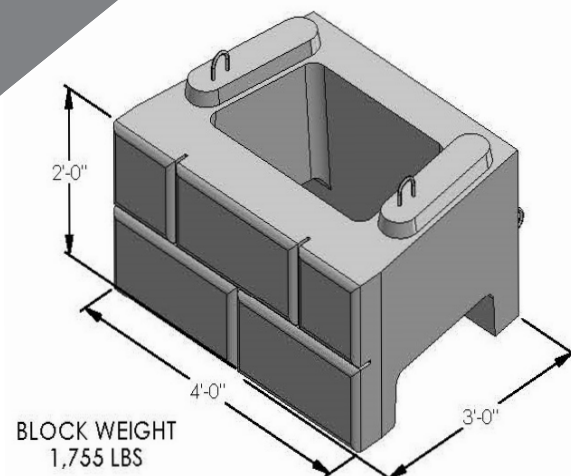


# Block Library

## Section 2



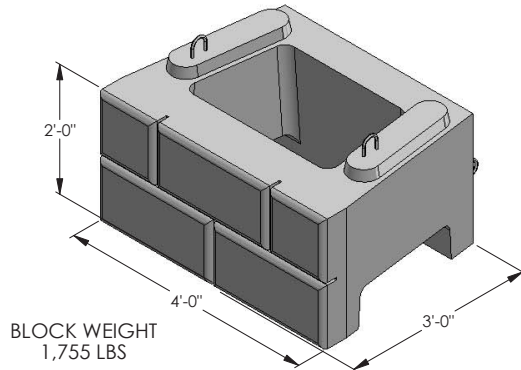
STANDARD BLOCK



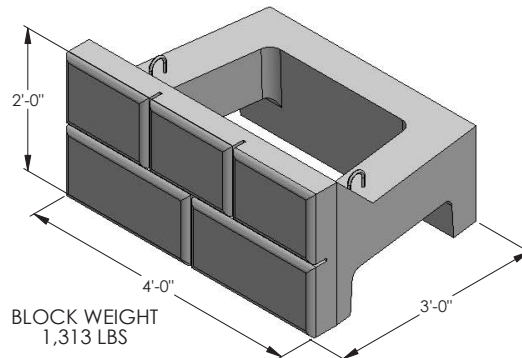
[www.verti-block.com](http://www.verti-block.com)

## 36" BLOCK SERIES

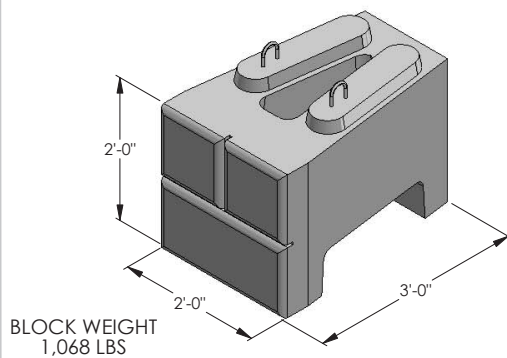
STANDARD BLOCK



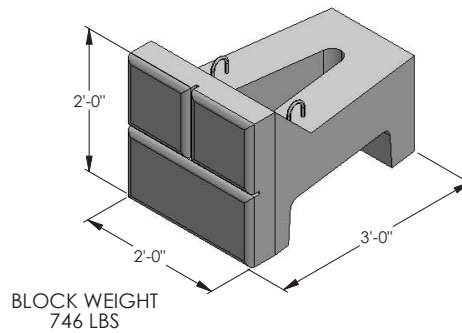
STANDARD TOP BLOCK



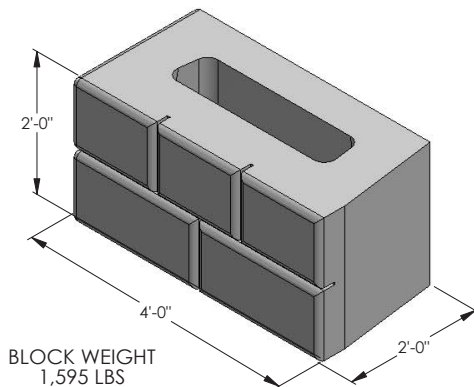
HALF BLOCK



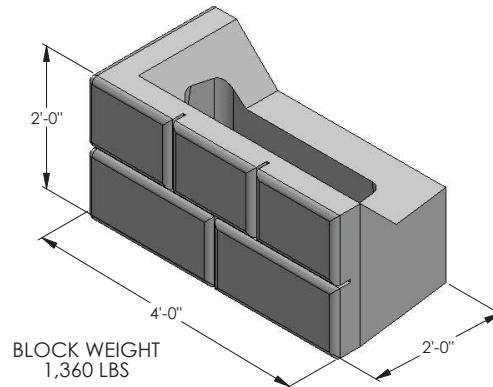
HALF TOP BLOCK



CORNER BLOCK



CORNER TOP BLOCK



DRAWN BY  
DAN BALLING

DATE  
11/25/2013

16500 SOUTH 500 WEST  
BLUFFDALE, UTAH 84065  
PHONE: (801) 571-2028

TITLE:

36" BLOCK SERIES

DWG NO.

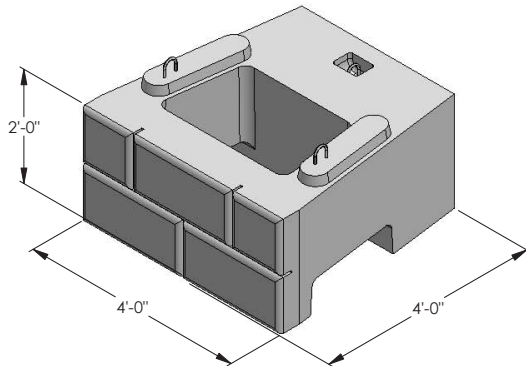
BD-01

SCALE: 1:20

SHEET 1 OF 1

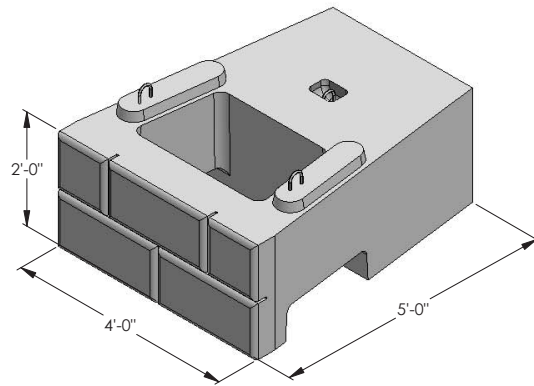
## MASS EXTENDER REGULAR BLOCK SERIES

48" MASS EXTENDER



BLOCK WEIGHT  
2,674 LBS

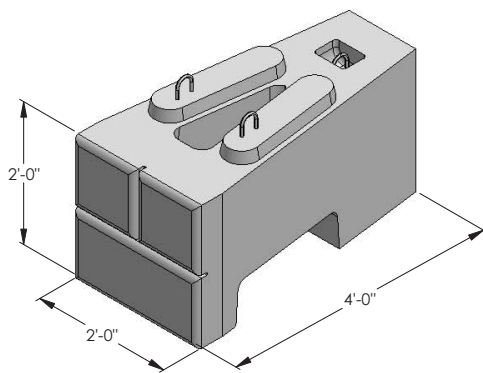
60" MASS EXTENDER



BLOCK WEIGHT  
3,509 LBS

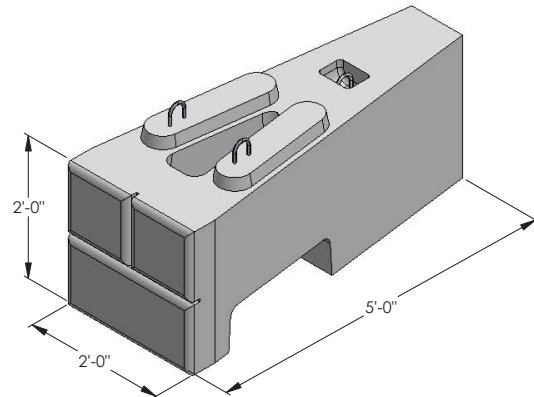
## MASS EXTENDER HALF BLOCK SERIES

48" HALF BLOCK MASS EXTENDER



BLOCK WEIGHT  
1,392 LBS

60" HALF BLOCK MASS EXTENDER



BLOCK WEIGHT  
1,661 LBS



DRAWN BY  
RYAN FONTANESI

DATE  
5/23/2016

16500 SOUTH 500 WEST  
BLUFFDALE, UTAH 84065  
PHONE: (801) 571-2028

TITLE:  
MASS EXTENDER BLOCK SERIES

DWG NO.

