TYPICAL GRAVITY WALL WITH 36" VERTI-BLOCK

- **Leveling Pad**: 6" min. depth
- **Crushed Stone**: As in place as each course is set.
- **36" Standard Block**: 2 3/16" (typ.)
- **Wall Height**: 15 15/16" 5° batter angle
- **Ground Level Slope**: Min. 2% away from blocks.
- **Fill Cores with Clean 1" Ø Crushed Stone**: As each course is set.
- **Native Soil Edge**: Of excavation
- **Nonwoven Geotextile Filter**: Backfilled native soil compacted in place as each course is set.
- **Perforated Drain Pipe**:
TYPICAL GRAVITY WALL WITH VERTI-BLOCK MASS EXTENDERS

5° BATTER ANGLE

GROUNDF LEVEL SLOPE
MIN. 2% AWAY FROM BLOCKS

LEVELING PAD
CRUSHED STONE DRAIN PIPE
BACKFILLED NATIVE SOIL COMPACTED
IN PLACE AS EACH COURSE IS SET.

36” STANDARD BLOCK

NATIVE SOIL EDGE
OF EXCAVATION

48” MASS EXTENDER

CRUSHED STONE LEVELING PAD
6” MIN. DEPTH

60” MASS EXTENDER

PERFORATED DRAIN PIPE

GEOTEXTILE FILTER

3 1/2” (TYP.)

WALL HEIGHT

6” MIN. DEPTH LEVELING PAD

FILL CORES WITH CLEAN 1” Ø CRUSHED STONE AS EACH COURSE IS SET.

60” MASS EXTENDER

16” (TYP.)

BATTER ANGLE
10 15’’

36” STANDARD BLOCK

DRAWN BY
DAN BALLING
12/30/2013

12’ SECTION W/ MASS EXTENDERS

TITLE:

WD-15
20' GEOGRID FRICTION CONNECTION

- Fill cores with clean 1" or less gravel as each corse is set from edge of excavation.
- Top layer.
- 30°
- Geotextile filter.
- Gravel base course 6" min. depth.
- Perforated drain pipe.
- Native sandy soil slope is greater or equal to 30° from edge of excavation.
- Geo-grid mesh.
- Geo-grid at front of block.

Drawn by: Dan Balling
Date: 12/12/2013
Title: 20' Friction Detail
Dwg No.: M-03
Scale: 1:40

16500 South 500 West
Bluffdale, Utah 84065
Phone: (801) 571-2028
20' GEOGRID POSITIVE CONNECTION

- Fill cores w/ clean 1" minus gravel as each course is set
- Native sandy soil slope is greater or equal to 30° from edge of excavation
- Top layer
- 1'-0.00"
- 30°
- GEOGRID MESH
- Gravel base course 6" min. depth
- Perforated drain pipe
- Native sandy soil slope is greater or equal to 30° from edge of excavation

Title: 20' LOOP THRU POSITIVE CONNECTION

DRAWN BY: R Fontanesi      DATE: 3/8/2016

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

Scale: 1:30
Sheet 1 of 1

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CUT MESH FOR LIFTING RINGS

MESH SHOULD LAY FLAT ON TOP OF BLOCK
NOTE: DRAWINGS PROVIDED BY VERTI-CRETE ARE FOR REFERENCE ONLY. CONSULT LICENSED ENGINEER FOR FINAL DESIGN.

2' GEOGRID MESH

1" RADIUS MIN. TOP & BOTTOM ALL SHARP EDGES MUST BE REMOVED

DRAWN BY
R FONTANESI

DATE
3/8/2016

FILE

POSITIVE CONNECTION

WD-35

SCALE: 1:30

SHEET 1 OF 1

16500 SOUTH 500 WEST
BLUFFDALE, UTAH 84065
PHONE: (801) 571-2028
20 1/2 SETBACK FROM THEORETICAL CORNER ON FIRST ROW

45° OUTSIDE CORNER

RUNNING BOND SHIFTS 3/4" FURTHER ON EACH ROW

45°
ALTERNATE OVERLAPPING BLOCKS
HALF BLOCKS REQUIRED ON EVERY OTHER ROW

EVERY COURSE WILL BE 15/16" CLOSER TO THE CORNER THAN THE COURSE BELOW IT.

WALLS ARE COMPLETELY SEPARATE AND DO NOT INTERLOCK OR SHARE A RUNNING BOND WITH EACH OTHER.
6 INCH CAP STEP-DOWN

CONFLICTING AREA WILL REQUIRE THE USE OF A 13" NUB BLOCKOUT OR SAW CUT AND REMOVAL OF PICK POINT WHEN CAP IS USED.

