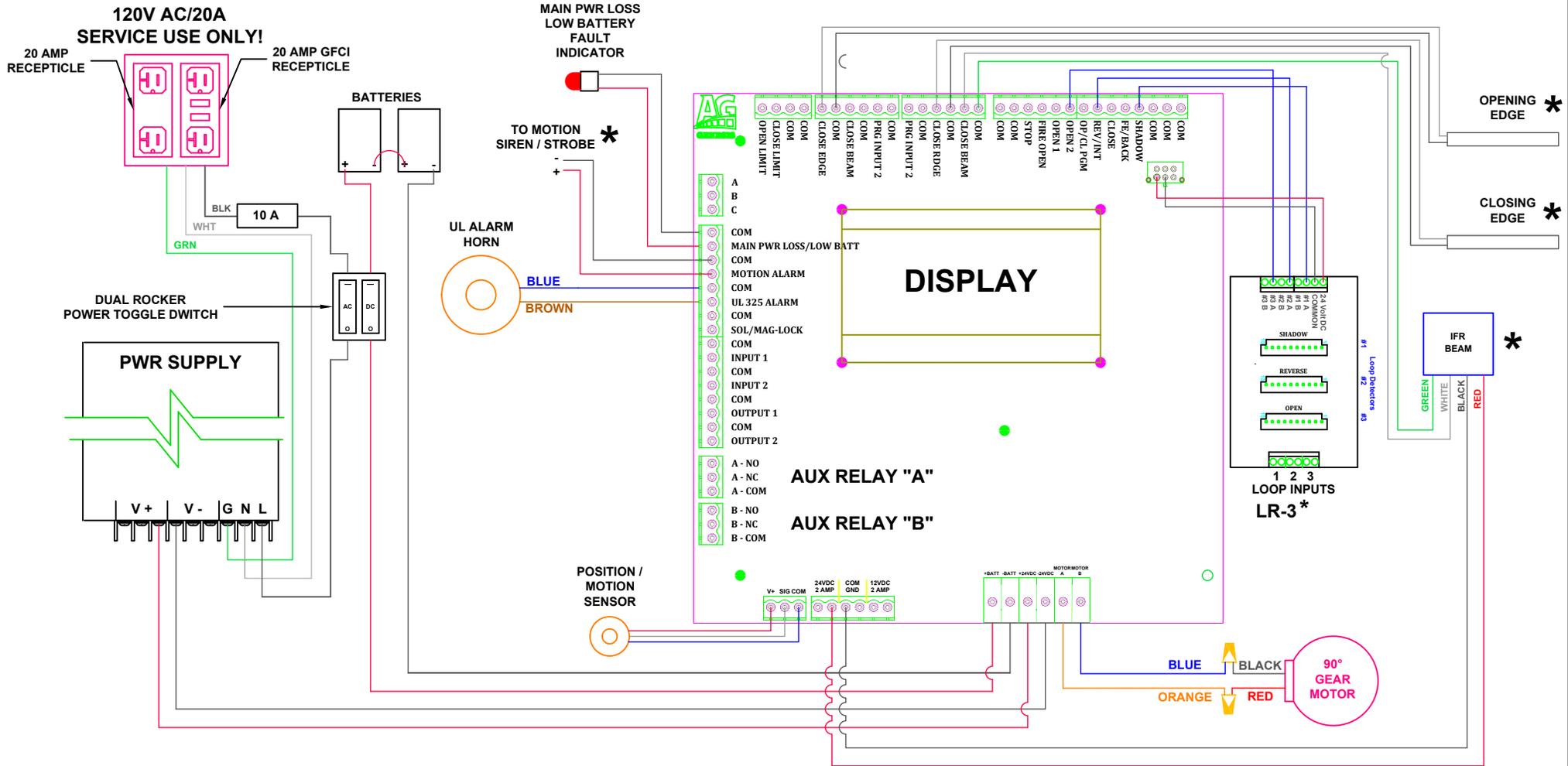
LED Diagnostics Display for easy installation, configuration, and troubleshooting and user feedback

Security Breach Monitoring	USB connection to laptop/tablet/cell phone
6 inputs for Open/Closed Monitored Entrapment Protection devices	2 programmable Inputs, 2 programmable outputs, and 2 programmable relays
0 to 90 seconds programmable delayed closing	1 to 5 seconds preemptive gate movement output to any external device (lights, audible devices, mag-locks, etc.)
Surge Protection	Operation Log of last 99 events. Fault Log of last 99 events
Fire and emergency access control inputs	Adjustable speed control
Smart battery charging system	Programmable dual gate or sequenced gate integration.

