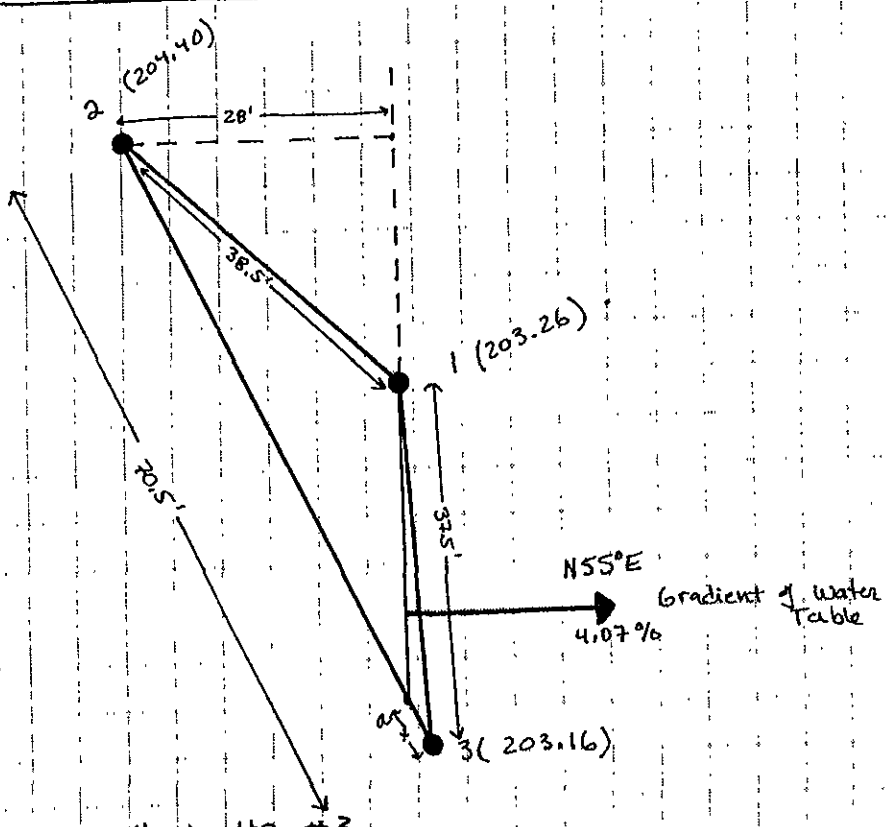
JCH
JOHN C. HOM & ASSOCIATES
Geotechnical Consultants
1618 Second Street
San Rafael, CA 94901

JOB 19051 LAKE CHABOT RD
SHEET NO. 3 OF
CALCULATED BY RMF DATE 3/22/91
CHECKED BY DATE
SCALE



line from well #1 to point a is the line of strike of the planar surface of the water table.

distance x = distance from well #3 to point a.

point a is at the same elevation as well #1, but lies along the line from well #2 to well #3.

Finding Point a:

$$\frac{203.26 - 203.16}{204.40 - 203.16} = \frac{0.10}{1.24} = \frac{x}{20.5'} \quad \therefore \quad x = 5.69'$$

Gradient Calculation:

$$\frac{204.40' - 203.26'}{28'} = \frac{1.14'}{28'} = 4.07\%$$

N55°E is the direction of the gradient of the water table.

Measurements taken 2/1/91 by MET

FREDRIC C. DIVINE ASSOCIATES
Architects
704 Mission Avenue
SAN RAFAEL, CALIFORNIA 94901
(415) 457-0220

91 MAY 16 AM 11:29

LETTER OF TRANSMITTAL

DATE 5/14/91 JOB NO

ATTENTION

RE Castro Valley Tract 5100

TO Scott Sury
Alameda Co. Health

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
			soils report.

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit ____ copies for approval
☐ For your use ☐ Approved as noted ☐ Submit ____ copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return ____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

Scott -
Per Fred Divine, John Hom will have the next Quarterly report with-in 30 days.

COPY TO _____

SIGNED: Carol Lee

If enclosures are not as noted, kindly notify us at once.

