

TOWN OF UNDERHILL

APPLICATION FOR PERMIT
Subsurface Sewage Disposal System

To be completed by Property Owner:

General Information:

Property Code: PH 211
Name: Dale and Monica Kowalewski Telephone: (W) 238-3113 or 318-6520
Mailing Address: P.O. Box 112 (H) 238-3113
Underhill Center, Vt. 05490
Location Of Property: 211 POKER HILL ROAD Acreage: 1.02
Zone(s) Property Located In: Rural Residential / Water Conservation
Volume/Page/Date Of Deed: _____

Water & Sewage Disposal Information:

A REGISTERED SITE TECHNICIAN OR ENGINEER MUST DESIGN ALL SYSTEMS

The Sewage Officer shall be contacted 72 hours prior to site investigation (test pits).

New: ☒ Repair: _____ Replacement: _____
Designer: Trudell Consulting Engineers Telephone: 879-6331
Number of bedrooms: 4

One set of complete plans required as per Plan/Design Review checklist

Type Of Water System: Spring: _____ Dug well ☒ Drilled well: _____ Water District: _____
Fee Due With Application: \$ 50.00 Recording Fee: \$ 14.00 Total \$ 64.00

Applicant's Signature: Dale Kowalewski Date: _____

Inspection of System by the Sewage Officer and Design Consultant prior to backfilling is required. 48 hour notice to Town is required prior to inspection.

WITHOUT THIS INSPECTION AND A LETTER OF CERTIFICATION OF INSPECTION FROM THE DESIGNER, A CERTIFICATE OF COMPLIANCE WILL NOT BE ISSUED

To be completed by the Zoning Administrator:

Date of Test Pits 4/16/99 / 9/16/05
Type Of Sewage Disposal System: conventional - absorption trench
Distance From Leach field to: Watersource: 150' Property Line: 250' +
Streambank: 120' +

Date Approved: 8/16/06

Date Inspected: _____

Designer Certification of inspection: _____

Certificate of Compliance: _____

State Permit # (if applicable) _____

Administrator's Signature: Chantal Amour Approval Date: 8/16/06

Application & Fee Received: \$ 64.00 By: cam

Check No. 507

This application is valid for two years from date of approval.

Received for record August 17, 2006 at 11:30 AM

ATTEST: Sherrin Almon, Town Clerk

August 28, 2026

Mr. Dale Kowalewski
78B VT. RT. 15
Jericho, Vt. 05465

RE: Poker Hill Property

Dear Mr. Kowalewski:

On Friday, April 16, 1999, Jeff Keeney, Carolyn Gregson, and myself profiled the two test pits that you had excavated on parcel one of the Charles Smith Property on Poker Hill Road. We found no evidence of a seasonal groundwater table at either test pit, and agreed that the site would be suitable for a conventional in-ground septic system. However, to satisfy the rules, some additional auger holes would have to be dug to prove out the site before a sanitary plan could be prepared.

The soils profiles and percolation rates are as follows:

Test Pit #1	Test Pit #2
0" – 4" Topsoil	0" – 5" Topsoil
4" – 18" Red Brown Fine Sandy Silt	5" – 18" Silt Loam
18" – 60" Gray Fine Sandy Silt	18" – 66" Silty gravel
W/some 2" cobbles	66" – 72" Silty Fine Gray Sand
No evidence of a groundwater	W/ some 8" cobbles
No ledge or impeding layer encountered	no soils mottling
	Or ledge encountered

Percolation Test #1 (P-1) = 7 min./in. P-2 = 5 min./in. P-3 = 10 min./in. P-4 = 5 min./in.

Very truly yours,

TRUDELL CONSULTING ENGINEERS, INC.

Doug Bicknell

Encl.

cc: Carolyn Gregson, Underhill Zoning
The Martin Agency

98079L05.doc

June 14, 2007

Dale & Monika Kowalewski
P.O. Box 112
Underhill Center, VT 05490

RE: Construction Certification

Dear Mr. & Mrs. Kowalewski:

We observed construction of the disposal system serving this project, on March 28, 2007 and June 11, 2007 using a reasonable standard of care customary for this scope of work.

Listed below is a brief summary of our findings:

1. The contractor is Dale Kowalewski.
2. We met on the site to stakeout the work and discuss the plans on September 7, 2006.
3. The septic tank is a 1000 gallon pre-cast concrete tank that was set level and contained appropriate baffles, with an effluent filter cartridge in the outlet baffle). The tank has access risers at both ends that make it easy to access for future cleaning and service.
4. The 4" PVC SDR 35 delivery line was installed as shown on the plans.
5. A baffled distribution box was installed with a bull- run valve so the flows can easily be alternated between primary and replacement.
6. The distribution box is insulated and the access riser is flush with the ground surface.
7. The leach field stone (from Whitcomb's pit) was found to be reasonably clean.
8. The observation ports were installed as shown on the plans.
9. A drilled well was installed about where the shallow well location is shown on the plan.
10. The entire site is graded for surface drainage and will be seeded and mulched.

The following are recommendations that should be followed by the homeowner to aid in the proper operation and longevity of the disposal system.

1. The septic tank and effluent-filter should be inspected annually, and the tank pumped out every 3 years.
2. The effluent-filter should be cleaned annually during the inspection of the septic tank. This involves grabbing the filter by the handle, pulling it straight up, and rinsing it off with a garden hose, (letting and debris and water fall back into the septic tank).

Based on the above observations, this letter can serve as confirmation that the system was installed in general conformance with the approved plans. This does not relieve the contractor of minor adjustments that may be needed during the initial startup of the system, nor does it relieve the owner of proper use and maintenance. This letter is not intended to imply any type of warranty or guarantee from the engineer since both the use and maintenance are beyond our control. However, given the good workmanship of Dale Kowalewski, we are not anticipating any problems.

Very truly yours,

Doug Bicknell

TRUDELL CONSULTING ENGINEERS (TCE)

Certification Statement:

I, John Pitrowiski, P.E., herby certify that the design-related information is true and correct and that, in the exercise of my reasonable professional judgment, the design of the potable water supply and wastewater system meets the technical standards of the Rules.

I also herby certify that the installation-related information submitted is true and correct and that, in the exercise of my reasonable professional judgment, the potable water supply and wastewater system have been installed in accordance with the permitted design and all permit conditions, were inspected, were properly tested, and successfully met those performance tests.

A copy of this Construction Certification letter should be filed with the Secretary and recorded and indexed in the land records of the Town of Underhill.

John Pitrowiski, P.E.

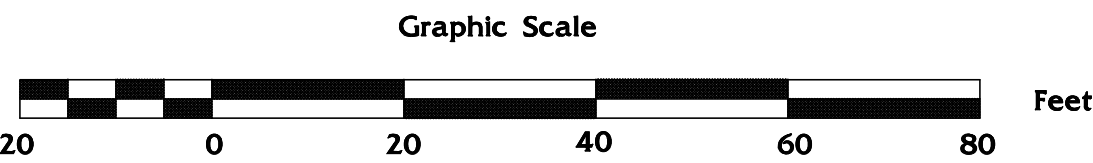
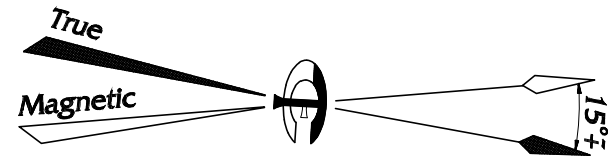
cc. Chris Murphy, Town of Underhill

LEGEND

	EXISTING	PROPOSED
SEWER MAINS AND SERVICES	-----S-----	-----S-----
WATER MAINS AND SERVICES	-----W-----	-----W-----
OVERHEAD POWER	-----P-----	-----P-----
UNDERGROUND POWER		-----UP-----
TOPOGRAPHIC CONTOURS	-----123-----	-----123-----
GRAVEL DRIVE OR ROAD	=====	=====
PROPERTY LINE	=====	=====
BUILDING SETBACKS	-----	-----
FENCE	-----X-----	-----X-----
UTILITY POLE	○	○
CONCRETE MONUMENT	■	■
PERCOLATION TEST	⊕	⊕
SOIL TEST PIT	⊕	⊕

"I HEREBY CERTIFY THAT THE DESIGN RELATED INFORMATION SUBMITTED WITH THIS APPLICATION IS TRUE AND CORRECT, AND THAT, IN THE EXERCISE OF MY REASONABLE PROFESSIONAL JUDGMENT, THE DESIGN INCLUDED IN THIS APPLICATION FOR A PERMIT COMPLIES WITH THE VERMONT WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES AND THE VERMONT WATER SUPPLY RULES" (REF. ENVIRONMENTAL PROTECTION RULES CHAPTER 1 S 1-302 (b)(1)).