## Power Options

120 VAC, Single Phase 20 Amp Service	240 VAC, Single Phase 10 Amp Service	Solar with controller built into Genesis™
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AutoGate, Inc. 7306 Driver Rd., Berlin Heights OH 44814  
(800) 944-4283 www.AutoGate.com Sales@AutoGate.com



**\* OPTIONAL ACCESSORY COMPONENTS**

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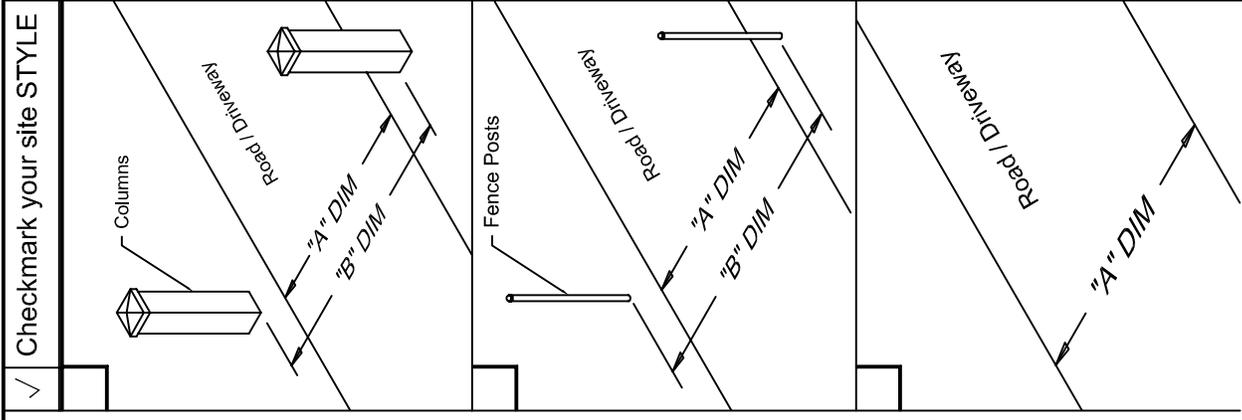
Date: 8/18/18  
 Dr. By: EGS  
 Ckd. By: .



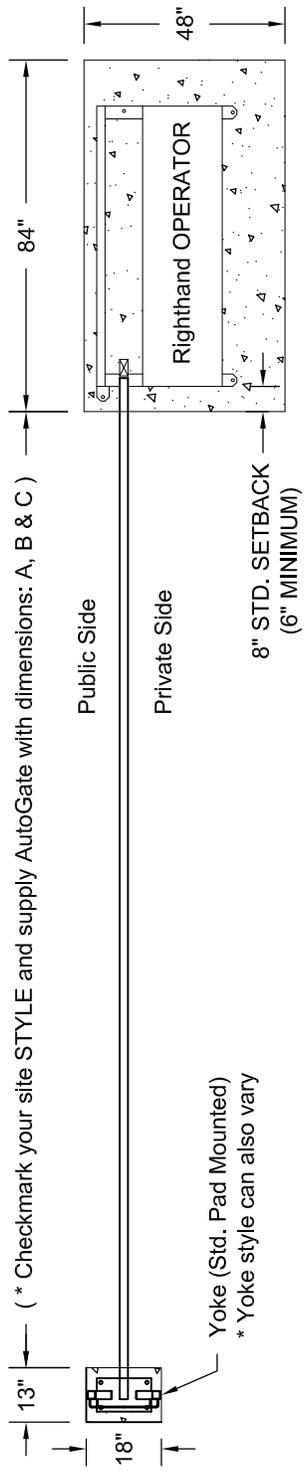
Rev.:	Description:	Date:	Drn. By:	Ckd. By:
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ± 1° X/X ± 1/32, .XX ± .01, .XXX ± .005

