Approved for scope of work as described in letter
10/15/19

September 17, 2019

Mr. Davis,

I am writing this letter to request a waiver of the Percolation Certification for the building permit requested for 7409 Oakcrest Lane In Clarksville. We have decided to not finish off the existing space of the house, but we are looking to only add the breezeway from the existing garage and the new garage addition. The existing garage would be used for additional storage space.

Seeing how the new garage addition to be built does not interfere with the septic easement of the house, we feel this should not be an issue with the current of future septic system.

Thank you,

Nicholas Dzubak

Howard County Health Department

Bureau of Environmental Health
8930 Stanford Boulevard, Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 7409 Oakcrest Lane

Subdivision: Hopkins Mead Lot: 30

Hole D — Initial system: Application rate: 0.8 Effective area beginning depth: 6.5 Bottom maximum depth: 8

Hole B — 1st Replacement: Application rate: 0.8 Effective area beginning depth: 6.5 Bottom maximum depth: 8

Hole A — 2nd Replacement: Application rate: 1.2 Effective area beginning depth: Bottom Area Only Bottom maximum depth: 6

Design Flow = 150 gallons per day per bedroom
Design flow ÷ application rate = square footage of drainfield required
Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

$$\frac{W+2}{W+1+2D} \times 100 =$$

Percent of length of standard trench where W=trench width and D= depth between effective area beginning depth and trench bottom.

Standard design requirements:

- Trenches must be located to provide room for 3 systems in the disposal area
- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D +W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4' — Anything South of B gets 6' Max Bottom

Additional requirements:

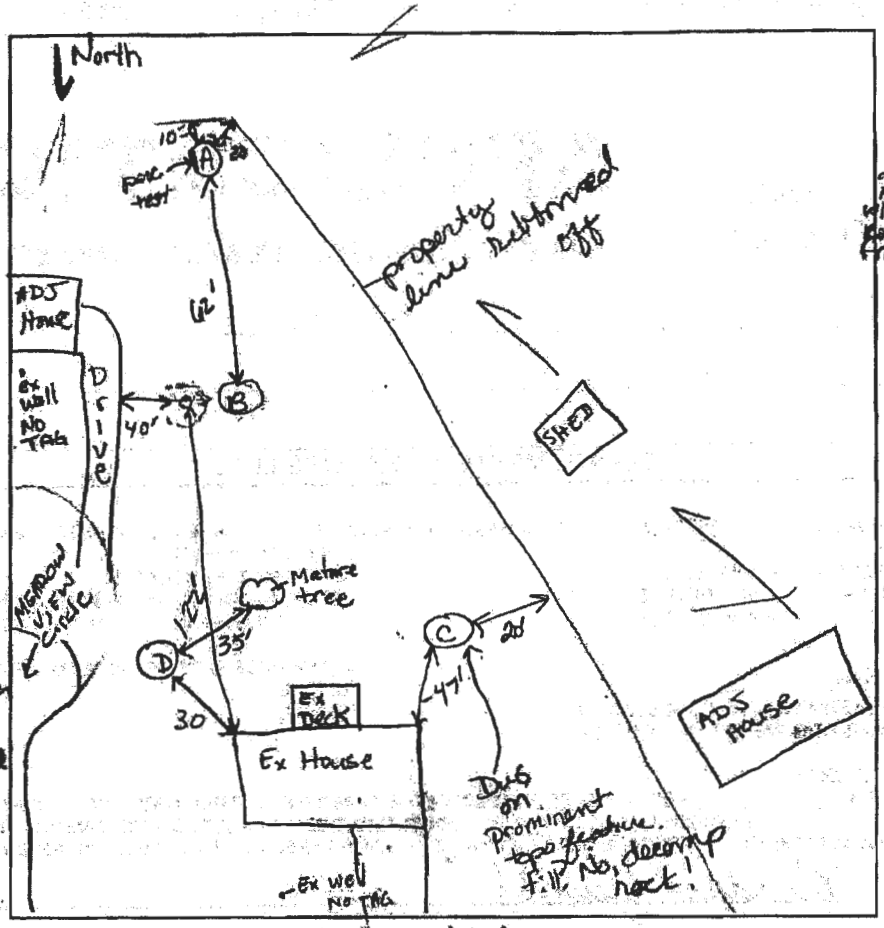
— Avoid hole C as much as possible

— If 3 systems (Initial/Existing + 2 replacements) cannot fit within the sewage disposal area (SDA) two systems (Initial/Existing + 1 Replacement) with a BAT Unit may be allowed. Health Dept. approval is required prior to.

Approved: [signature] Date: 1/28/19

JW 5/31/2017

AP 51962B



A
Brn CLLm
Strong rd Sticky SiCLL Ribbons 2" Rock 5% f.
Str rd SiL-L mucaceous strong yellow begins @ 7½'
S.g. structure packets of mucac. silt
Bottom
S.g. Massive
2'
6½-7'
11'

B
dk gr rd zy brn CL L
Rock ~5%
strong, rd SL mucaceous
Vwk saprolite No mottles
L Sand moist 15'
Bottom
6' corner of dry well
11
13

C
org. rd brn SiCLL
Strong y, white SiL mucaceous variegated colors
Bottom
2½-3'
14'

C SWall
Strong org brn
strong red
strong yellow
strong org
White DK red/purple
Clumps of decomposed/ Rock - SiCLLm breaks up into 1mm-5mm platy pieces compacted
Clumps
3L 2 dk brn Rx 5 yl Rock frags

D
17'

DATE	TEST #	DEPTH	START	BREAK 1° DROP	STOP 2° DROP	TIME OF 2nd INCH	P/F/H
10/22/08	A	6'1.25 / 16½'	10:22 30	10:26 15	10:31	4 min	H
		Water coming in @16' No signs of mottling above					
		@10:44 Cave in @12' due to saturation @11:45 Cave in @10'					
No Eff. From drywell	B	6½'S / 15'V	11:01	11:10	11:20	10	P
	C	6½' / 14'V	11:18	11:15	11:32	17	P
	D	Visual	see hole	B			P
		Hole C purposely dug on abnormal topo feature. OTHER HOLES homogeneous					

REMARKS _____

SANITARIAN Kacie Norman BACKHOE Hatfields OTHERS _____

TEST HOLES USED IN SDA _____ AVG. PERC TIME ≈10 SQ. FT/BR 210

TRENCH WIDTH 2-3 INLET DEPTH 6 MAX. BOT DEPTH 8 EFFECTIVE S/W 2

Low area 30' below perc hole

B - bottom @ 6' NO SIDEWALL USEAGE.

Howard County Health Department

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- Maximum trench length is 100'
- Maximum pipe depth is 4' — Anything South of B gets 6' Max Bottom

Additional requirements:

— Avoid hole C as much as possible

— If 3 systems (Initial/Existing + 2 replacements) cannot fit within the Sewage disposal area (SDA) two systems, (Initial/Existing + 1 Replacement) with a BAT Unit may be allowed. Health Dept. approval is required prior to,

Approved: Robert [illegible] Date: 1/28/19

JW 5/31/2017

SITE INSPECTION SHEET

OWNER: Cynthia Dzubak PHONE #: _____

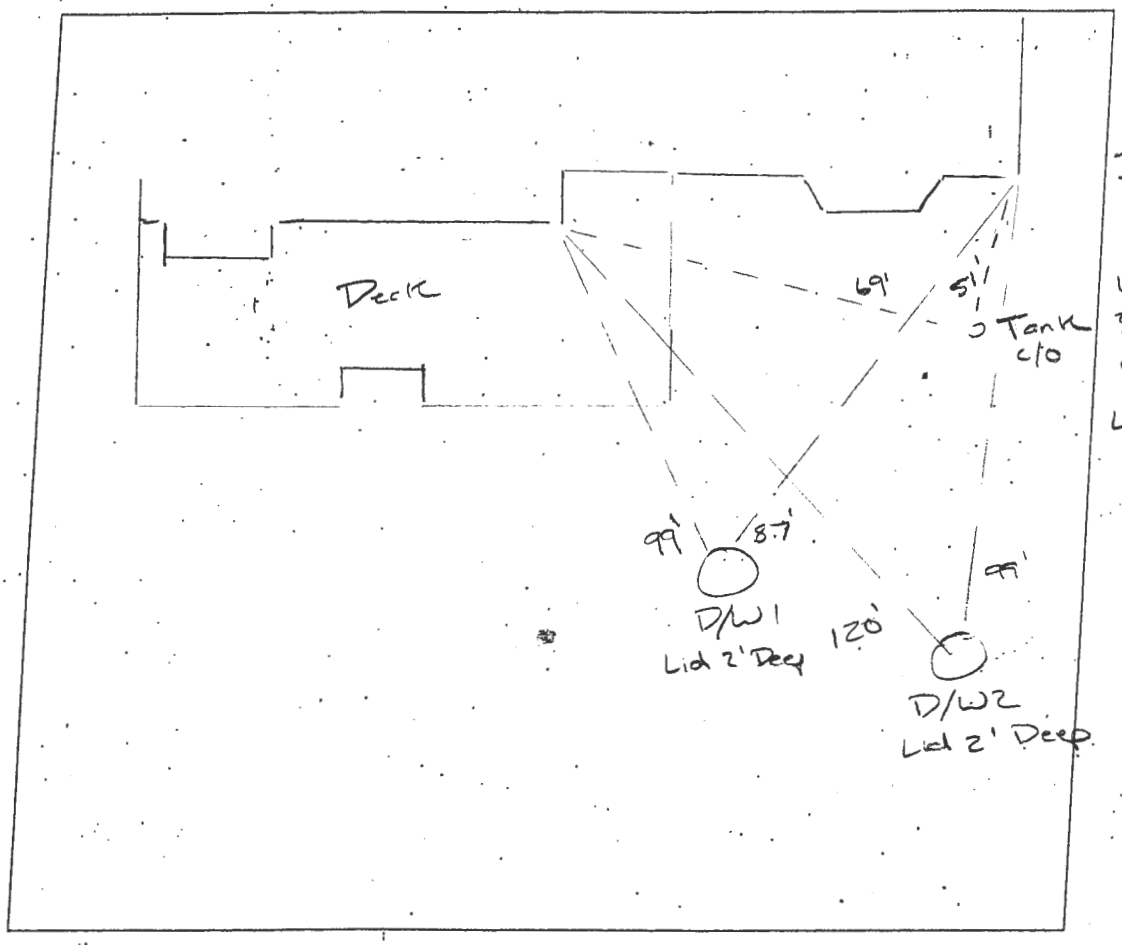
ADDRESS: 7409 Oak Crest Lane CONTRACTOR: _____

_____ WELL TAG #: None

SUBDIVISION: _____ LOT: 30 COUNTY #: _____

PROPOSAL: Construct new detached garage with breeze way connecting. Existing garage to be used for storage.

