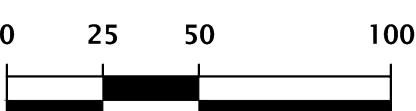


SURVEY BY: BRITT SURVEYING & MAPPING, LLC  
DATED: 1/30/20  
LOCATION OF WELL AND SEPTIC BY OTHERS

### GRAPHIC SCALE



BENCHMARK SET ON TOP  
OF CONCRETE MONUMENT  
ELEVATION = 60.63

### BASIN OPERATION AND MAINTENANCE REQUIREMENTS

#### SURFACEWATER MANAGEMENT FACILITIES (SMF'S)

ALL SMF'S PERMITTED BY THE DISTRICT SHALL BE OPERATED AND MAINTAINED IN ACCORDANCE WITH THE DESIGNS, PLANS, CALCULATIONS, AND OTHER SPECIFICATIONS THAT ARE SUBMITTED WITH AN APPLICATION, APPROVED BY THE DISTRICT, AND INCORPORATED BY REFERENCE INTO ANY PERMIT ISSUED. SMF'S SHALL BE KEPT FREE OF DEBRIS, TRASH, GARBAGE, OILS AND GREASES, AND OTHER REFUSE THROUGH REGULAR INSPECTION AND MAINTENANCE BY THE PERMITTEE.

#### EROSION CONTROL

THE SYSTEM SHALL BE REGULARLY INSPECTED AND MAINTAINED BY THE PERMITTEE TO INSURE THAT ALL EROSION IS CONTROLLED AND SOIL IS STABILIZED TO PREVENT SEDIMENT DISCHARGE TO WATERS IN THE STATE. ANY VEGETATION ESTABLISHED FOR EROSION CONTROL, SHALL BE PROPERLY MAINTAINED FOR FUNCTION.

#### CULVERTS, PIPES AND STRUCTURES

ALL STRUCTURES WITHIN THE SYSTEM SHALL BE REGULARLY INSPECTED AND MAINTAINED ON A REGULAR BASIS BY THE PERMITTEE TO INSURE THAT THEY DO NOT BECOME CLOGGED OR CHOKED WITH VEGETATIVE OR AQUATIC GROWTH TO SUCH AN EXTENT AS TO RENDER THEM INOPERABLE.

#### MAINTENANCE

THE BASIN SHALL BE REGULARLY MOWED TO AVOID EXCESSIVE VEGETATION GROWTH. THE MOWING RATE SHALL BE AT A MINIMUM OF 12 TIMES PER YEAR, WITH MORE FREQUENT MOWING IN THE SUMMER MONTHS. BASIN SIDE SLOPES SHALL INITIALLY BE SODDED AND THE SOD MAINTAINED.

#### FUNCTION

BASINS THAT DO NOT DRAWDOWN PROPERLY AND MAINTAIN STANDING WATER FOR AN EXTENDED PERIOD OF TIME MAY REQUIRE REMEDIAL ACTION. THE ENGINEER SHALL BE NOTIFIED TO HELP COORDINATE REMEDIAL ACTION IN THE EVENT IMPROPER RECOVERY IS NOTED.

