

November 6, 2013

Mr. David Szymanski
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, NY 14203

**RE: Corrective Measures Work Plan Addendum #2
Mineral Springs Road Former Manufactured Gas Plant Site**

Dear Mr. Szymanski,

On September 26, 2013 National Fuel Gas Distribution Corporation (NFG) submitted a Corrective Measure Work Plan (CMWP) for the Fence Replacement Area at NFG's Mineral Springs Road Former Manufactured Gas Plant Site. NYSDEC approved the CMWP in a letter dated October 1, 2013. Field implementation of the corrective measure began on November 4, 2013. During excavation, the ditch filled with water to a depth of about three inches. A photograph is attached. This letter provides an addendum to the CMWP to address this condition.

Figure 1 shows the planned ditch cross-section from the September 26, 2013 CMWP. AECOM reviewed the boring log for well MW-15, which is next to the excavation area, as shown on Figure 2. The well log is also attached with a mark showing the approximate trench bottom depth. This was estimated based on the recently completed survey. A review of groundwater elevations from MW-15 measured since 1997 shows that the depth to groundwater has never been shallower than 7.95 feet. This elevation is shown on the log. Based on this information, the source of the water in the ditch appears to be a perched ground water table which collects beneath a fill layer and above a naturally occurring clay layer.

NFG proposes to revise the slope cross-section as shown in Figure 3. This is consistent with the intent of the original design, since it will address surface water and not perched groundwater. The swale created by the berm will be sloped so that surface water drains toward the low area on the southern end of the property.

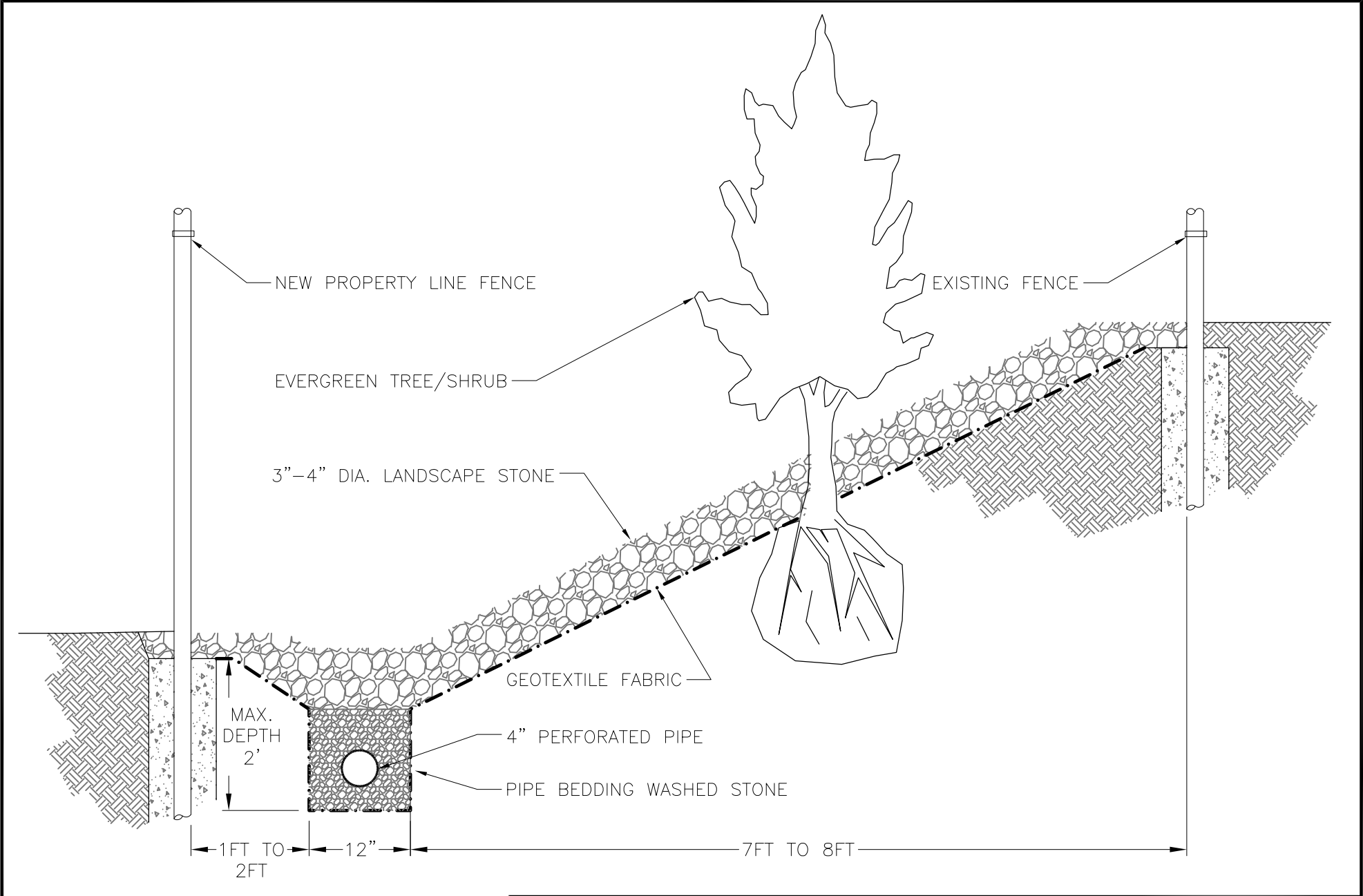
If you have any comments or questions regarding the responses or the revised CMWP, please call Brad Walker at 716-667-5559 or me.