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JOB 19051 LAKE CHABOT RD (650.1)
SHEET NO. 1 OF
CALCULATED BY RMF DATE 3/22/91
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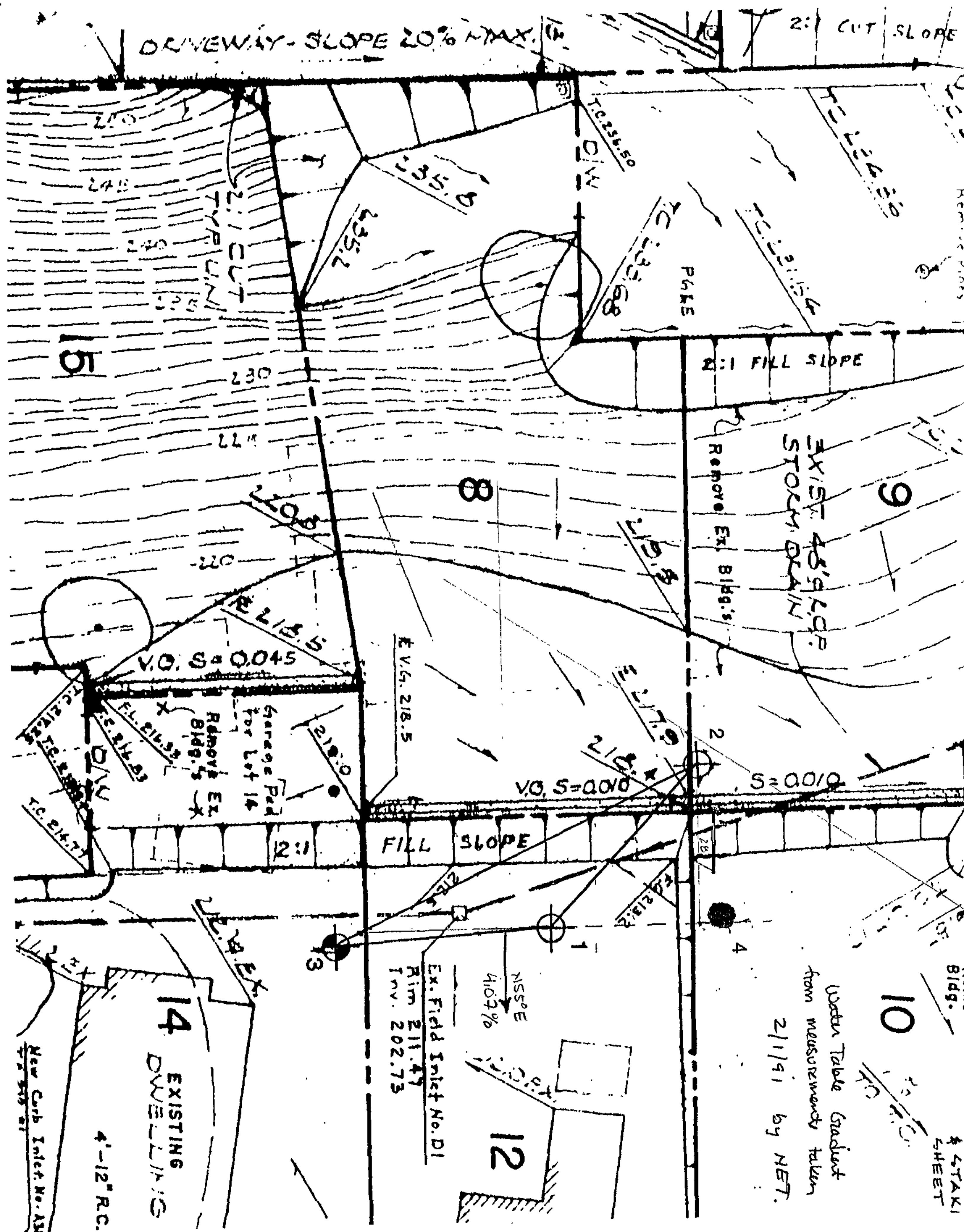
MONITORING WELL # (by NET) (As labeled by JCH & A)	Top of casing Elevation	Depth to water	Elevation of the top of the water column
MW-1 (As labeled by NET) (JCH & A #2)	218.93'	14.45'	204.48'
MW-2 (As labeled by NET) (JCH & A #1)	211.11'	7.96'	203.15'
MW-3 (As labeled by NET) (JCH & A #3)	211.77'	8.74'	203.03'