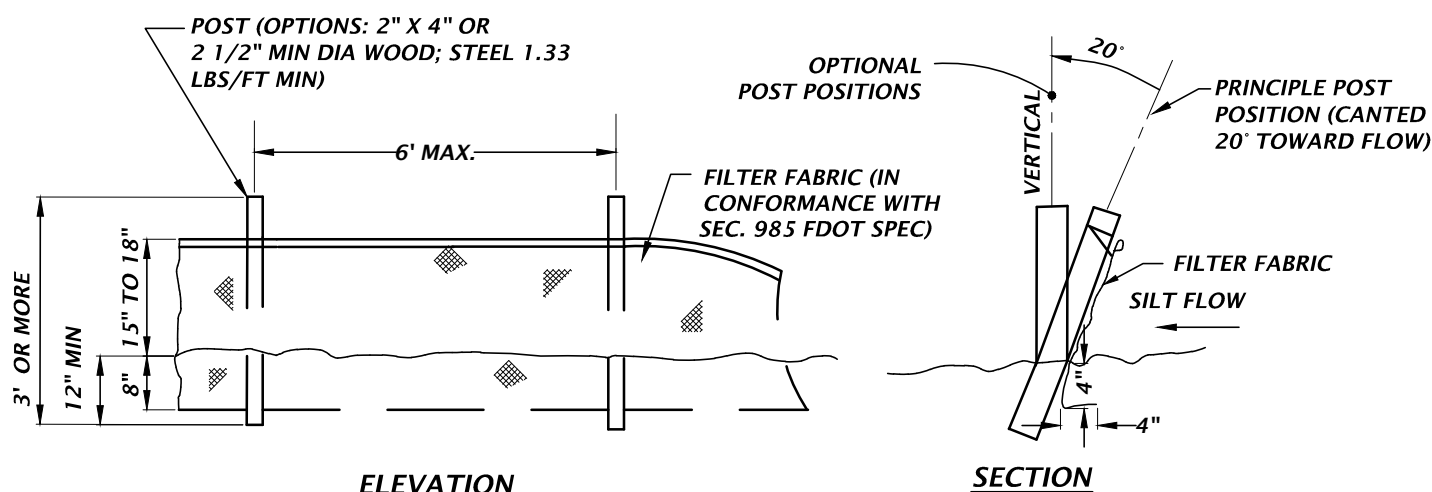
#### LIMEROCK/SINKHOLE

IF A CONTINUOUS LIMEROCK FORMATION IS ENCOUNTERED DURING EXCAVATION OF THE SWALES/BASIN OR IF A SINKHOLE FORMS IN THE AREA OF A DRAINAGE SWALE/BASIN THE ENGINEER OF RECORD SHALL BE NOTIFIED BY EITHER THE CONTRACTOR OR THE ESTABLISHED OPERATION AND MAINTENANCE ENTITY. THE ENGINEER OF RECORD SHALL INSPECT THE REPAIRED AREA UPON COMPLETION OF THE REPAIR.

WHERE A CONTINUOUS LIMEROCK FORMATION IS ENCOUNTERED DURING EXCAVATION OF THE SWALES/BASINS, THE LIMEROCK SHALL BE OVER EXCAVATED BY 3 FEET, AN APPROVED GEO TEXTILE FABRIC SHALL BE PLACED IN THE EXCAVATION AND BACKFILLED WITH SANDY SOILS IN A LOOSE CONDITION.