Regards,

A handwritten signature in blue ink, appearing to be 'TPC', is positioned above the printed name.

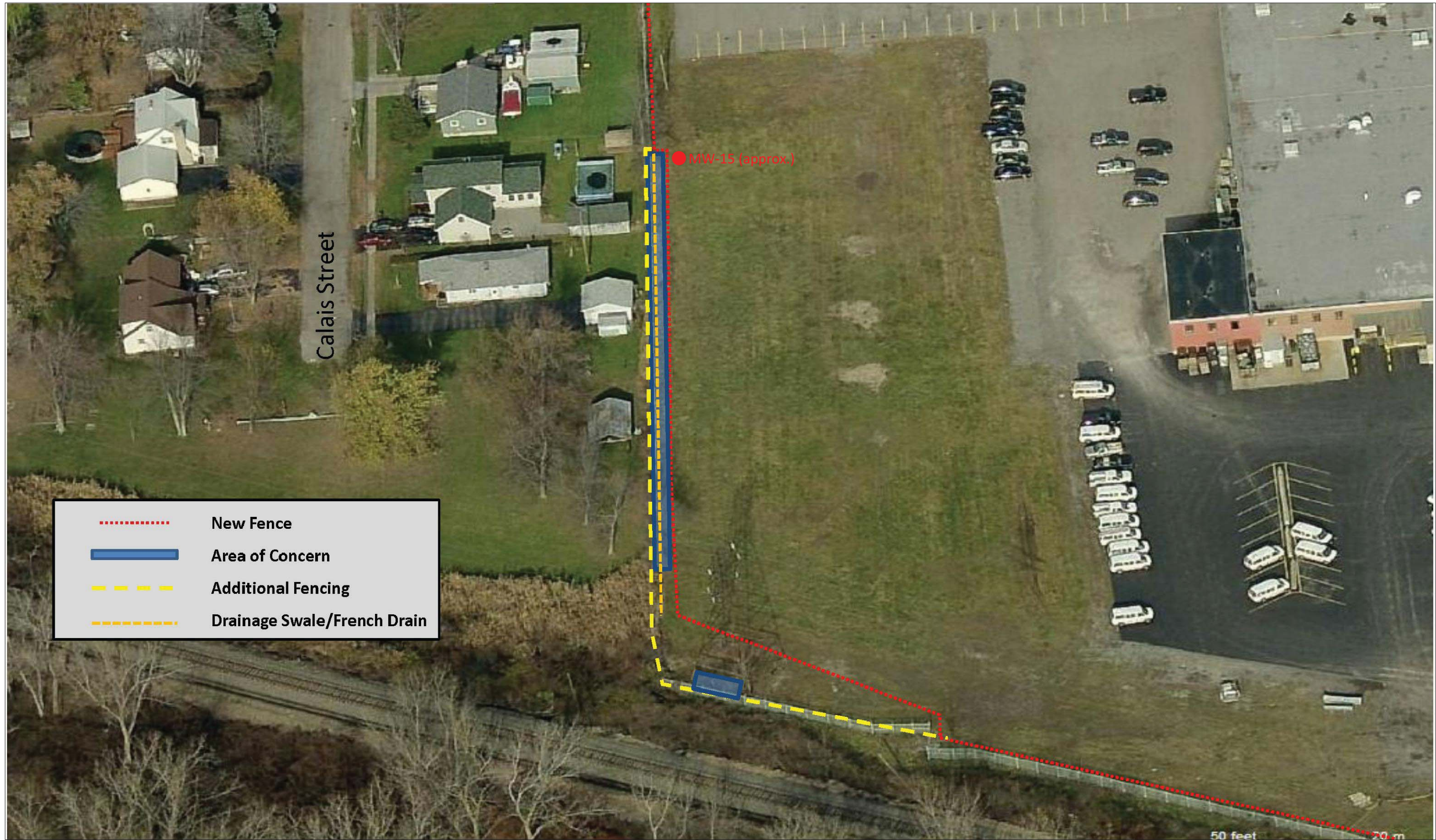
Thomas P. Clark, P.E.
Senior Engineer

cc: B. Walker – NFG
T. Alexander – NFG
S. McLaughlin – NYSDOH
T. Raby, AECOM



NOT TO SCALE

NATIONAL FUELS GAS MINERAL SPRINGS ROAD FACILITY 6025836.200			TYPICAL DRAIN DETAIL SEPTEMBER 26,2013 CORRECTIVE MEASURE WORK PLAN	
DATE: 11/06/13	DRWN: BcV			FIGURE: 1