LOCATION DIAGRAM



Inlet pipe depth 4.5' (Bottom of pipe)
Lid 1.5' deep?
3.5' to bottom of riser
Liquid 4' 7" depth

COMMENTS: Septic seems to be functioning properly from surface. No signs of failure from surface. Well is in satisfactory condition. Two piece cap with no tag. Well is 55' from right corner of house, when looking at the house. Well is 40' straight out from the house. Well has been gps located.

DATE: 9/20/2019 INSPECTOR: RSF


+
−
500
500
500
490
490
490
480
480
480
480
480
7405
16
7413
7409
29
30
28
92.69 ft
61.75 ft
7413
27
100 ft

Sent from my iPhone

SHANABERGER & LANE

Surveying Land Planning Construction Stakeout

April 2, 2019

Mr. Robert "Spencer" Freemon
Howard County Health Department
8930 Stanford Blvd. Columbia, MD 21045
Bureau of Environmental Health
Well and Septic Program
Phone: 410-313-6357
rfreemon@howardcountymd.gov

re: Perc Certification Plat, 7409 Oakcrest Lane

Dear Mr. Freemon:

Thank you for agreeing to review this perc certification plat while we are awaiting the results of uncovering the existing septic system at 7409 Oakcrest Lane.

This letter is written in explanation of the accompanying perc certification plat.

7409 Oakcrest Lane is a residential property with an existing house, well, and septic system, as are the 2 neighboring properties 7405 and 7413 Oakcrest Lane. The existing well on 7405 Oakcrest Lane has a significant effect on reducing the available septic area on 7409 Oakcrest. Other limiting factors include a shallow water table at Perc Hole A at the low end of septic area, and a manmade graded outlet to allow the walkout basement on the house on 7409 Oakcrest.

The septic area shown on the perc certification plat respects the 100-foot well radius from the existing well on 7405 Oakcrest, and the required 10-foot setbacks to property line and 20 foot setback from the existing house foundation. There is 7,924 square feet of septic area available. If the grading for the walkout area is excluded, I do not believe there is enough available septic area to support 2 systems for a 5-bedroom house. Knowing this, I analyzed the drainage area to the graded walkout and find that it is between 0.12 and 0.13 acres, which is made up entirely of onsite runoff. There is no cross-site runoff; nor is this a traditional natural drainage course. Perc Test C was intentionally dug in the middle of the graded walkout to see what groundwater conditions existed, and it was dry at 14 feet.

For this reason, I have run some of the trenches for the initial system and replacement system across the graded walkout. I have also included 6 cross-sections showing all 6 trenches that will cross the graded walkout. I did not show the 14-foot depth of Perc Test C on the cross-section since it is so far below what is shown. I believe the depth from existing grade to stone, the lack of any natural drainage, and the 14-foot depth of Perc Test C indicate that the graded walkout will not compromise the intended function of the trenches crossing the graded walkout. I do recognize that avoiding the walkout with any trenches would be preferred, but I do not believe it is possible.

8726 Town and Country Boulevard Suite 201 Ellicott City, Maryland 21043 (410) 461-9563 Email home@shanlane.com

I began laying out the trenches from high to low, since the best soil is higher in the septic area and there is more sidewall available to assist with infiltration. Trenches at and below Perc Test B have no sidewall available at all.

The wells on 7405, 7409, and 7413 Oakcrest are all field-located, as is the septic tank cleanout on 7409. I was hoping to find the well on 7405 Oakcrest further away, but it is where it is. I do not believe the highest northwest corner of the septic area for 7409 Oakcrest is high enough to hydraulically upslope from the well on 7405 Oakcrest. My understanding of "hydraulically upslope" is half of the angle between a line directly uphill from the well, and a lone of equal elevation to the well. There is also a slight drainage swale between the 2 lots.

I recognize that this is an imperfect situation and I expect to make some changes to this plat before it is (hopefully) approved. This is a first attempt, which I believe is needed to make some progress and to get some direction from the Health Department on which way to go. Please let me know if you need any further information from me, and feel free to call or email. Thank you.