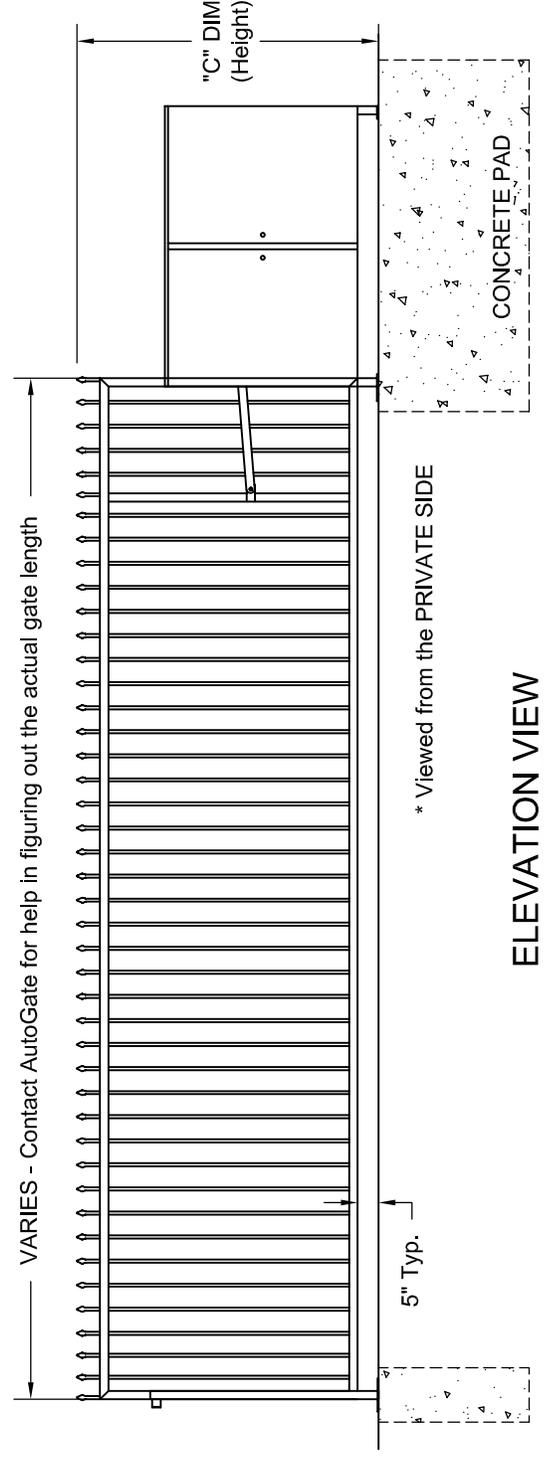
Dwg.: AG# Genesis Board Wiring Schematic.dwg  
 Title: **VPG-2490 Wiring Diagram**



DIM	DESCRIPTION	MEASUREMENT
"A"	Road/driveway width or clear opening across the road/driveway (Choose a site "STYLE")	
"B"	Face to face of fence posts or pillars (Checkmark a box next to a applicable site "STYLE")	
"C"	Existing gate height, matching fence height or new VPL gate height. (Contact AutoGate)	



