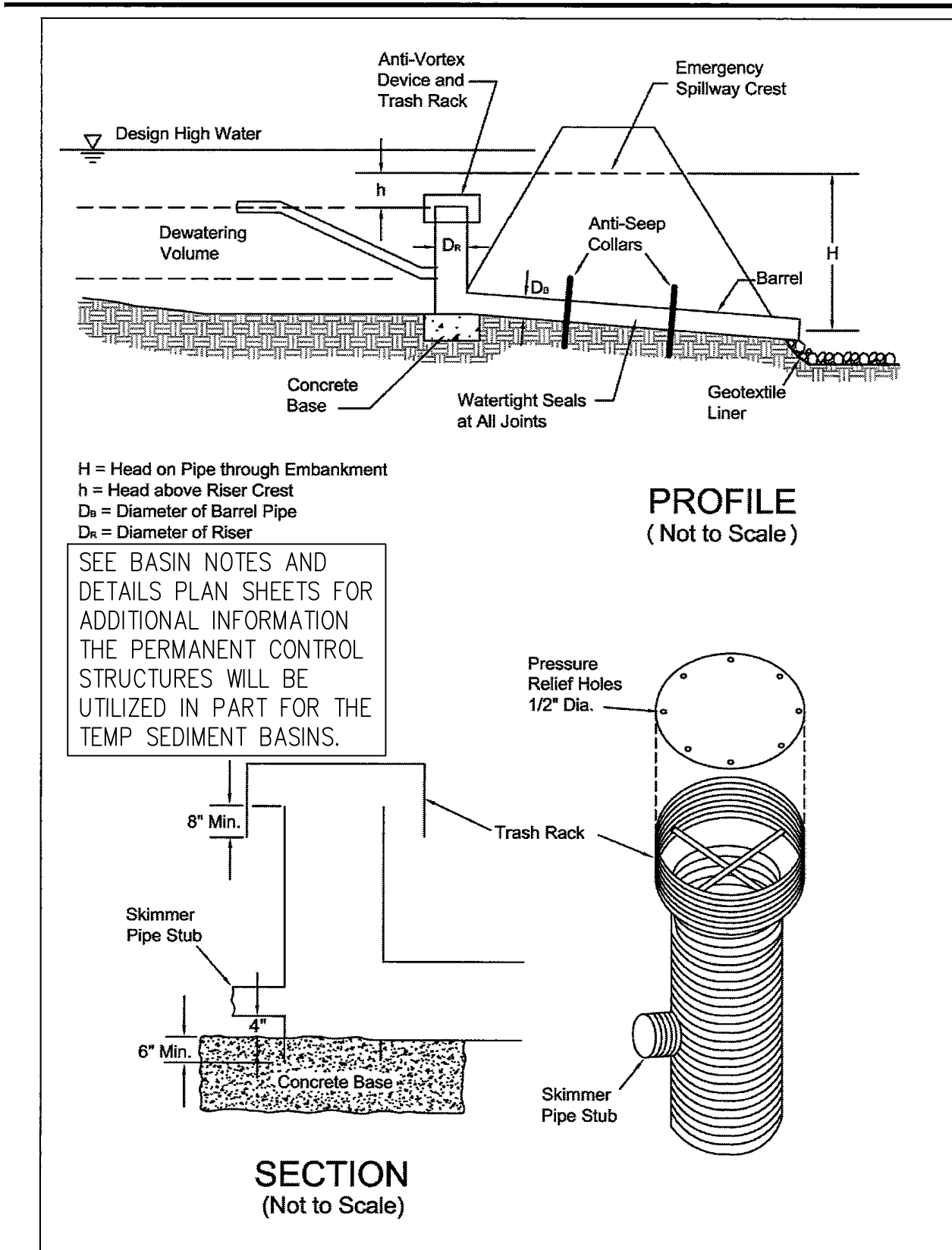