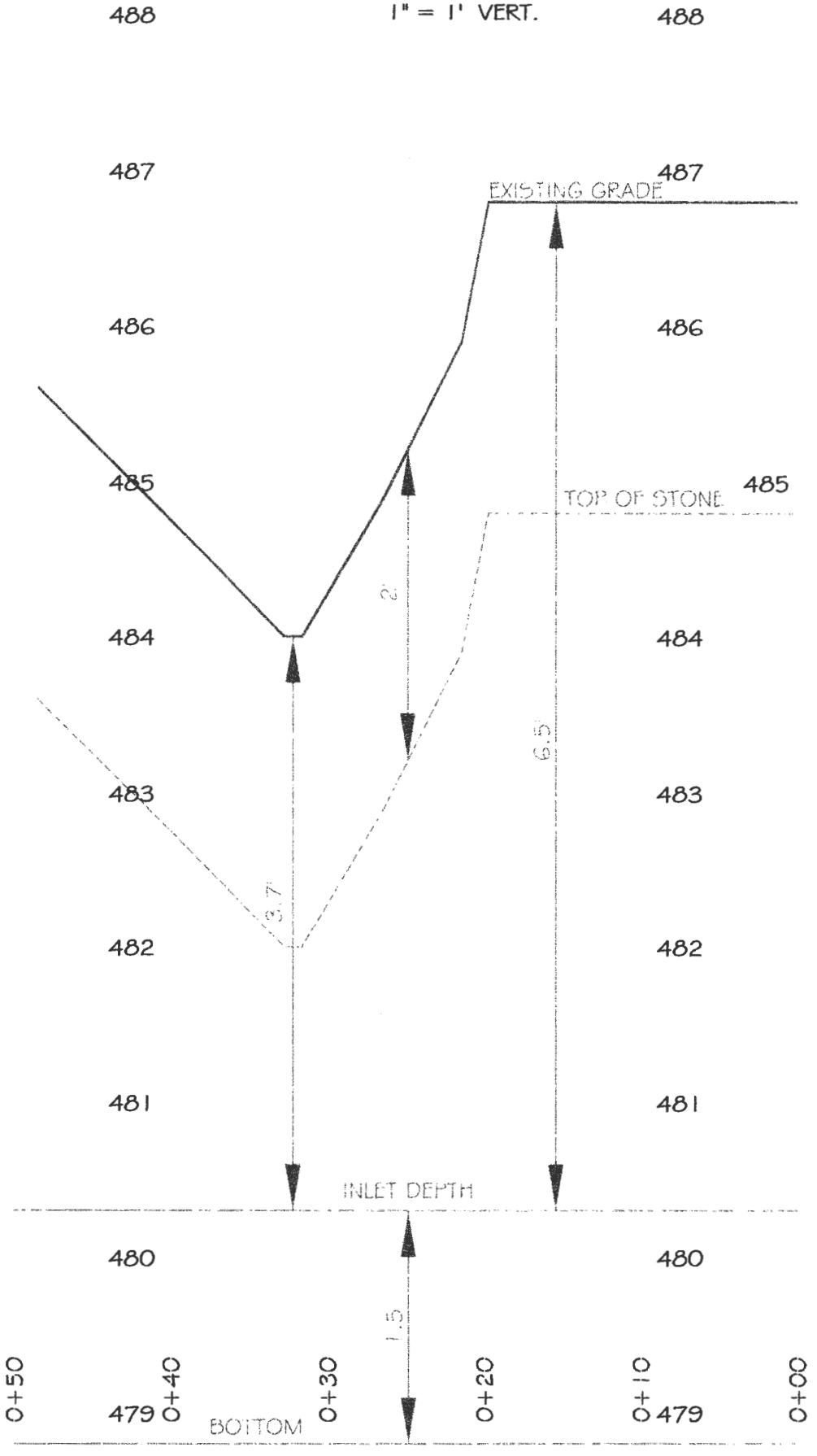
Sincerely,

G. Scott Shanaberger
Professional L.S.

Lettr924.doc

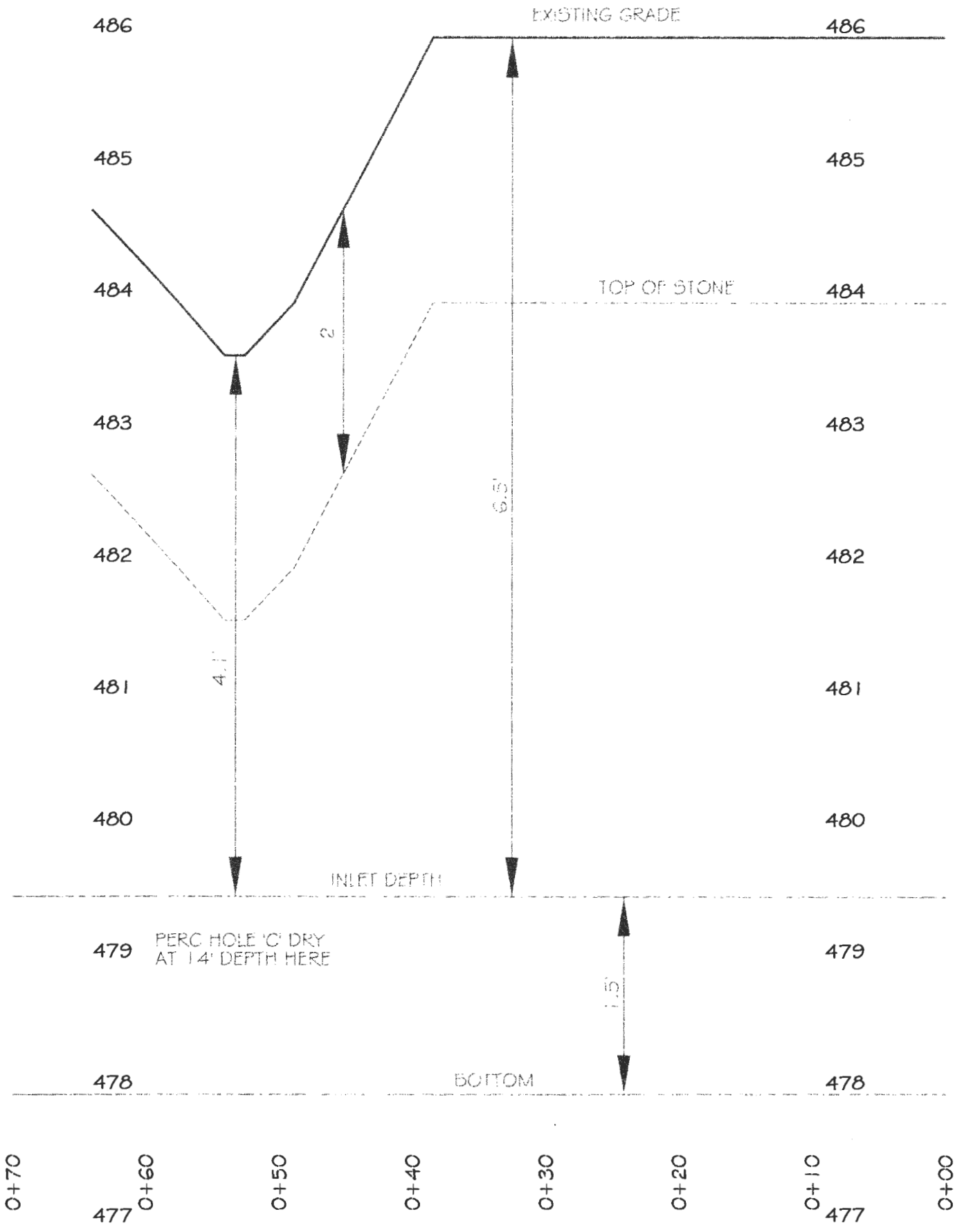
PROFILE TRENCH 1-A

SCALE: 1" = 10' HORIZ.
1" = 1' VERT.



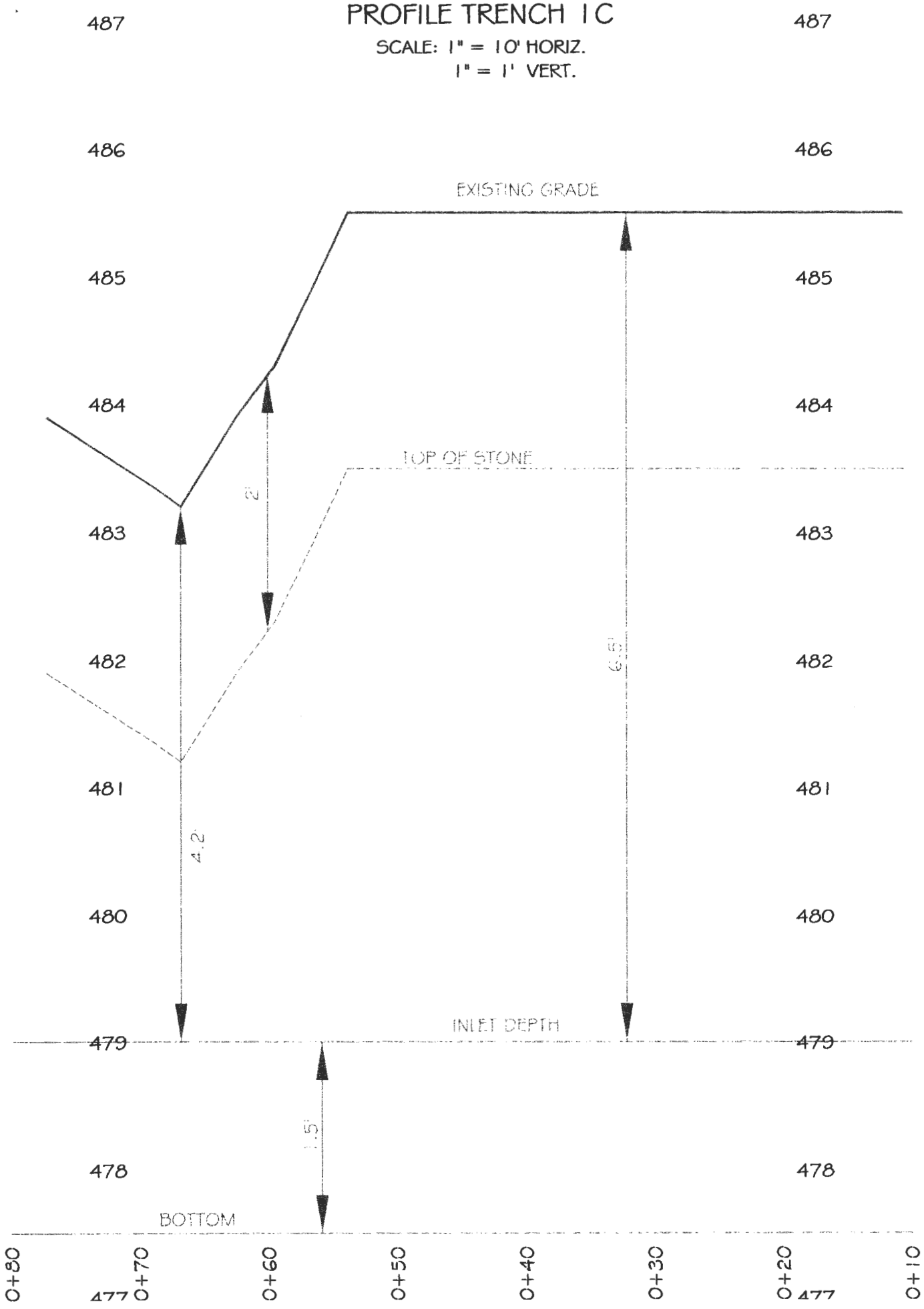
PROFILE TRENCH 1-B

SCALE: 1" = 10' HORIZ.
1" = 1' VERT.



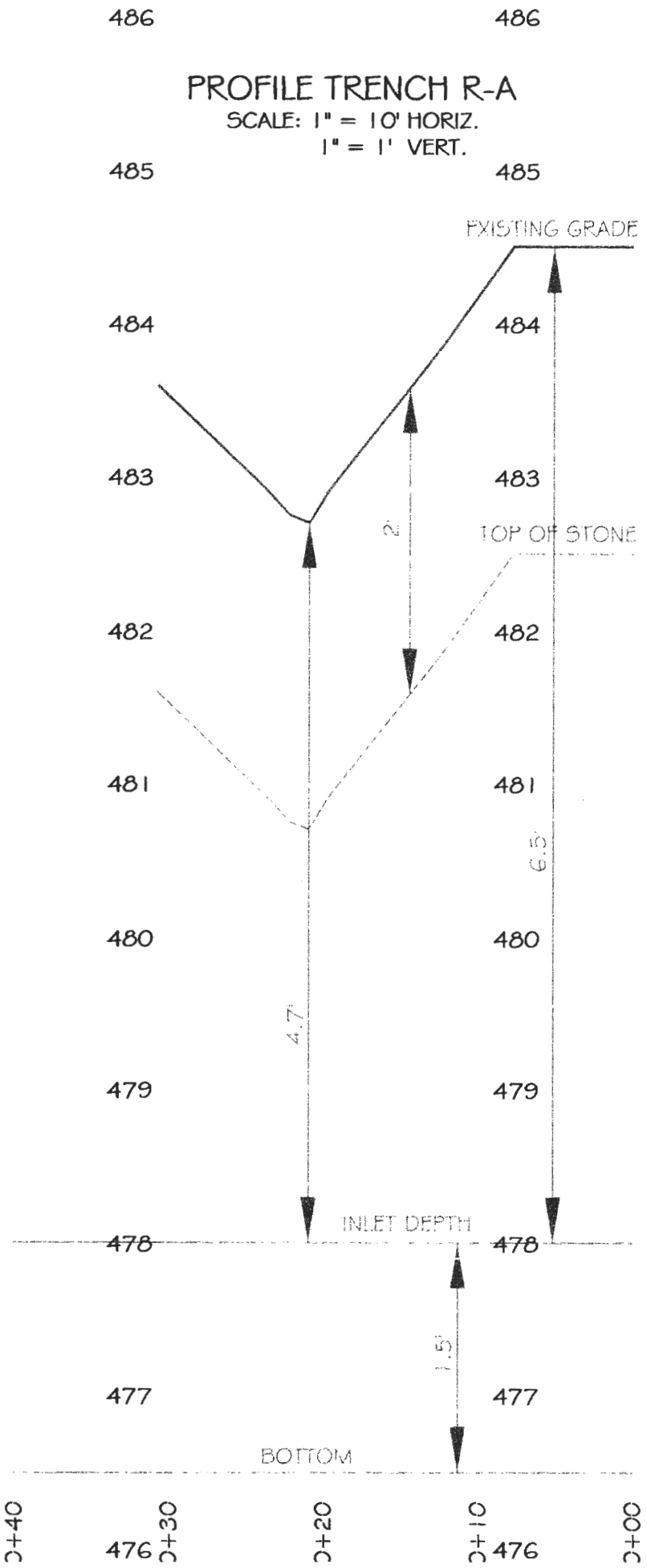
PROFILE TRENCH 1C

SCALE: 1" = 10' HORIZ.
1" = 1' VERT.