**PLAN VIEW**



**AutoGate**  
 Gate Entry Systems  
 Berlin Heights, Ohio  
 FAX: (419) 588-3514

Date: 06/02/06  
 Dm. By: MKS  
 Ckd. By:  
 Dwg.: 123

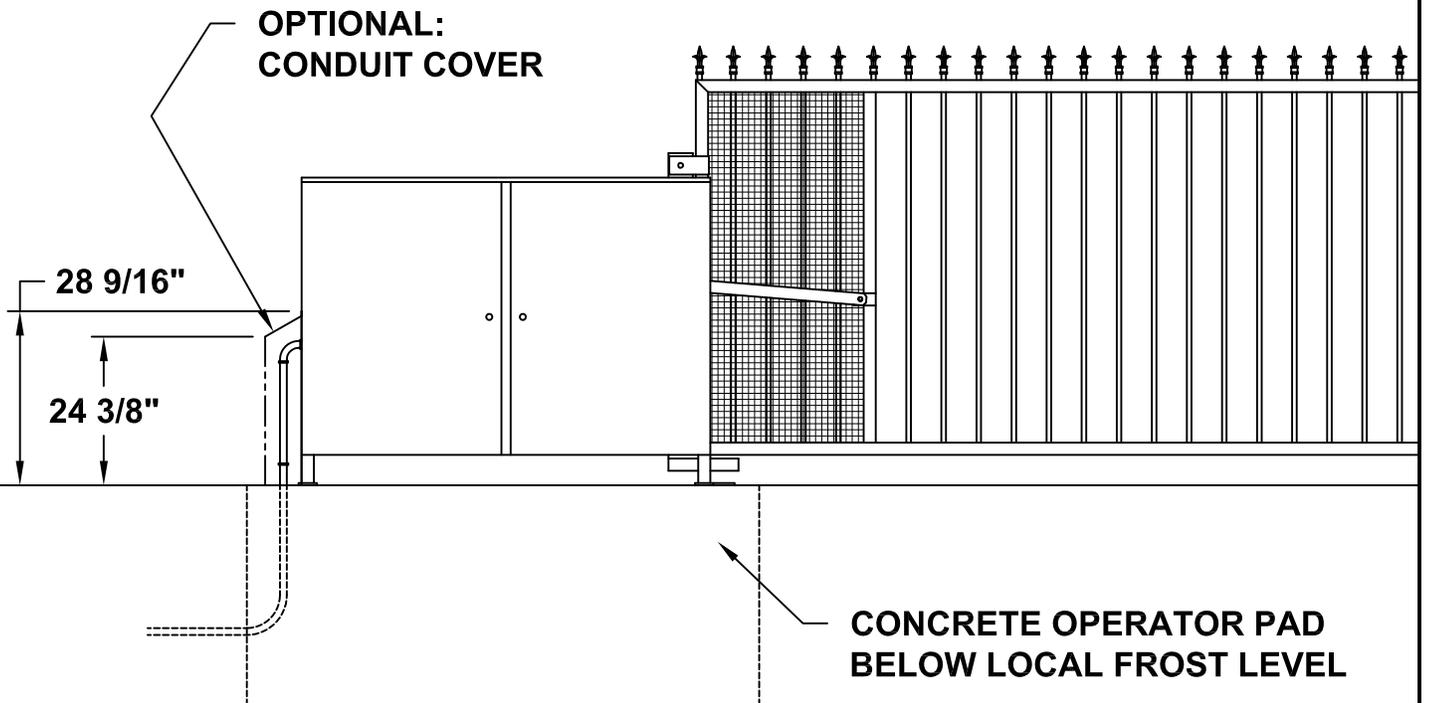
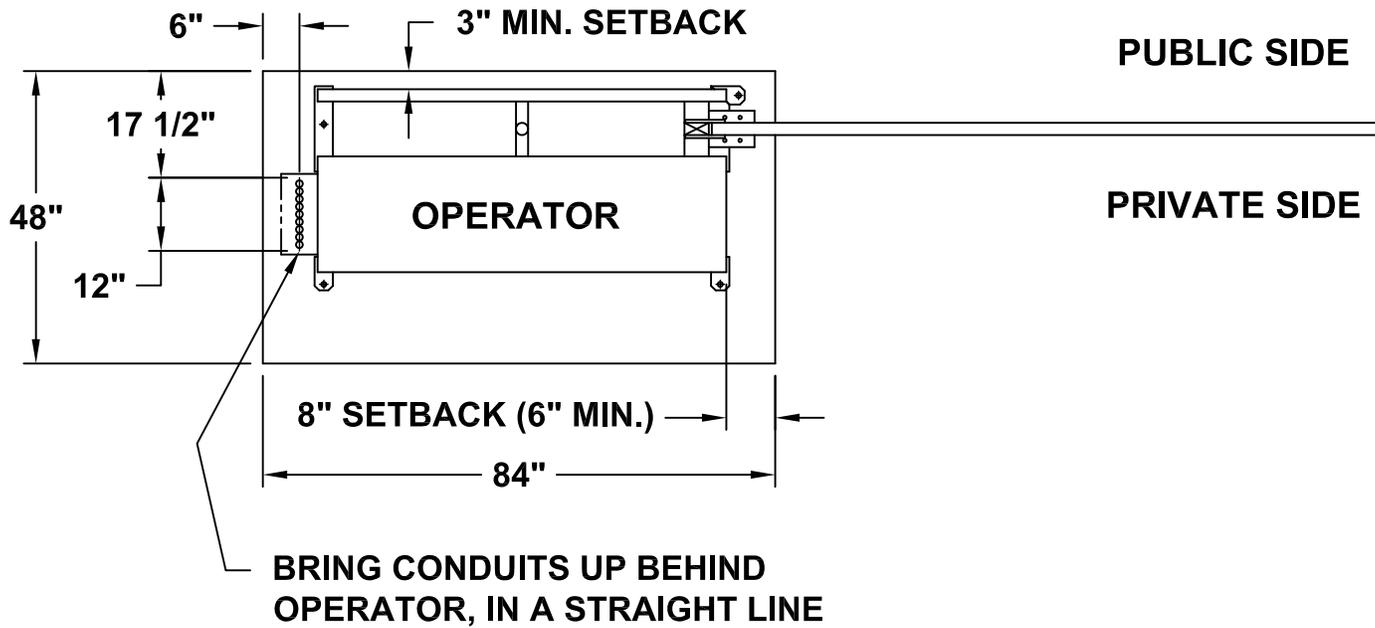
Title: Righthand VPL Profile (No Curbs or Slopes)

**\* Note:** The customer is responsible for indicating (to AutoGate) any variance in the road or driveway grading. If the road has curbs, or any slope in the grade, print out and fill in dimensions on: Dwg. # 120, 121 or 122.