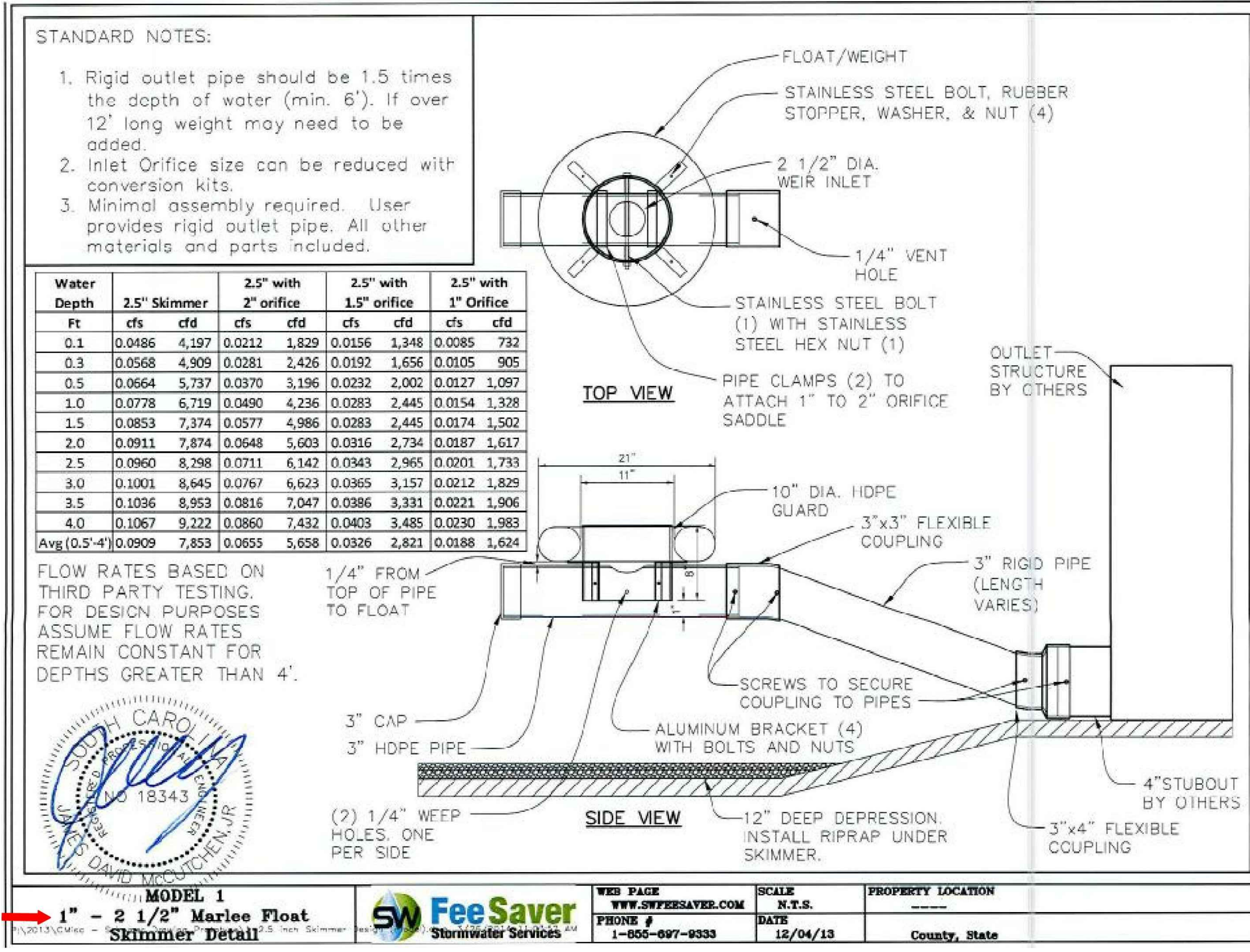