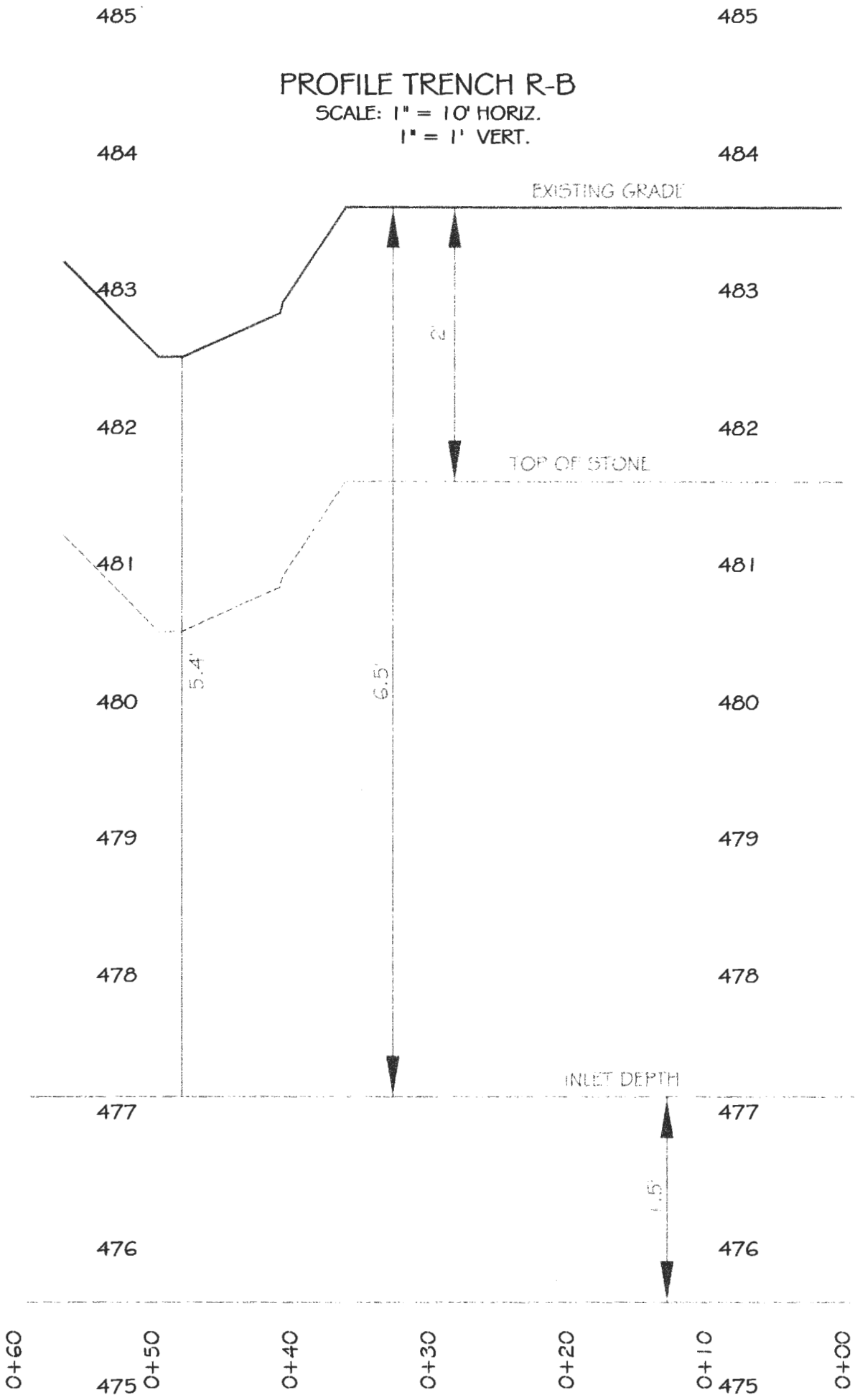
PROFILE TRENCH R-A

SCALE: 1" = 10' HORIZ.
1" = 1' VERT.



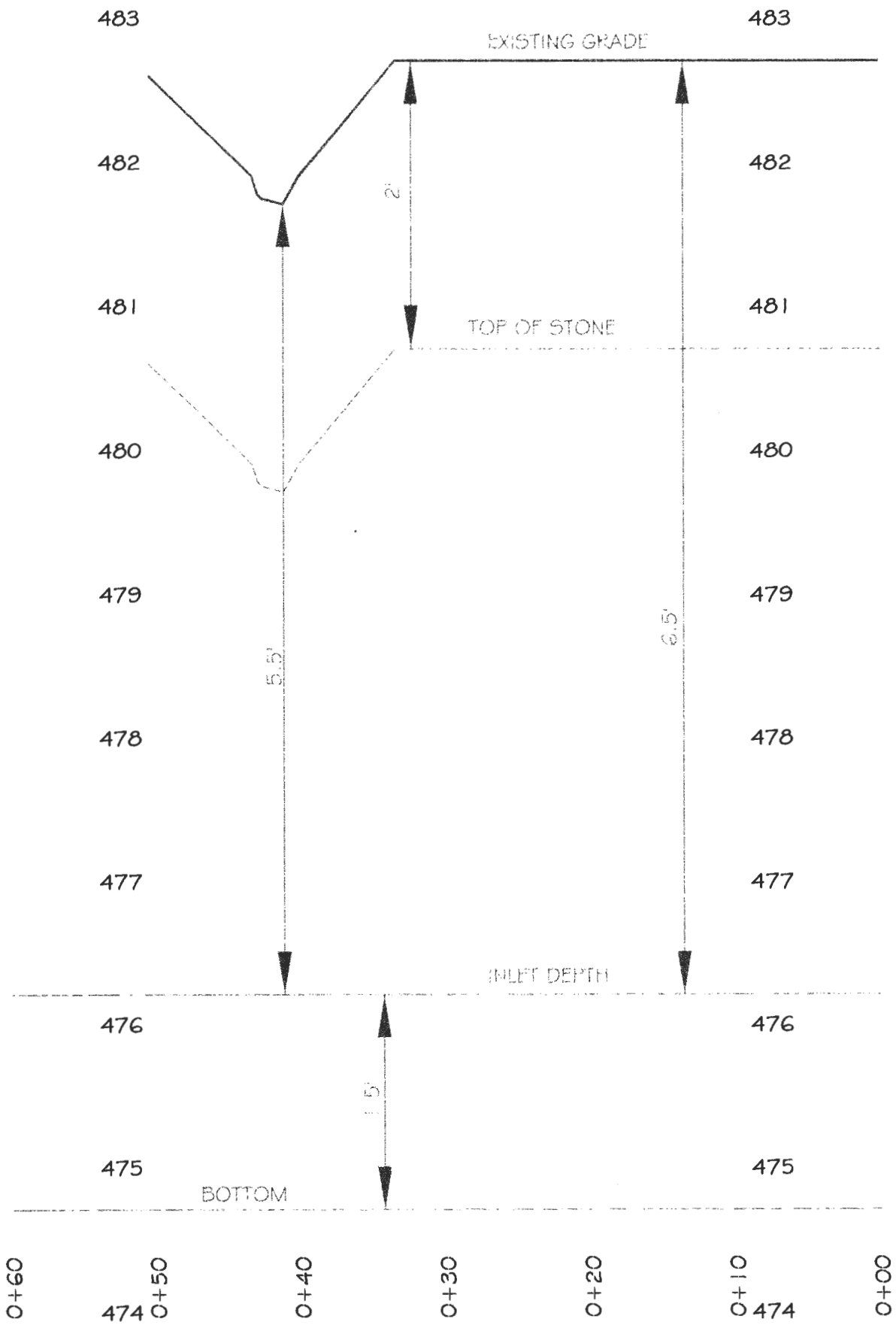
PROFILE TRENCH R-B

SCALE: 1" = 10' HORIZ.
1" = 1' VERT.



PROFILE TRENCH R-C

SCALE: 1" = 10' HORIZ.
1" = 1' VERT.



