

Detterman, Mark, Env. Health

From: Detterman, Mark, Env. Health
Sent: Tuesday, October 18, 2016 1:35 PM
To: 'Hoey, Kiersten'
Subject: RE: Case No RO0284, Former Chevron 90121; 3026 Lakeshore Ave, Oakland

Hi Kiersten,

I've been in a series of meetings that I needed to prep for as well, sorry for my delay. Use of the 1-inch wells would be fine. It induces some risk due to an inability to develop them fully due to their smaller size, but in this case it may be sufficient.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Department of Environmental Health
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Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>

From: Hoey, Kiersten [<mailto:Kiersten.Hoey@ghd.com>]
Sent: Tuesday, October 18, 2016 1:21 PM
To: Detterman, Mark, Env. Health
Subject: FW: Case No RO0284, Former Chevron 90121; 3026 Lakeshore Ave, Oakland
Importance: High

I'm emailing regarding the wells proposed in the sidewalks of Lakeshore Avenue (MW-10, MW-11, and MW-12) in Oakland. Based on the electrical and utility/stormdrain corridor discovered beneath the northern sidewalk, I'm requesting to install the wells as 1-inch diameter wells using a direct push rig. The depth of 20 fbg and screen interval of 10-20 fbg remains the same as proposed in the workplan. Based on the utility locations, it will be a lower risk to the crew safety and of damaging a utility if a direct push rig is used. This alternative has been utilized in the past based on the same constraints. I spoke to the City of Oakland about moving the wells to the park, but based on the nearness of the playground, the process would take time and go through several departments, and is not guaranteed to be approved. I've attached the geophysical report for your reference. The wells installations are currently scheduled to start on Monday.

Thank you,
Kiersten

Kiersten Hoey

GHD

T: +1 510 420 3347
5900 Hollis Street, Suite A Emeryville, California 94608 United States

From: Hoey, Kiersten
Sent: Monday, October 17, 2016 1:00 PM
To: 'mark.detterman@acgov.org'

Subject: Case No RO0284, Former Chevron 90121; 3026 Lakeshore Ave, Oakland

Importance: High

Hello,

I'm emailing regarding the wells proposed in the sidewalks of Lakeshore Avenue (MW-10, MW-11, and MW-12) in Oakland. Based on the electrical and utility/stormdrain corridor discovered beneath the northern sidewalk, I'd like to request to install the wells as 1-inch diameter wells using a direct push rig, instead of 2-inch wells using a hollow stem auger rig. Based on the utility locations, it will be a lower risk to the crew safety and of damaging a utility if a direct push rig is used. This alternative has been utilized in the past based on the same constraints. I spoke to the City of Oakland about moving the wells to the park, but based on the nearness of the playground, the process would take time and go through several departments, and is not guaranteed to be approved. I've attached the geophysical report for your reference. The wells installations are currently scheduled to start on Monday.

Thank you,
Kiersten

Kiersten Hoey



GHD

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NORCAL Geophysical Consultants, Inc.

321A Blodgett Street

Cotati, CA 94931

707-796-7170

DAILY FIELD REPORT/LIMITATIONS

Date: 9/21/2016 Personnel: WSB/JTB

NORCAL Job #:

Client/Location: FORMER CHEVRON STATION 9012, 3026 LAKESHORE AVE, OAKLAND, CA

Equipment: EM-U/GPR

Description: CLEAR & BORING LOCATIONS

TIME	NOTES
0530-0600	MOB EQUIPMENT
0600-0735	TRAVEL TO SITE IN OAKLAND/MET CHARLEY McLEAN/GHD
0735-1145	FIELD INVESTIGATION (INCLUDED 1/2 HR SAFETY ORIENTATION)
1215-1530	" " (INCLUDED ~ 1 HR STANDBY WAITING FOR CARS TO BE MOVED)

TOTAL FIELD TIME 7.5 HRS

CLEARED & PRIMARY PLUS TWO ALTERNATE LOCATIONS

NOTE: Because of the inherent limitations of the geophysical instrumentation used, NORCAL cannot assume liability in the event that utilities or other subsurface features are not detected.