MEASUREMENTS RECORDED 10/26/90

Monitoring Well # (As labeled by NET) (As labeled by JCH & A)	Top of Casing Elevation	Depth to water	Elevation of the top of the water column
MW-1 (JCH & A #2)	218.93'	14.53'	204.40'
MW-2 (JCH & A #1)	211.11'	7.85'	203.26'
MW-3 (JCH & A #3)	211.77'	8.61'	203.16'
MW-4 (JCH & A #4)	215.49'	11.38'	204.11'

Measurements recorded 2/1/91


DRIVEWAY-SLOPE 20% MAX.
2:1 CUT SLOPE
2:1 CUT TYP. UN.
T.C. 236.50
D/W
2:1 FILL SLOPE
P&E
Remove Ex. Bldg.'s
EXIST. 48" C.C.P. STORM DRAIN
V.G. S=0.045
E.V.G. 218.5
Garage Pad for Lot 14
Remove Ex. Bldg.'s
V.G. S=0.010
S=0.010
FILL SLOPE
2:1
Ex. Field Inlet No. D1
Rim 211.47
Inv. 202.73
N55°E
4.07%
EXISTING DWELLING
4'-12" R.C.
New Curb Inlet No.
Water Table Gradient from measurements taken 2/1/91 by NET.
8
9
10
12
14
15

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JOB 19051 LAKE CHABOT ROAD (650.1)
SHEET NO. 2 OF
CALCULATED BY RMF DATE 3/22/91
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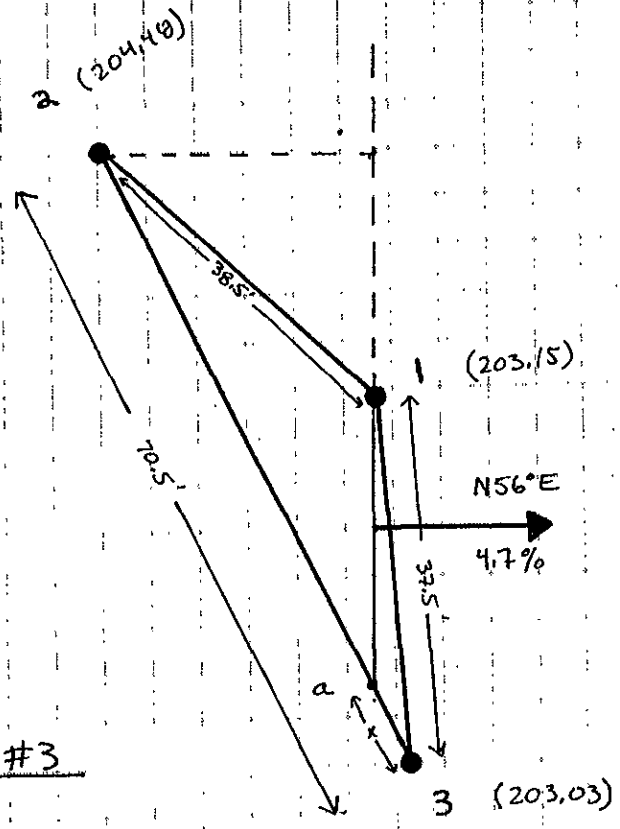
SCALE

Calculation of the gradient of ground water Table based on measurments taken 10/26/90 by NET.



Wells #1, #2, #3

line from well #1 to point a is the strike of the planar surface of the water table.

distance x = distance from well #3 to point a

point a is at the same elevation as well #1, but along the line from well #2 to well #3

