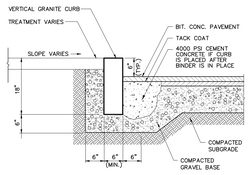
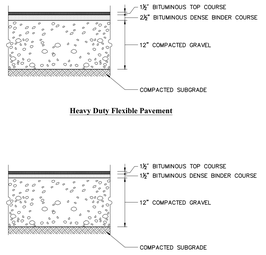
Saved Thursday, February 27, 2014 4:31:44 PM JCHEONG Plotted Thursday, February 27, 2014 4:32:30 PM Cheong, Jason



Vertical Granite Curb (VGC)

N.T.S. Source: VHB LD_402

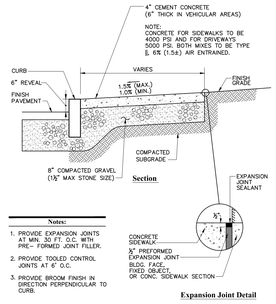


Note:

PAVEMENT SECTIONS ARE SUBJECT TO CHANGE AND WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

Bituminous Concrete Pavement Sections

N.T.S. Source: VHB 12/11 LD_430

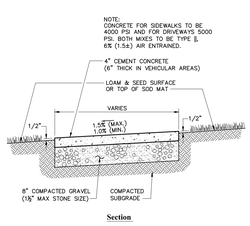


Notes:

1. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE- FORMED JOINT FILLER.
2. PROVIDE TOOLED CONTROL JOINTS AT 6' O.C.
3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.

Concrete Sidewalk

N.T.S. Source: VHB 4/11 LD_420

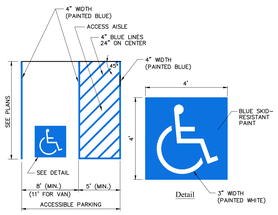


Notes:

1. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE- FORMED JOINT FILLER.
2. PROVIDE TOOLED CONTROL JOINTS AT 6' O.C.
3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO SIDEWALK DIRECTION.

Concrete Sidewalk in Landscape Area

N.T.S. Source: VHB 11/12 LD_426

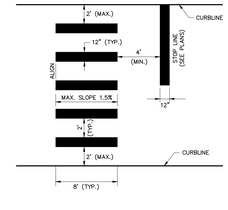


Notes:

1. ALL DIMENSIONS TO EDGES OF 4" PAVEMENT STRIPING.
2. 8' STALL WIDTH REFERS TO 8' CLEAR BETWEEN INSIDE EDGES OF PAVEMENT MARKINGS.
3. ALL SLOPES THROUGHOUT THE ACCESSIBLE PARKING AND AISLE AREAS SHALL NOT EXCEED 1.5%.

Accessible Parking Space

N.T.S. Source: VHB 11/10 LD_552

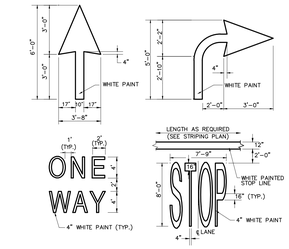


Notes:

1. TWELVE INCH (12") LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO – 6 INCH LINES) WILL BE ACCEPTED.
2. LONGITUDINAL CROSSWALK LINES TO BE PARALLEL TO CURBLINE.
3. ALL LONGITUDINAL CROSSWALK LINES TO BE THE SAME LENGTH AND PROPERLY ALIGNED.
4. CROSS WALK SIDESLOPE SHALL NOT EXCEED 1.5%.