FIELD DAY SUMMARY

Bill Black Signature Print NORCAL Representative

Charley McLean Signature Print Client Representative

PERSONNEL: WEB/DJB

CLIENT: GHD

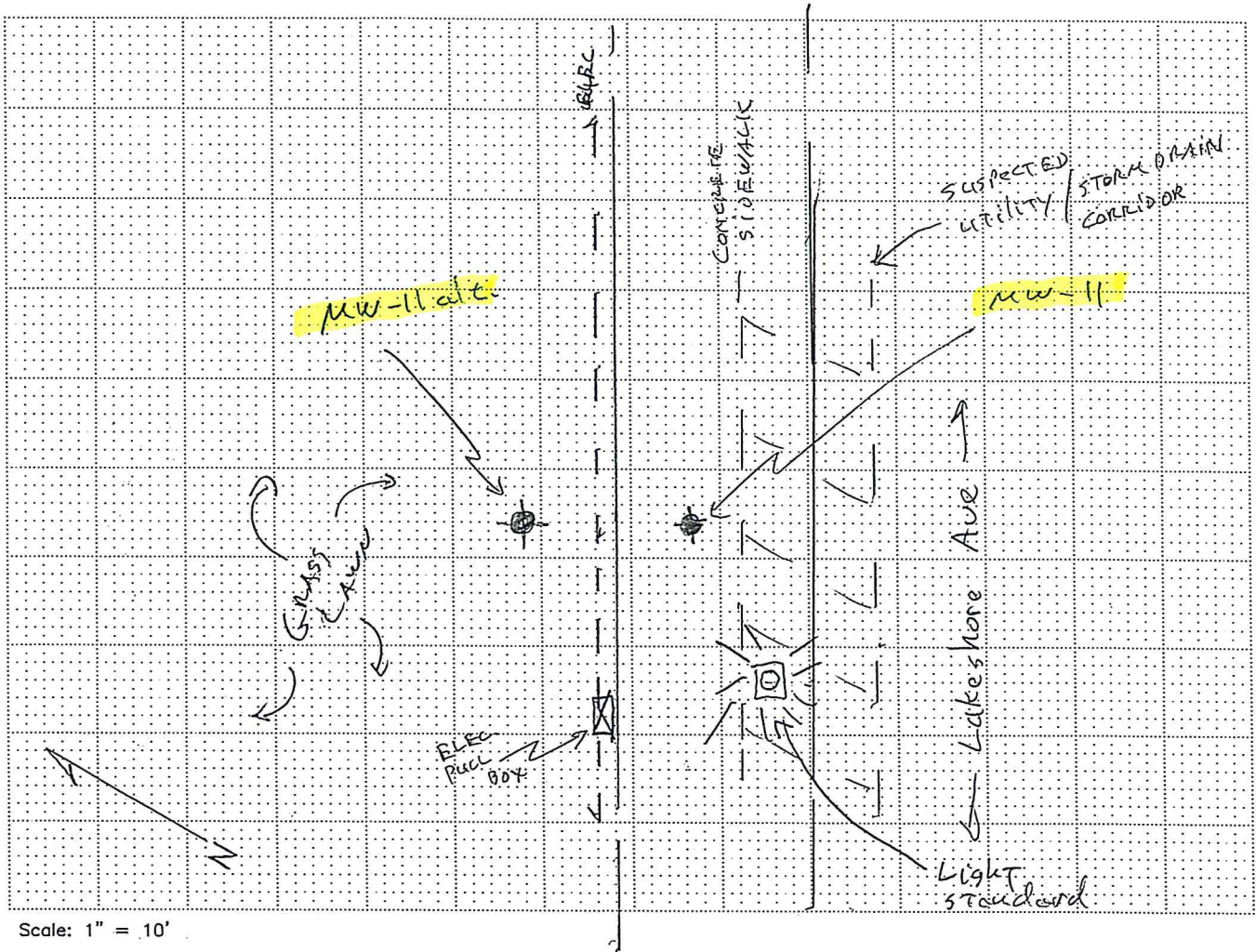
JOB: NS167030

DATE: 9/22/16

LOCATION: From Channon St to 90121
3026 Lakeshore Ave



BORING: MW-11 & MW-11alt.