COMPLETE AND FAX BACK TO AUTOGATE: (419) 588-3514

Printed: 04/06/07

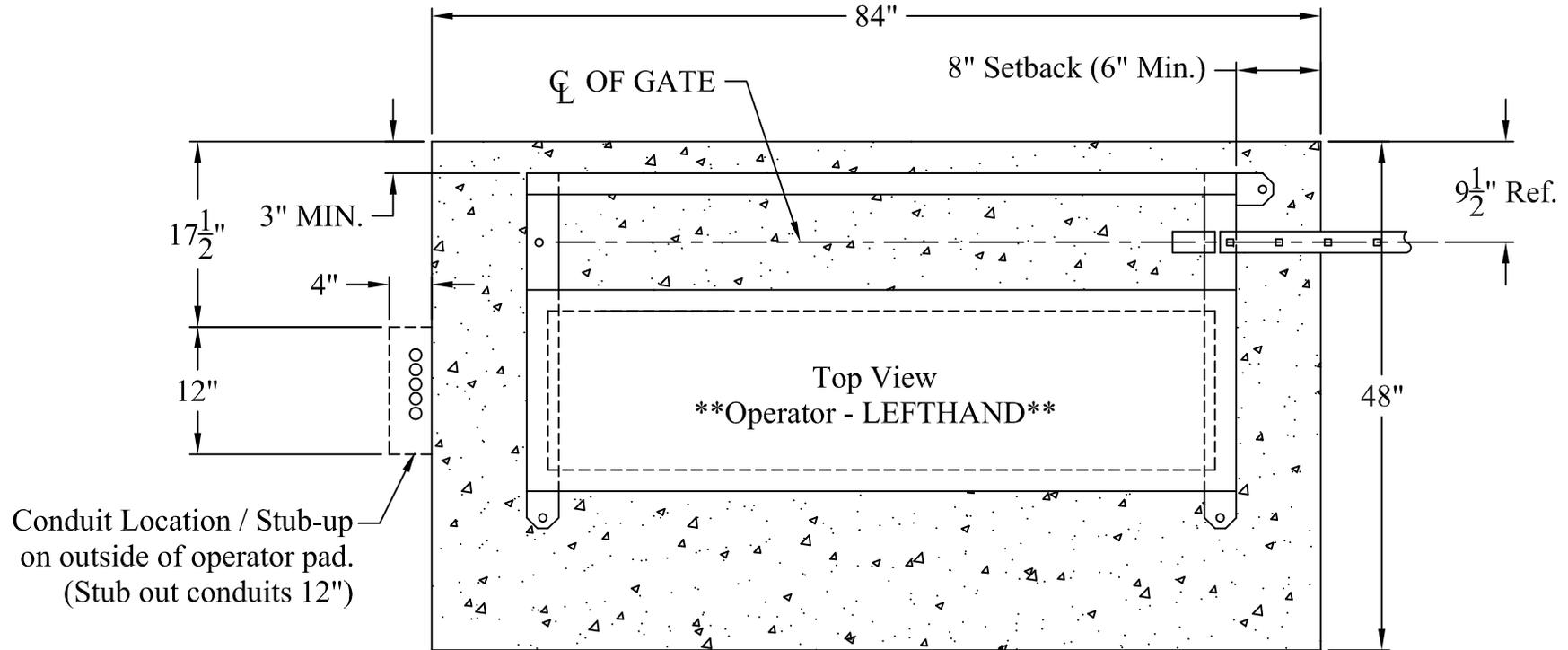




<b>DO NOT SCALE</b>			<b>NOTICE</b> THE INFORMATION CONTAINED ON THIS DOCUMENT IS CONFIDENTIAL. ANY DISSEMINATION, UNAPPROVED DISCLOSURE OR COPYING OF THIS INFORMATION IS STRICTLY PROHIBITED.	Date: 04/26/10	 Berlin Heights, Ohio FAX (419) 588-3514
Rev. No.:	Revisions:	Date:		Drn. By: MKS	
			Ckd. By: .	Dwg.: Conduits In Pad	<b>Title: Conduits in Pad</b>

# LEFTHAND OPERATOR

Public Side



\* Note: Use 3/4" Conduit Only

Private/Secured Side

### Possible Conduits:

- \* 120 vac, min. 15 amp circuit
- \* "Entrance" Keypad
- \* "Exit" Keypad
- \* Reversing/Safety Loops
- \* Free Exit Loop
- \* Office Communication
- \* IFR Beam Power
- \* Optional Spares