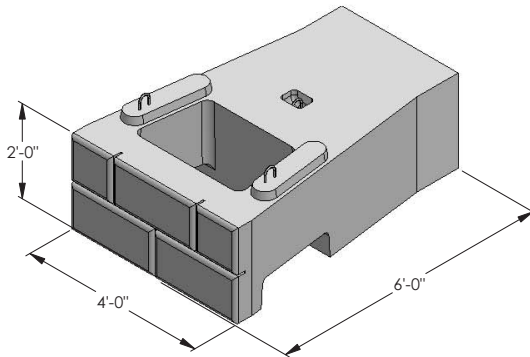
BD-05

SCALE: 1: 20

SHEET 1 OF 2

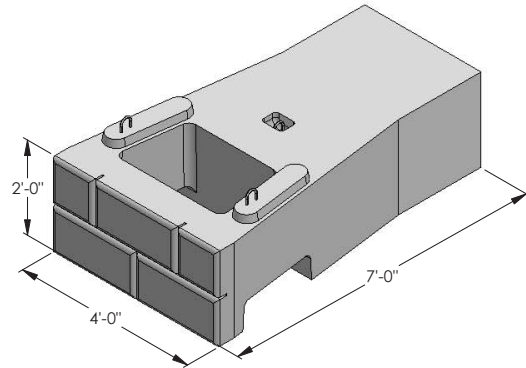
## MASS EXTENDER REGULAR BLOCK SERIES CONT.

72" MASS EXTENDER



BLOCK WEIGHT  
4,300 LBS

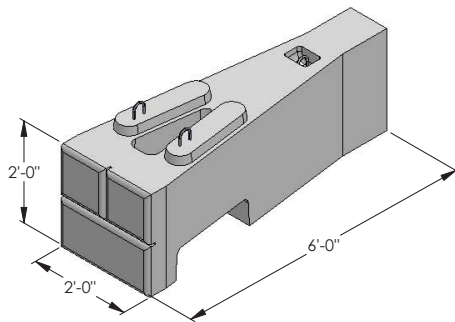
84" MASS EXTENDER



BLOCK WEIGHT  
5,100 LBS

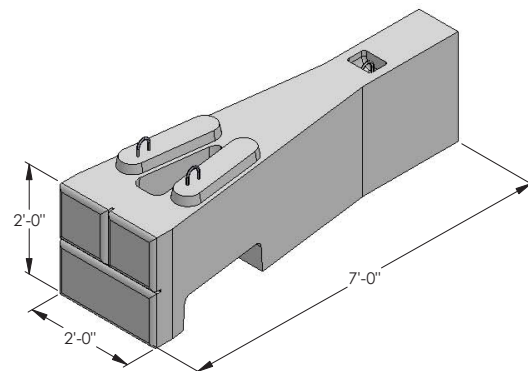
## MASS EXTENDER HALF BLOCK SERIES CONT.