Scale: 1" = 10'

EXPLANATION

- Original Boring Location
- Final Boring Location
- Existing Well Location
- GPR Traverse
- Localized GPR Anomaly
- Utility Alignment

Utilities

- T (Telephone, Comm.)
- E (Electric)
- NG (Natural Gas)
- CA (Compressed Air)
- STM (Steam)
- SS (Sanitary Sewer)
- SD (Storm Drain)
- W (Water)
- FS (Fire Suppression)
- UU (Undifferentiated Utility)

Surface

- RC (Reinforced Concrete)
- AC (Asphalt)
- C (Concrete)
- Soil
- Gravel
- other

NOTES

- | | | |
|---|--|---------------------|
| Equipment: | Procedure: | Surface Conditions: |
| - <input checked="" type="checkbox"/> GPR (Radar) | - <input checked="" type="checkbox"/> EMC (Conduction) | - Wet |
| - RD 4000 | - <input checked="" type="checkbox"/> EMI (Induction) | - Dry |
| - M Scope | - Ambient | - other |
| - other | - GPR | |

REMARKS

alt = ALTERNATE

PERSONNEL: WEB/DJB

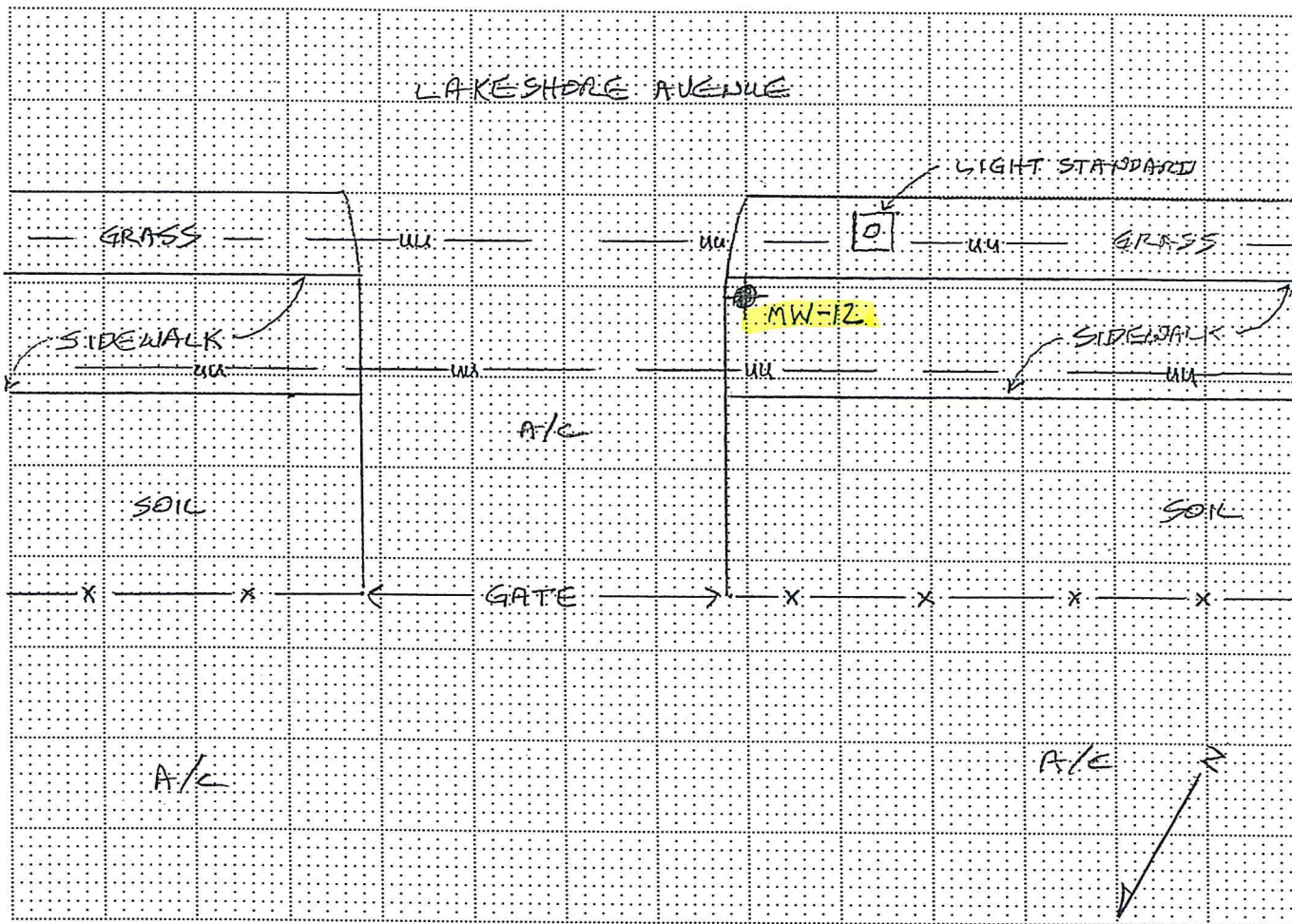
CLIENT: GHD

JOB: NS167030

DATE: 9/21/16

LOCATION: FORMER CHEVRON STATION 90121
3026 LAKESHORE AVE. OAKLAND

BORING: MW-12



Scale: 1" = 10'