Specifications  
for  
**Sediment Basins**

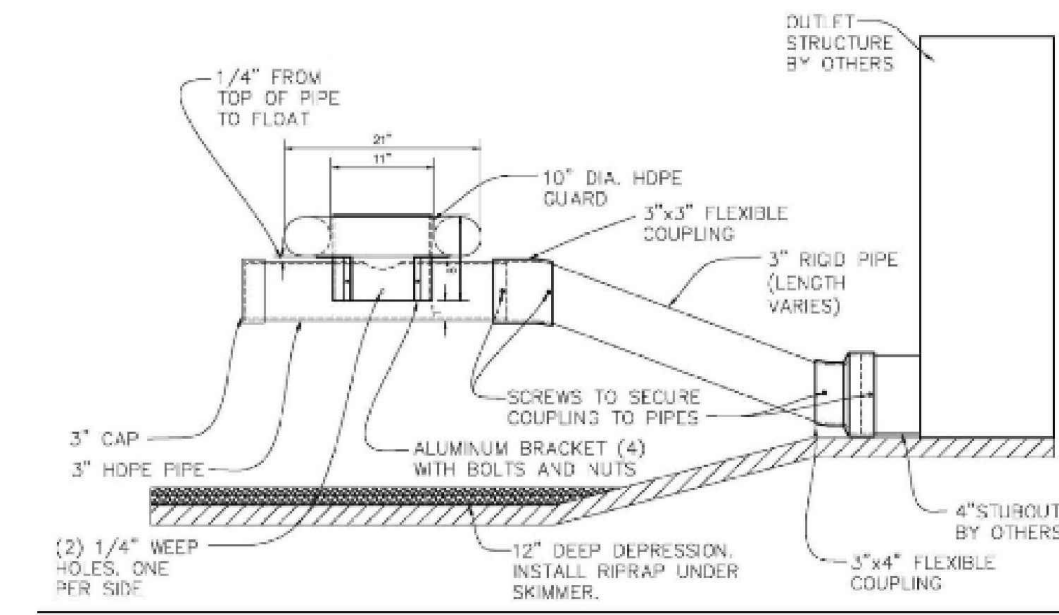


Specifications  
for  
**Sediment Basins**

- Sediment basins shall be constructed and operational before upslope land disturbance begins.
- Site Preparation -The area under the embankment shall be cleared, grubbed, and stripped of any vegetation and root mat. The pool area shall be cleared as needed to facilitate sediment cleanout. Gullies and sharp breaks shall be sloped to no steeper than 1:1. The surface of the foundation area will be thoroughly scarified before placement of the embankment material.
- Cut-Off Trench -The cutoff trench shall be excavated along the centerline of the embankment. The minimum depth shall be 3 ft. unless specified deeper on the plans or as a result of site conditions. The minimum bottom width shall be 4 ft., but wide enough to permit operation of compaction equipment. The trench shall be kept free of standing water during backfill operations.
- Embankment -The fill material shall be free of all sod, roots, frozen soil, stones over 6 in. in diameter, and other objectionable material. The placing and spreading of the fill material shall be started at the lowest point of the foundation and the fill shall be brought up in approximately 6 in. horizontal layers or of such thickness that the required compaction can be obtained with the equipment used. Construction equipment shall be operated over each layer in a way that will result in the required compaction. Special equipment shall be used when the required compaction cannot be obtained without it. The moisture content of fill material shall be such that the required degree of compaction can be obtained with the equipment used.
- Pipe Spillway -The pipe conduit barrel shall be placed on a firm foundation to the lines and grades shown on the plans. Connections between the riser and barrel, the anti-seep collars and barrel and all pipe joints shall be watertight. Selected backfill material shall be placed around the conduit in layers and each layer shall be compacted to at least the same density as the adjacent embankment. All compaction within 2 ft. of the pipe spillway will be accomplished with hand-operated tamping equipment.
- Riser Pipe Base -The riser pipe shall be set a minimum of 6 in. in the concrete base.
- Trash Racks -The top of the riser shall be fitted with trash racks firmly fastened to the riser pipe.
- Emergency Spillway -The emergency spillway shall be cut in undisturbed ground. Accurate construction of the spillway elevation and width is critical and shall be within a tolerance of 0.2 ft.
- Seed and Mulch -The sediment basin shall be stabilized immediately following its construction. In no case shall the embankment or emergency spillway remain bare for more than 7 days.
- Sediment Cleanout -Sediment shall be removed and the sediment basin restored to its original dimensions when the sediment has filled one-half the pond's original depth or as indicated on the plans. Sediment removed from the basin shall be placed so that it will not erode.
- Final removal -Sediment basins shall be removed after the upstream drainage area is stabilized or as indicated in the plans. Dewatering and removal shall NOT cause sediment to be discharged. The sediment basin site and sediment removed from the basin shall be stabilized.



Model #1: 1", 1.5", 2" & 2.5" Marlee™ Float Skimmer Cut Sheet/Installation Instructions



- 1" - 2.5" Marlee Float Skimmer is to be attached to a 3" rigid pipe (Schedule 40 PVC for construction/temporary applications or HDPE for permanent applications). Rigid pipe should be 1.5 times the height of the outlet structure. For ponds requiring a pipe length greater than 12' additional weight may be required to counteract buoyancy.
- 3" Rigid pipe to be attached to 4" pipe stubbed out of outlet structure or through dam. Flexible coupling to attach 3" rigid pipe to 4" PVC or HDPE stub out is provided. If 4" stubout is material other than Schedule 40 PVC or HDPE an alternate coupling may be required.
- When installing couplings make sure to leave at least 1" space in coupling between pipes to allow for sufficient flexibility. This is particularly important when using coupling to like size pipes (i.e. 3"x3").
- Basin should have a 12" depression (skimmer pit) to effectively drain pond. Two to three inches or water may remain in bottom of skimmer pit. It is recommended to slope basin at 2% grade to skimmer pit.
- Skimmer is shipped fully assembled. User attaches flexible couplings to rigid pipe and stubout from outlet structure. Securely tighten pipe clamps and install two screws (provided) through each connection to minimize slipping.
- During installation take care to position skimmer in upright position with floats level. Also verify that vent hole in flexible coupling is rotated to top of pipe.
- 1", 1.5" & 2" Orifice saddles are provided to convert standard 2.5" orifice. Center hole in saddle over 2.5" hole and secure using two pipe clamps provided.
- Add maintenance rope if required.
- Flow rates are provided with details. Design engineer to select skimmer size as required to meet local requirements.
- For technical support and/or assistance with installation, visit our website at [www.swfeesaver.com](http://www.swfeesaver.com) or call 1-855-697-9333.

REV.	DATE	DESCRIPTION
06/10/16		REVISED PER AGENCY COMMENTS
7/11/16		REVISED PER COUNTY COMMENTS

THE PRESERVE AT MILLER'S FARM  
 PHASE 3  
 SE CORNER OF SR 18 AND MEDINA LINE RD  
 COPLEY, OHIO 44321

SWPP NOTES  
 AND DETAILS

ISSUED FOR:	
PERMIT	04-06-2016
BID	
CONSTRUCTION	
AS-BUILT	

PROJECT MANAGER	DESIGNER
MAL	ALF

JOB NO.  
**2013258.03**

**11/29**