72" HALF BLOCK MASS EXTENDER



BLOCK WEIGHT  
1,905 LBS

84" HALF BLOCK MASS EXTENDER



BLOCK WEIGHT  
2,140 LBS

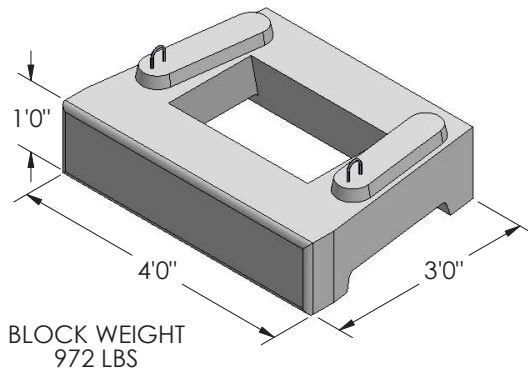


DRAWN BY	DATE
RYAN FONTANESI	5/23/2016
16500 SOUTH 500 WEST BLUFFDALE, UTAH 84065 PHONE: (801) 571-2028	

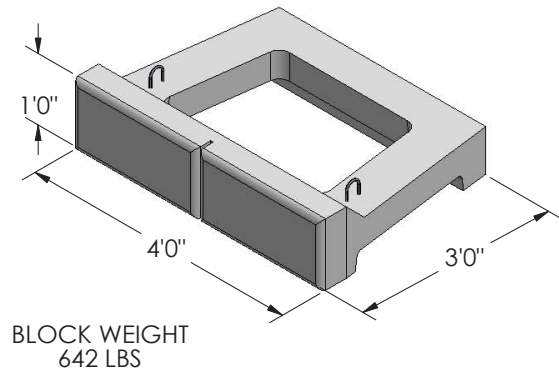
TITLE:	MASS EXTENDER BLOCK SERIES
DWG NO.	BD-05
SCALE: 1: 20	SHEET 2 OF 2

# HALF-STEP SERIES

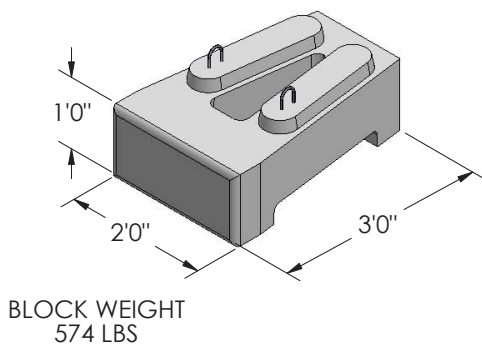
STANDARD HALF-STEP BLOCK



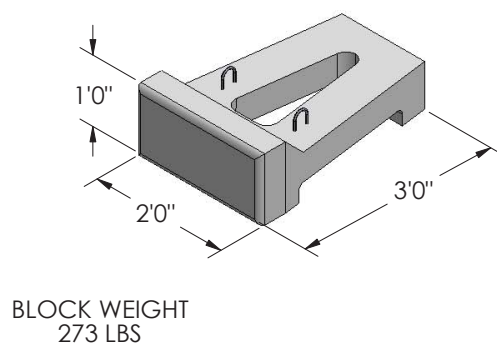
HALF-STEP TOP BLOCK



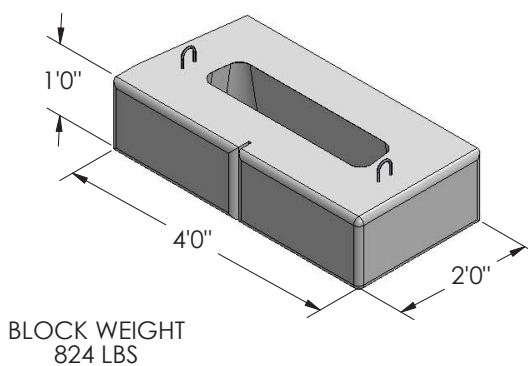
HALF-STEP HALF BLOCK



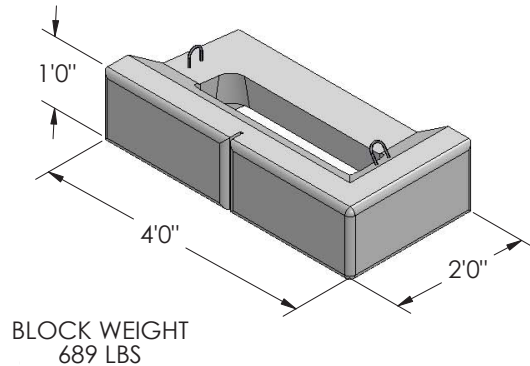
HALF-STEP HALF TOP BLOCK



HALF-STEP CORNER BLOCK



CORNER TOP BLOCK



DRAWN BY  
R FONTANESI

DATE  
6/16/2015

16500 SOUTH 500 WEST  
BLUFFDALE, UTAH 84065  
PHONE: (801) 571-2028

TITLE:  
HALF-STEP BLOCK SERIES

DWG NO.  
BD-14

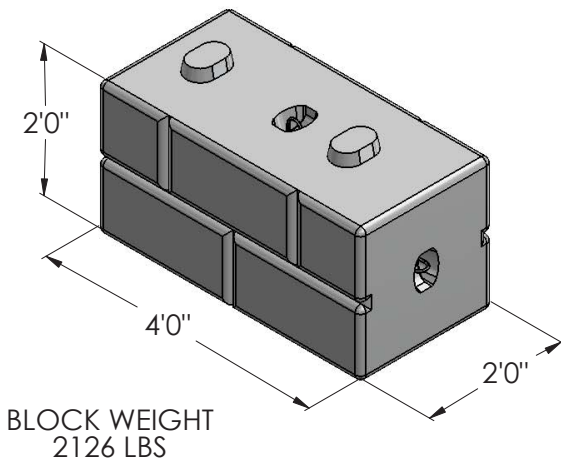
SCALE: N/A

SHEET 1 OF 1

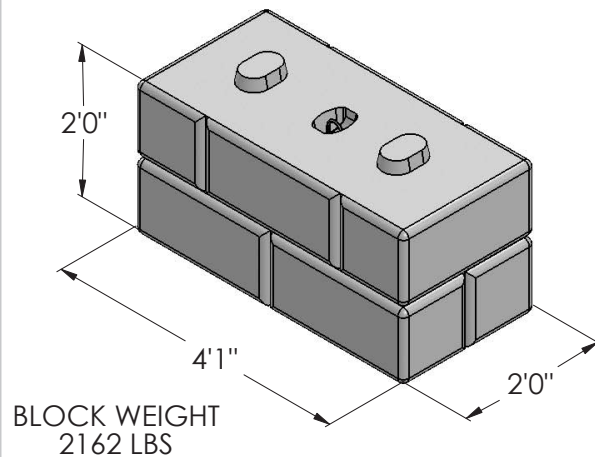


## 2 & 3 SIDED BLOCK SERIES

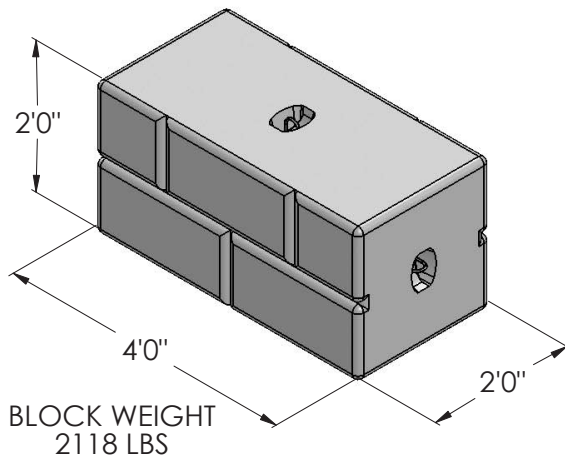
2-SIDED BLOCK WITH LUG



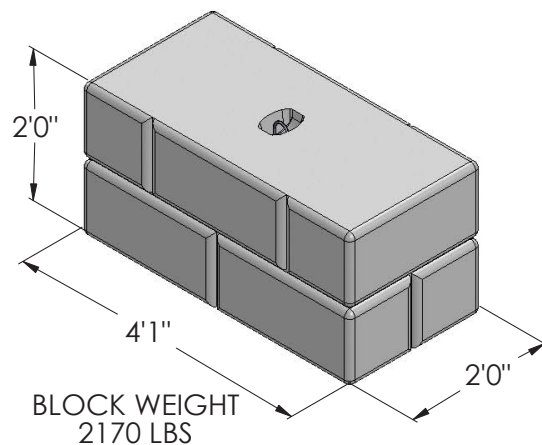
3-SIDED BLOCK WITH LUG



2-SIDED BLOCK WITHOUT LUG



3-SIDED BLOCK WITHOUT LUG

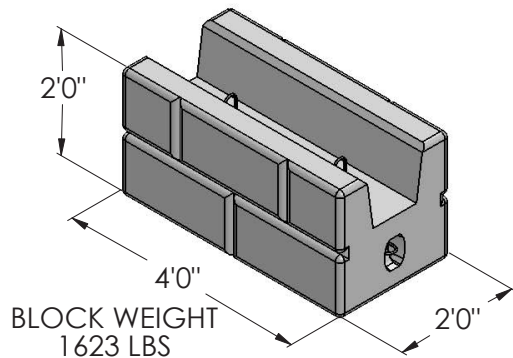


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16500 SOUTH 500 WEST BLUFFDALE, UTAH 84065 PHONE: (801) 571-2028	

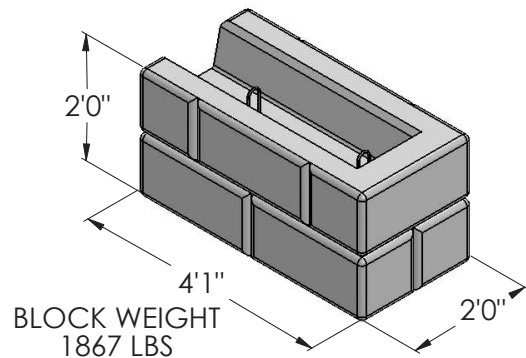
TITLE: 2 & 3 SIDED BLOCKS		
DWG NO. BD-13	REV. 02	
SCALE: NA	WEIGHT: SEE ABOVE	SHEET 1 OF 3