SHANABERGER & LANE

Surveying Land Planning Construction Stakeout

8726 Town & Country Blvd., Suite 201
Ellicott City, Md. 21043
(410) 461-9563
fax: (410) 461-9693
home@shanlane.com

TRANSMITTAL

DATE: 04/02/2019

FROM: G. Scott Shanaberger

TO: Bureau of Environmental Health

PROJECT: 7409 Oakcrest Lane

ATTENTION: Robert "Spencer" Freemon

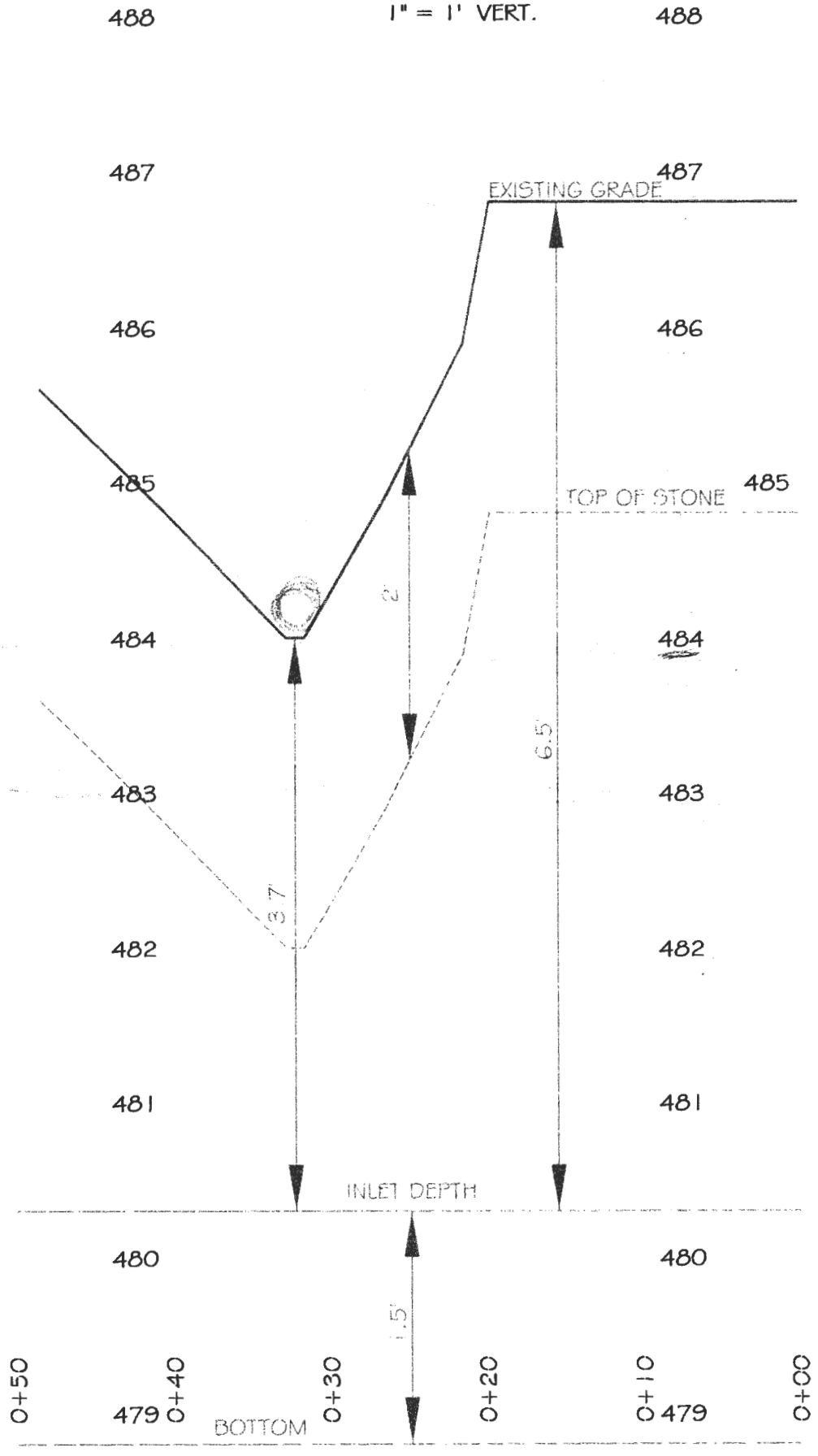
2 copies of Perc Certification Plan for initial review
2 copies of six (6) sets of cross-sectional views of trenches.
1 letter

G. Scott Shanaberger

Received ---------- Date ----------

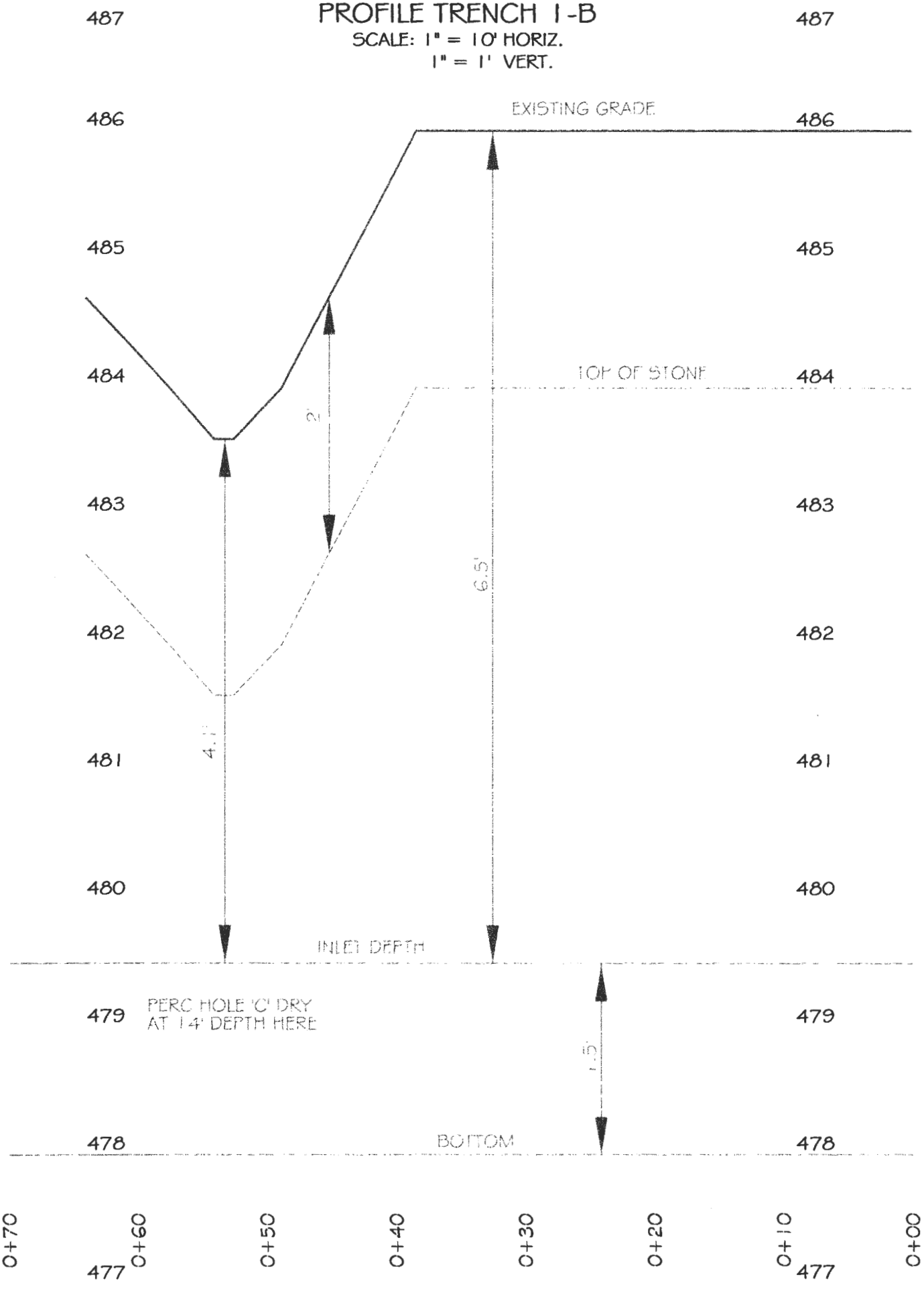
PROFILE TRENCH 1-A

SCALE: 1" = 10' HORIZ.
1" = 1' VERT.