MINERAL SPRINGS ROAD FACILITY
NATIONAL FUEL GAS
60250836.300

PROPOSED CORRECTIVE MEASURE

DATE: 08/20/2013

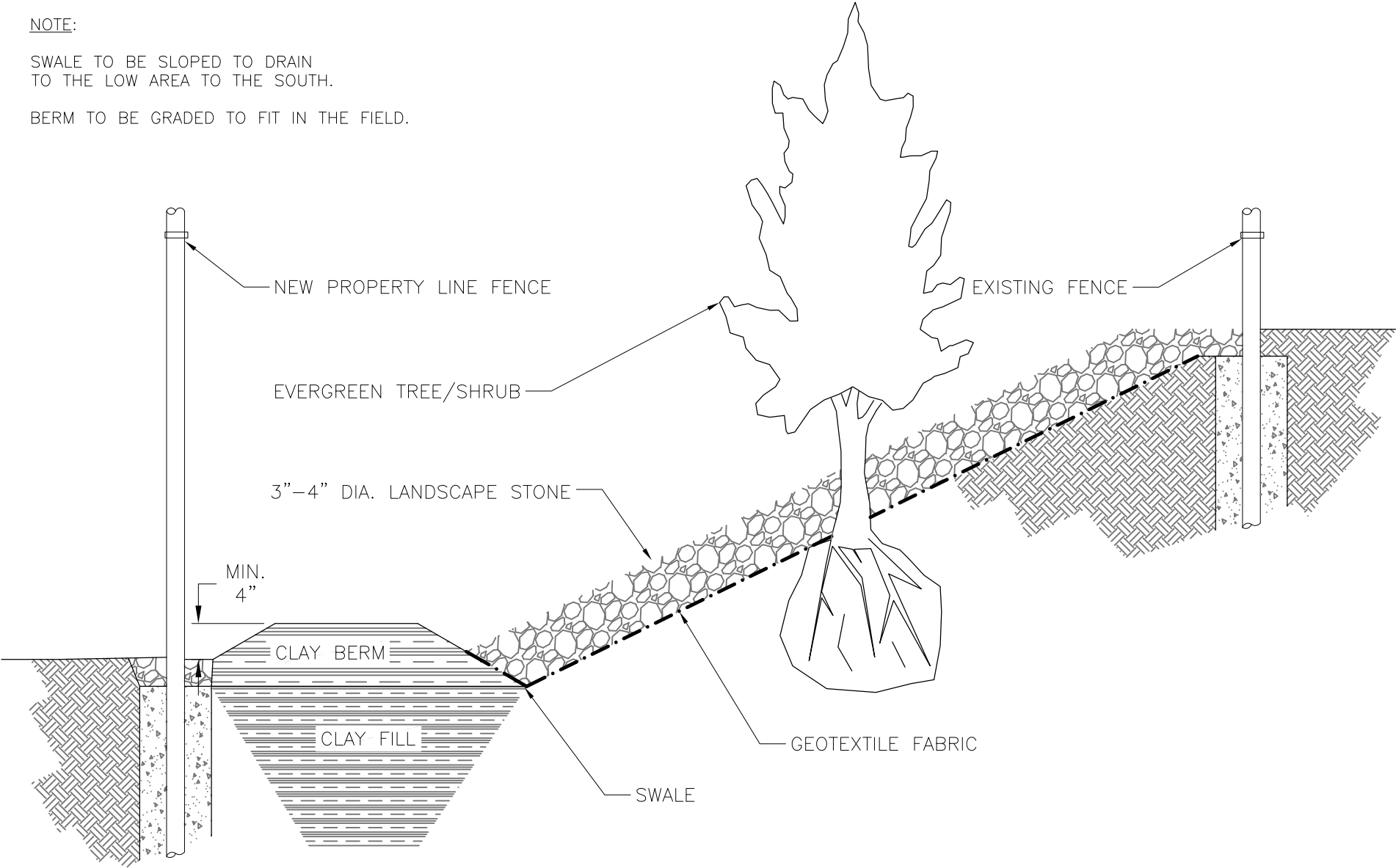
DRWN: BcV

FIGURE 2

NOTE:

SWALE TO BE SLOPED TO DRAIN
TO THE LOW AREA TO THE SOUTH.

BERM TO BE GRADED TO FIT IN THE FIELD.



NOT TO SCALE

NATIONAL FUELS GAS MINERAL SPRINGS ROAD FACILITY 6025836.200			TYPICAL BERM AND SWALE DETAIL
DATE: 11/06/13	DRWN: BcV		FIGURE: 3

PHOTOGRAPHIC LOG

Client Name:
National Fuel Gas Distribution Corp.

Site Location:
365 Mineral Springs Road, Buffalo, New York

Project No.
60250836

Photo No.
1

Date:
11/6/13

Direction Photo Taken:

Facing south

Description:

Corrective Measure
ditch excavation



MONITORING WELL LOG MW-15

PROJECT NO.: 3-2075-680

DRILLING CO.: MAXIM

MP ELEVATION: 590.93

CLIENT: NATIONAL FUEL GAS

DRILLER: RON BROWN

SURFACE ELEVATION: 588.95

LOCATION: MINERAL SPRINGS ROAD

METHOD:

WATER LEVEL DURING DRILLING: 11.82

START DATE: 7-1-97

CASING I.D.:

PVC STICK-UP: 2 1/2'

GEOLOGIST: MARK HOFFERBERT

TOTAL DEPTH: 18

AUGER O.D./I.D. 4.25" 10

DEPTH (feet)	SAMPLE TIME	BLOW COUNTS	RECOVERY	PID Headspace (ppm)	SAMPLE DEPTH	SOIL CLASS	LITHOLOGY	DESCRIPTION	WELL CONSTRUCTION
				23	0.5-2	FILL		0-0.5' Topsoil Fill material consisting of: silty clay and cinders.	
				0.0	2-4	CL		SILTY CLAY, gray, firm, medium plasticity.	
5				0.0	4-6				
				0.0	6-8				
10				0.0	8-10				
				0.0	10-12				
				0.0	12-14				
15				0.0	14-16			Becomes wet.	
				0.0	16-18	SP		SAND, gray, coarse, loose, wet.	
20								End of boring.	

Approximate bottom of ditch

Approximate depth to water table