## 2 & 3 SIDED BLOCK SERIES

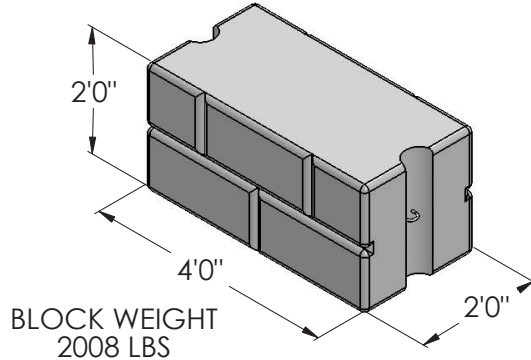
2-SIDED PLANTER BLOCK



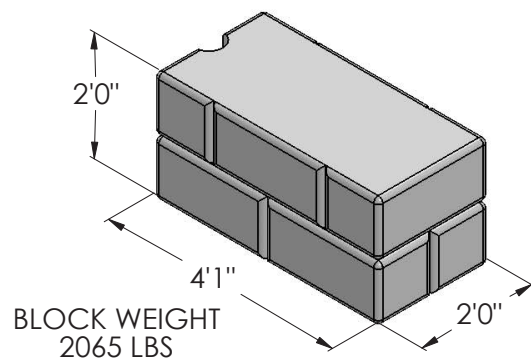
3-SIDED PLANTER BLOCK



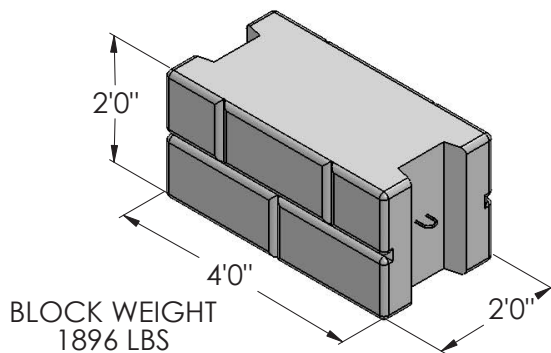
2-SIDED IMPACT PROTECTION BLOCK



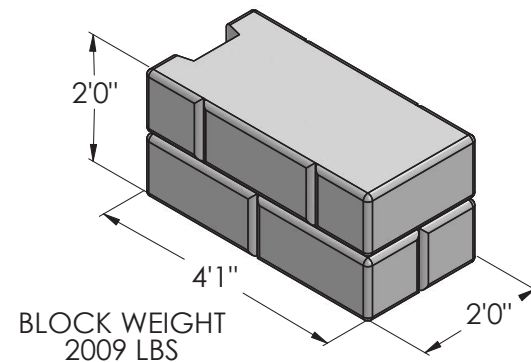
3-SIDED IMPACT PROTECTION BLOCK



2-SIDED VARIABLE CURVE BLOCK



3-SIDED VARIABLE CURVE BLOCK

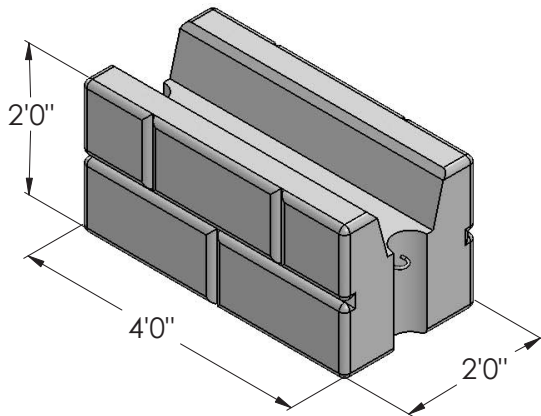


DRAWN BY	DATE
R FONTANESI	2/11/2016
16500 SOUTH 500 WEST BLUFFDALE, UTAH 84065 PHONE: (801) 571-2028	

TITLE: 2 & 3 SIDED BLOCKS		REV. 02
DWG NO. BD-13		
SCALE: NA	WEIGHT: SEE ABOVE	SHEET 2 OF 3

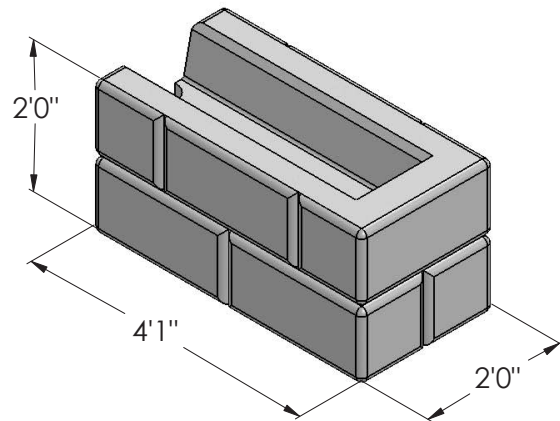
## 2 & 3 SIDED BLOCK SERIES

2 SIDED IMPACT PROTECTION/PLANTER BLOCK



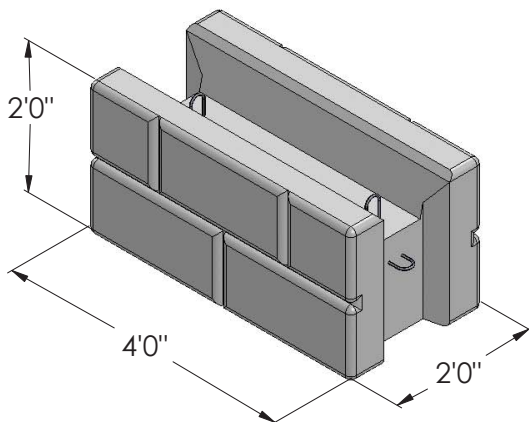
BLOCK WEIGHT  
1696 LBS

2 SIDED IMPACT PROTECTION/PLANTER BLOCK



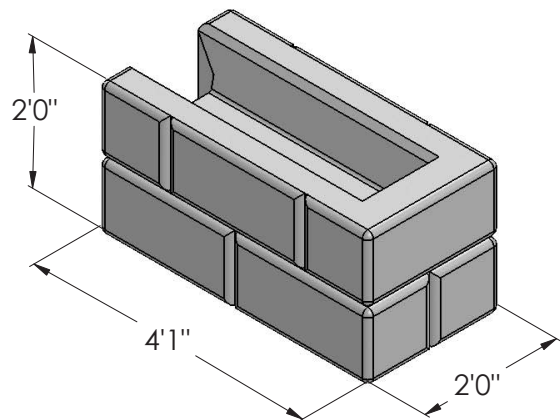
BLOCK WEIGHT  
1848 LBS

2 SIDED VARIABLE CURVE/PLANTER BLOCK



BLOCK WEIGHT  
1608 LBS

3 SIDED VARIABLE CURVE/PLANTER BLOCK



BLOCK WEIGHT  
1809 LBS

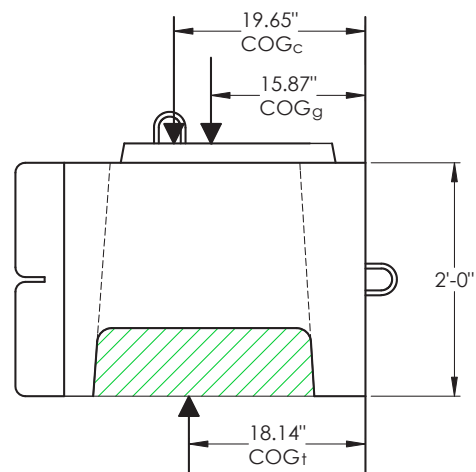
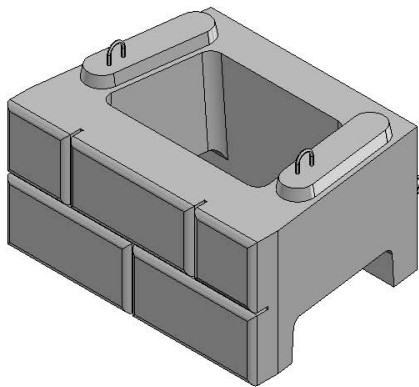
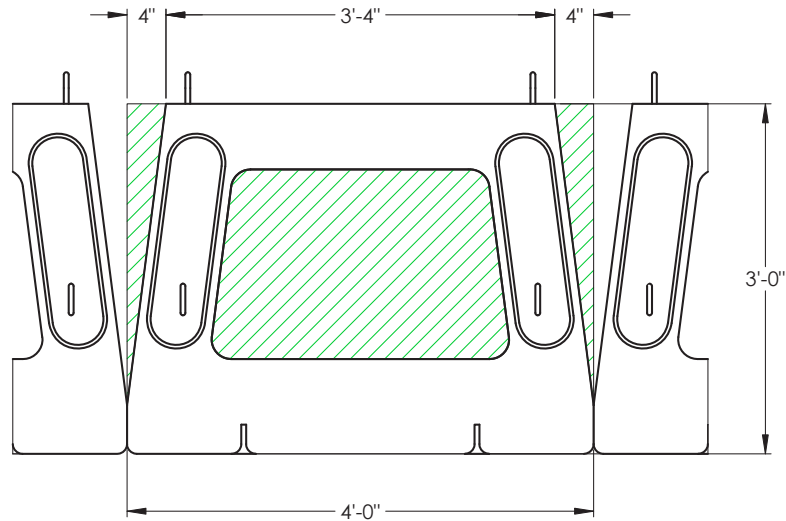


DRAWN BY	DATE
R FONTANESI	2/11/2016
16500 SOUTH 500 WEST BLUFFDALE, UTAH 84065 PHONE: (801) 571-2028	

TITLE: 2 & 3 SIDED BLOCKS		
DWG NO.	REV.	
BD-13	02	
SCALE: NA	WEIGHT: SEE ABOVE	SHEET 3 OF 3



## 36" STANDARD BLOCK & GRAVEL INFILL



### CONCRETE BLOCK DATA

DESIGN UNIT WEIGHT ( $\gamma_c$ ) = 142 pcf  
VOLUME ( $V_c$ ) = 12.36 cft  
BLOCK WEIGHT ( $W_c$ ) = 1,755 lbs  
CENTER OF GRAVITY ( $COG_c$ ) = 19.65" (SEE NOTES)

### GRAVEL INFILL DATA

DESIGN UNIT WEIGHT ( $\gamma_g$ ) = 110 pcf  
VOLUME ( $V_g$ ) = 11.64 cft  
GRAVEL INFILL WEIGHT ( $W_g$ ) = 1,280 lbs  
CENTER OF GRAVITY ( $COG_g$ ) = 15.87" (SEE NOTES)