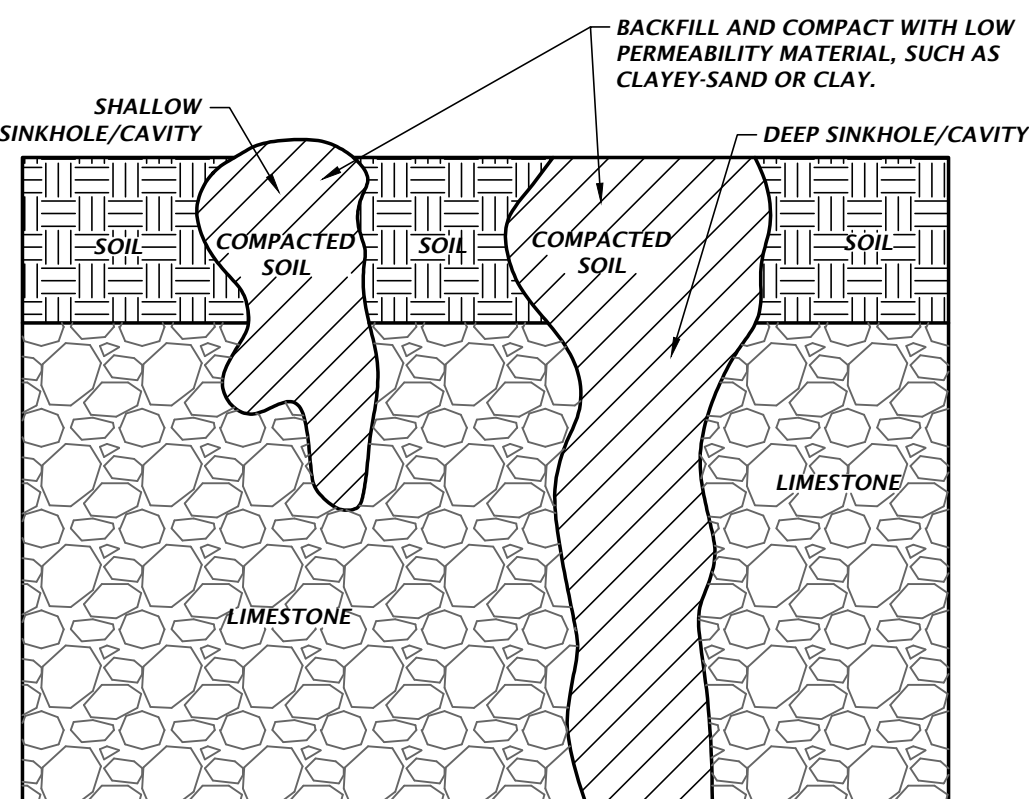
ALL SWALES/BASINS SHALL BE INSPECTED MONTHLY FOR SINKHOLE OCCURRENCE. SHOULD A SINKHOLE OCCUR, THE AREA SHALL BE REPAIRED AS SOON AS POSSIBLE. REPAIR SHALL INCLUDE FILLING LIMEROCK SUCH AS ROAD BASE MATERIAL, CLAY/SAND MIXTURE, OR CONCRETE IF NECESSARY. A 3 FOOT DEEP CAP THAT EXTENDS 3 FEET BEYOND THE PERIMETER OF THE SINKHOLE SHALL BE CONSTRUCTED WITH CLAYEY SOILS. THE CLAYEY SOIL SHALL HAVE AT LEAST 20% PASSING THE NO. 200 SIEVE, COMPACTED TO 95% OF STANDARD PROCTOR, AND COMPACTED IN A WET CONDITION WITH MOISTURE 2% - 4% ABOVE OPTIMUM. THE CLAY SOIL CAP SHALL BE REGRADED TO PREVENT CONCENTRATION OF WATERS (PONDING) AND RE-VEGETATED.