ELEVATION KEY	
FINISHED FLOOR ELEV.	= 393.0
HOUSE SEWER ELEV.	= 390.0
SEPTIC TANK INV. IN.	= 389.7
SEPTIC TANK INV. OUT	= 389.45
DISTRIBUTION BOX INV.	= 392.8
DISPOSAL FIELD INVERT.	= 392.5



TEST PIT PROFILE 04/16/99 AND 09/16/05

SOILS PROFILING CONDUCTED BY DOUG BICKNELL, DESIGNER LICENSE #153 WITH JEFF KEENEY & CAROLYN GREGSON ON APRIL 16, 1999 AND WITH CHRIS MURPHY ON SEPTEMBER 16, 2005.
THE SOILS FOUND IN THE FOUR TEST PIT EXCAVATIONS WERE SIMILAR WITH THE FOLLOWING PROFILE:

- 0 - 7" DARK BROWN, FINE SANDY LOAM, MANY WOODY ROOTS, GRANULAR STRUCTURE, LOOSE CONSISTENCY, CLEAR, SMOOTH BOUNDARY.
7" - 14" REDDISH BROWN, FINE SANDY LOAM, FEW WOODY ROOTS, GRANULAR STRUCTURE, LOOSE CONSISTENCY, CLEAR BOUNDARY.
14" - 72" GRAYISH, SILTY FINE SAND, WITH MEDIUM/COARSE SAND, COMMON GRAVEL, FEW COBBLES, GRANULAR SOMEWHAT BLOCKY STRUCTURE, FRIABLE FIRM CONSISTENCY.
NO SEASONAL GROUNDWATER INDICATORS WERE OBSERVED
NO LEDGE OR IMPEDING LAYER WAS ENCOUNTERED

PERCOLATION TESTS RESULTS 04/16/99

PERCOLATION TESTS CONDUCTED BY DOUG BICKNELL, DESIGNER LICENSE #153
P1 = 7.0 MIN./IN. P2 = 5.0 MIN./IN. P3 = 10.0 MIN./IN. P3 = 5.0 MIN./IN.

ZONING DISTRICT:

AGRICULTURAL/RURAL RESIDENTIAL

BASIS OF DESIGN

THIS DESIGN IS BASED ON THE REQUIREMENTS OF THE CURRENT (JAN. 1, 2005) WASTEWATER SYSTEM AND POTABLE SUPPLY RULES, AND THE TOWN OF UNDERHILL REQUIREMENTS FOR DISPOSAL SYSTEMS. THE PRESCRIPTIVE APPROACH USED FOR THIS DESIGN INCORPORATES THE USE OF ABSORPTION TRENCHES IN A CONVENTIONAL, IN-GROUND TYPE DISPOSAL FIELD.

- SEWAGE FLOWS: 4 BEDROOM HOUSE AT 490 GALLONS / DAY
- DESIGN APPLICATION RATE: 1.0 GALLON / SQ. FT. / DAY
- REQUIRED DISPOSAL FIELD AREA: 490 GPD / 1.0 GPD/SF = 490 SF x .75 = 368 SQ.FT.
- DISPOSAL AREA PROVIDED: TWO TRENCHES THAT ARE 4 FT. WIDE AND 46 FT. LONG = 368 SQ.FT. (USE 18 INCHES OF CRUSHED STONE BELOW DISTRIBUTION PIPE FOR 75% REDUCTION)
PRIMARY AND REPLACEMENT ABSORPTION TRENCHES ARE INTERFINGERED.

NOTE:

THE LOT LINES SHOWN ON THIS PLAN ARE BASED ON BOUNDARY MARKERS FOUND IN THE FIELD, AND A SUBDIVISION PLAN ENTITLED "CHARLES GARY SMITH" BY HAROLD MARSH P.L.L.S. #30 DATED MARCH 23, 1999.

TOPOGRAPHY BASED ON ASSUMED ELEVATION



TRUDELL
CONSULTING
ENGINEERS (TCE)

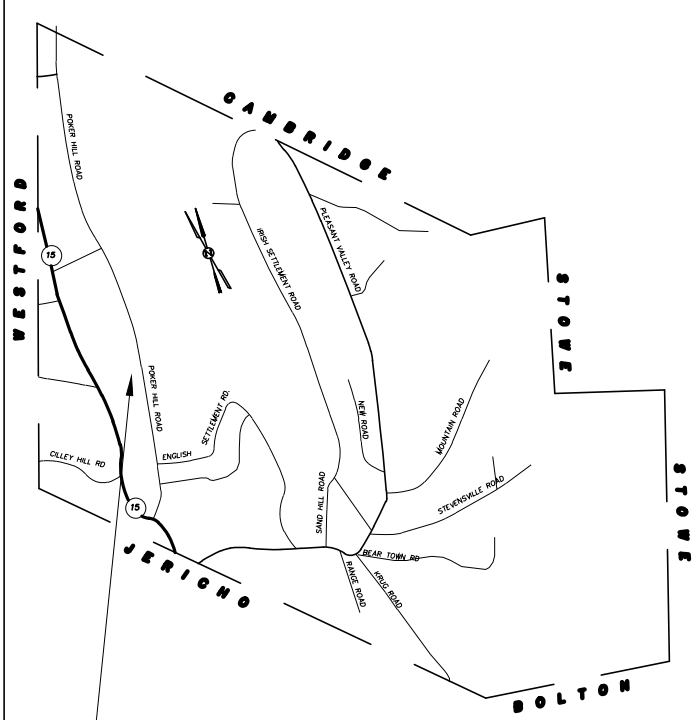
478 Blair Park Road P.O. Box 308 (802) 879-6331(phone)
Williston, Vermont 05495 (802) 879-0060(fax)
Visit Us on the Web at: www.TrudellConsulting.com

THESE PLANS ARE SUITABLE FOR THE PURPOSE OF:

- ☐ CONCEPTUAL APPROVAL SUBMISSION
☐ PRELIMINARY APPROVAL SUBMISSION
☒ ACT 250 SUBMISSION
☐ FINAL APPROVAL SUBMISSION
☐ CONSTRUCTION DRAWINGS

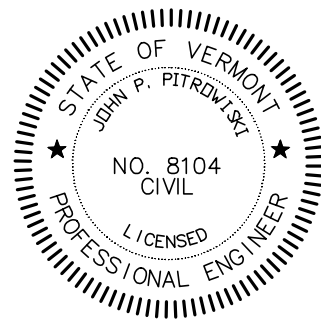
USE AND INTERPRETATION OF THE DRAWINGS

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Project Location

No.	Description	Date	By
Revisions			



Project Title

Dale & Monika
Kowalewski

Poker Hill Road
Underhill, Vermont

Sheet Title

Sanitary Plan

Drawing Number : 98079-51 Extension : 1

Project manager : DPB Drawn : DPB

Date : 09/16/05 F.B. 207 Scale : 1" = 20'

Project reference : XXX X-Ref : XXX

Bench file : XXX

Approved

S:_TCE DRAWINGS\1998\98079\98079-SL.DWG 9/21/2005 2:18:25 PM EST

SP1



TRUDELL
CONSULTING
ENGINEERS, INC.