Crosswalk

N.T.S. Source: VHB 6/08 LD_553

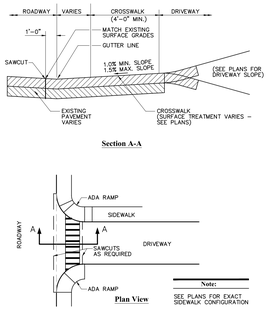


Notes:

1. PAVEMENT MARKINGS TO BE INSTALLED FOR ON SITE WORK IN LOCATIONS SHOWN.

Painted Pavement Markings - On Site

N.T.S. Source: VHB 6/08 LD_554

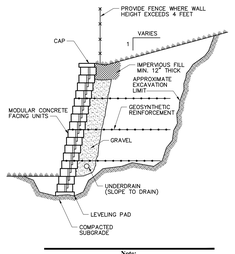


Note:

SEE PLANS FOR EXACT SIDEWALK CONFIGURATION

Driveway Entrance/Crosswalk Section Detail

N.T.S. Source: VHB 6/08 LD_423

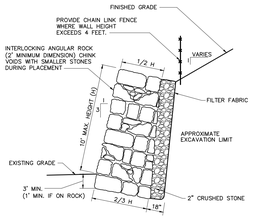


Note:

DETAIL PROVIDED FOR GENERAL INFORMATION ONLY. STAMPED FINAL DESIGN OF MODULAR WALL SYSTEM TO BE PROVIDED BY WALL MANUFACTURER BASED ON GEOTECHNICAL ENGINEERS RECOMMENDATIONS.

Modular Retaining Wall

N.T.S. Source: VHB 6/08 LD_750

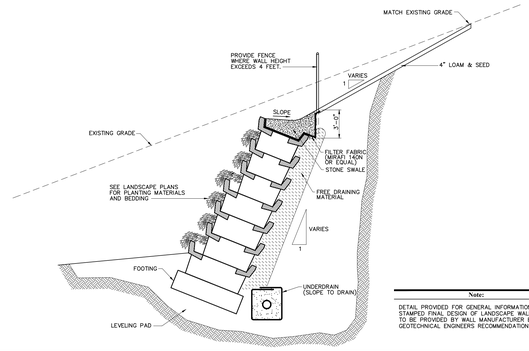


Notes:

1. STONE WALL TO BE FOUNDED ON UNDISTURBED MATERIAL AND CONSISTENT WITH GEOTECHNICAL ENGINEERS RECOMMENDATIONS.
2. PITCH BASE OF WALL DOWNWARD 1 VERT. TO 3 HOR. INTO SLOPE
3. CONSTRUCT BOULDER WALL BY INTERLOCKING ANGULAR ROCK SO THAT ROCK MASS ACTS AS GRAVITY RETAINING WALL.

Stone Wall Detail

N.T.S. Source: VHB 6/08 LD_751



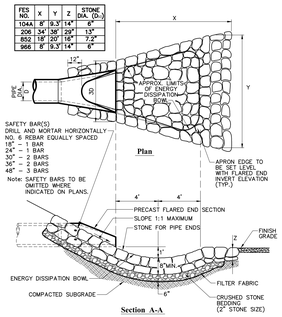
Note:

DETAIL PROVIDED FOR GENERAL INFORMATION ONLY. STAMPED FINAL DESIGN OF LANDSCAPE WALL SYSTEM TO BE PROVIDED BY WALL MANUFACTURER BASED ON GEOTECHNICAL ENGINEERS RECOMMENDATIONS.

Landscaped Retaining Wall

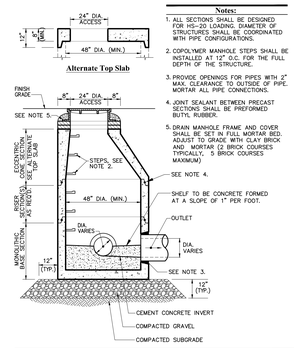
N.T.S. Source: VHB 6/08 LD_752

FES NO.	X	Y	Z	STONE DIA. (D.)
104A	8'	9.3'	14"	6"
206	34'	36'	29"	13"
852	18'	20'	18"	7.2"
966	8'	9.3'	14"	6"



Flared End Section (FES) with Stone Protection

N.T.S. Source: VHB 5/12 LD_134

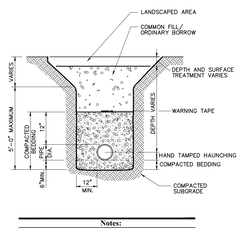


Notes:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING. DIAMETER OF STRUCTURES SHALL BE COORDINATED WITH PIPE CONFIGURATIONS.
2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
3. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

Drain Manhole (DMH)

N.T.S. Source: VHB 4/11 LD_115

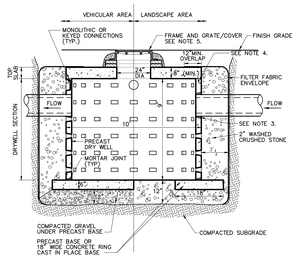


Notes:

1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.