### NOTES:

- VOLUME, WEIGHT AND COG CALCULATIONS WERE DONE USING CAD SOFTWARE.
- COG MEASUREMENTS ARE FROM BACK OF BLOCK

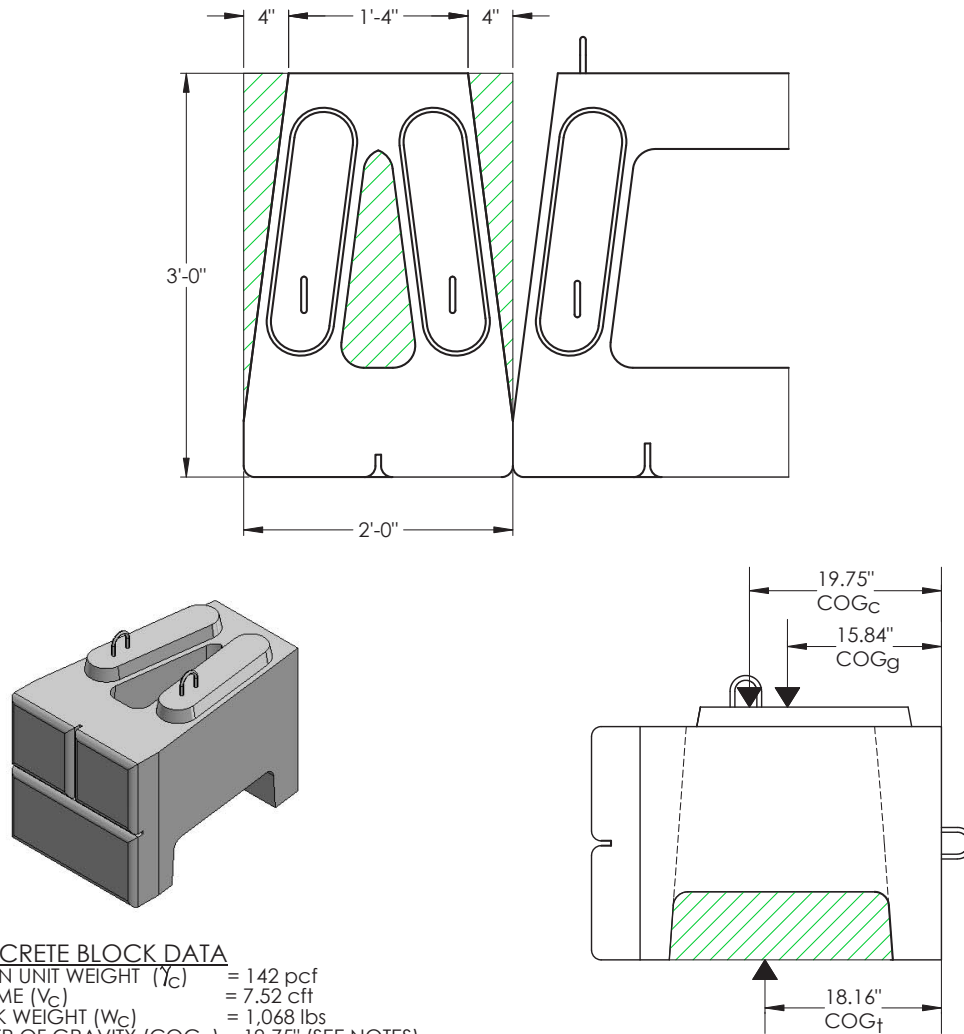
### COMBINED UNIT DATA

DESIGN UNIT WEIGHT ( $\gamma_t$ ) = (1,755 lbs + 1,280 lbs) / 24 cft = 126 pcf  
VOLUME ( $V_t$ ) = 12.36 cft + 11.64 cft = 24.00 cft  
TOTAL UNIT WEIGHT ( $W_t$ ) = 3,035 lbs  
CENTER OF GRAVITY ( $COG_t$ ) = 18.14" (SEE NOTES)



DRAWN BY	DATE	TITLE:
DAN BALLING	11/25/2013	STANDARD BLOCK
16500 SOUTH 500 WEST BLUFFDALE, UTAH 84065 PHONE: (801) 571-2028		DWG NO.
		BD-02
SCALE: 1: 15		SHEET 1 OF 1

## 36" HALF BLOCK & GRAVEL INFILL



### CONCRETE BLOCK DATA

DESIGN UNIT WEIGHT ( $\gamma_c$ ) = 142 pcf  
 VOLUME ( $V_c$ ) = 7.52 cft  
 BLOCK WEIGHT ( $W_c$ ) = 1,068 lbs  
 CENTER OF GRAVITY ( $COG_c$ ) = 19.75" (SEE NOTES)

### GRAVEL INFILL DATA

DESIGN UNIT WEIGHT ( $\gamma_g$ ) = 110 pcf  
 VOLUME ( $V_g$ ) = 4.48 cft  
 GRAVEL INFILL WEIGHT ( $W_g$ ) = 493 lbs  
 CENTER OF GRAVITY ( $COG_g$ ) = 15.84" (SEE NOTES)

### NOTES:

- VOLUME, WEIGHT AND COG CALCULATIONS WERE DONE USING CAD SOFTWARE.
- COG MEASUREMENTS ARE FROM BACK OF BLOCK

### COMBINED UNIT DATA

DESIGN UNIT WEIGHT ( $\gamma_t$ ) = (1,068 lbs + 493 lbs) / 12 cft = 130 pcf  
 VOLUME ( $V_t$ ) = 7.52 cft + 4.48 cft = 12.00 cft  
 TOTAL UNIT WEIGHT ( $W_t$ ) = 1,561 lbs  
 CENTER OF GRAVITY ( $COG_t$ ) = 18.16" (SEE NOTES)



DRAWN BY  
DAN BALLING

DATE  
11/25/2013

16500 SOUTH 500 WEST  
BLUFFDALE, UTAH 84065  
PHONE: (801) 571-2028

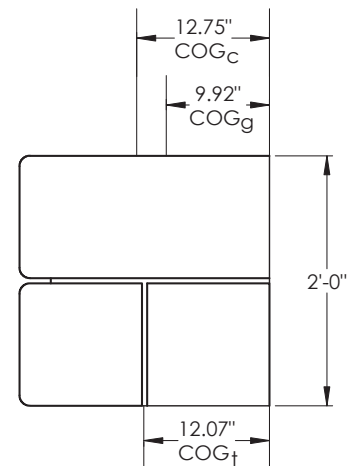
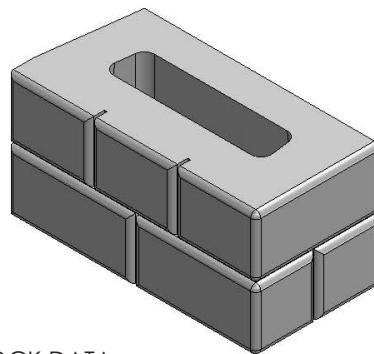
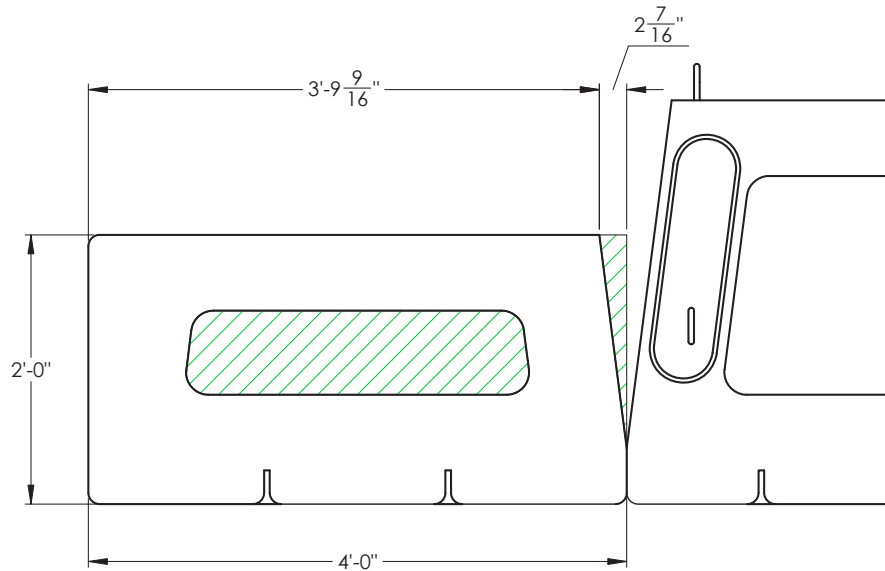
TITLE:  
HALF BLOCK

DWG NO.  
BD-03

SCALE: 1: 15

SHEET 1 OF 1

## 24" CORNER BLOCK & GRAVEL INFILL



### CONCRETE BLOCK DATA

DESIGN UNIT WEIGHT ( $\gamma_c$ ) = 142 pcf  
VOLUME ( $V_c$ ) = 11.23 cft  
BLOCK WEIGHT ( $W_c$ ) = 1,595 lbs  
CENTER OF GRAVITY ( $COG_c$ ) = 12.75" (SEE NOTES)

### GRAVEL INFILL DATA

DESIGN UNIT WEIGHT ( $\gamma_g$ ) = 110 pcf  
VOLUME ( $V_g$ ) = 4.77 cft  
GRAVEL INFILL WEIGHT ( $W_g$ ) = 508 lbs  
CENTER OF GRAVITY ( $COG_g$ ) = 9.92" (SEE NOTES)