EXPLANATION

	Original Boring Location
	Final Boring Location
	Existing Well Location
	GPR Traverse
	Localized GPR Anomaly
	Utility Alignment
	CHAIN LINK FENCE
<hr/>	
- T (Telephone, Comm.)	- SS (Sanitary Sewer)
- E (Electric)	- SD (Storm Drain)
- NG (Natural Gas)	- W (Water)
- CA (Compressed Air)	- FS (Fire Supression)
- STM (Steam)	<input checked="" type="checkbox"/> UU (Undifferentiated Utility)
<hr/>	
<u>Surface</u>	
<input checked="" type="checkbox"/> RC (Reinforced Concrete)	<input checked="" type="checkbox"/> Soil
<input checked="" type="checkbox"/> AC (Asphalt)	- Gravel
- C (Concrete)	<input checked="" type="checkbox"/> other

NOTES

Equipment:	Procedure:	Surface Conditions:
<input checked="" type="checkbox"/> GPR (Radar)	- EMC (Conduction)	- Wet
<input checked="" type="checkbox"/> RD 4000	<input checked="" type="checkbox"/> EMI (Induction)	<input checked="" type="checkbox"/> Dry
<input checked="" type="checkbox"/> M Scope	<input checked="" type="checkbox"/> Ambient	- other
- other	<input checked="" type="checkbox"/> GPR	