Drainage Pipe Trench

N.T.S. Source: VHB 6/11 LD_300

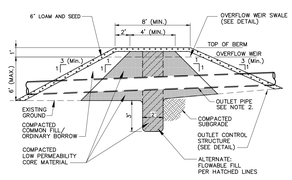


Notes:

1. BASE SECTION SHALL BE PRECAST CONCRETE WITH MORTARED JOINTS OR CAST IN PLACE.
2. ALL COMPONENTS SHALL BE DESIGNED FOR HS-20 LOADING.
3. PROVIDE PRECAST OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. FRAME AND GRATE/COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSE MINIMUM, 5 BRICK COURSE MAXIMUM)

Drywell (DW)

N.T.S. Source: VHB 2/09 LD_180

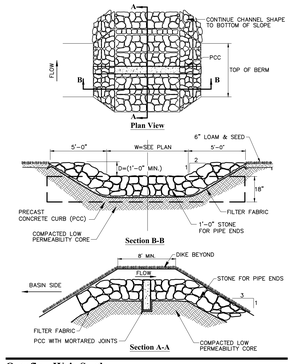


Notes:

1. LOW PERMEABILITY CORE MATERIAL IS CONTINUOUS FOR THE FULL LENGTH OF THE EMBANKMENT.
2. WHERE PIPES PENETRATE THE LOW PERMEABILITY CORE, PIPE SHALL BE BEDDED IN THE LOW PERMEABILITY CORE MATERIAL.
3. THE BERM SECTION IS SUBJECT TO CHANGE AND WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

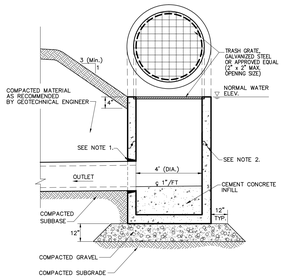
Basin Berm Section

N.T.S. Source: VHB 10/08 LD_160



Overflow Weir Swale

N.T.S. Source: VHB REV LD_161

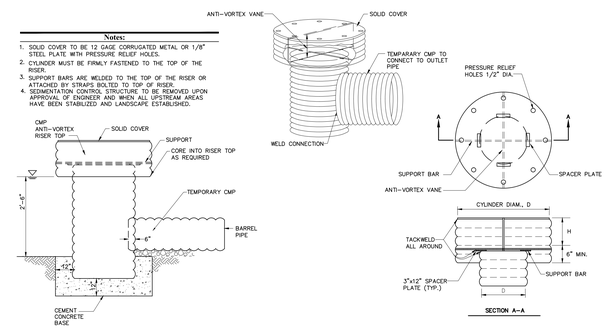


Notes:

1. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
2. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.

Pond Outlet Control (POC)

N.T.S. Source: VHB REV LD_163



Notes:

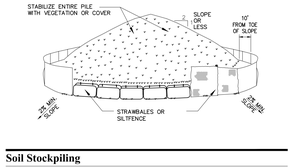
1. SOLID COVER TO BE 12 GAGE CORRUGATED METAL OR 1/8" STEEL PLATE WITH PRESSURE RELIEF HOLES.
2. CYLINDER MUST BE FIRMLY FASTENED TO THE TOP OF THE RISER.
3. SUPPORT BARS ARE WELDED TO THE TOP OF THE RISER OR ATTACHED BY STRAPS BOLTED TO TOP OF RISER.
4. SEDIMENTATION CONTROL STRUCTURE TO BE REMOVED UPON APPROVAL OF ENGINEER AND WHEN ALL UPSTREAM AREAS HAVE BEEN STABILIZED AND LANDSCAPE ESTABLISHED.