### NOTES:

- VOLUME, WEIGHT AND COG CALCULATIONS WERE DONE USING CAD SOFTWARE.
- COG MEASUREMENTS ARE FROM BACK OF BLOCK

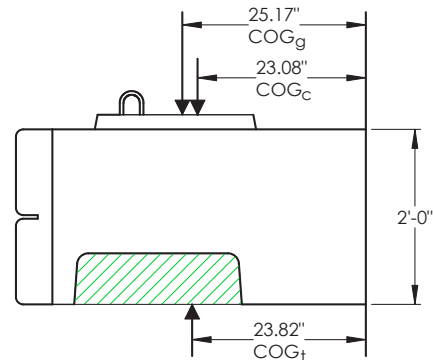
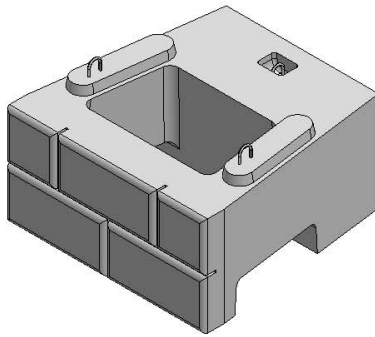
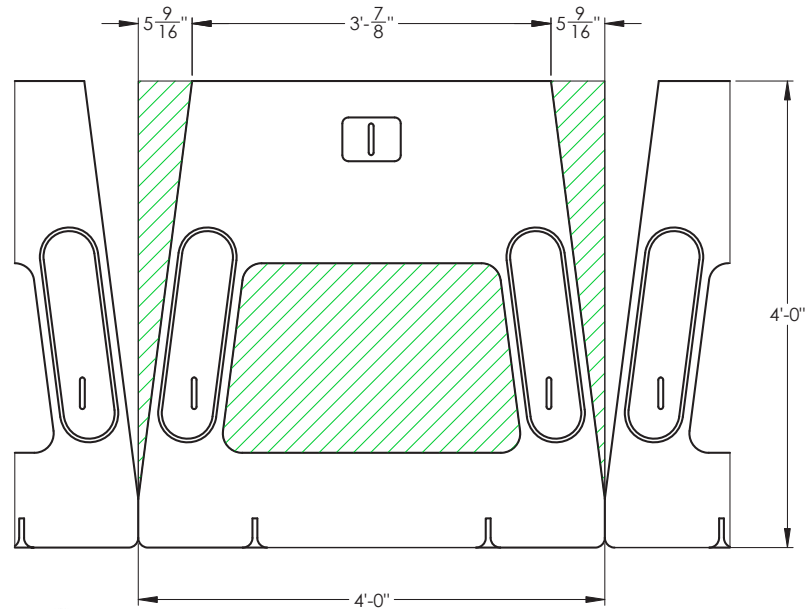
### COMBINED UNIT DATA

DESIGN UNIT WEIGHT ( $\gamma_t$ ) = (1,595 lbs + 508 lbs) / 16 cft = 131 pcf  
VOLUME ( $V_t$ ) = 11.23 cft + 4.77 cft = 16.00 cft  
TOTAL UNIT WEIGHT ( $W_t$ ) = 2,103 lbs  
CENTER OF GRAVITY ( $COG_t$ ) = 12.07" (SEE NOTES)



DRAWN BY	DATE	TITLE:
DAN BALLING	11/25/2013	CORNER BLOCK
16500 SOUTH 500 WEST BLUFFDALE, UTAH 84065 PHONE: (801) 571-2028		DWG NO.
		BD-04
SCALE: 1: 15		SHEET 1 OF 1

## 48" MASS EXTENDER BLOCK & GRAVEL INFILL



### CONCRETE BLOCK DATA

DESIGN UNIT WEIGHT ( $\gamma_c$ ) = 142 pcf  
 VOLUME ( $V_c$ ) = 18.83 cft  
 BLOCK WEIGHT ( $W_c$ ) = 2,674 lbs  
 CENTER OF GRAVITY ( $COG_c$ ) = 23.08" (SEE NOTES)

### GRAVEL INFILL DATA

DESIGN UNIT WEIGHT ( $\gamma_g$ ) = 110 pcf  
 VOLUME ( $V_g$ ) = 13.17 cft  
 GRAVEL INFILL WEIGHT ( $W_g$ ) = 1,449 lbs  
 CENTER OF GRAVITY ( $COG_g$ ) = 25.17" (SEE NOTES)

### NOTES:

- VOLUME, WEIGHT AND COG CALCULATIONS WERE DONE USING CAD SOFTWARE.
- COG MEASUREMENTS ARE FROM BACK OF BLOCK

### COMBINED UNIT DATA

DESIGN UNIT WEIGHT ( $\gamma_t$ ) = (2,674 lbs + 1,449 lbs) / 32 cft = 129 pcf  
 VOLUME ( $V_t$ ) = 18.83 cft + 13.17 cft = 32.00 cft  
 TOTAL UNIT WEIGHT ( $W_t$ ) = 4,123 lbs  
 CENTER OF GRAVITY ( $COG_t$ ) = 23.82" (SEE NOTES)



DRAWN BY: DAN BALLING  
 DATE: 11/25/2013  
 16500 SOUTH 500 WEST  
 BLUFFDALE, UTAH 84065  
 PHONE: (801) 571-2028

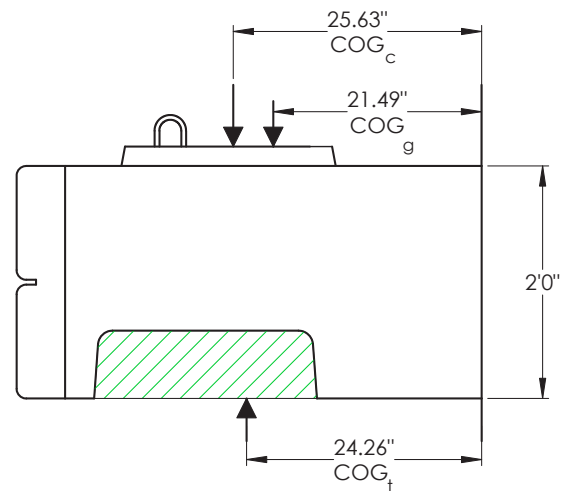
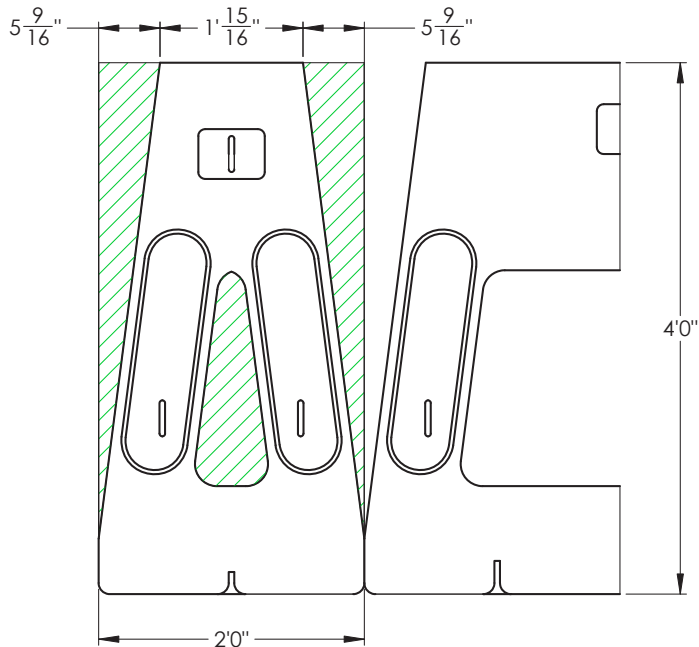
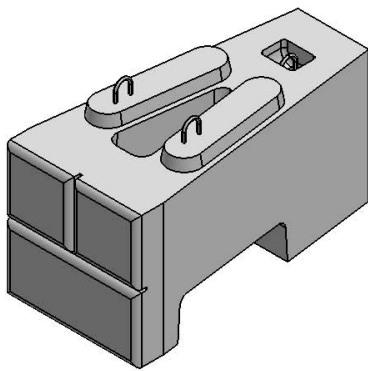
TITLE: 48" MASS EXTENDER

DWG NO. BD-06

SCALE: 1: 20

SHEET 1 OF 1

## 48" HALF BLOCK MASS EXTENDER & GRAVEL INFILL



### CONCRETE BLOCK DATA

DESIGN UNIT WEIGHT ( $\gamma_c$ ) = 142 pcf  
VOLUME ( $V_c$ ) = 9.80 cft  
BLOCK WEIGHT ( $W_c$ ) = 1,392 lbs  
CENTER OF GRAVITY ( $COG_c$ ) = 25.63" (SEE NOTES)

### GRAVEL INFILL DATA

DESIGN UNIT WEIGHT ( $\gamma_g$ ) = 110 pcf  
VOLUME ( $V_g$ ) = 6.20 cft  
GRAVEL INFILL WEIGHT ( $W_g$ ) = 682 lbs  
CENTER OF GRAVITY ( $COG_g$ ) = 21.49" (SEE NOTES)