2 SIDED CAP
CAP BLOCK WEIGHT = 478 LBS

3 SIDED CAP

SIDE VIEW

DAN BALLING 12/18/2013

6" CAP BLOCK SCENARIO
CB-01
NOTE:
REFERENCE OUTSIDE CORNER DETAIL ON NUB BLOCKOUT

PLANTER ROW OUTSIDE CORNER

DAN BALLING 12/12/2013

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

SCALE: 1:4

Sheet 1 of 1
BATTER INCREASES BY 2 3/16" FOR EACH ROW
INTERLACED INSIDE CORNER DETAIL

ROW 1

F

ALTERNATE CORNER OVERLAP

EACH LEVEL WILL BE SET BACK AND TOWARD THE INSIDE CORNER BY 2-3/16" THAN THE ONE BELOW

ROW 2

ROW 3

DETAIL F

INTERLACED INSIDE CORNER DETAIL

DAN BALLING

12/12/2013

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

WDG NO.

WD-1

SCALE: 1:40

SHEET 1 OF 1

Title: INTERLACED INSIDE CORNER

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BUTT-JOINT INSIDE CORNER DETAIL

START OVERLAP FROM MIDDLE OF BLOCK
OVERLAP=2-3/16" X # OF ROWS

HALF BLOCK NEEDED ON EVERY OTHER ROW

ROW 1

ROW 2

ROW 3

ROW 4

DRAWN BY DAN BALLING
DATE 12/12/2013

Dwg No. WD-2

SCALE: 1:60

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

BUTT-JOINT INSIDE CORNER

TITLE: BUTT-JOINT INSIDE CORNER

DATE: 12/12/2013
OUTSIDE CORNER DETAILS

ROW 1

ONE SHORTENED NUB ADJACENT TO THE 2' SIDE ON EVERY CORNER BLOCK

ROW 2

ONE SHORTENED NUB ADJACENT TO THE 2' SIDE ON EVERY CORNER BLOCK

CONFLICTING POINT

DRAWN BY: DAN BALLING
DATE: 12/12/2013

OUTSIDE CORNER

WD-3

DWG NO.

SCALE: 1:40
OUTSIDE CORNER WITH MASS EXTENDERS DETAIL

ROW 1

ONE SHORTENED NUB ADJACENT TO THE 2' SIDE ON EVERY CORNER BLOCK

ROW 2

48" MASS EXTENDER BLOCK ADJACENT TO 2' SIDE OF CORNER BLOCK

60" MASS EXTENDER BLOCK

CONFLICTING POINT

DRAWN BY: DAN BALLING
DATE: 12/12/2013

TITLE: OUTSIDE CORNER w/ ME

DRAW NO.: WD-5

SCALE: 1:40

SHEET 1 OF 1

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

WALL HEIGHT

LEVELING PAD

CRUSHED STONE LEVELING PAD 6" MIN. DEPTH

PERFORATED DRAIN PIPE

GROUND LEVEL SLOPE MIN .2% AWAY FROM BLOCK

FILL TOP ROW/ROWS WITH CONCRETE

STD. HOOK

LEVELING PAD

GEOTEXTILE FIBER

NON WOVEN GEOTEXTILE FIBER

NATIVE SOIL EDGE OF EXCAVATION

EXCAVATION EDGE OF NATIVE SOIL

FILL TOP ROW/ROWS WITH CONCRETE

MIN .2% AWAY FROM BLOCK

2 9/16" TYP.

DRAWN BY: R FONTANESI
DATE: 3/4/2016

TITLE: GRAVITY WALL W/ FENCE

WD-33

16500 SOUTH 500 WEST
BLUFFDALE, UTAH 84065
PHONE: (801) 571-2028
STRAIGHT FACE WITH SIMPLE 2' RETURNS

DRAWN BY: DAN BALLING
DATE: 12/12/2013

TITIE: 2' RETURN

DWG NO.: WD-4

SCALE: 1:40
SHEET: 1 OF 1

16500 SOUTH 500 WEST
BLUFFDALE, UTAH 84065
PHONE: (801) 571-2028
2' STEP DOWN WITH TOP CORNER GAP INSERTS

TOP CORNER GAP INSERTS

TOP CORNER GAP INSERT

2' STEP DOWN
WD-8

DRAWN BY: DAN BALLING
DATE: 12/12/2013

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

SCALE: 1:40
6’ STEP DOWN WITH TOP STANDARD GAP INSERT

DRAWN BY: DAN BALLING
DATE: 12/12/2013

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

SCALE: 1:40

WDG NO.