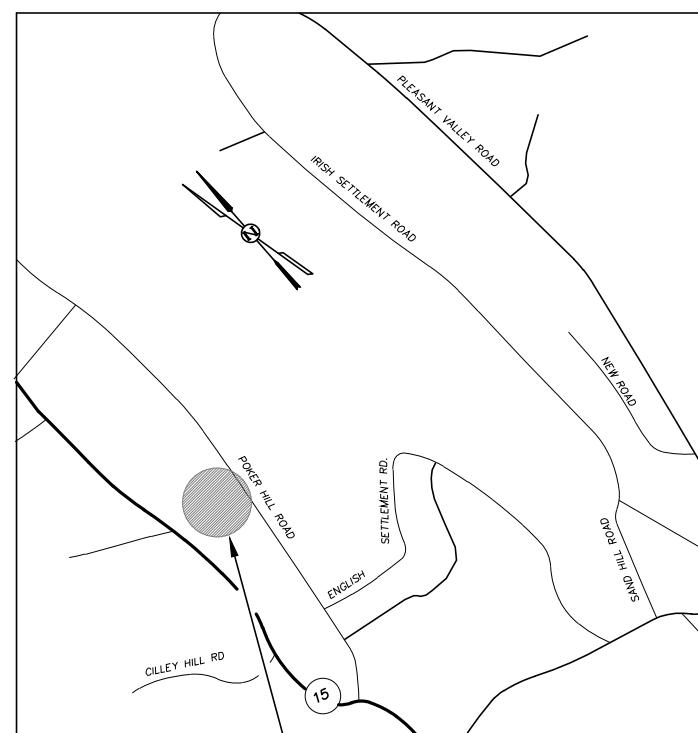
14 Blair Park Road
Box 308 Williston, Vermont 05495 (802) 879-6331

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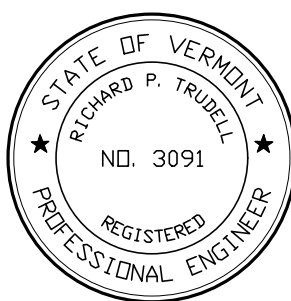


Project Location

NEW LOT LINES 03/23/99 DPB

No.	Description	Date	By
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Revisions



Project Title

KOWALEWSKI
PROJECT

Poker Hill Road
Underhill, Vermont

Sheet Title

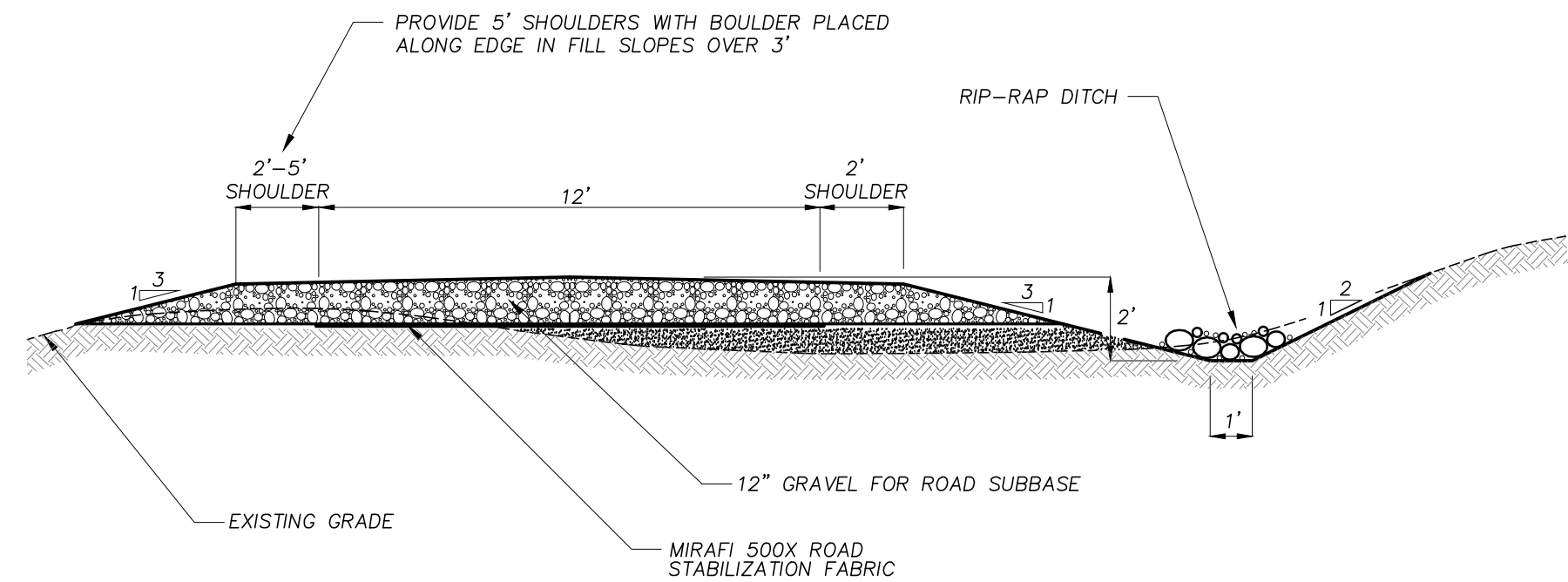
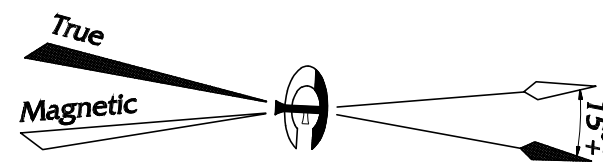
Driveway
Site Plan

Drawing Number : 98079-50 Extension : 1
Project manager : DPB Drawn : SLM
Date : 11/18/98 F.B. 207 Scale : 1" = 50'
Project reference : X-Ref :

Approved

98079-50.dwg 7299 115528

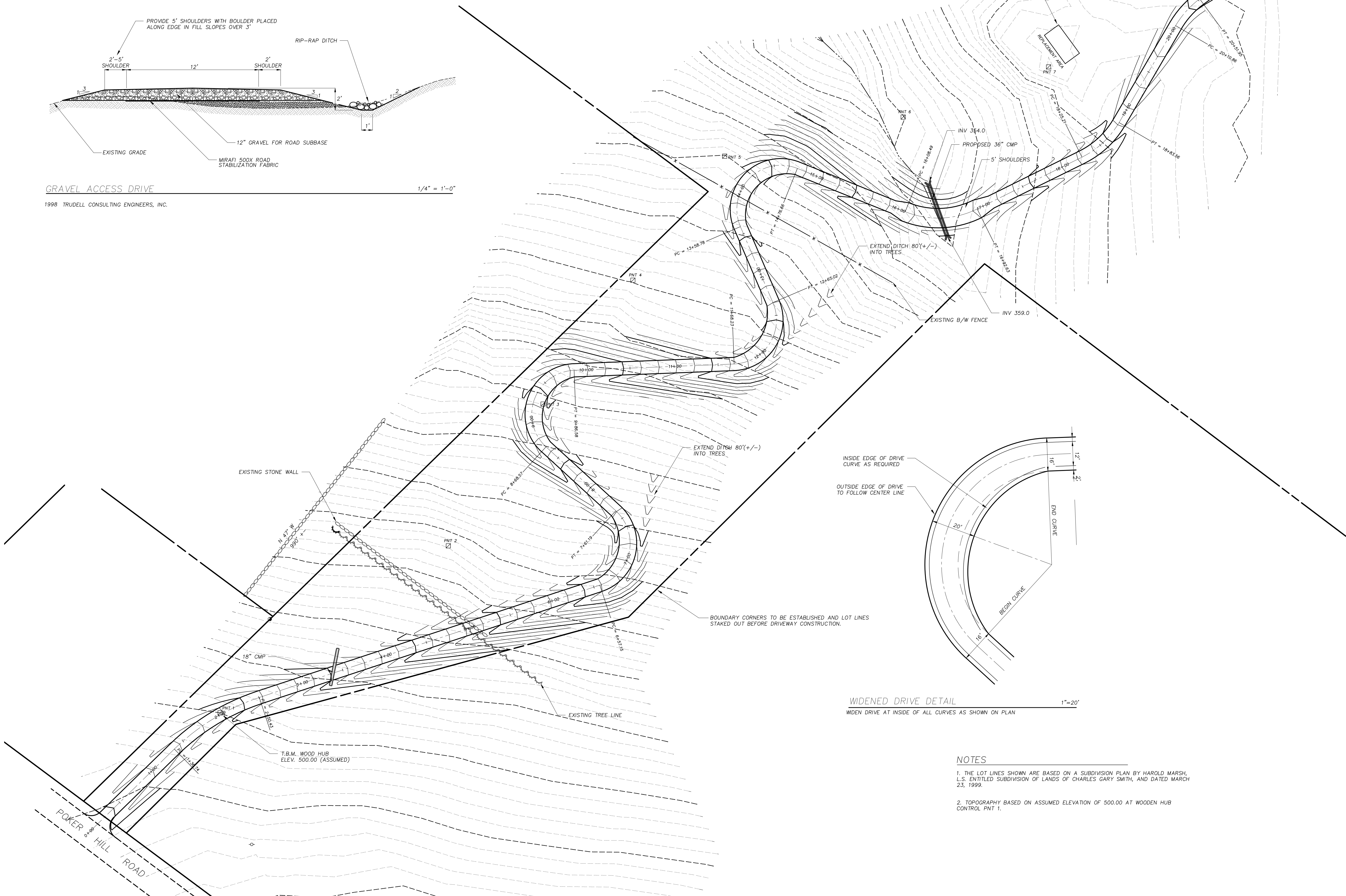
SP1



GRAVEL ACCESS DRIVE

1/4" = 1'-0"