### COMBINED UNIT DATA

DESIGN UNIT WEIGHT ( $\gamma_t$ ) = (1,392 lbs + 682 lbs) / 16 cft = 130 pcf  
VOLUME ( $V_t$ ) = 9.80 cft + 6.20 cft = 16.00 cft  
TOTAL UNIT WEIGHT ( $W_t$ ) = 2,074 lbs  
CENTER OF GRAVITY ( $COG_t$ ) = 24.26" (SEE NOTES)

### NOTES:

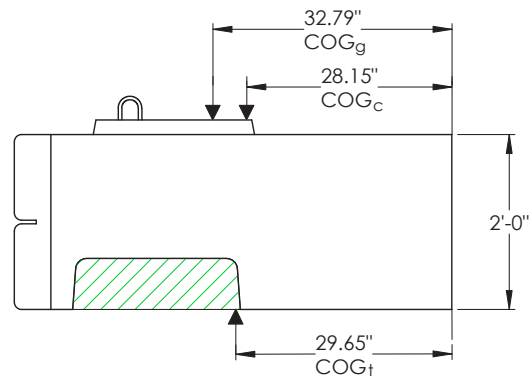
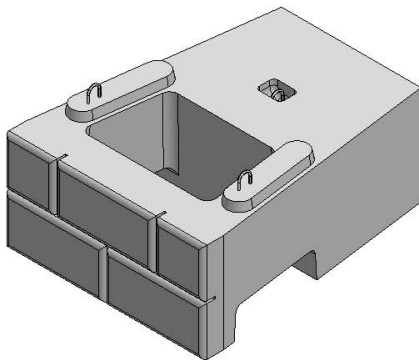
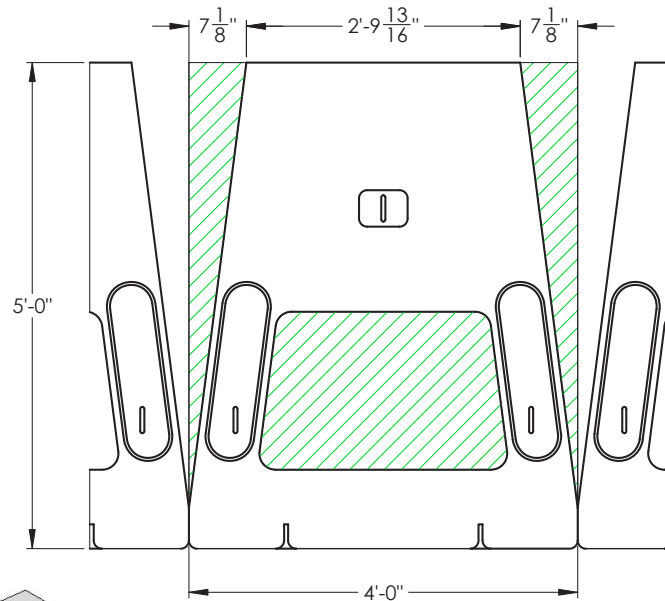
- VOLUME, WEIGHT AND COG CALCULATIONS WERE DONE USING CAD SOFTWARE.
- COG MEASUREMENTS ARE FROM BACK OF BLOCK



DRAWN BY	DATE	TITLE: 48" HALF MASS EXTENDER	
R FONTANESI	11/8/2016	DWG NO.	REV.
16500 SOUTH 500 WEST BLUFFDALE, UTAH 84065 PHONE: (801) 571-2028		BD-08	01
SCALE: NA		WEIGHT: SEE ABOVE	SHEET 1 OF 1



## 60" MASS EXTENDER BLOCK & GRAVEL INFILL



### CONCRETE BLOCK DATA

DESIGN UNIT WEIGHT ( $\gamma_c$ ) = 142 pcf  
 VOLUME ( $V_c$ ) = 24.71 cft  
 BLOCK WEIGHT ( $W_c$ ) = 3,509 lbs  
 CENTER OF GRAVITY ( $COG_c$ ) = 28.15" (SEE NOTES)

### GRAVEL INFILL DATA

DESIGN UNIT WEIGHT ( $\gamma_g$ ) = 110 pcf  
 VOLUME ( $V_g$ ) = 15.29 cft  
 GRAVEL INFILL WEIGHT ( $W_g$ ) = 1,682 lbs  
 CENTER OF GRAVITY ( $COG_g$ ) = 32.79" (SEE NOTES)

### NOTES:

- VOLUME, WEIGHT AND COG CALCULATIONS WERE DONE USING CAD SOFTWARE.
- COG MEASUREMENTS ARE FROM BACK OF BLOCK

### COMBINED UNIT DATA

DESIGN UNIT WEIGHT ( $\gamma_t$ ) = (3,509 lbs + 1,682 lbs) / 40 cft = 130 pcf  
 VOLUME ( $V_t$ ) = 24.71 cft + 15.29 cft = 40.00 cft  
 TOTAL UNIT WEIGHT ( $W_t$ ) = 5,191 lbs  
 CENTER OF GRAVITY ( $COG_t$ ) = 29.65" (SEE NOTES)



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DAN BALLING

DATE  
11/25/2013

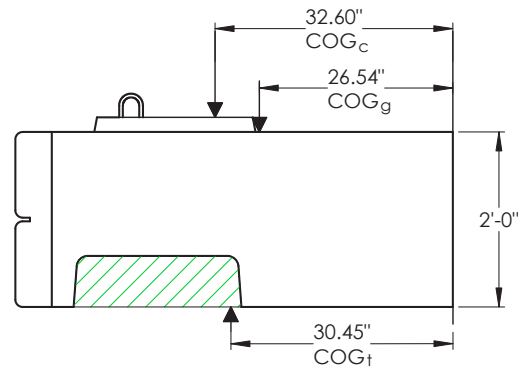
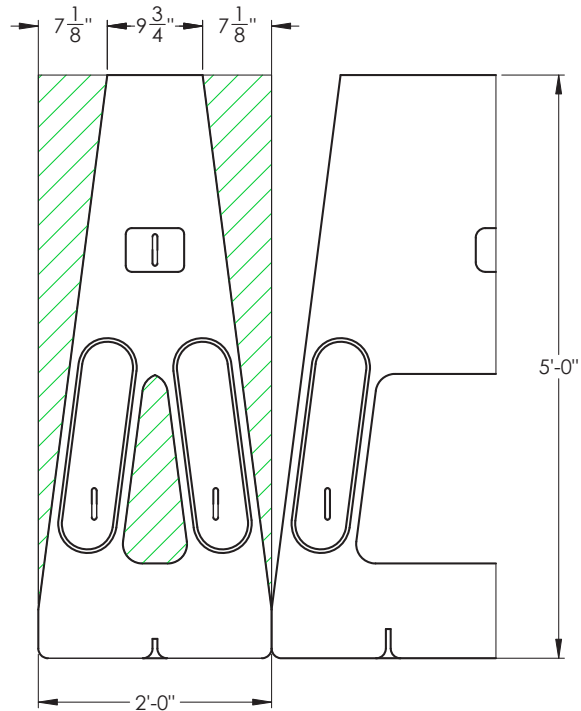
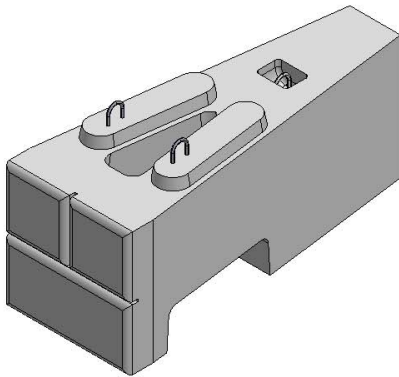
TITLE:  
60" MASS EXTENDER

DWG NO.  
BD-07

SCALE: 1: 20

SHEET 1 OF 1

## 60" HALF BLOCK MASS EXTENDER & GRAVEL INFILL



### CONCRETE BLOCK DATA

DESIGN UNIT WEIGHT ( $\gamma_c$ ) = 142 pcf  
VOLUME ( $V_c$ ) = 11.70 cft  
BLOCK WEIGHT ( $W_c$ ) = 1,661 lbs  
CENTER OF GRAVITY ( $COG_c$ ) = 32.60" (SEE NOTES)

### GRAVEL INFILL DATA

DESIGN UNIT WEIGHT ( $\gamma_g$ ) = 110 pcf  
VOLUME ( $V_g$ ) = 8.30 cft  
GRAVEL INFILL WEIGHT ( $W_g$ ) = 913 lbs  
CENTER OF GRAVITY ( $COG_g$ ) = 26.54" (SEE NOTES)