OPERATION & MAINTENANCE ENTITY: MOONSHINE ACRES RV PARK



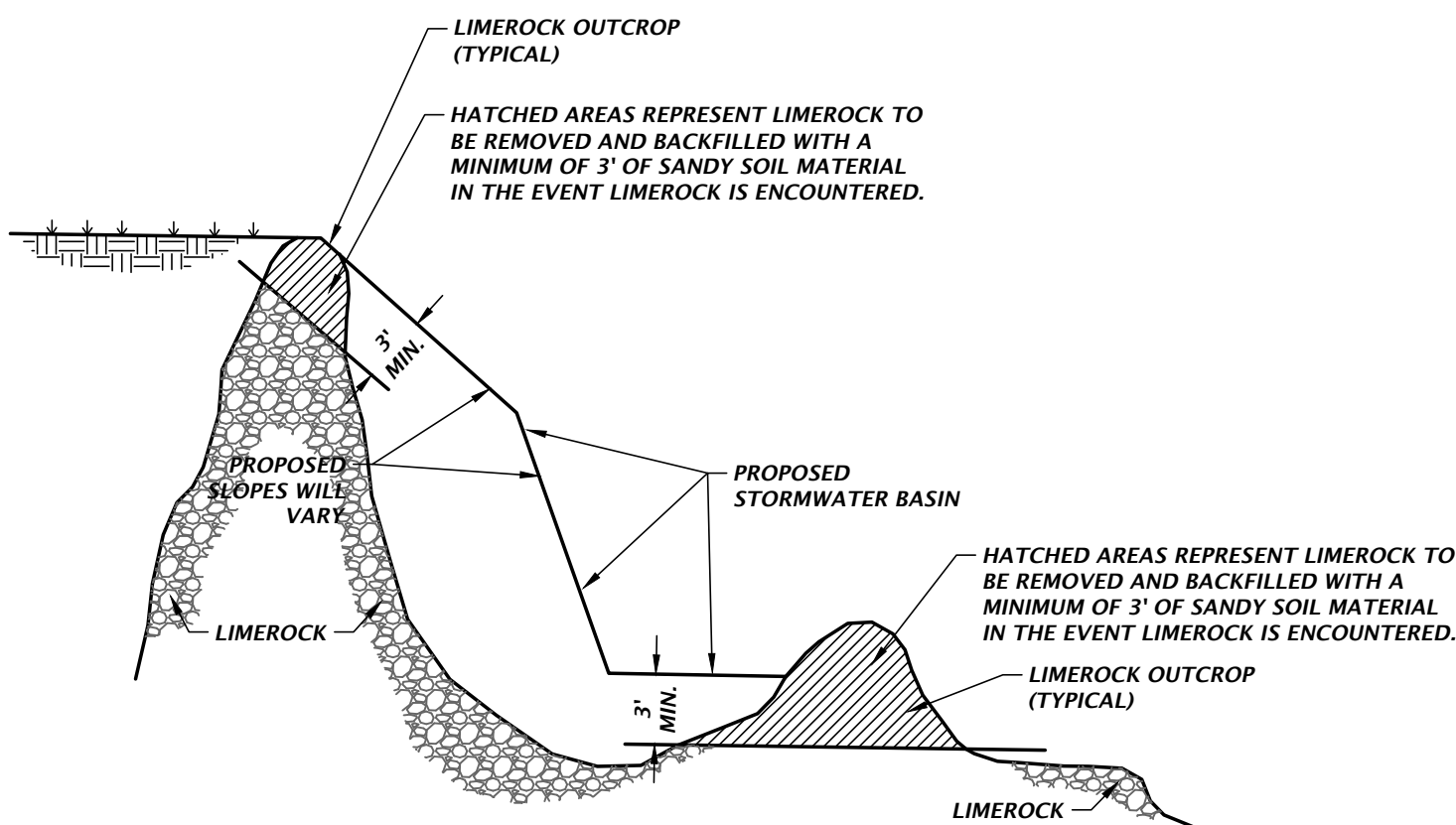
### TYPE III SILT FENCE DETAIL

NTS



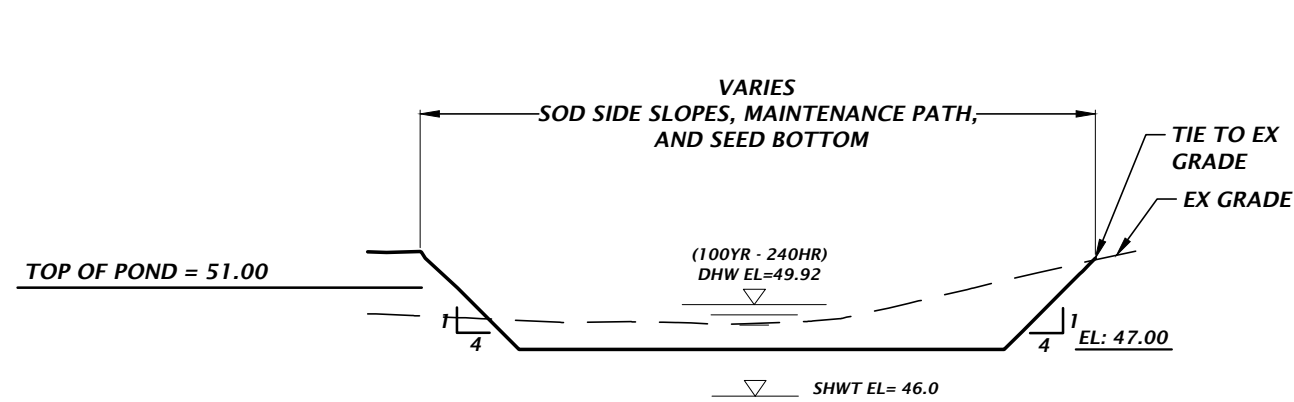
### SHALLOW AND DEEP SINKHOLE/CAVITY MAINTENANCE REPAIR DETAIL

NTS

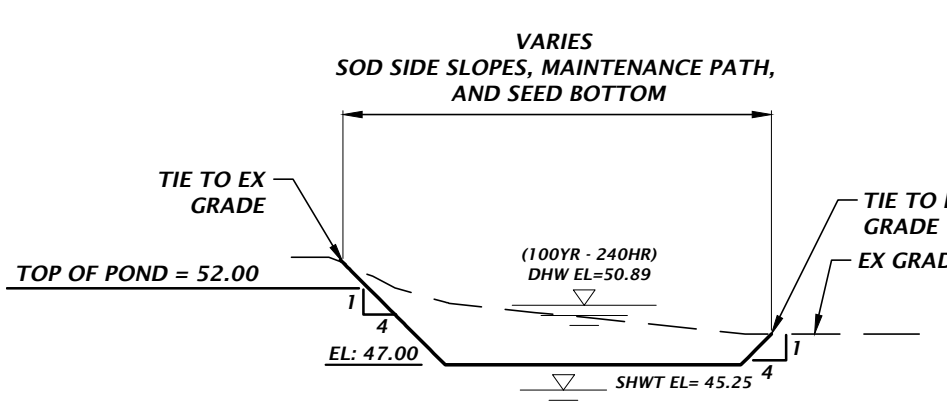


### LIMEROCK OUTCROP REMOVAL DETAIL

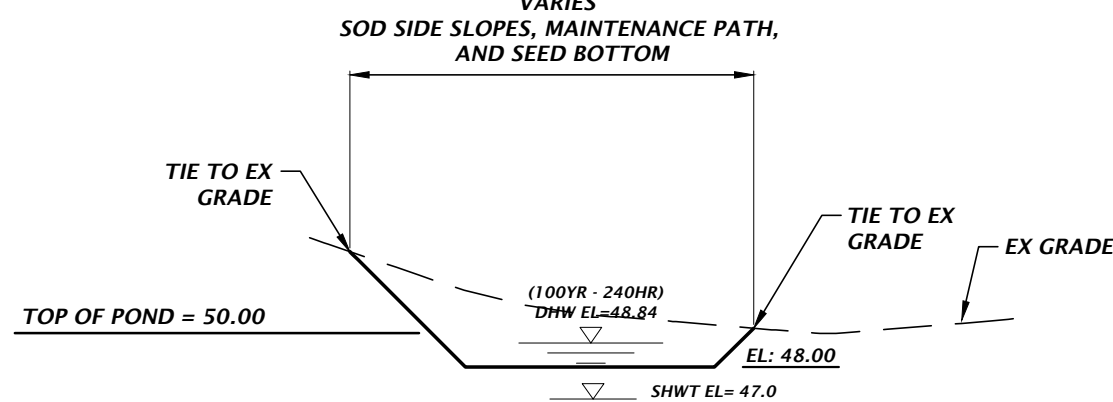
NTS



### STORMWATER MANAGEMENT FACILITY #1 CROSS SECTION A-A



### STORMWATER MANAGEMENT FACILITY #2 CROSS SECTION B-B



### STORMWATER MANAGEMENT FACILITY #3 CROSS SECTION C-C

#### STORMWATER FACILITY NOTES:

- IF A CONTINUOUS LIMEROCK FORMATION IS ENCOUNTERED IN THE BASIN AREA CONTACT THE ENGINEER OF RECORD. THE LIMEROCK SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 3 FEET BEYOND THE BASIN UNDERCUT LIMITS.
- IF A SOLUTION PIPE SINKHOLE DOES FORM IN THE STORMWATER BASIN, THEN THE SINKHOLE SHALL BE REPAIRED BY BACKFILLING WITH MATERIAL OF LOWER PERMEABILITY MATERIAL, SUCH AS CLAYEY SAND OR CLAY. THE MATERIAL SHALL BE COMPACTED AND THE SINKHOLE REPAIR SHOULD BRING THE SURFACE BACK TO AN ELEVATION WHICH IS SLIGHTLY ABOVE THE ORIGINAL BOTTOM, CREATING A SMALL MOUND.
