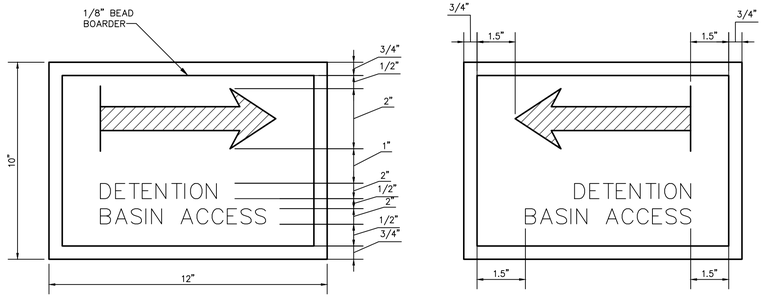
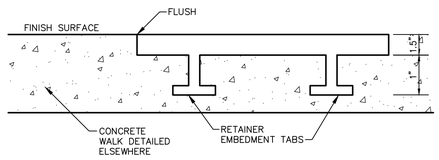


NOTES:

1. MARKER PLAQUES TO BE MADE OF MATERIAL THAT WILL NOT WEAR DOWN OVER TIME. LETTERS AND IMAGES TO BE MOLDED INTO PLACARD OR STAMPED 1/2" DEEP TO RETAIN INFORMATION.

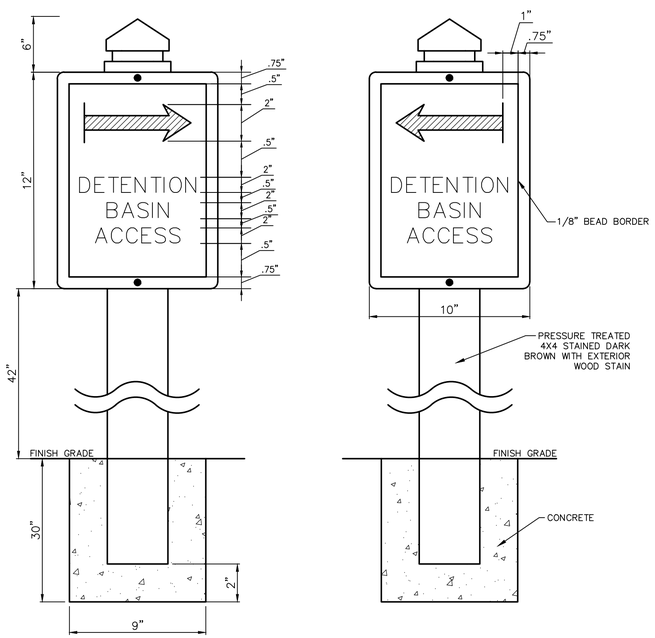
2. MARKERS ARE TO BE PLACED AT THE BACK OF WALK, EMBEDDED IN THE CONCRETE SUCH THAT THEY DO NOT COME FREE FROM THE CONCRETE WALK SURFACE.

3. ALL SPECIFICATIONS SHALL BE CONFIRMED WITH PULTE PRIOR TO MAKING.



DETENTION BASIN ACCESS MARKERS

N.T.S.



NOTES:

1. SIGN POSTS TO BE PRESSURE TREATED 4X4 STAINED DARK BROWN.

2. ALUMINUM SIGN TO BE LIGHT BROWN IN COLOR BOTH SIDES.

3. LETTERS AND BOARDER TO BE DARK BROWN IN COLOR.

4.SIGNS TO BE PLACED AT THE REAR PROPERTY LINES WHERE THE 12 FT ACCESS WAY CROSSES. THERE SHALL BE 12 FT CLEARANCE BETWEEN THE SIGNS THROUGH THE ACCESS WAY.

5. ALL SPECIFICATIONS SHALL BE CONFIRMED WITH PULTE PRIOR TO MAKING.

DETENTION BASIN ACCESS SIGNAGE

N.T.S.

EMBANKMENT FILL

EARTH FILL REQUIRED TO BACKFILL AREAS OF ADDITIONAL UNDERCUT, AND FILL FOR EMBANKMENT AND KEY TRENCH SHALL BE PLACED OVER A STRIPPED, PROOF-ROLLED SUBGRADE. CLEAN FILL MEETING THE MINIMUM REQUIREMENTS FOR SUITABLE EMBANKMENT MATERIAL ABOVE SHALL BE SPREAD IN UNIFORM MAXIMUM 10 INCH LOOSE THICKNESS LIFTS, MOISTURE CONTENT ADJUSTED TO WITHIN A RANGE OF 2% BELOW TO 3% ABOVE OPTIMUM, AND COMPACTED TO A MINIMUM OF 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY, ASTM D698.