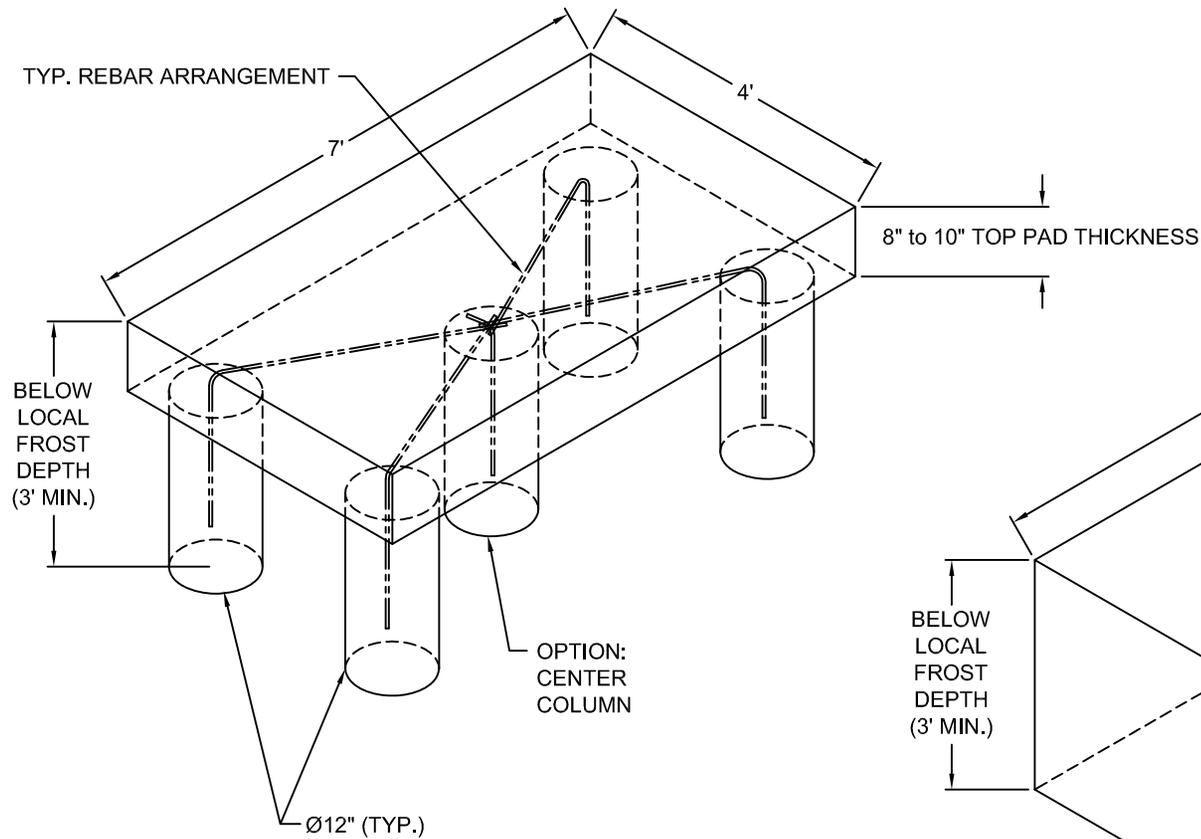
DO NOT SCALE

Rev.:	Description:	Date:
A	Conduit locations were moved outside the pad	07/18/08 MS

<p align="center"><b>NOTICE</b></p> <p>THE INFORMATION CONTAINED ON THIS DOCUMENT IS CONFIDENTIAL. ANY DISSEMINATION, UNAPPROVED DISCLOSURE OR COPYING OF THIS INFORMATION IS STRICTLY PROHIBITED.</p> <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ± 1° X/X ± 1/32, .XX ± .01, .XXX ± .005</p>	Date: 12/07/05	
	Drn. By: MKS	
	Supercedes: 8/10/05	Dwg.: 102C-L
	Title: Lefthand Conduit Pad Location	