1998 TRUDELL CONSULTING ENGINEERS, INC.

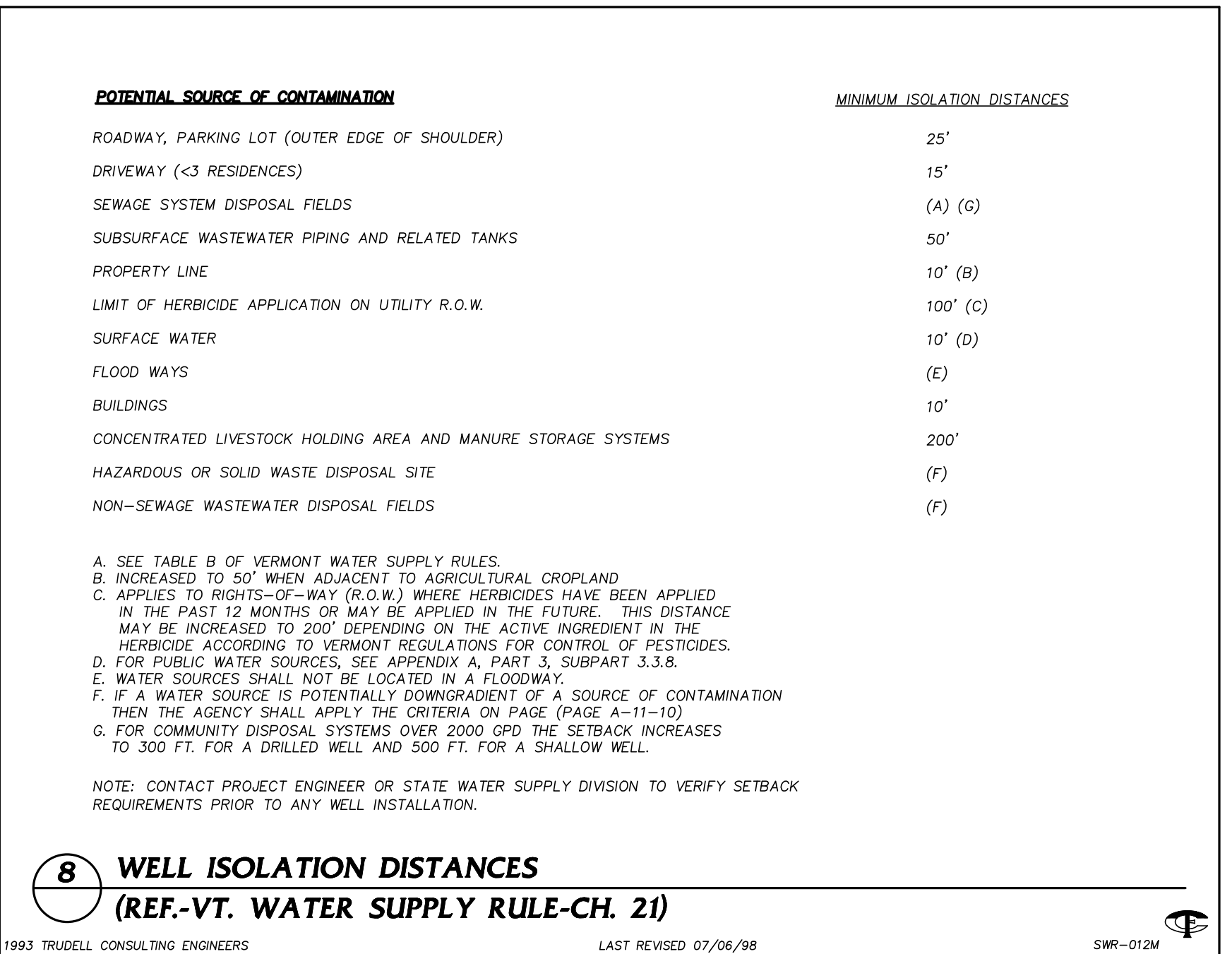