ACTUAL LIFT THICKNESSES MAY BE ADJUSTED IN THE FIELD AS THE WORK PROCEEDS DEPENDING ON THE COMPACTION EQUIPMENT USED BY THE CONTRACTOR AND THE REQUIREMENTS OF THE SOIL MATERIALS BEING USED, EXCEPT THAT IN NO CASE MAY THE LOOSE LIFT THICKNESS EXCEED 10 INCHES. ANY SUCH ADJUSTMENTS WILL NOT RESULT IN A CLAIM FOR EXTRAS.

NOTES:

1. REMOVE ALL TOPSOIL AND ORGANIC MATERIAL BEFORE BEGINNING FILL. COMPACT SOIL IN 8" LIFTS TO 98% OF MAXIMUM DENSITY WITHIN 1% OVER TO 3% UNDER OPTIMUM MOISTURE CONTENT. SOIL USED SHALL BE FREE OF TOPSOIL OR OTHER ORGANIC MATERIALS.

2. THE PROPOSED DETENTION BASIN EMBANKMENT SHALL BE SEEDED AND MULCHED. SEE SEEDING SPECIFICATIONS.

3. STORM WATER DETENTION FACILITIES WILL BE CONTINUOUSLY MAINTAINED BY THE HOME OWNERS SUBSEQUENT THROUGH A HOME OWNERS ASSOCIATION IN TITLE OF THE AFFECTED LANDS. THE DEVELOPER SHALL CAUSE THE MAINTENANCE OBLIGATION TO BE INSERTED IN THE CHAIN OF TITLE TO THE AFFECTED LANDS AS A COVENANT WITH THE LAND.

4. SEE KEY TRENCH DETAIL ON THIS SHEET.

5. IMMEDIATELY FOLLOWING THE COMPLETION OF GRADING OPERATIONS FOR A PROPOSED DETENTION BASIN, FINAL RESTORATION OF THE BASIN MUST BE COMPLETED TO ESTABLISH PROPER VEGETATION AND LIMIT SOIL EROSION. A MINIMUM THICKNESS OF 3" OF TOPSOIL MUST BE APPLIED TO THE LIMITS OF THE GRADING FOR THE BASIN AND THEN SEEDED AND MULCHED. THE MATERIAL UTILIZED IN THE RESTORATION OF THE BASIN SHALL ADHERE TO ODOT ITEMS 652, 653, AND 659

REQUIREMENTS FOR SUITABLE MATERIAL

SUITABLE SOIL MATERIALS SHALL MEET ALL THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER AND THE REQUIREMENTS BELOW, WHICHEVER IS MORE STRINGENT.

SOIL USED FOR CONSTRUCTION OF THE EMBANKMENT SHALL BE CLEAN, PREDOMINANTLY CLAY SOIL, FREE OF ORGANIC CONTAMINATION, MEETING THE MINIMUM REQUIREMENTS BELOW.

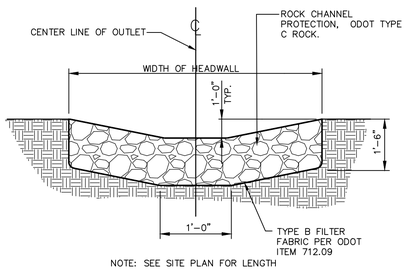
PERMEABILITY, k = 10 cm/sec
COHESION, c = 300 psf
FRICTION ANGLE = 21°
DRY UNIT WEIGHT = 118 pcf
MOIST UNIT WEIGHT = 135 pcf
PERCENT PASSING #200 SIEVE = 50%
LIQUID LIMIT, LL < 50

SILT FROM EXCAVATION OF BORROW IDENTIFIED AS OHIO CLASSIFICATION A-4b SHALL BE CONSIDERED SUITABLE FOR USE IN THE EMBANKMENT ONLY WHEN PLACED AT LEAST 3 FEET BELOW THE SURFACE OF THE EMBANKMENT.

SOIL HAVING A LIQUID LIMIT IN EXCESS OF 50 OR SOILS IDENTIFIED AS OHIO CLASSIFICATIONS A-2-5, A-5 OR A-7-5 ARE CONSIDERED UNSUIT- ABLE FOR USE IN EMBANKMENT.

GRANULAR MATERIALS, SHALE, ROCK AND RANDOM MATERIAL ARE SUITABLE FOR USE IN THE EMBANKMENT IF BLENDED WITH CLAY SOIL SUCH THAT MORE THAN ONE-HALF OF THE VOLUME OF THE BLENDED MATERIAL IS SOIL AND THE MATERIAL TO BE INCORPORATED IS WITHIN A SIZE RANGE SUITABLE FOR INCORPORATION INTO A SINGLE LIFT OF FILL.