### OPTION #1:

(4) or (5) MIN. 12" AUGURED HOLES, RE-BAR, AND AN 8" TO 10" TOP PAD

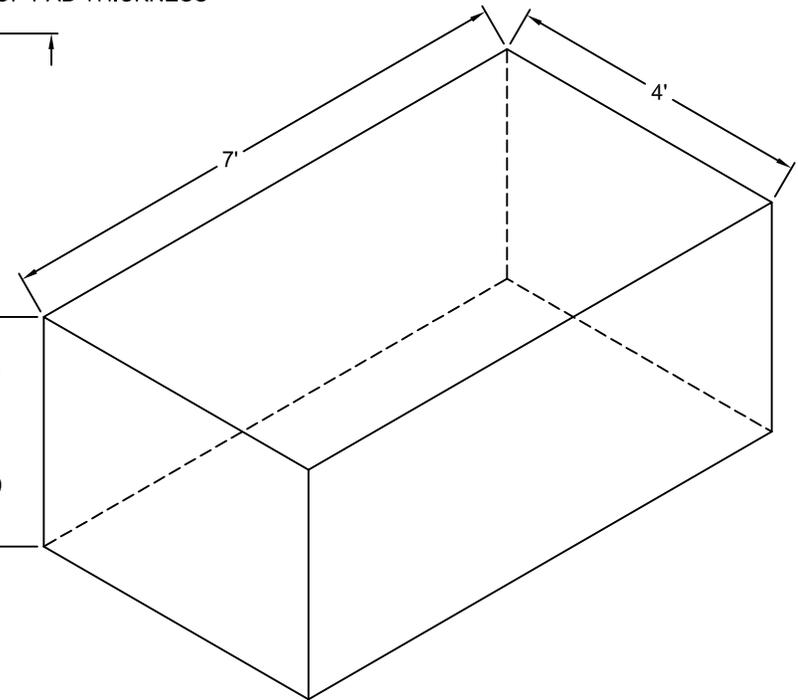


8" to 10" TOP PAD THICKNESS

BELOW LOCAL FROST DEPTH (3' MIN.)

### OPTION #2:

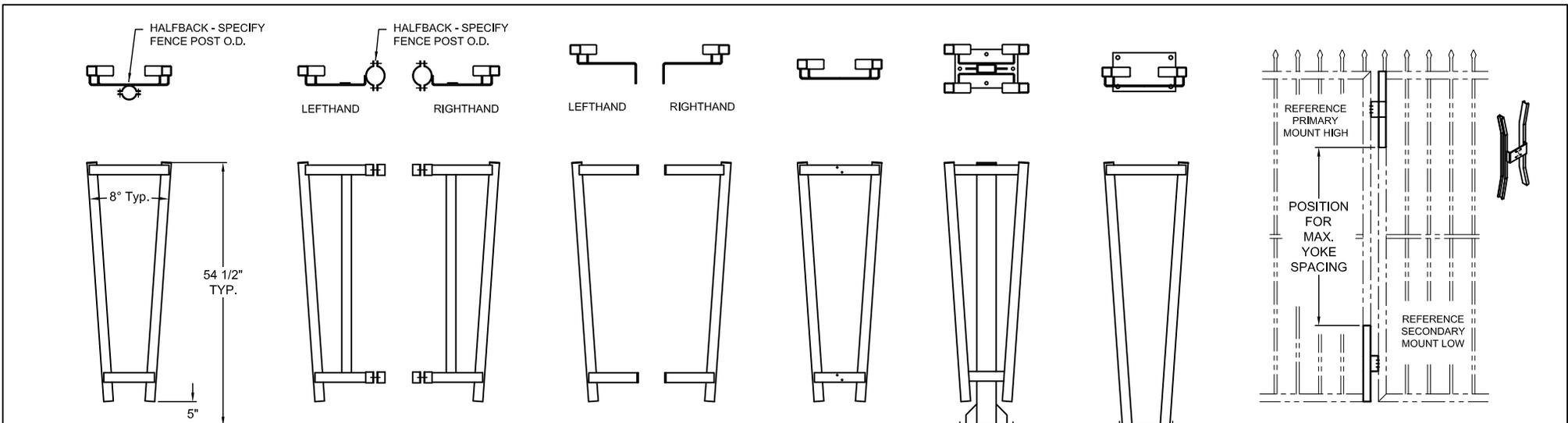
FULL CONCRETE PAD WITH RE-BAR WHERE APPLICABLE



### NOTES:

- \* ALL PAD DEPTHS SHOULD BE BELOW LOCAL FROST DEPTH
- \* TOP OF PAD SHOULD BE FLAT AND LEVEL

Date: 12/21/05	
Drn. By: MKS	
Supercedes: 7/12/04	
Dwg.: 102-P	Berlin Heights, Ohio FAX (419) 588-3514
Title: Operator PAD Layout / Options	