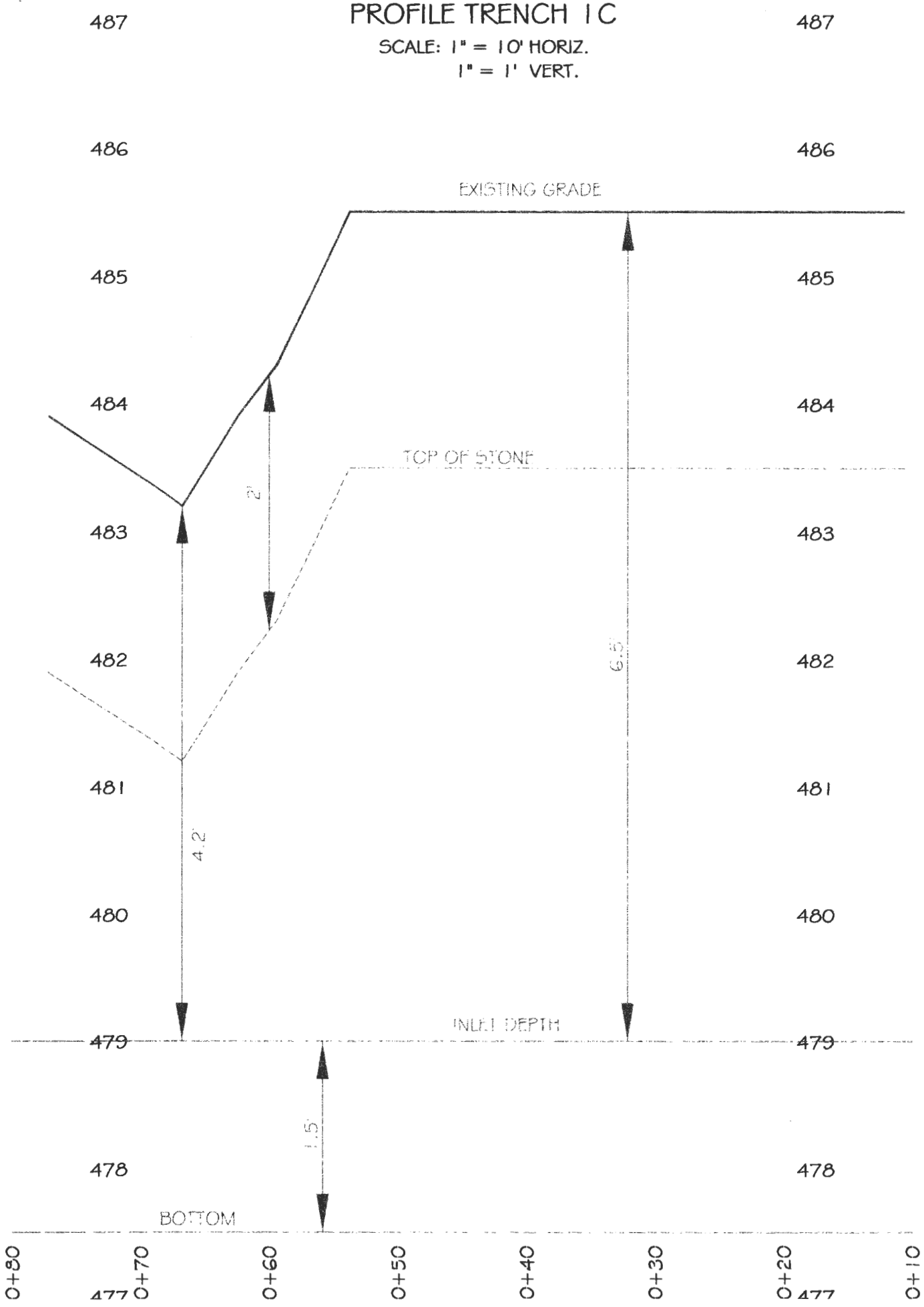
PROFILE TRENCH 1-B

SCALE: 1" = 10' HORIZ.
1" = 1' VERT.



PROFILE TRENCH 1C

SCALE: 1" = 10' HORIZ.
1" = 1' VERT.



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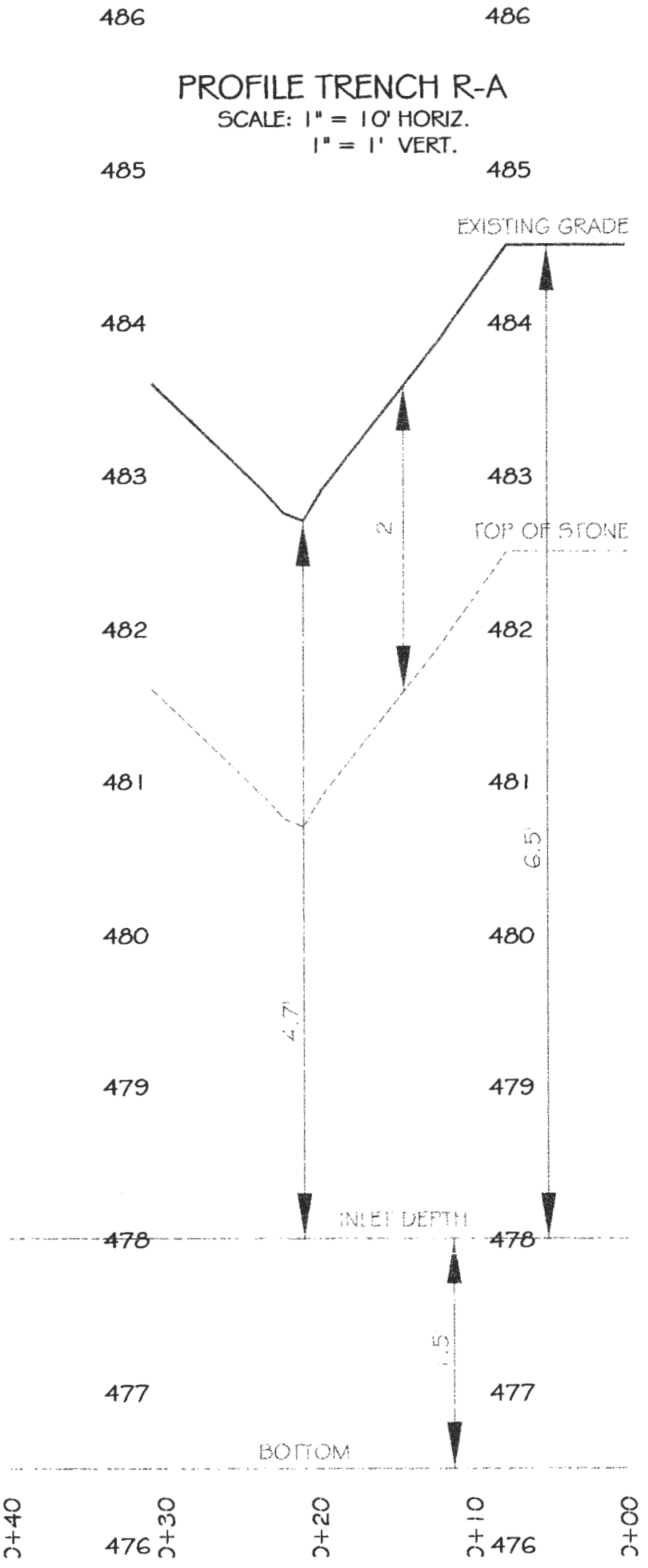
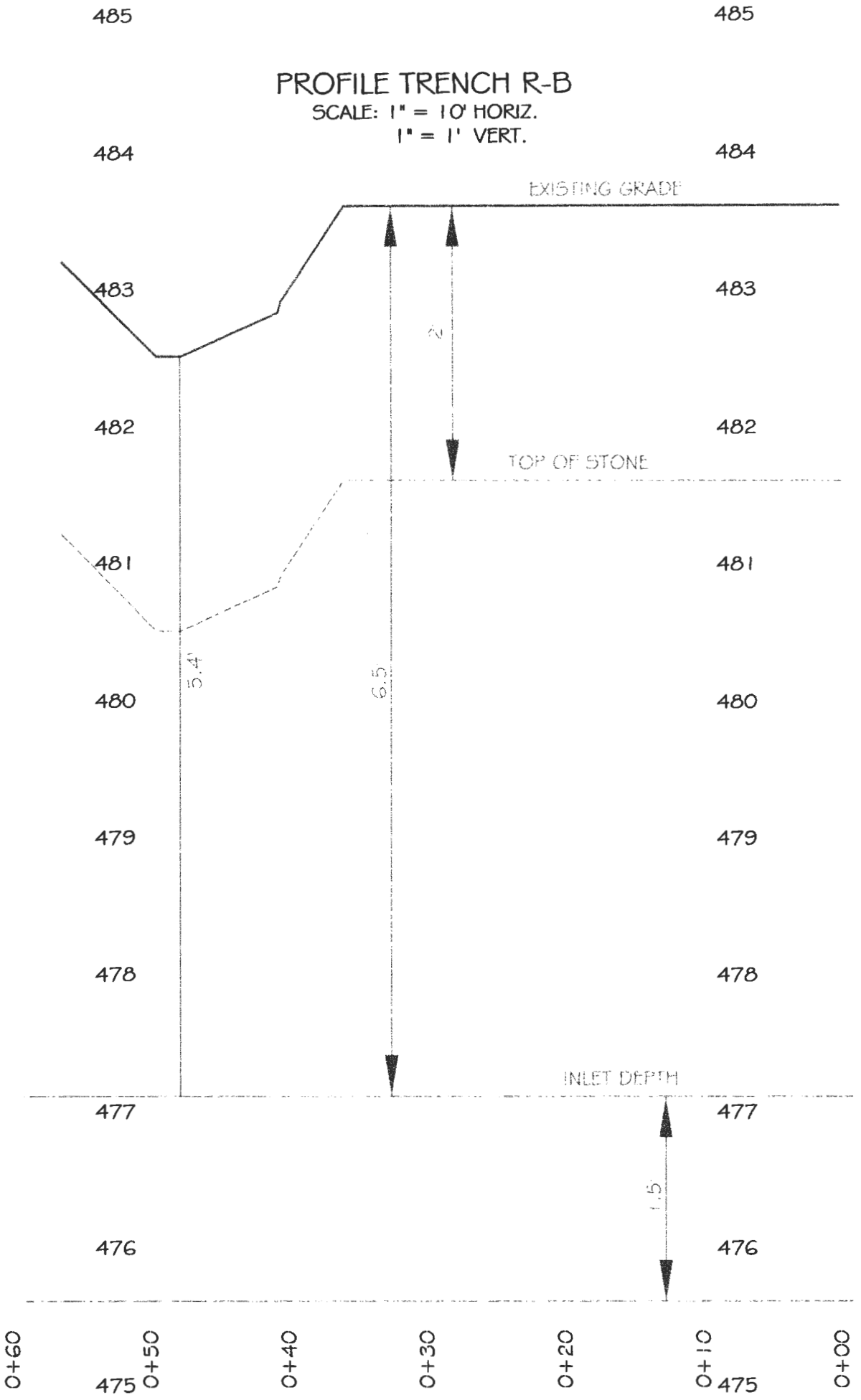


PROFILE TRENCH R-B

SCALE: 1" = 10' HORIZ.
1" = 1' VERT.