REMARKS

UU LINES ARE PROBABLY ELECTRIC

PERSONNEL: *WLB/DJB*

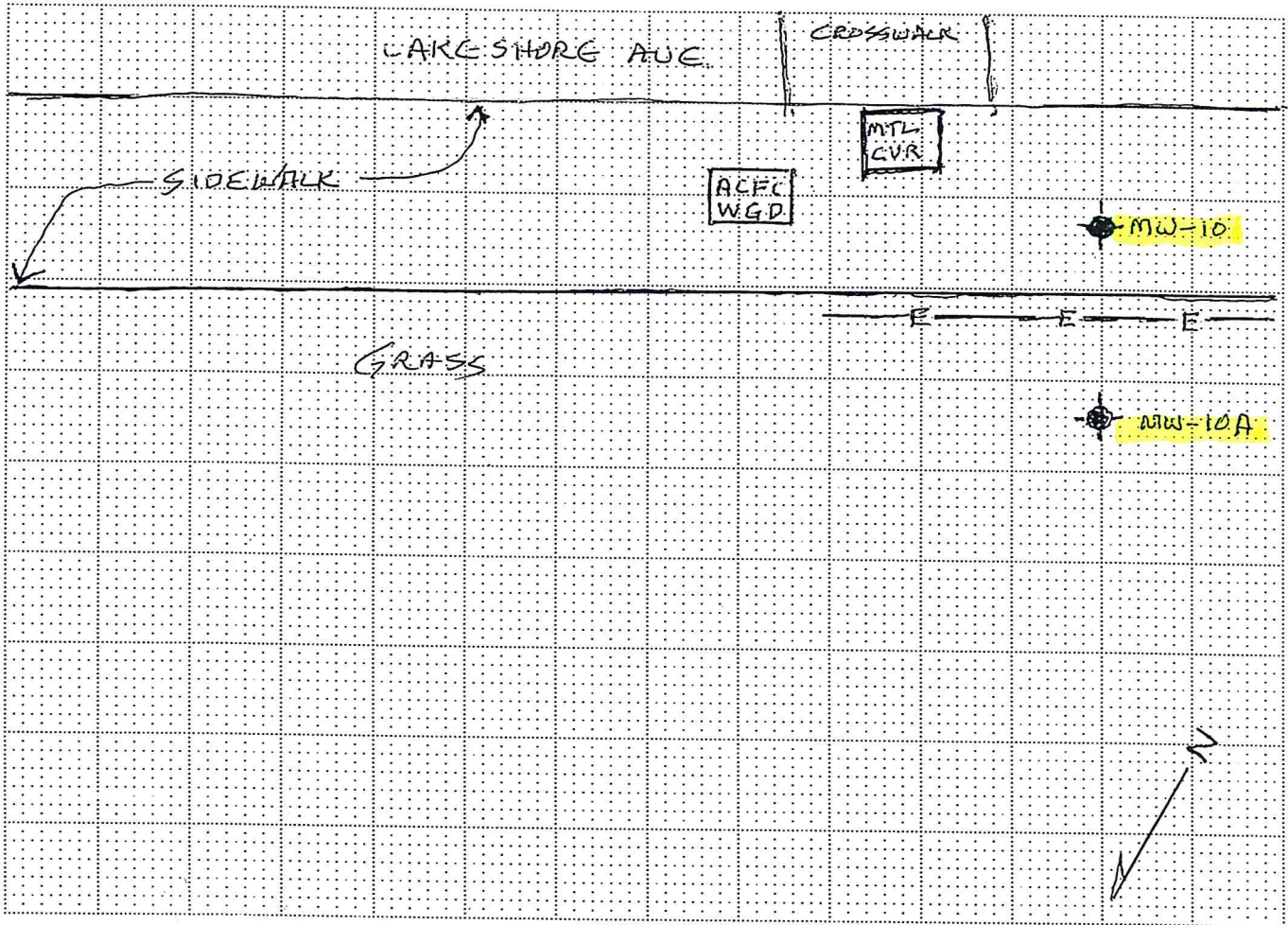
CLIENT: *GHD*

JOB: *NS 167030*

DATE: *9/21/16*

LOCATION: *OAKLAND/FRRR CHEVRON STA 90121
3026 LAKE SHORE AVE, OAKLAND*

BORING: *MW-10/MW-10A*



Scale: 1" = 10'

EXPLANATION

- Original Boring Location
 - Final Boring Location
 - Existing Well Location
 - GPR Traverse
 - Localized GPR Anomaly
 - Utility Alignment
- Utilities
- T (Telephone, Comm.)
 - E (Electric)
 - NG (Natural Gas)
 - CA (Compressed Air)
 - STM (Steam)
 - SS (Sanitary Sewer)
 - SD (Storm Drain)
 - W (Water)
 - FS (Fire Suppression)
 - UU (Undifferentiated Utility)
- Surface
- RC (Reinforced Concrete)
 - AC (Asphalt)
 - C (Concrete)
 - Soil
 - Gravel
 - other

NOTES

- | | | |
|---|---|---|
| Equipment: | Procedure: | Surface Conditions: |
| <input checked="" type="checkbox"/> GPR (Radar) | - EMC (Conduction) | - Wet |
| <input checked="" type="checkbox"/> RD 4000 | <input checked="" type="checkbox"/> EMI (Induction) | <input checked="" type="checkbox"/> Dry |
| <input checked="" type="checkbox"/> M Scope | <input checked="" type="checkbox"/> Ambient | - other |
| - other | <input checked="" type="checkbox"/> GPR | |