GRADE

**STYLE 'A'**  
POST MOUNTED

**STYLE 'B'**  
POST MOUNTED

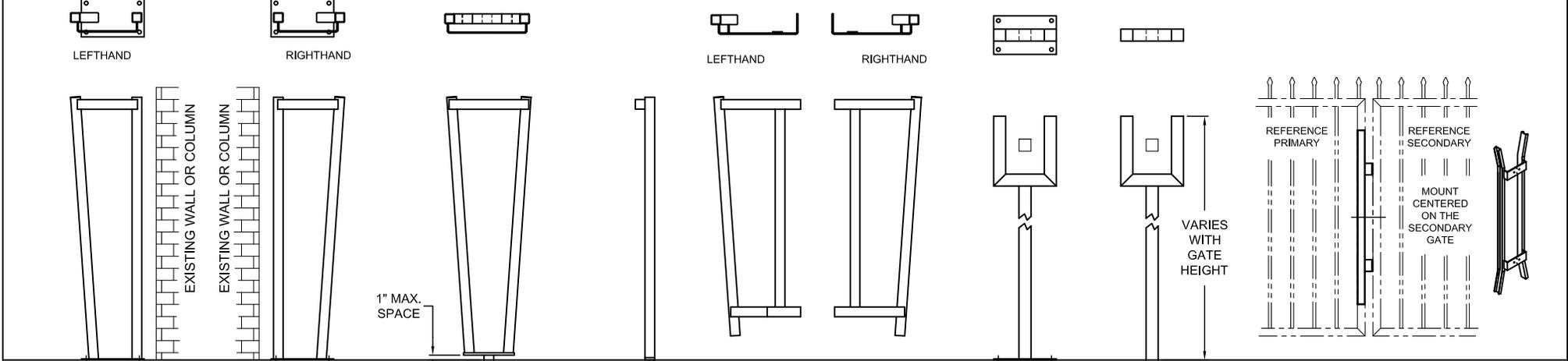
**STYLE 'C'**  
OFFSET WALL OR POST MOUNTED

**STYLE 'D'**  
WALL OR POST MOUNT

**STYLE 'DA5'**  
PAD MOUNTED

**STYLE 'E'**  
\* STANDARD \*  
PAD MOUNTED

**STYLE 'DUAL SPLIT'**  
FOR DUAL GATES 8' AND TALLER  
MOUNT HIGH ON PRIMARY, LOW ON SECONDARY  
(UNLESS OTHERWISE SPECIFIED)



GRADE

**STYLE 'F'**  
GATE PERPENDICULAR TO WALL

**STYLE 'G'**  
BURIED IN THE GROUND

**STYLE 'H'**  
OFFSET WALL OR POST MOUNTED

**STYLE 'BARRACUDA'**  
PAD MOUNTED OR BURIED

**STYLE 'DUAL CENTER'**  
FOR DUAL GATES SHORTER THAN 8'  
MOUNTED ON THE SECONDARY GATE  
(UNLESS OTHERWISE SPECIFIED)

**NOTES:**

- \* STANDARD PAD AND POST MOUNTED YOKE ARE 5" TALL.
- \* STYLES 'G' AND 'BARRACUDA' RECESS ADDITIONAL 36" BELOW GRADE.
- \* STYLES 'A','B','C','D' & 'H' ARE MOUNTED 5" ABOVE GRADE.
- \* UNLESS SPECIFIED, GATE IS FURNISHED WITH STYLE 'E'.
- \* PRIMARY AND SECONDARY YOKE CONFIGURATION BASED ON HEIGHT.

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ± 1°

X/X ± 1/32, XX ± .01, .XXX ± .005

Date: 12/21/05  
 Drn. By: MKS  
 Ckd. By: DMR



**DO NOT SCALE**

Rev.:	Description:	Date:	Drn. By:	Ckd. By:
E	STYLE 'DUAL CENTER' WAS MOUNTED ON PRIMARY GATE	02/09/17	MKS	KAY
D	RE-ARRANGED ALL & ADDED DUAL STYLE YOKE	11/25/14	KAY	DMR

Rev.:	Description:	Date:	Drn. By:	Ckd. By:
C	ADDED "DA5" STYLE YOKE (DOUBLE PAD MOUNTED)	07/01/14	MKS	EGS
B2	ADDED "H" STYLE YOKE	01/17/13	SLD	KLL
B1	ADDED BARRACUDA STYLE YOKE	01/17/13	SLD	SLD
A	ADDED FLATBAR TO STYLE "B" YOKE	08/27/10	MKS	DMR

Dwg.: 105 YOKE STYLES

Title: YOKE STYLES (5' STANDARD)