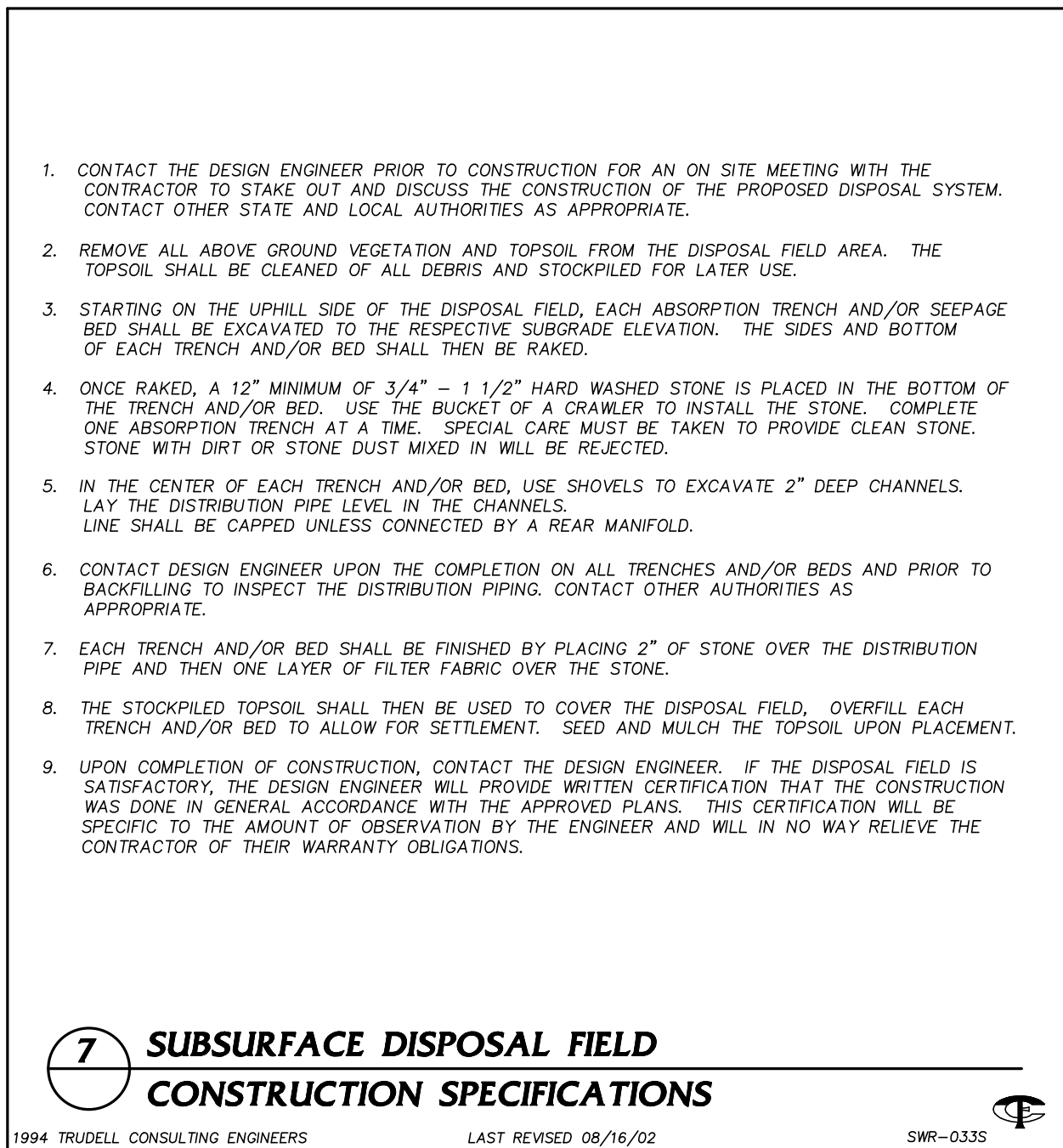
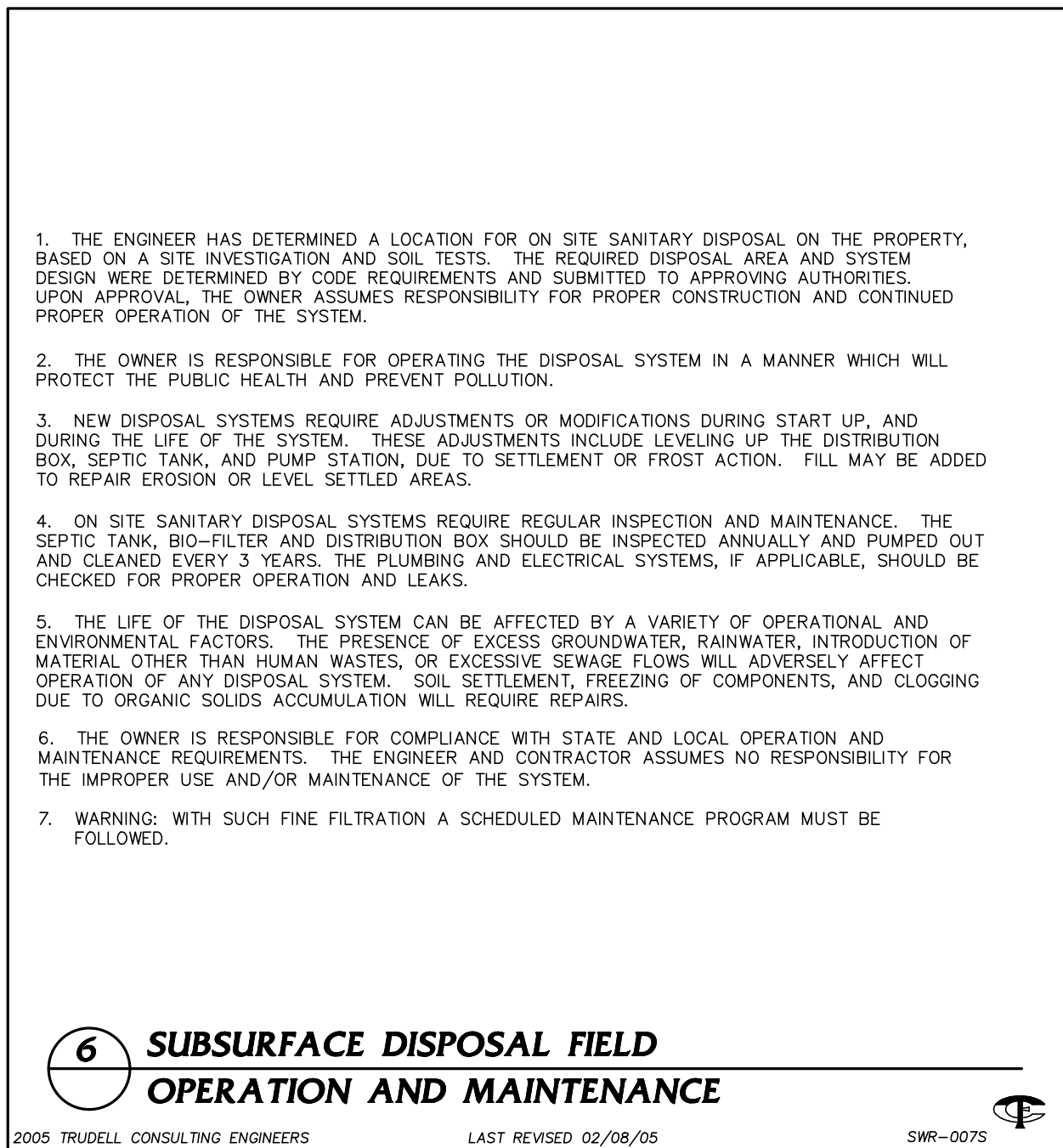
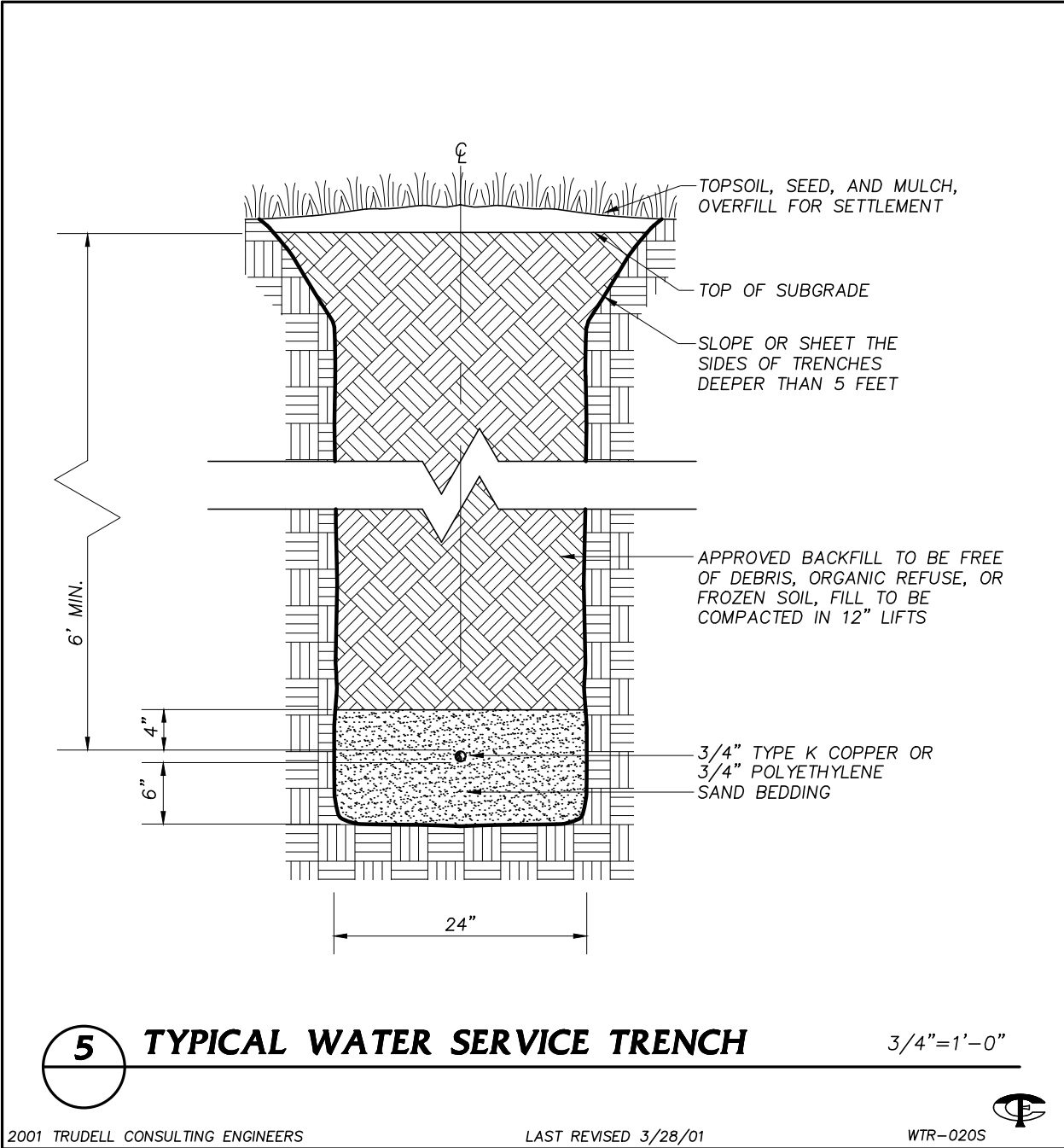