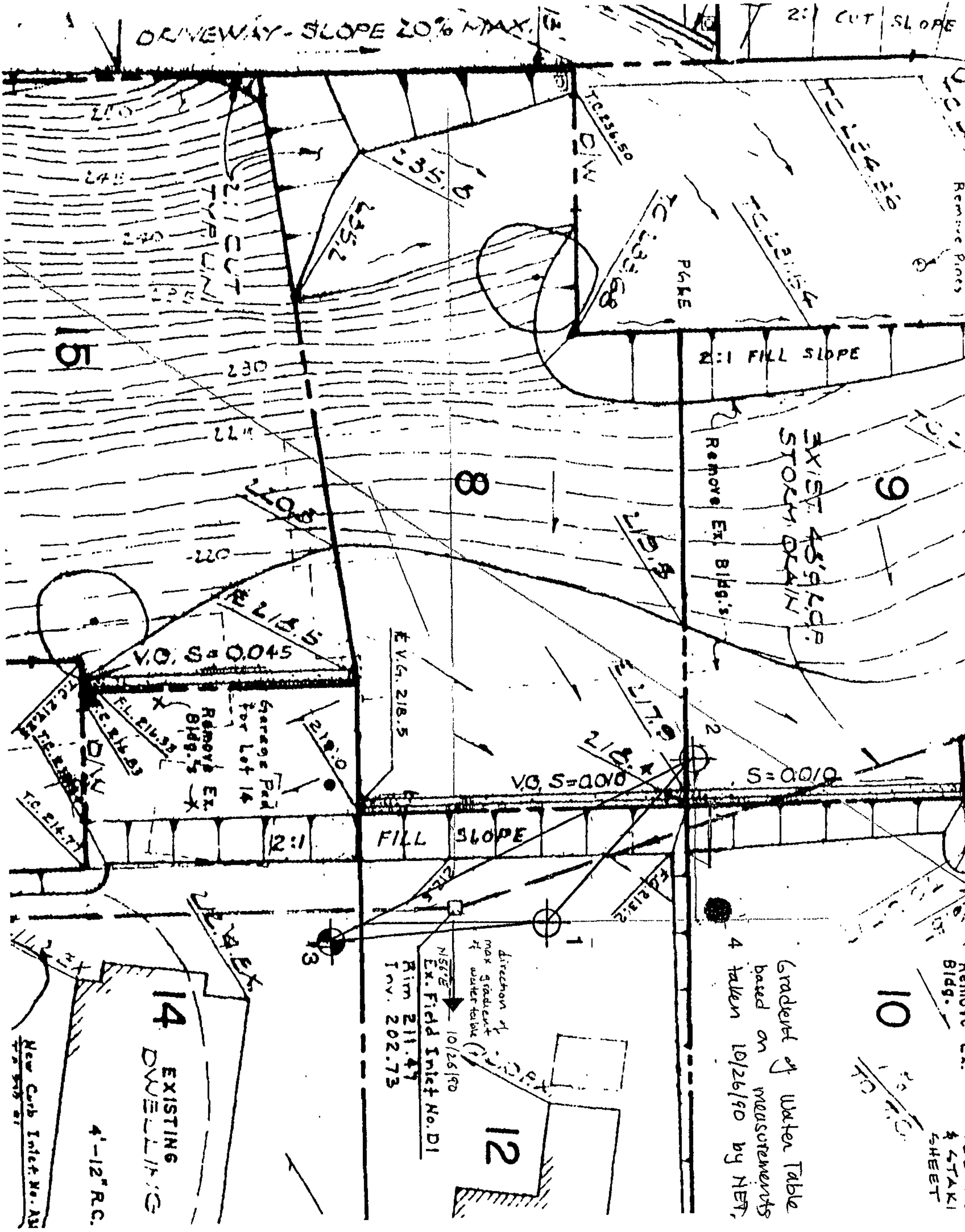
Finding Point a:

$$\frac{203.15 - 203.03}{204.48 - 203.03} = \frac{0.12}{1.45} = \frac{x}{70.5'} \qquad x = 5.83'$$

Gradient Calculation:

$$\frac{204.48' - 203.15'}{28.5'} = \frac{1.33'}{28.5'} = 4.67\%$$

N56°E = direction of gradient of water table


DRIVEWAY - SLOPE 20% MAX.
2:1 CUT SLOPE
2:1 CUT TYP.
2:1 FILL SLOPE
2:1 FILL SLOPE
15
8
9
10
12
14
STORM DRAIN
Remove Ex. Bldg.'s
V.G. S=0.045
E.V.G. 218.5
Garage Pad for Lot 14
Remove Ex. Bldg.'s
D/W
V.G. S=0.010
S=0.010
Ex. Field Inlet No. D1
Rim 211.47
Inv. 202.73
direction of max gradient of water table
10/26/90
Gradient of Water Table based on measurements taken 10/26/90 by NET.
EXISTING DWELLING
4'-12" R.C.
New Curb Inlet No.

