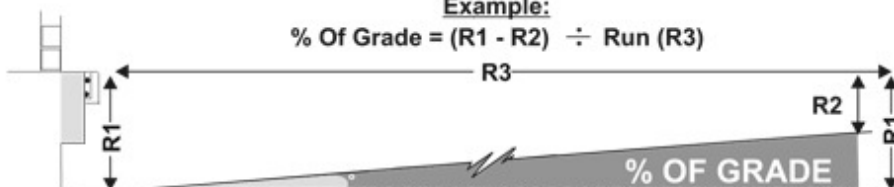


**SLOPED DRIVEWAY APPROACH FORMULA: % OF GRADE = RISE (R<sub>1</sub> - R<sub>2</sub>) DIVIDED BY RUN (R<sub>3</sub>)**

- Rise is the difference in elevation between the dock and point in front of dock, e.g. 50'
- Run is the actual distance on the driveway that the rise is measured e.g. 50' to match the average "over-the-road" trailer length
- To determine this on site, use a 50' string line. Restrict access to dock leveler and loading dock position take all safety precautions, secure string line to top of lip spool of dock leveler when in the cross-traffic position or loading dock floor. Walk out 50' and measure vertical drop to grade. Use level for accurate height level.

**Example:**

**% Of Grade = (R<sub>1</sub> - R<sub>2</sub>) ÷ Run (R<sub>3</sub>)**



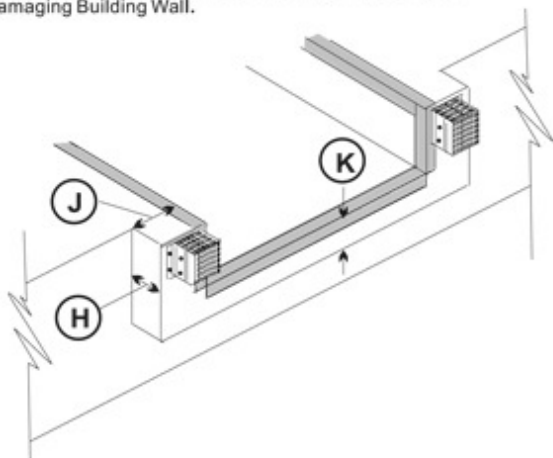
Slope of Driveway:

- Level \_\_\_\_\_ Length
- Incline \_\_\_\_\_ % Grade
- Decline \_\_\_\_\_ % Grade

Please State The Following In Round Numbers Same Unit of Measurement R1 = \_\_\_\_\_ R2 = \_\_\_\_\_ Run (R3) = \_\_\_\_\_

**PROJECTED PIT**

For Decline Docks, Prevents Backing Trucks From Damaging Building Wall.



- H** Projection Length Increases Proportionally To The Amount Of Decline + 4" Standard Bumper (See Chart).
- J** Width Of Pit Bumper Projection To Suit Size & Style Of Bumper Selected. For Laminated Bumper Allow 4" Extra Beyond Bumper Width. Recommend 18" For Blue Giant Standard Bumper.
- K** Minimum 6"- 8" Reinforced Concrete

**RECOMMENDED - PROJECTED PIT**

GRADE %	PIT PROJECTION	+ MIN BUMPER	= TOTAL PROJECTION
0%	LEVEL	4"	4"
1%	2"	4"	6"
2%	3"	4"	7"
3%	4"	4"	8"
4%	5"	4"	9"
5%	6"	4"	10"
6%	7"	4"	11"
7%	8"	4"	12"
8%	9"	4"	13"
9%	10"	4"	14"
10%	11"	4"	15"

\* It Is Strongly Recommended For 1% - 3% Of Grade, Bumper Projection May Be Required Using Build Out Blocks, Extensions Or Thicker Bumpers. Consideration Of Lip Purchase Is Required If Existing Installation. Minimum 4" -6" Lip Purchase On Trailer Bed Is Required.

**! WARNING**

Spotting Tractors (Yard Jockeys) When Used At The Loading Dock To Switch Trailers, Creates A Momentary Decline Slope. This Is Due To The Front Of The Trailer Being Lifted, Which In Turn Tilts The Back Of The Trailer To The Building. This Creates Lack Of Bumper Projection, Which Can Damage The Building And Injure Personnel. Please Contact Blue Giant For Further Information At (800) 668 - 7078.