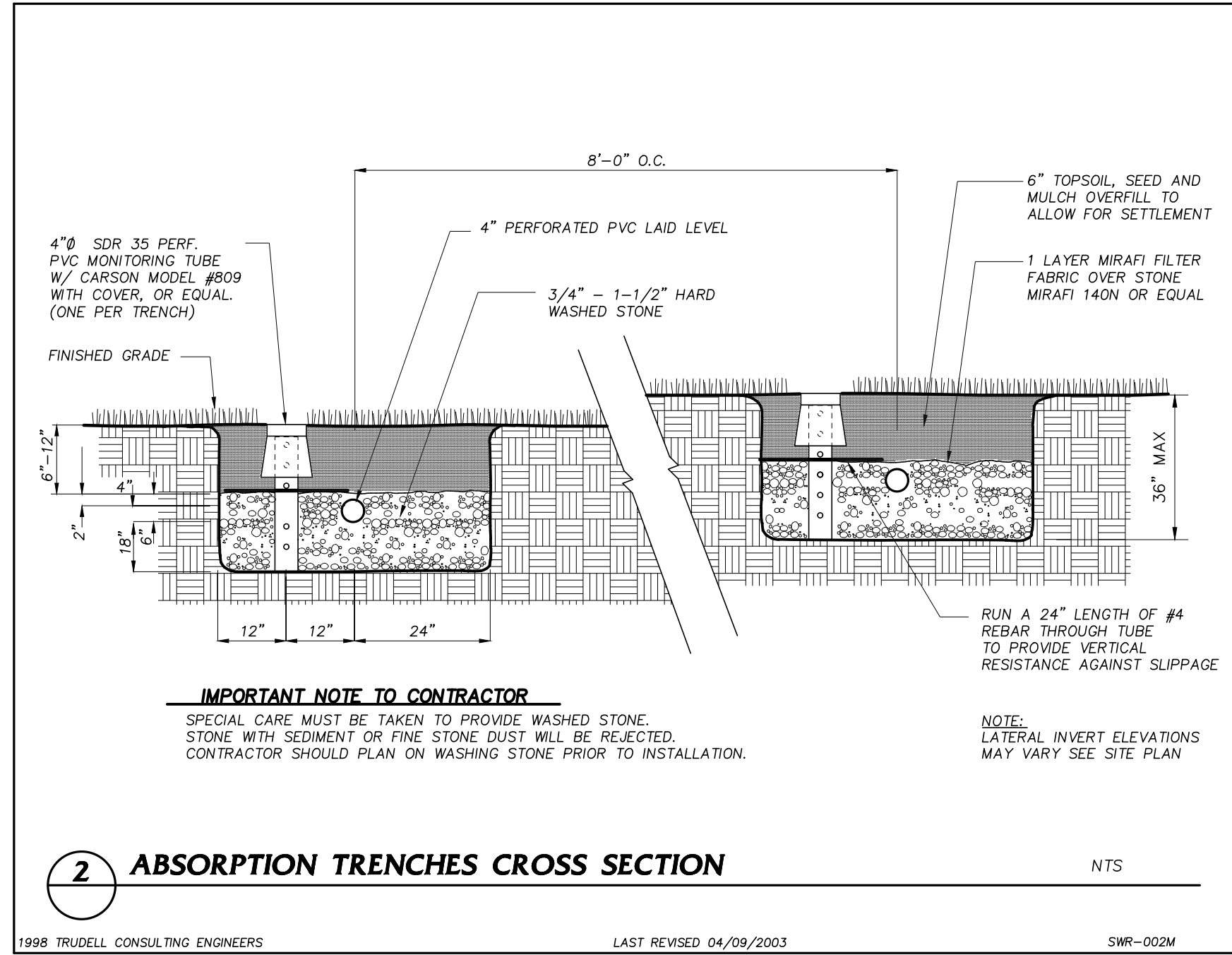
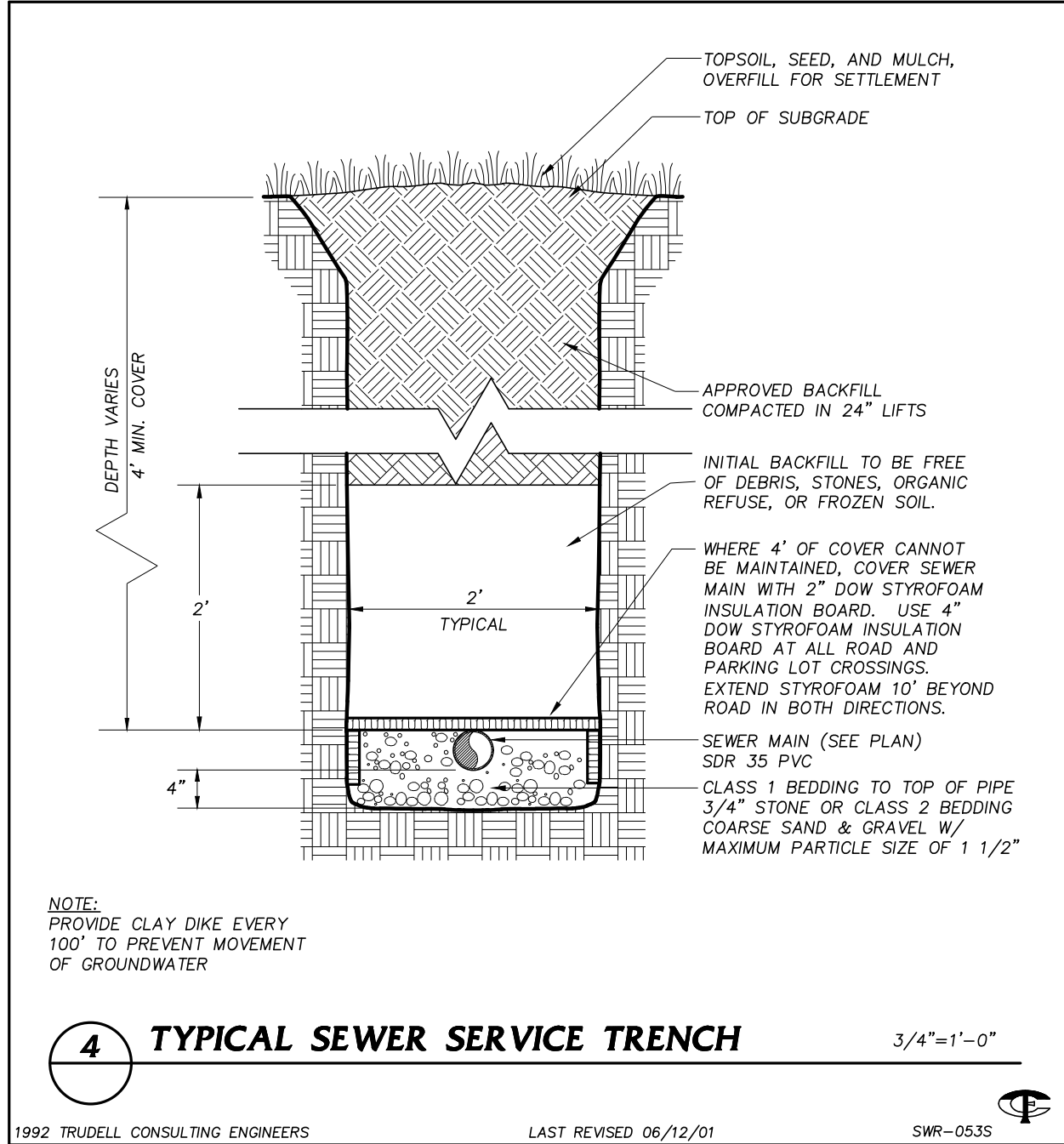