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JOB 19051 LAKE CHABOT ROAD (650.1)
SHEET NO. 4 OF
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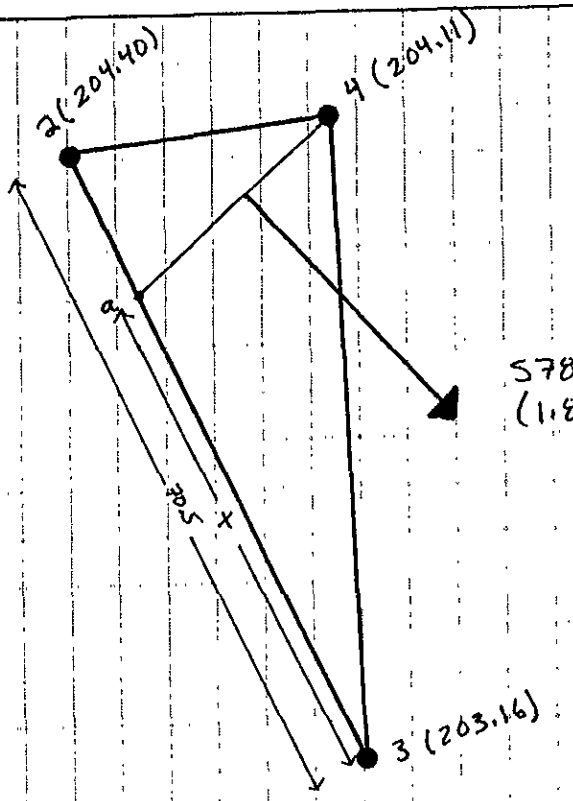


line from well #4 to point a is the line of strike of the planar surface of the water table.

distance x = distance from well # 3 to point x.

point a is at the same elevation as well ~~#~~ #4, but along the line from well #2 to well #3.

Wells #2, #3, #4

Finding point a:

$$\frac{204.11 - 203.16}{204.40 - 203.16} = \frac{0.95}{1.24} = \frac{x}{70.5'}$$