PROFILE TRENCH R-C

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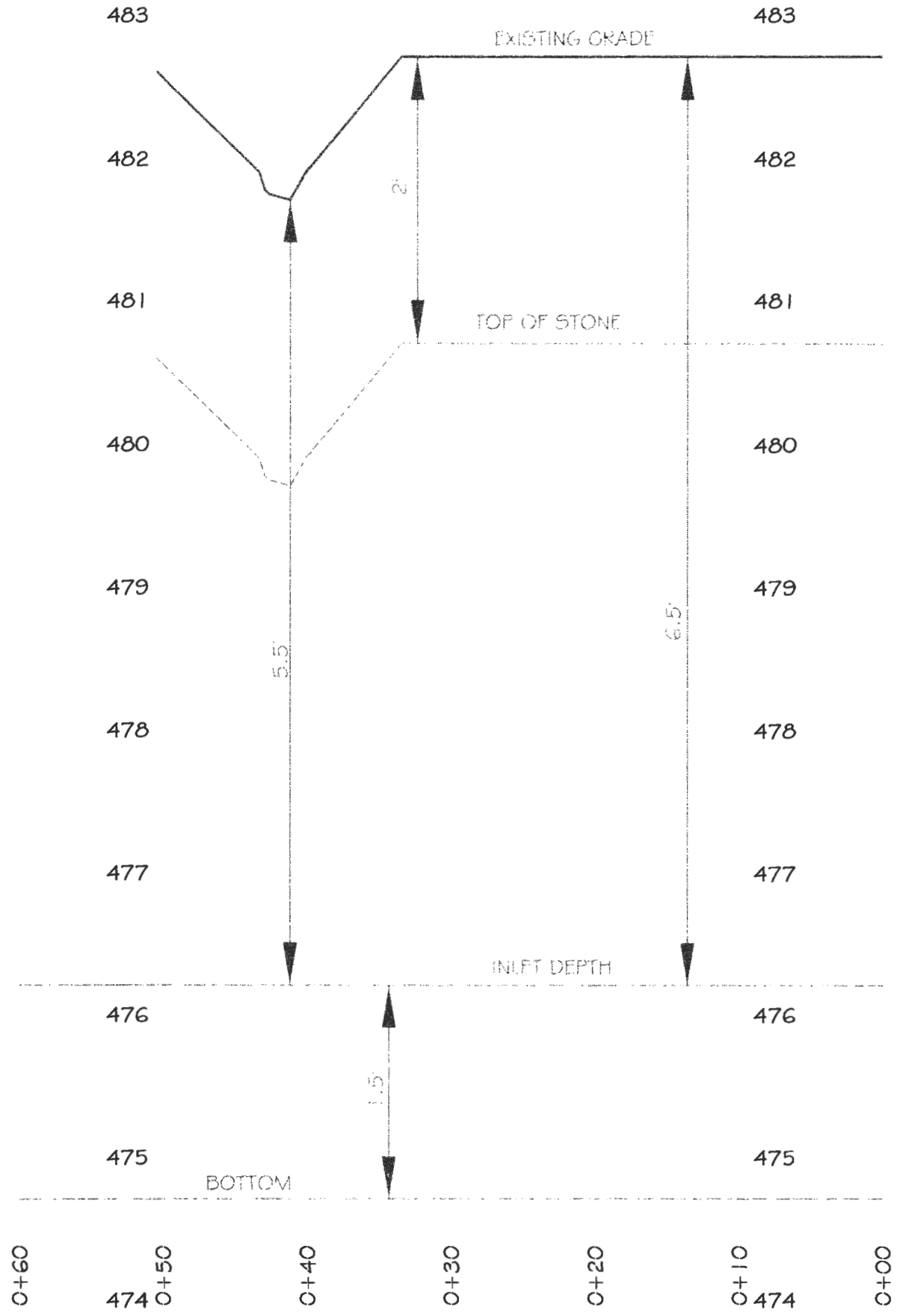
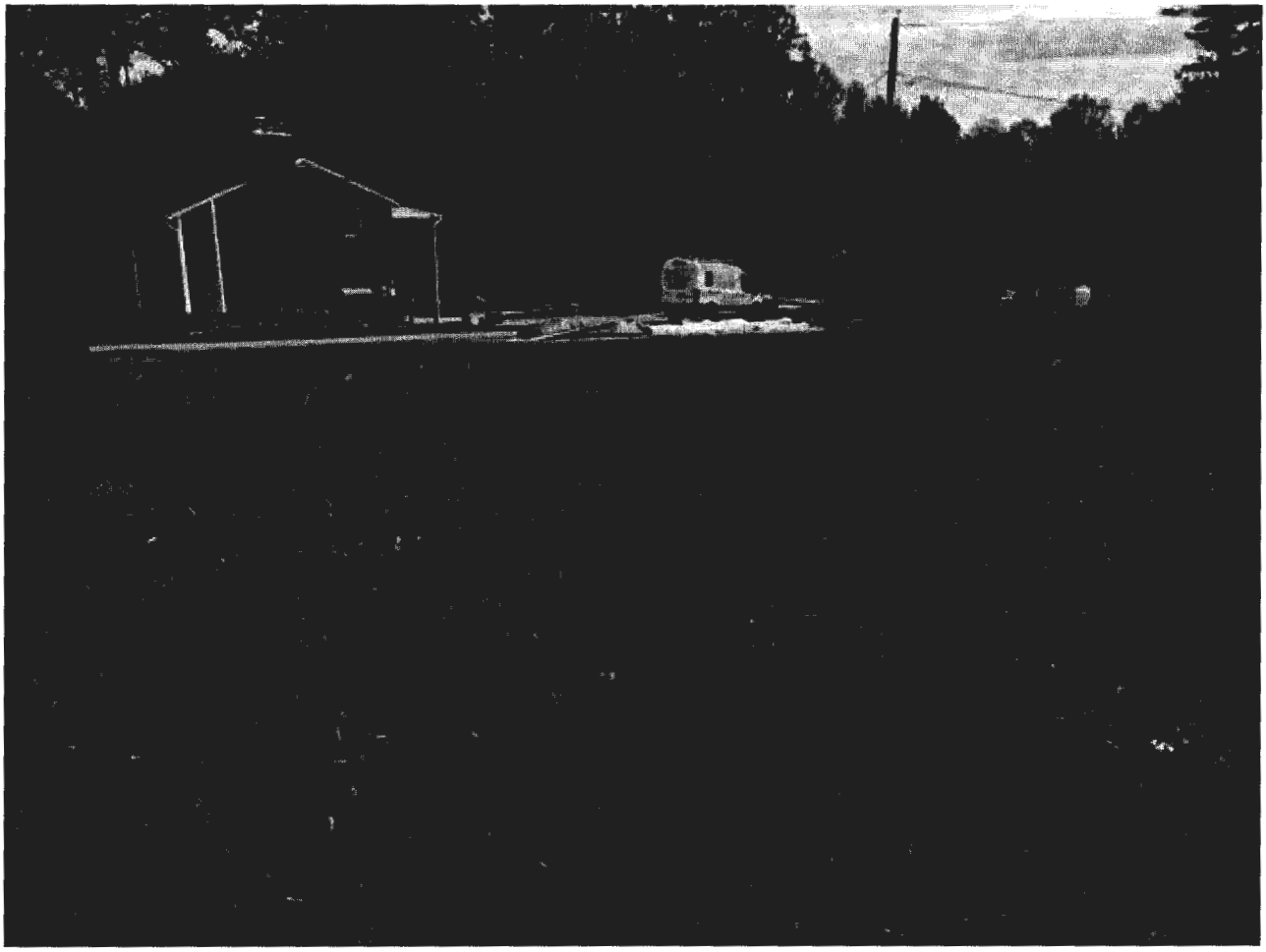
1" = 1' VERT.



Freemon, Robert

From: Robert Freemon <coastal4life@icloud.com>
Sent: Thursday, May 09, 2019 1:51 PM
To: Freemon, Robert
Subject: Pics

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]



NOTES:

1. THE PURPOSE OF THIS PLAT IS TO OBTAIN APPROVAL FOR A PRIVATE SEWAGE AREA TO ACCOMMODATE AN ADDITION TO THE HOUSE.

2. TOPOGRAPHY SHOWN ON THIS LOT WAS FIELD RUN BY SHANABERGER & LANE IN JANUARY, 2019, ON THE NAVD88 SYSTEM, USING HOWARD COUNTY TRAVERSE POINT 41EB, ELEVATION 463.78. TOPOGRAPHY ON SURROUNDING PROPERTIES IS FROM 2013 HOWARD COUNTY LIDAR.

3. BOUNDARY LINES ON THIS PLAT ARE FROM PLAT BOOK 7, FOLIO 85, AND FROM PROPERTY CORNER LOCATIONS BY SHANABERGER & LANE IN JANUARY, 2019. BOUNDARY LINES SHOWN HEREON DO NOT REPRESENT A BOUNDARY SURVEY BY SHANABERGER & LANE.

4. ONSITE IMPROVEMENTS WITHIN THE LIMITS OF FIELD RUN TOPOGRAPHY WERE LOCATED BY SHANABERGER & LANE IN JANUARY, 2019. OTHER IMPROVEMENTS SHOWN ARE FROM 2013 HOWARD COUNTY LIDAR. SOME ONSITE WELL AND SEPTIC SYSTEM COMPONENTS, AND 2 OFFSITE WELLS WERE FIELD-LOCATED IN JANUARY, 2019.