Concentric Trash Rack and Anti-Vortex Device

N.T.S. Source: VHB 6/08 LD_692

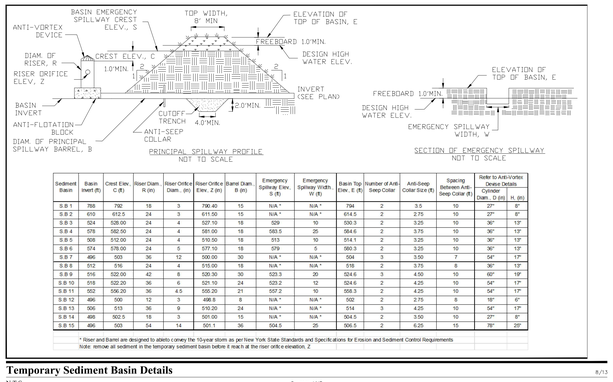
Notes:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SILT FENCE DETAIL ON THIS SHEET



Soil Stockpiling

N.T.S.



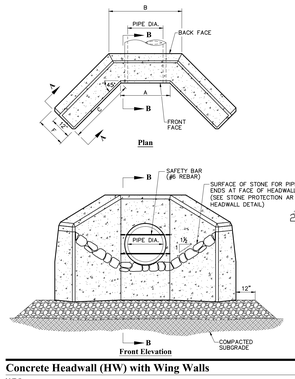
Sediment Basin	Basin Invert (B)	Crest Elev. C (ft)	Riser Diam. R (in)	Riser Orifice Diam. (in)	Riser Orifice Elev. Z (in)	Barrel Diam. B (in)	Emergency Spillway Elev. S (ft)	Emergency Spillway Width. W (ft)	Basin Top Elev. E (ft)	Number of Anti-Seep Collar	Anti-Seep Collar Size (ft)	Spacing Between Anti-Seep Collar (ft)	Refer to Anti-Vortex Device Details Cylinder Diam., D (in)	H. (in)
S B 1	788	792	18	3	790.40	15	N/A *	N/A *	794	2	3.5	10	27"	8"
S B 2	610	612.5	24	3	611.50	15	N/A *	N/A *	614.5	2	2.75	10	27"	8"
S B 3	524	528.00	24	4	527.10	18	529	10	530.3	2	3.25	10	36"	13"
S B 4	578	582.50	24	4	581.00	18	583.5	25	584.6	2	3.75	10	36"	13"
S B 5	508	512.00	24	4	510.50	18	513	10	514.1	2	3.25	10	36"	13"
S B 6	574	578.00	24	5	577.10	18	579	5	580.3	2	3.25	10	36"	13"
S B 7	496	503	36	12	500.00	30	N/A *	N/A *	504	3	3.50	7	54"	17"
S B 8	512	516	24	4	515.00	18	N/A *	N/A *	516	2	3.75	8	36"	13"
S B 9	516	522.00	42	8	520.30	30	523.3	20	524.6	3	4.50	10	60"	19"
S B 10	518	522.20	36	6	521.10	24	523.2	12	524.6	2	4.25	10	54"	17"
S B 11	502	506.20	36	4.5	505.20	21	507.2	10	508.3	2	4.25	10	54"	17"
S B 12	496	500	12	3	498.8	8	N/A *	N/A *	502	2	2.75	8	18"	6"
S B 13	506	513	36	9	510.20	24	N/A *	N/A *	514	3	4.25	10	54"	17"
S B 14	488	502.5	18	3	501.00	15	N/A *	N/A *	504.5	2	3.50	10	27"	8"
S B 15	496	503	54	14	501.1	36	504.5	25	506.5	2	6.25	15	78"	25"

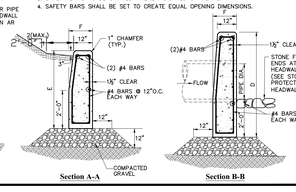
* Riser and Barrel are designed to ability convey the 10-year storm as per New York State Standards and Specifications for Erosion and Sediment Control Requirements