TOP STANDARD GAP INSERT
Construction Drawings

6' STEP DOWN WITH HALF-STEP BLOCK AND TOP CORNER GAP INSERT

DRAWN BY: DAN BALLING
DATE: 12/12/2013

WDG NO.: WD-10
SCALE: 1:40
SHEET 1 OF 1

16500 SOUTH 500 WEST
BLUFFDALE, UTAH 84065
PHONE: (801) 571-2028
10' STEP DOWN WITH HALF-STEP BLOCK
AND TOP STANDARD GAP INSERT

HALF-STEP CORNER
TOP BLOCK

TOP STANDARD GAP INSERT

DRAWN BY: DAN BALLING
DATE: 12/12/2013
16500 SOUTH 500 WEST
BLUFFDALE, UTAH 84065
PHONE: (801) 571-2028

TITLE: 10' STEP W/ HALF STEP BLOCK
WD-11

SCALE: 1:40
SHEET 1 OF 1
OUTSIDE CURVE DETAIL

NOTE:
TOP ROW MINIMUM RADIUS IS 16'.
SETBACK IS 1 5/16' AND EACH ROW
WILL INCREASE THE RADIUS BY 1 5/16'
MORE THAN THE ROW ABOVE IT.

TOP ROW

ROW 2

ROW 3

DRAWN BY
DAN BALLING

DATE
12/12/2013

TILE
OUTSIDE CURVE

WD-6

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

SCALE: 1:40

SHEET 1 OF 1
NOTE: BOTTOM ROW MINIMUM RADIUS IS 16'. SETBACK IS 2 3/4" AND EACH ROW WILL INCREASE THE RADIUS BY 2 3/4" MORE THAN THE ROW BELOW IT.
NOTE:
SEA WALLS MUST BE DESIGNED AND CHECKED BY LICENSED PROFESSIONAL ENGINEER DUE TO THE HIGH VARIETY OF VARIABLES FOR ANY GIVEN APPLICATION.

1" MINUS GRAVEL INSIDE AND BEHIND BLOCK (DEPTH BELOW AND BEHIND WALL MUST BE DETERMINED BY LICENSED ENGINEER USING SITE SPECIFIC CONDITIONS)

STONE TO BE PLACED ON NON-WOVEN GEOTEXTILE FABRIC (STONE SIZE AND VOLUME TO BE SPECIFIED BY LOCAL LICENSED ENGINEER)

GROUND SURFACE

NON-WOVEN GEOTEXTILE FABRIC

BLOCK DEPTH TO BE SPECIFIED BY LICENSED ENGINEER BASED ON SITE CONDITIONS

DRAWN BY: DAN BALLING
DATE: 12/12/2013

TITLE: SEA WALL DETAIL

WD-13

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

SCALE: 1:4
SHEET 1 OF 1
LAKESHORE WALL DETAIL

TOTAL WALL HEIGHT

LAKE DEPTH AT SHORE

EMBEDMENT*

LEVELING PAD

NATIVE SOIL

EDGE OF EXCAVATION

BACKFILLED NATIVE SOIL

PERFORATED DRAIN PIPE

*EMBEDMENT MUST BE DEEP ENOUGH FOR LEVELING PAD TO BE BELOW SCOUR LINE
DRAIN PIPE IS PLACED INSIDE GAP AT THE BOTTOM OF THE BLOCK AND ON TOP OF THE LEVELING PAD THEN COVERED WITH GRAVEL.

DRAIN PLACEMENT-OPTION #1

WD-16
DRAIN PIPE IS PLACED INSIDE THE COMPACTED GRAVEL OF THE LEVELING PAD

---

**DRAIN PLACEMENT-OPTION #2**

- **DRAWN BY**: DAN BALLING
- **DATE**: 12/12/2013
- **DWG NO.**: WD-17
- **SCALE**: 1:20
- **LOCATION**: 16500 SOUTH 500 WEST, BLUFFDALE, UTAH 84065
- **PHONE**: (801) 571-2028

**Legend**:
- **GRAVEL**
- **SOIL**
- **LEVELING PAD COMPACTED GRAVEL**
- **PERFORATED DRAIN PIPE**
DRAIN PIPE IS PLACED BEHIND THE BLOCK AND ON TOP OF THE LEVELING PAD. THIS OPTION REQUIRES 1" OF LOOSE GRAVEL BEHIND THE WALL. IF DRAINAGE IS A MAJOR CONCERN FOR AN APPLICATION THIS OPTION MAY BE USED ALONG WITH OPTION 1 OR 2.
1 ROW OF HALF STEP BLOCKS
1 ROW OF HALF STEP BLOCKS