- IN AREAS WHERE CLAY-RICH SOILS ARE PRESENT AT THE BASIN BOTTOM, THESE SOILS SHALL BE UNDERCUT A MINIMUM OF 2 FEET AND BACKFILLED WITH THE ON-SITE SANDS AND SANDS WITH SILT (SP, SP-SM) HAVING A MAXIMUM OF 12 PERCENT FINES PASSING THE NO. 200 SIEVE.
- IN AREAS WHERE CLAY-RICH SOILS ARE PRESENT AT THE BASIN BOTTOM, WE RECOMMEND THESE SOILS BE UNDERCUT A MINIMUM OF 2 FEET AND BACKFILLED WITH THE ON-SITE SANDS AND SANDS WITH SILT (SP, SP-SM) HAVING A MAXIMUM OF 12 PERCENT SOIL FINES PASSING THE NO. 200 SIEVE. THE INTENT OF THIS UNDERCUTTING AND REPLACEMENT IS TO PROVIDE A MORE UNIFORM SAND "BLANKET" AT THE BASIN BOTTOM THAT ALLOWS THE MIGRATION OF WATER TO THE DEEPER DEPOSITS OF SAND. THIS SAND BLANKET WILL ALSO REDUCE THE POTENTIAL FOR CLAY FINES LEACHING OUT OF THE SOILS WHEN WATER IS PRESENT IN THE BASIN THAT CAN RESULT IN A THIN LAYER OF CONFINING TYPE MATERIAL ON THE BASIN BOTTOM THAT CAN REDUCE THE EFFECTIVENESS OF THE BASIN.