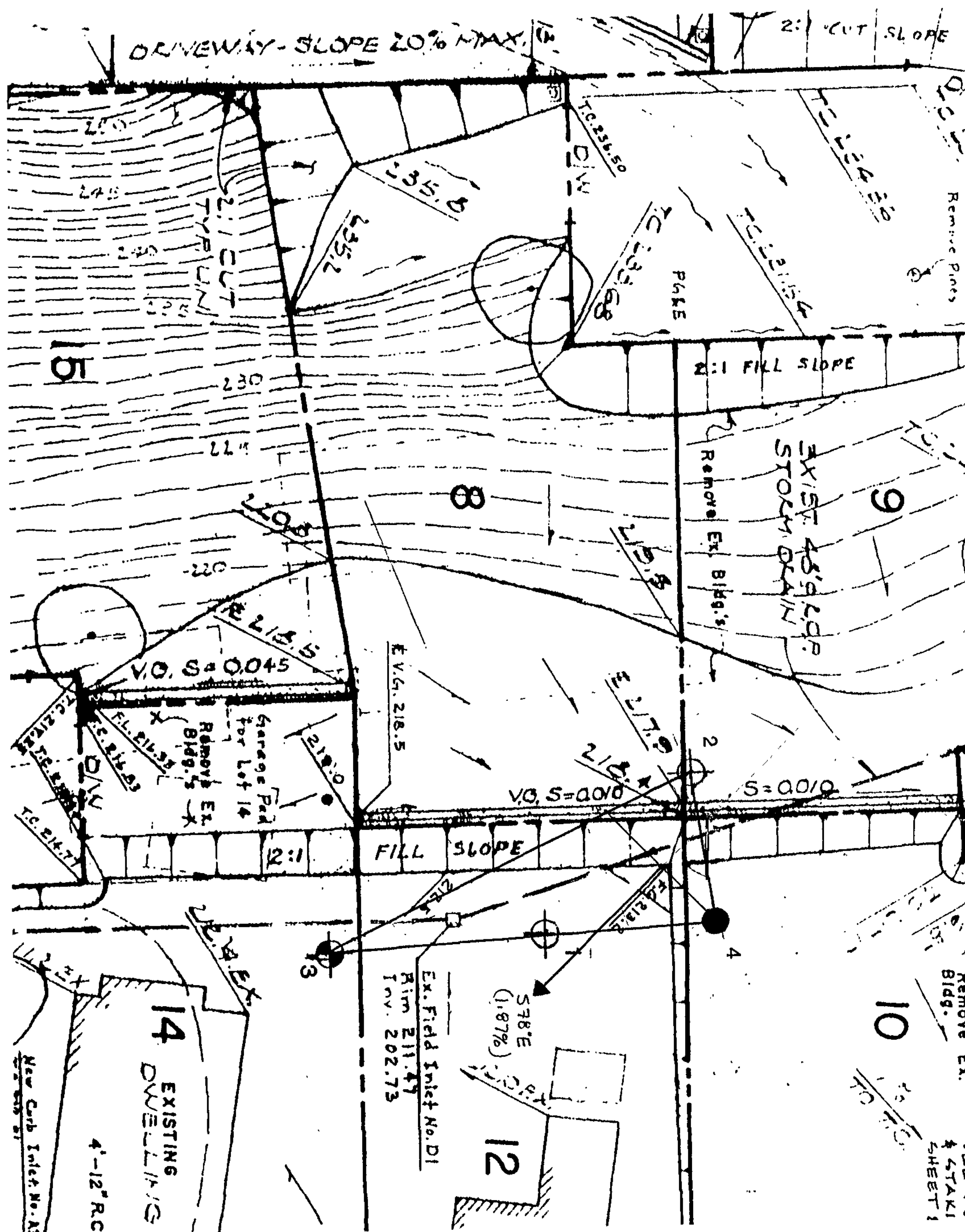
$x = 54.01'$

Gradient calculation:

$$\frac{204.40 - 204.11}{15.5'} = \frac{0.29'}{15.5'} = 1.87\%$$

S78°E is the direction of maximum gradient of the water table

Measurements taken 2/1/91 by MET



DRIVEWAY-SLOPE 20% MAX.
2:1 CUT SLOPE
2:1 CUT TYPICAL
2:1 FILL SLOPE
2:1 FILL SLOPE
15
8
9
10
12
14
230
220
T.C. 236.50
D/W
235.0
235.4
PAKE
EXIST. 45" C.M.P. STORM DRAIN
Remove Ex. Bldg.'s
V.G. S=0.045
E.V.G. 218.5
Garage Pad for Lot 14
Remove Ex. Bldg.'s
FL. 214.83
T.C. 215.33
T.C. 214.77
D/W
V.G. S=0.010
S=0.010
218.0
2
3
4
Ex. Field Inlet No. D1
Rim 211.47
Inv. 202.73
S78°E (1.87%)
EXISTING DWELLING
4'-12" R.C.
New Curb Inlet No.
Remove Ex. Bldg.

JCH
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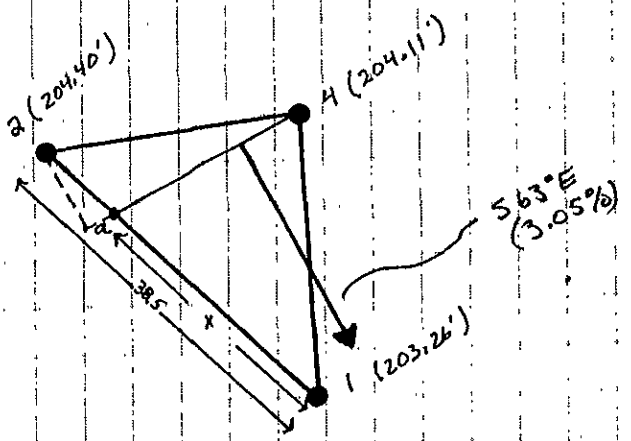
JOB 19051 LAKE CHABOT RD (650.1)
SHEET NO. 5 OF
CALCULATED BY RMF DATE 3/25/91
CHECKED BY DATE
SCALE



Wells # 1, #2, #4

line from well #4 to point a is the line of strike of the planar surface of the water table.

distance x = the distance from well #1 to point a.

point a is the same elevation as well #4 but along the line from well #1 to well #2.

Finding point a:

$$\frac{204.11 - 203.26}{204.40 - 203.26} = \frac{0.85}{1.14} = \frac{x}{38.5}$$

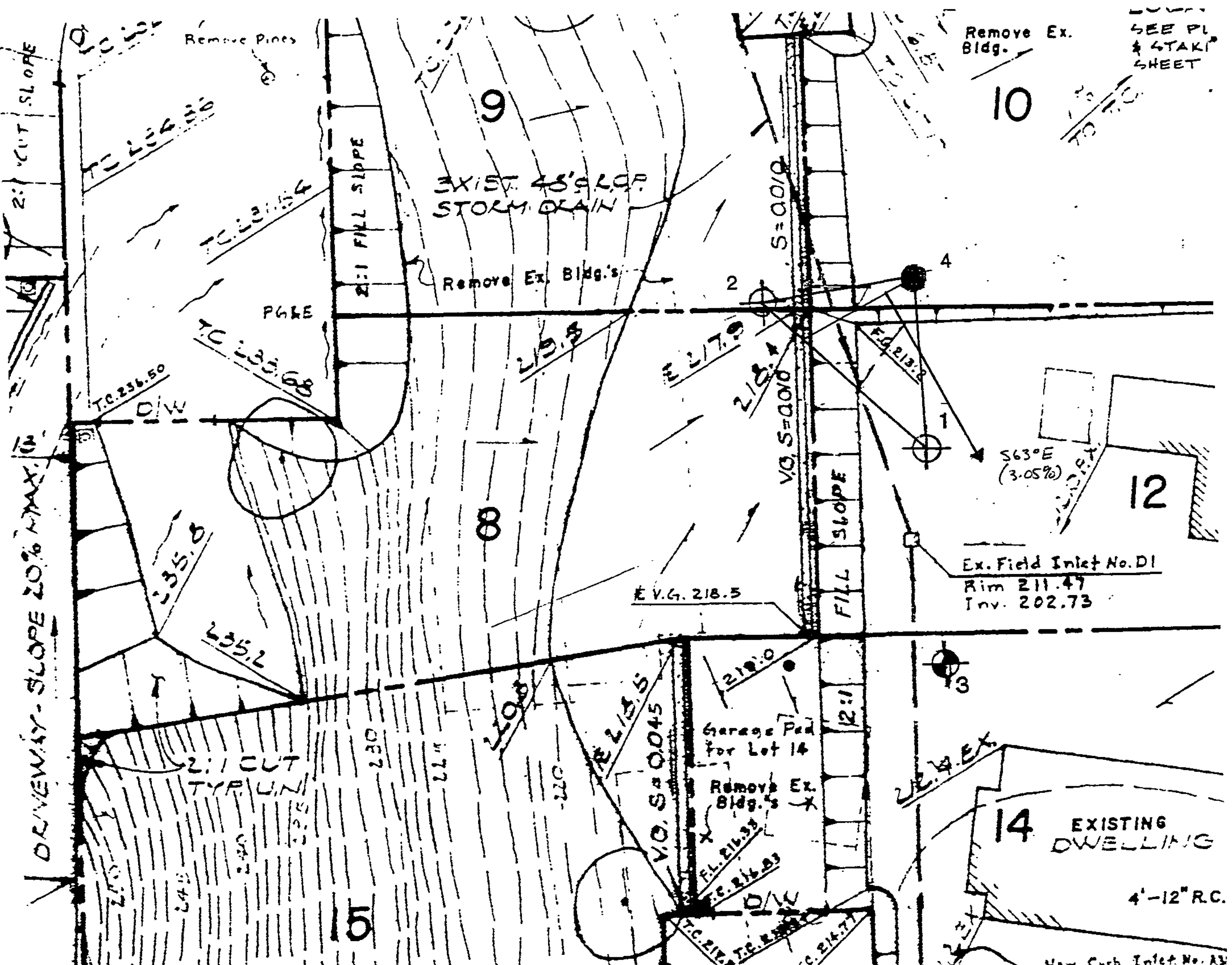
$x = 28.7'$

Calculation of Gradient:

$$\frac{204.40 - 204.11}{9.5} = \frac{0.29}{9.5} = 3.05\%$$

S63°E is the direction of maximum gradient.

Measurements recorded on 2/1/91 by NET.


Remove Pines
Remove Ex. Bldg.
SEE PL
& STAKI
SHEET
9
10
EXIST. 48"RCP
STORM DRAIN
Remove Ex. Bldg.'s
PG&E
2:1 FILL SLOPE
T.C. 236.50
D/W
TC 235.68
TC 231.54
8
235.8
235.2
2:1 CUT
TYP. U.N.
DRIVEWAY - SLOPE 20% MAX.
5
219.5
E 217.9
218.4
S=0.010
V.G. S=0.010
FILL SLOPE
2
4
1
F.G. 213.8
S63°E
(3.05%)
12
Ex. Field Inlet No. D1
Rim 211.47
Inv. 202.73
E.V.G. 218.5
3
2:1
218.0
Garage Pad
for Lot 14
Remove Ex.
Bldg.'s
V.G. S=0.045
E 218.5
F.L. 216.33
T.C. 216.83
D/W
T.C. 216.77
14
EXISTING
DWELLING
4'-12" R.C.