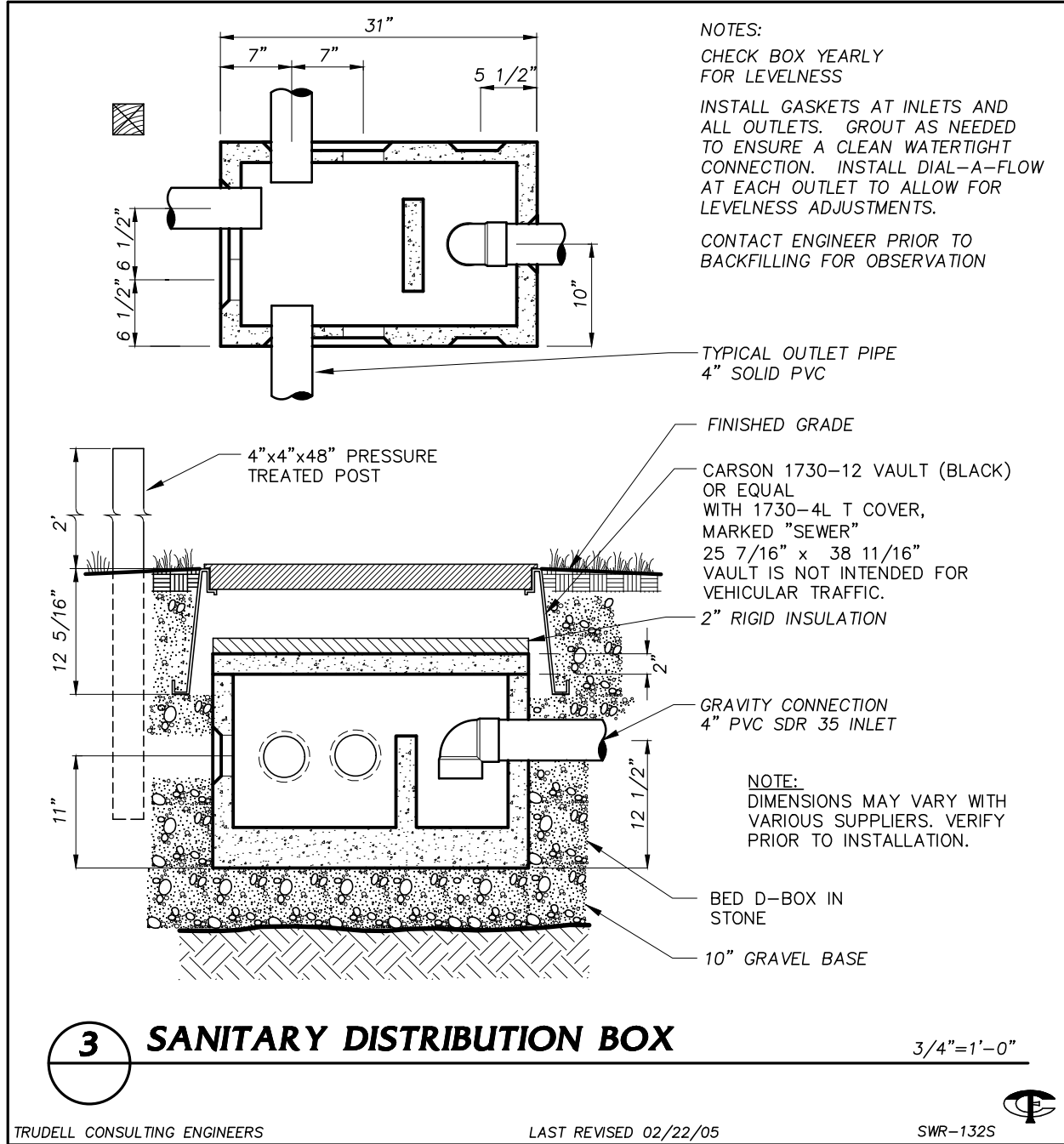
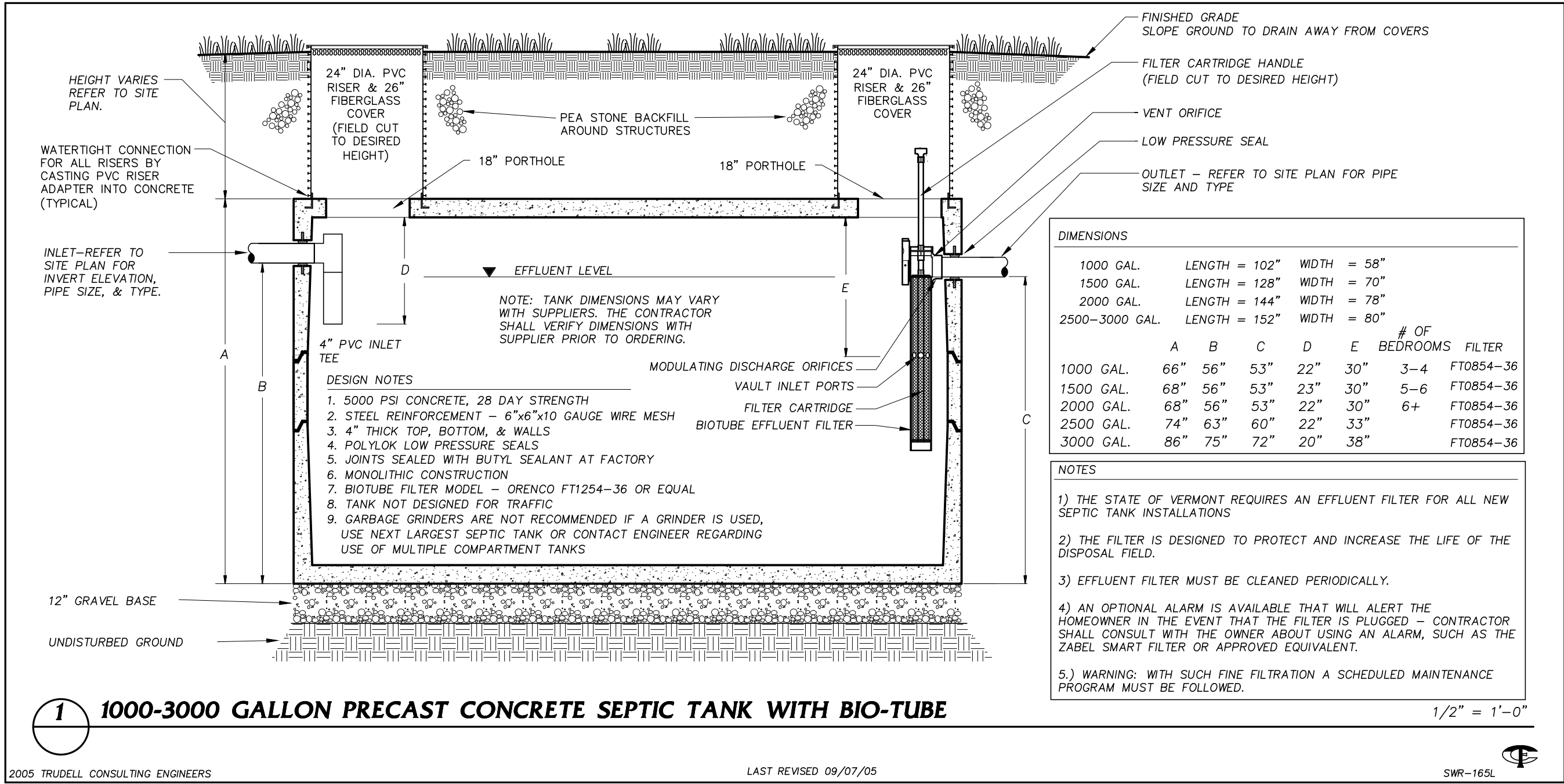