11801 Research Drive  
Alicia, Florida 32615  
(352) 331-1976  
www.dhw-inc.com  
est. 1988 FLORIDA  
CA-5075

**CHW**  
Professional Consultants

VERIFY SCALE ON  
ORIGINAL DRAWING.  
RECORD AND RECORD  
THIS SHEET, ADJUST  
SCALE ACCORDINGLY.

SCALE: 1"=50'

CONSTRUCTION REVISIONS

REVISIONS

4/1/20 - OWNER REVIEW

CUSTOMER: MOONSHINE ACRES RV PARK  
PROJECT: MOONSHINE ACRES RV PARK  
STORMWATER CALCULATIONS  
SHEET TITLE: SITE LAYOUT AND STORMWATER

DESIGNER: EGILLESPIE  
CHECKER: T. SAGUL, P.E.  
QUALITY CONTROL: R. WALPOLE, P.E.  
PROJECT NUMBER: 20-0038

TIMOTHY JAMES SAGUL

Timothy James Sagul

State of Florida

Professional Engineer, License

No. 38810

This item has been digitally signed

and sealed by Timothy James

Sagul, P.E., on the date indicated

here.

Printed copies of this document

are not considered signed and

sealed and the signature must be

verified on any electronic copies.

FL PE No. 38810

SHEET NO.:

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