Note: remove all sediment in the temporary sediment basin below it reach at the riser orifice elevation, Z

Temporary Sediment Basin Details

N.T.S. Source: VHB 8/13



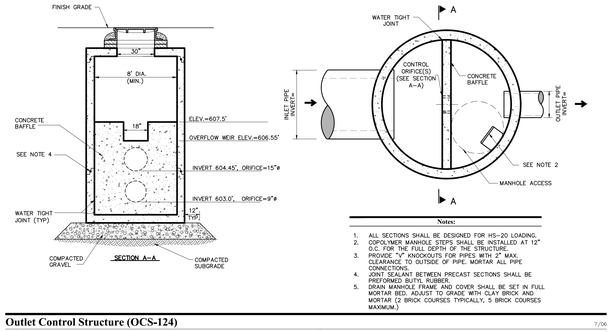


Concrete Headwall (HW) with Wing Walls

N.T.S. Source: VHB 4/11 REV LD_132

Dimensional Table							
PIPE DIA.	A	B	C	D	E	F	SAFETY BARS REQUIRED
12"	2'-6"	3'-8"	2'-11"	4'-0"	3'-3"	1'-6"	–
15"	2'-6"	3'-8"	2'-11"	4'-0"	3'-6""	1'-6"	1
18"	3'-0"	4'-2"	3'-3"	4'-6"	3'-6"	1'-6"	1
24"	3'-6"	4'-8"	3'-6"	5'-0"	3'-9"	1'-6"	1
30"	4'-0"	5'-3"	4'-3"	5'-10"	4'-0"	1'-6"	2
36"	4'-6"	5'-11"	5'-0"	6'-4"	4'-3"	1'-8"	2
42"	5'-0"	6'-6"	5'-9"	6'-11"	4'-6"	1'-10"	3
48"	5'-6"	7'-2"	6'-6"	7'-5"	4'-9"	2'-0"	3
60"	6'-6"	8'-0"	8'-6"	9'-3"	5'-3"	2'-4"	4
72"	7'-6"	9'-9"	9'-6"	9'-7"	5'-9"	2'-8"	5

1. CONCRETE SHALL BE MINIMUM COMPRESSIVE STRENGTH 4000 PSI AIR ENTRAINED TYPE I CEMENT.
2. INSTALL IMPERMEABLE TRENCH DAM ANTI-SEEP COLLAR AROUND DRAIN PIPE PRIOR TO HEADWALL LOCATION.
3. SAFETY BARS TO BE OMITTED WHERE INDICATED ON PLANS.
4. SAFETY BARS SHALL BE SET TO CREATE EQUAL OPENING DIMENSIONS.



Notes:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
3. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

Outlet Control Structure (OCS-124)

N.T.S. Source: VHB 7/06 LD_

OWNER:
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Amenia, New York 12501
845.373.8020

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Tel: 212.683.5631 Fax: 212.481.3768
E-mail: NY@harthowerton.com

GOLF COURSE DESIGNERS:
FAZIO DESIGN
401 N. Main St., Ste. 400
Hendersonville, North Carolina 28792
828.693.0052 • FAX 828.693.0071

ENVIRONMENTAL PLANNING & CIVIL ENGINEERING:
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Planning
Transportation
Land Development
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WASTEWATER AND WATER DESIGN:
CEDARWOOD ENGINEERING SERVICES, PLLC
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248 Main St., PO Box 203
North Creek, NY 518.251.5160

PROJECT SURVEYOR:
Kirk K. Horton, Land Surveyor
NYS License No. 049954
9 Broadway
Amenia, New York 12501
845.373.7809

No.	Revision	Date	Approv.

Designed by JC | Drawn by CMC | Checked by MWJ
CAD checked by MB | Approved by ACD
Scale As Shown | Date March 3, 2014

Project Title
Silo Ridge Resort Community

4651 Route 22
Amenia, New York

Issued for
Site Plan - Phase 1

Not Issued for Construction

Drawing Title
Civil Site Details 1

Drawing Number
C14.01

Sheet 76 of

Project Number
29011.00

29011.00-P1_DT.DWG