SOILS NOT IDENTIFIABLE FROM THE PRELIMINARY SOILS INVESTIGATION REPORTS SHALL BE SAMPLED AND SUBMITTED TO THE LABORATORY FOR CLASSIFICATION TESTS.



NOTE: SEE SITE PLAN FOR LENGTH

ROCK CHANNEL PROTECTION

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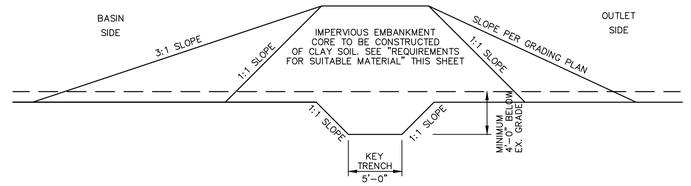

TYPICAL KEY TRENCH DETAIL FOR ALL EMBANKMENT CONSTRUCTION

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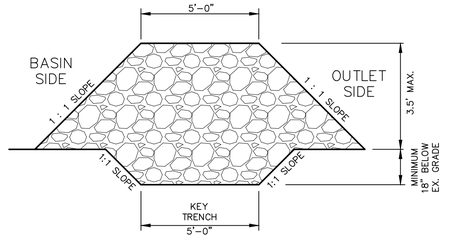
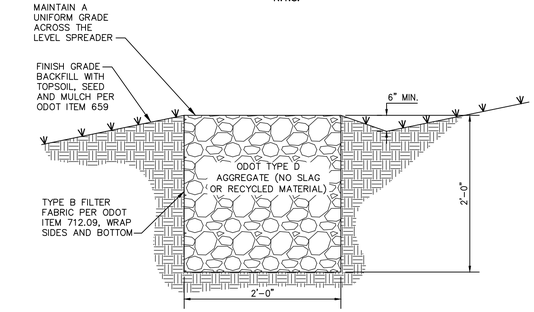


1. THE CHECK DAM SHALL BE CONSTRUCTED OF ODOT TYPE C STONE (NO SLAG OR RECYCLED MATERIAL), UNDERLAIN WITH A GRAVEL FILTER CONSISTING OF ODOT NO. 3 OR 4 OR SUITABLE FILTER FABRIC.
2. MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 3.5 FEET ABOVE FINISH GRADE.
3. THE BASE OF THE CHECK DAM SHALL BE KEYED INTO UNDISTURBED EARTH APPROXIMATELY 18 INCHES.
4. STONE PLACEMENT SHALL BE PERFORMED EITHER BY HAND OR MECHANICALLY.
5. SIDE SLOPES SHALL BE A MINIMUM OF 1:1

FOREBAY ROCK DAM

N.T.S.



ROCK TRENCH LEVEL SPREADER

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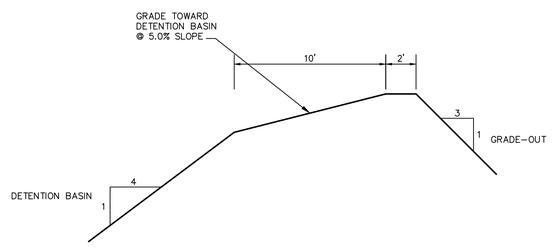

DETENTION BASIN BERM ENLARGEMENT

N.T.S.

GPD GROUP
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
520 South Main Street, Suite 2531
Akron, Ohio 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
1	06/02/14	REVISED PER LOCAL AGENCY COMMENTS
2	06/27/14	REVISED PER LOCAL AGENCY COMMENTS
3	07/18/14	REVISED PER LOCAL AGENCY COMMENTS
4	07/25/14	REVISED PER LOCAL AGENCY COMMENTS
5	08/01/14	MILLER PARCEL UTILITY UPDATE
6	08/05/14	COMMENTS FOR GRADING APPROVAL
7	08/20/14	REVISED PER LOCAL AGENCY COMMENTS
8	08/22/14	SANITARY REVISION MH 300-302
9	09/12/14	REVISED PER LOCAL AGENCY COMMENTS

THE PRESERVE AT MILLER'S FARM
SE CORNER OF SR 18 AND MEDINA LINE RD
COPLEY, OHIO 44321

BASIN NOTES AND DETAILS

ISSUED FOR:	
PERMIT	06-02-14
BID	06-02-14
CONSTRUCTION	09-16-14
RECORD	-

PROJECT MANAGER	DESIGNER
MAL	KB

JOB NO. 2013258.00

29/81