5. OTHER EXISTING WELL AND SEPTIC SYSTEM LOCATIONS SHOWN HEREON ARE FROM AVAILABLE HOWARD COUNTY HEALTH DEPARTMENT RECORDS.

6.
- (W) FUTURE WELL
- (W) EXISTING WELL
- SOIL TYPE BOUNDARY
- WOODSLINE/TREES
- (3) SUCCESSFUL PERC TEST
- (5) FAILED PERC TEST

7. SOIL TYPES PER N.R.C.S WEB SOIL SURVEY:
GaC--Gaila loam, 8 to 15 percent slopes
GhB--Glenelg-Urban land complex, 0 to 8 percent slopes

8. DESIGNATES LIMITS OF FIELD-RUN TOPOGRAPHY

9. ANY CHANGE TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.

10. ALL KNOWN EXISTING WELLS AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND WELLS WITHIN 200' DOWNSLOPE OF THE PROPOSED SDA HAVE BEEN SHOWN PER FIELD LOCATION WHEN POSSIBLE AND PER AVAILABLE RECORDS WHEN NOT POSSIBLE.

11. THIS AREA DESIGNATES A PRIVATE SEWAGE AREA TO ACCOMODATE 2 SYSTEMS AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.

12. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.

13. A BAT TANK WILL BE REQUIRED FOR NEW SEPTIC SYSTEM.

14. A LOW-PRESSURE DOSAGE SYSTEM WILL BE REQUIRED DUE TO UNEQUAL TRENCH LENGTHS.

SEPTIC SYSTEM TRENCH DESIGN SPECIFICATIONS

INITIAL SYSTEM:
- APPLICATION RATE: 0.8
- EFFECTIVE AREA BEGINNING DEPTH: 6.5'
- BOTTOM MAXIMUM DEPTH: 8'

1. DESIGN FLOW:
- 5 BEDROOMS AT 150 GAL/DAY
- 5 X 150 GPD = 750 GPD

2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:
- DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 937.5 SF

3. SIDEWALL REDUCTION CREDIT:
- TRENCH WIDTH (W) = 3'
- TRENCH EFFECTIVE DEPTH (D) = 1.5'
- (W+2) / (W+1+2D) X 100 = 71.43% = 0.7143

4. LINEAR LENGTH OF TRENCH REQUIRED:
- DRAIN FIELD SQUARE FOOTAGE (937.5) X SIDEWALL REDUCTION CREDIT (0.7143) / TRENCH WIDTH (3') =223.2 LF

5. LINEAR LENGTH OF TRENCH PROVIDED = 223.2
4 TRENCHES, LENGTHS 48.5', 64.1', 77.2', 33.4'

6. EXISTING GRADE
TRENCH 1-A: 486.9 (SEE PROFILE)
TRENCH 1-B: 486.0 (SEE PROFILE)
TRENCH 1-C: 485.6 (SEE PROFILE)
TRENCH 1-D: 484.6

7. INVERT
TRENCH 1-A: 480.4
TRENCH 1-B: 479.5
TRENCH 1-C: 479.1
TRENCH 1-D: 478.1

REPLACEMENT SYSTEM #1:
- APPLICATION RATE: 0.8
- EFFECTIVE AREA BEGINNING DEPTH: 4'
- BOTTOM MAXIMUM DEPTH: 8'

1. DESIGN FLOW:
- 5 BEDROOMS AT 150 GAL/DAY
- 5 X 150 GPD = 750 GPD

2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:
- DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 937.5 SF

3. SIDEWALL REDUCTION CREDIT: (TRENCHES R-A, R-B, R-C, R-D)
- TRENCH WIDTH (W) = 3'
- TRENCH EFFECTIVE DEPTH (D) = 1.5'
- (W+2) / (W+1+2D) X 100 = 71.43% = 0.7143
NO SIDEWALL REDUCTION CREDIT FOR TRENCHES R-E, R-F

4. LINEAR LENGTH OF TRENCH REQUIRED: VARIES

5. LINEAR LENGTH OF TRENCH PROVIDED:
4 TRENCHES, LENGTHS 30.7', 56.3', 50.5', 47.7' =185.2'
2 TRENCHES, LENGTHS 27.0', 26.3" = 53.3'
185.2' x 3' /.7143 = 777.8 SQUARE FOOTAGE PROVIDED
53.3' x 3' = 159.9 SQUARE FOOTAGE PROVIDED
SQ FOOTAGE PROVIDED: 777.8 + 159.9 = 937.7

6. EXISTING GRADE
TRENCH R-A: 484.6 (SEE PROFILE)
TRENCH R-B: 483.7 (SEE PROFILE)
TRENCH R-C: 482.8 (SEE PROFILE)
TRENCH R-D: 481.7
TRENCH R-E: 480.5
TRENCH R-F: 479.2

7. INVERT
TRENCH R-A: 478.1
TRENCH R-B: 477.2
TRENCH R-C: 476.3
TRENCH R-D: 475.2
TRENCH R-E: 478.5
TRENCH R-F: 477.2

7402 CHERRY TREE DRIVE
DAVID A. ROARTY &
KATRINA J. ROARTY
TAX MAP 41, GRID 15, PARCEL 196
LOT 18, SECTION 2, HOPKINS MEAD
P.B.7, F.85
DEED: 9276/231
WELL & SEPTIC >200' FROM LOT 20

7406 OAKCREST LANE
FRED J. SCHLICHT &
ALICE M. SCHLICHT
TAX MAP 41, GRID 15, PARCEL 196
LOT 17, SECTION 2, HOPKINS MEAD
P.B.7, F.85
DEED: 10161/263

7405 OAKCREST LANE
RICHARD BROSCHART &
LEISHA A. BROSCHART
TAX MAP 41, GRID 15, PARCEL 196
LOT 16, SECTION 2, HOPKINS MEAD
P.B.7, F.85
DEED: 4605/474

7417 OAKCREST LANE
XIPING ZENG &
JIANFEN ZHOU
TAX MAP 41, GRID 15, PARCEL 196
LOT 28, SECTION 2, HOPKINS MEAD
P.B.7, F.85
DEED: 8207/501

7413 OAKCREST LANE
GODFRED AMPONSEH
TAX MAP 41, GRID 15, PARCEL 196
LOT 29, SECTION 2, HOPKINS MEAD
P.B.7, F.85
DEED: 15459/111

7429 OAKCREST LANE
BRIAN LISTER &
GENEVIEVE LEAN LISTER
TAX MAP 41, GRID 14, PARCEL 260
LOT 27, SECTION 4, HOPKINS MEAD
P.B.8, F.46
DEED: 10039/355

7433 OAKCREST LANE
RAM MAHANAND &
DEANNA M. MAHANAND
TAX MAP 41, GRID 14, PARCEL 260
LOT 32, SECTION 4, HOPKINS MEAD
P.B.8, F.46
DEED: 5639/535

7413 MEADOW VIEW CIRCLE
ELLEN T. GEILING
TAX MAP 41, GRID 15, PARCEL 196
LOT 31, SECTION 2, HOPKINS MEAD
P.B.7, F.85
DEED: 15618/330

OAKCREST LANE
MEADOW VIEW CIRCLE
Paved Drive
Limits of Field-Run Topo
EX. WELL
EX. SEPTIC TANK
EX. DRYWELL
EX. WELL (BURIED) FIELD-LOCATED
EX. WELL - NO TAG
EX. WELL - NO TAG FIELD-LOCATED
EX. SEPTIC TANK C/O
EX. DIST. BOX
EX. TRENCH
EX. SEPTIC TANK?
OLD TRENCH
EXISTING HOUSE F.F EL. 493.64
SHED
DECK
C.W.
WELL AREA
Bushes
Pavers
quad 1/2"
36"
18" dead
stumps on humps
30"
twin 20"
12"
Large tree with many trunks
Stone Surface
7,924 SQ. FT.±
A
B
C
D
I-A
I-B
I-C
I-D
R-A
R-B
R-C
R-D
R-E
R-F
28'
100'
215.00
162.52
64.26
S 81°14'58" E
N 02°31'32" W 317.82'
N 26°07'48" E 978.36'
S 19°47'29" W 551.98'
GhB
GaC
500
490
488
486
484
482
480
470

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 201
ELLICOTT CITY, MD 21043
(410) 461-9563
(410) 461-9693 fax
home@shanlane.com

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON REFLECTS WORK DONE BY ME OR UNDER MY DIRECT SUPERVISION USING AVAILABLE PUBLIC AND PRIVATE INFORMATION AND IS CORRECT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

G. SCOTT SHANABERGER — DATE
PROFESSIONAL LAND SURVEYOR #10849
LICENSE EXPIRATION DATE 4/2/2020

APPROVED:
FOR PRIVATE WATER AND SEWERAGE SYSTEMS

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE

OWNERS
CYNTHIA ANN DZUBAK
NICHOLAS WILLIAM DZUBAK
7409 OAKCREST LANE
CLARKSVILLE, MD. 21029

PERC CERTIFICATION PLAT
7409 OAKCREST LANE
LOT 30 SEC. 2 HOPKINS MEAD
PLAT BOOK 7, FOLIO 85 TITLE DEED: 8016/375
TAX MAP 41, GRID 15, PARCEL 196
5rd ELECTION DISTRICT, HOWARD COUNTY, MD.
SCALE: 1" = 30' DATE: 3/27/19
PURPOSE: TO MAKE EX. GARAGE INTO LIVING SPACE, ADD A NEW GARAGE AND A PORCH