WIDENED DRIVE DETAIL

1" = 20'

NOTES

- THE LOT LINES SHOWN ARE BASED ON A SUBDIVISION PLAN BY HAROLD MARSH, L.S. ENTITLED SUBDIVISION OF LANDS OF CHARLES GARY SMITH, AND DATED MARCH 23, 1999.
- TOPOGRAPHY BASED ON ASSUMED ELEVATION OF 500.00 AT WOODEN HUB CONTROL PNT 1.



TRUDELL CONSULTING ENGINEERS (TCE)

478 Blair Park Road
 Box 308 Williston, Vermont 05495 (802) 879-6331

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No.	Description	Date	By
Revisions			

STATE OF VERMONT
 JOHN P. TRUDELL
 NO. 8104
 CIVIL
 LICENSED PROFESSIONAL ENGINEER

Project Title

Dale & Monika Kowalewski

Poker Hill Road Underhill, Vermont

Sheet Title

Details

Drawing Number : 98079-70 Extension : 00

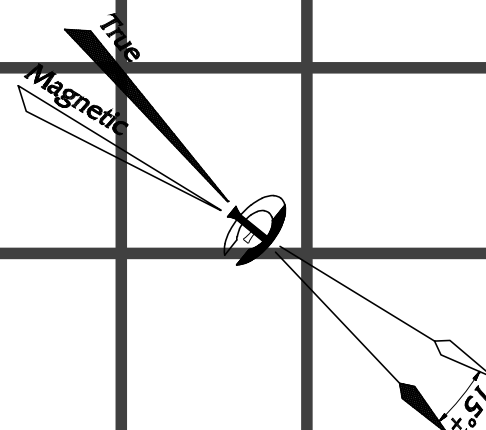
Project manager : DPB Drawn : DPB

Date : 09/21/05 Scale : AS SHOWN

Approved

S:_TCE DRAWINGS\1998\98079\98079-70.DWG 9/21/2005 12:07:18 PM EST

D1



N 34° E
990' ±

N 47° W
1118' ±

N 47° W
990' ±

N 34° E
990' ±

KOWALEWSKI
Poker Hill Road
Underhill, Vermont

Drawing Number : 98079-10
Project manager : DPB Drawn : DPB
Date : 11/13/98 F.B. 207 Scale : 1" = 50'
Datum: Hi: V: ASSUMED
Bench File: North Based On:
98079-10.DWG 12-30-98 8:09:52 am EST



TRUDELL
CONSULTING
ENGINEERS, INC.

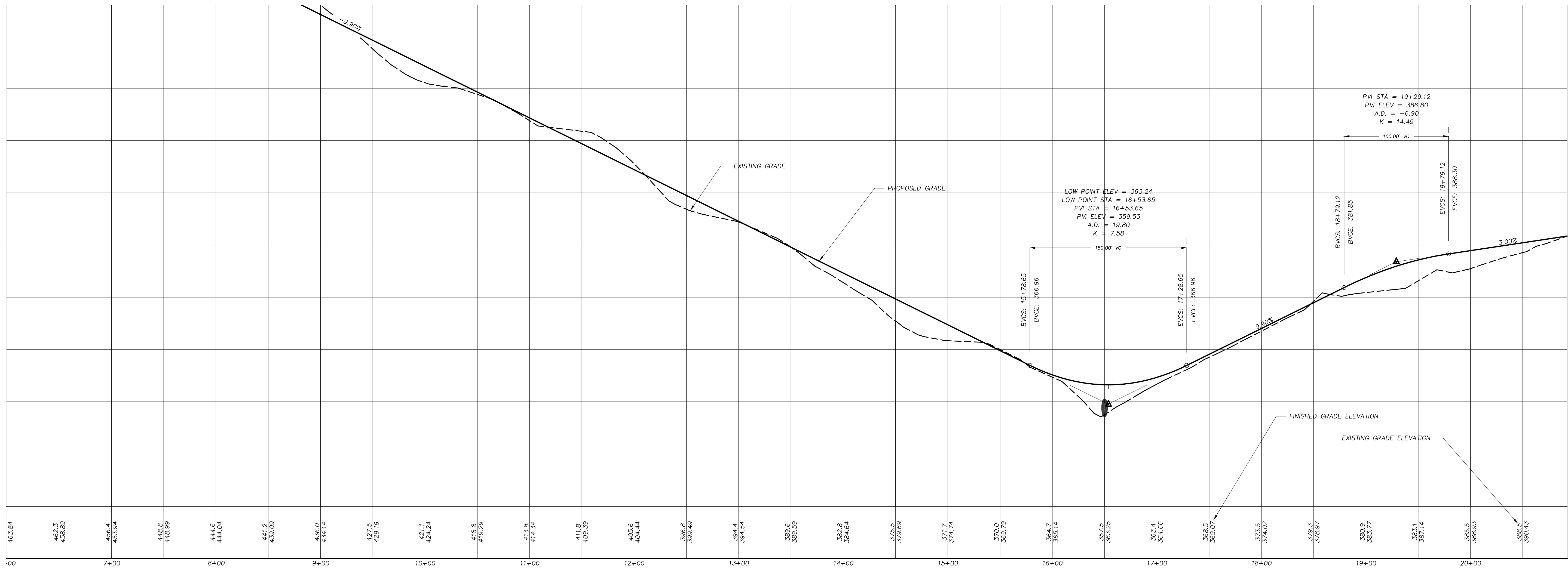
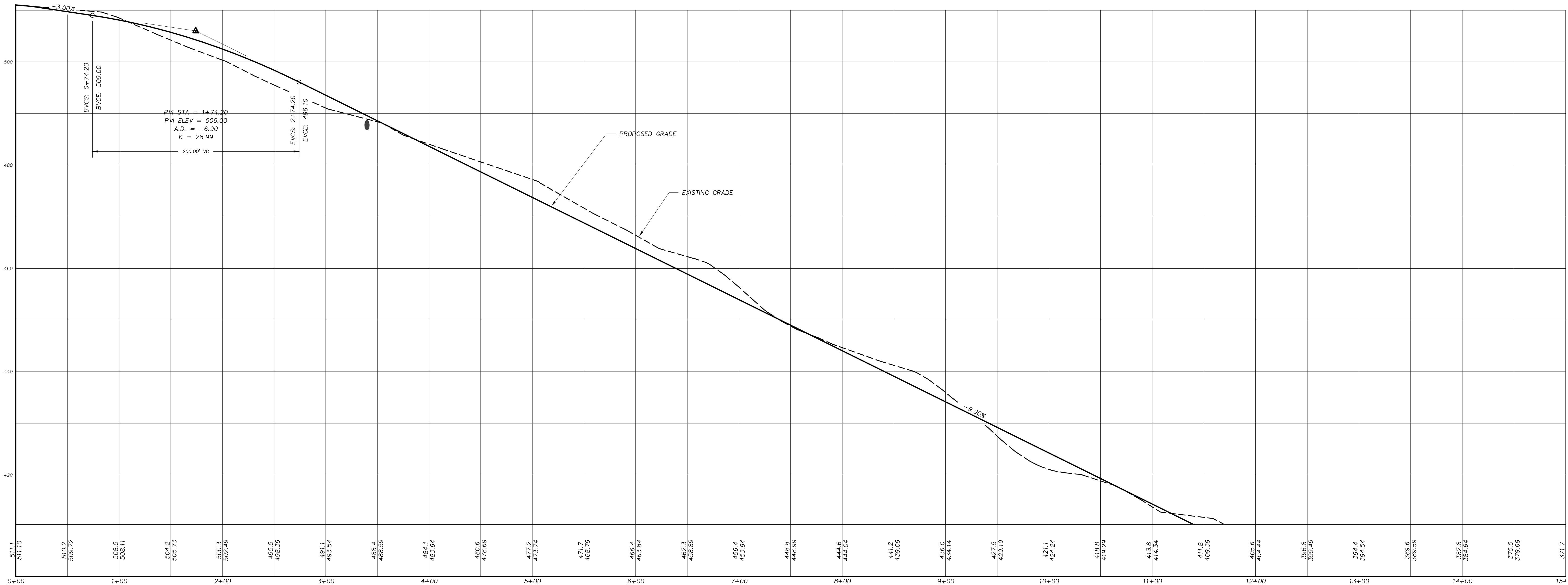
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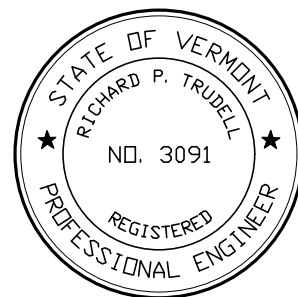
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ORIGINATE 11/18/98 SLM

No.	Description	Date	By
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Revisions



Project Title

KOWALEWSKI
PROJECT

Poker Hill Road
Underhill, Vermont

Sheet Title

Driveway Profile

Drawing Number : 98079-50 Extension : 1

Project manager : DPB Drawn : SLM

Date : 11/18/98 F.B. 207 Scale : 1" = 10'V
1" = 50'H

Project reference : X-Ref :

Approved

98079-50.dwg 7299 115528

P1