### NOTES:

- VOLUME, WEIGHT AND COG CALCULATIONS WERE DONE USING CAD SOFTWARE.
- COG MEASUREMENTS ARE FROM BACK OF BLOCK

### COMBINED UNIT DATA

DESIGN UNIT WEIGHT ( $\gamma_t$ ) = (1,661 lbs + 913 lbs) / 20 cft = 129 pcf  
VOLUME ( $V_t$ ) = 11.70 cft + 8.30 cft = 20.00 cft  
TOTAL UNIT WEIGHT ( $W_t$ ) = 2,574 lbs  
CENTER OF GRAVITY ( $COG_t$ ) = 30.45" (SEE NOTES)



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11/25/2013

16500 SOUTH 500 WEST  
BLUFFDALE, UTAH 84065  
PHONE: (801) 571-2028

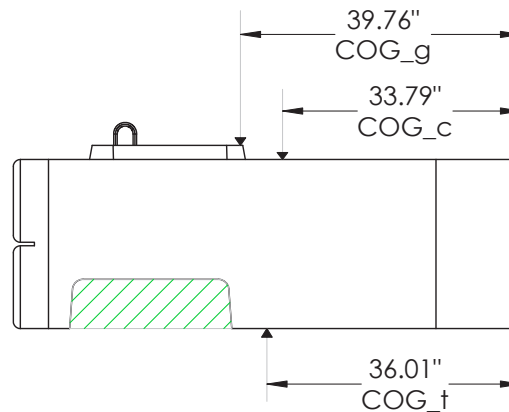
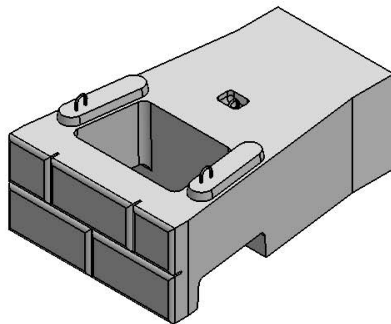
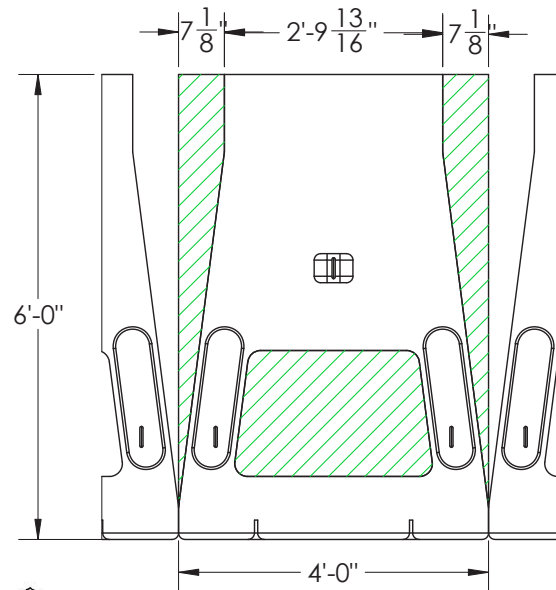
TITLE:  
60" HALF MASS EXTENDER

DWG NO.  
BD-09

SCALE: 1: 20

SHEET 1 OF 1

## 72" MASS EXTENDER BLOCK & GRAVEL INFILL



**CONCRETE BLOCK DATA**  
 DESIGN UNIT WEIGHT = 142 pcf  
 VOLUME = 30.26 cft  
 BLOCK WEIGHT = 4297 lbs  
 CENTER OF GRAVITY (COG\_c) = 33.79" (SEE NOTES)

**GRAVEL INFILL DATA**  
 DESIGN UNIT WEIGHT = 110 pcf  
 VOLUME = 17.85 cft  
 GRAVEL INFILL WEIGH = 1964 lbs  
 CENTER OF GRAVITY (COG\_g) = 39.76" (SEE NOTES)

**COMBINED UNIT DATA**  
 DESIGN UNIT WEIGHT = (4297 lbs + 1964 lbs) / 48.11 cft = 130 pcf  
 VOLUME = 30.26 cft + 17.85 cft = 48.11 cft  
 TOTAL UNIT WEIGHT = 6261 lbs  
 CENTER OF GRAVITY (COG\_t) = 36.01" (SEE NOTES)

- NOTES:**
- VOLUME, WEIGHT AND COG CALCULATIONS WERE DONE USING CAD SOFTWARE.
  - COG MEASUREMENTS ARE FROM BACK OF BLOCK



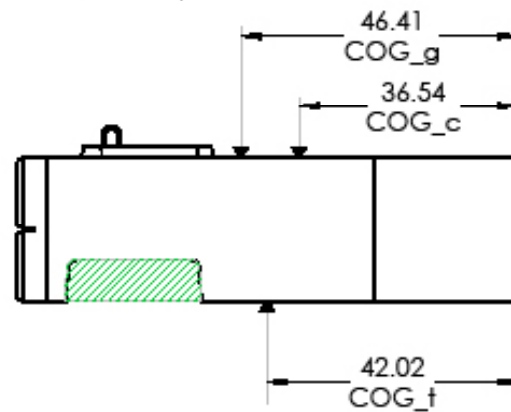
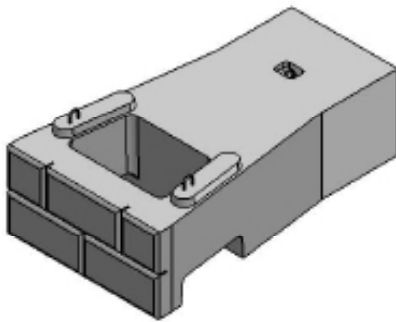
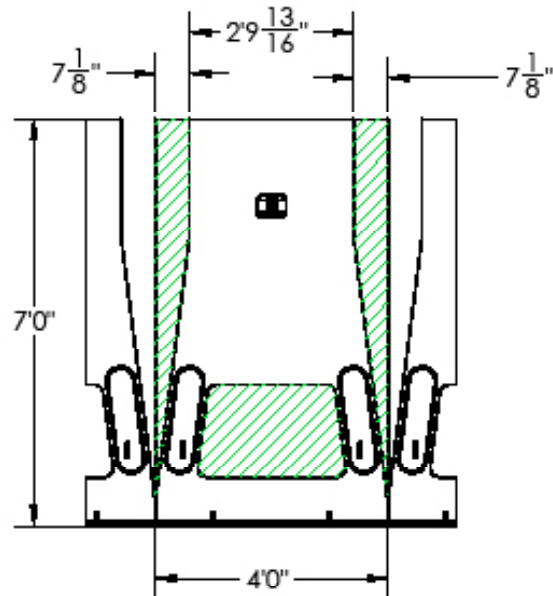
DRAWN BY: R FONTANESI  
 DATE: 10/31/2016  
 16500 SOUTH 500 WEST  
 BLUFFDALE, UTAH 84065  
 PHONE: (801) 571-2028

TITLE: 72" MASS EXTENDER  
 DWG NO. BD-12

SCALE: 1:30

SHEET 1 OF 1

## 84" HALF BLOCK MASS EXTENDER & GRAVEL INFILL



### CONCRETE BLOCK DATA

DESIGN UNIT WEIGHT = 142 pcf  
VOLUME = 35.9 cft  
BLOCK WEIGHT = 5098 lbs  
CENTER OF GRAVITY (COG\_c) = 36.54" (SEE NOTES)

### GRAVEL INFILL DATA

DESIGN UNIT WEIGHT = 110 pcf  
VOLUME = 20.2 cft  
GRAVEL INFILL WEIGH = 2222 lbs  
CENTER OF GRAVITY (COG\_g) = 46.41" (SEE NOTES)

### COMBINED UNIT DATA

DESIGN UNIT WEIGHT = (5098 lbs + 2222 lbs) / 56.1 cft = 130 pcf  
VOLUME = 35.9 cft + 20.2 cft = 56.1 cft  
TOTAL UNIT WEIGHT = 7320 lbs  
CENTER OF GRAVITY (COG\_t) = 42.02" (SEE NOTES)

### NOTES:

- VOLUME, WEIGHT AND COG CALCULATIONS WERE DONE USING CAD SOFTWARE.
- COG MEASUREMENTS ARE FROM BACK OF BLOCK



DRAWN BY	DATE	TITLE
R FONTANESI	10/17/2017	84" MASS EXTENDER
16500 SOUTH 500 WEST BLUFFDALE, UTAH 84065 PHONE: (801) 571-2028	DWG NO.	REV.
	BD-10	01
SCALE: NA	WEIGHT: 5117.25	SHEET 1 OF 1