REMARKS

A = ALTERNATE

PERSONNEL: WEB/DJB

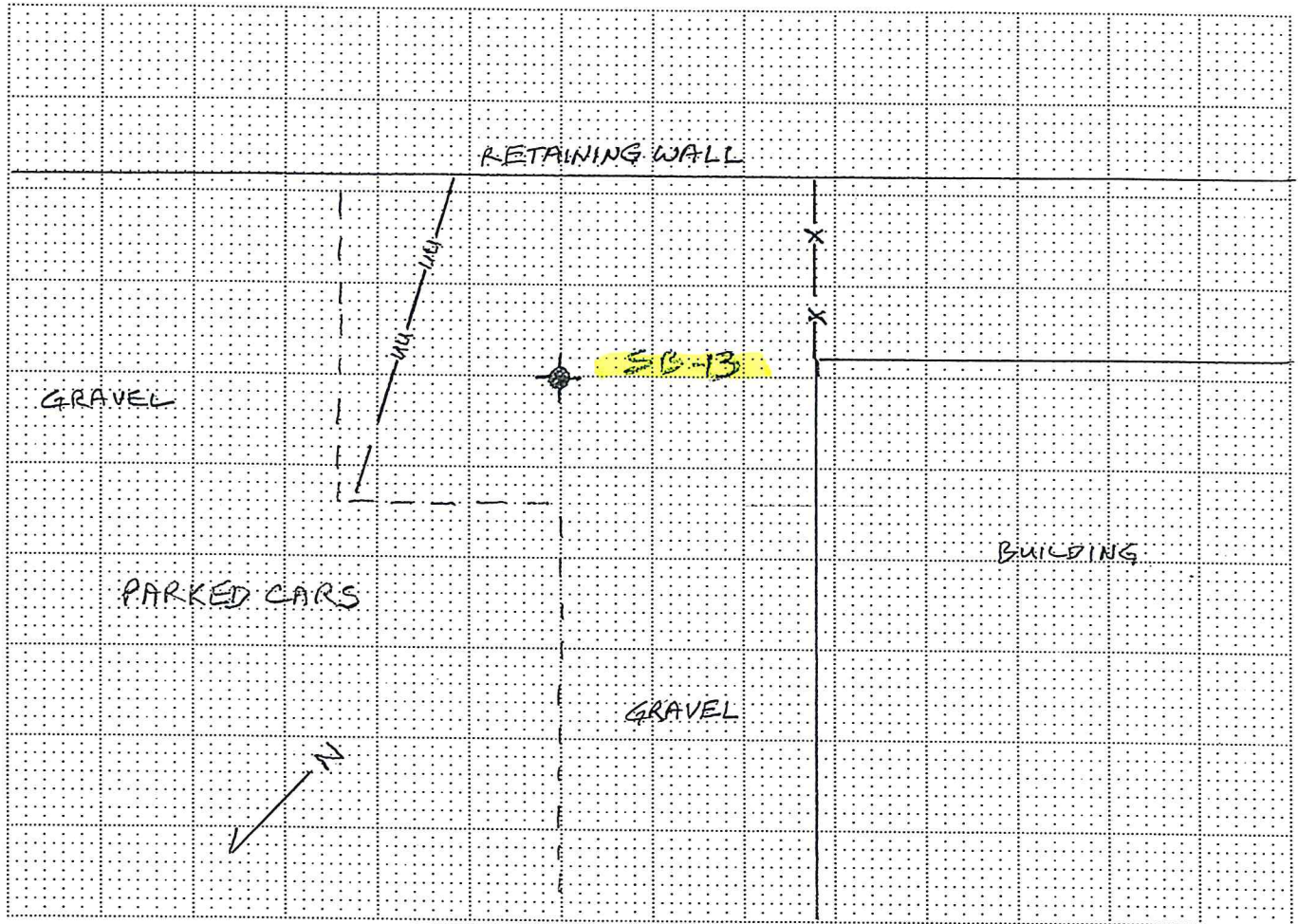
JOB: NS167030

DATE: 9/21/16

CLIENT: GHD

LOCATION: FORMER CHEVRON STATION 90121
3026 LAKESHORE AVE, OAKLAND

BORING: SB-13



EXPLANATION

- Original Boring Location
- Final Boring Location
- Existing Well Location
- GPR Traverse
- Localized GPR Anomaly
- Utility Alignment

Utilities

- T (Telephone, Comm.)
- E (Electric)
- NG (Natural Gas)
- CA (Compressed Air)
- STM (Steam)
- SS (Sanitary Sewer)
- SD (Storm Drain)
- W (Water)
- FS (Fire Suppression)
- UU (Undifferentiated Utility)

Surface

- RC (Reinforced Concrete)
- AC (Asphalt)
- C (Concrete)
- Soil
- Gravel
- other

NOTES

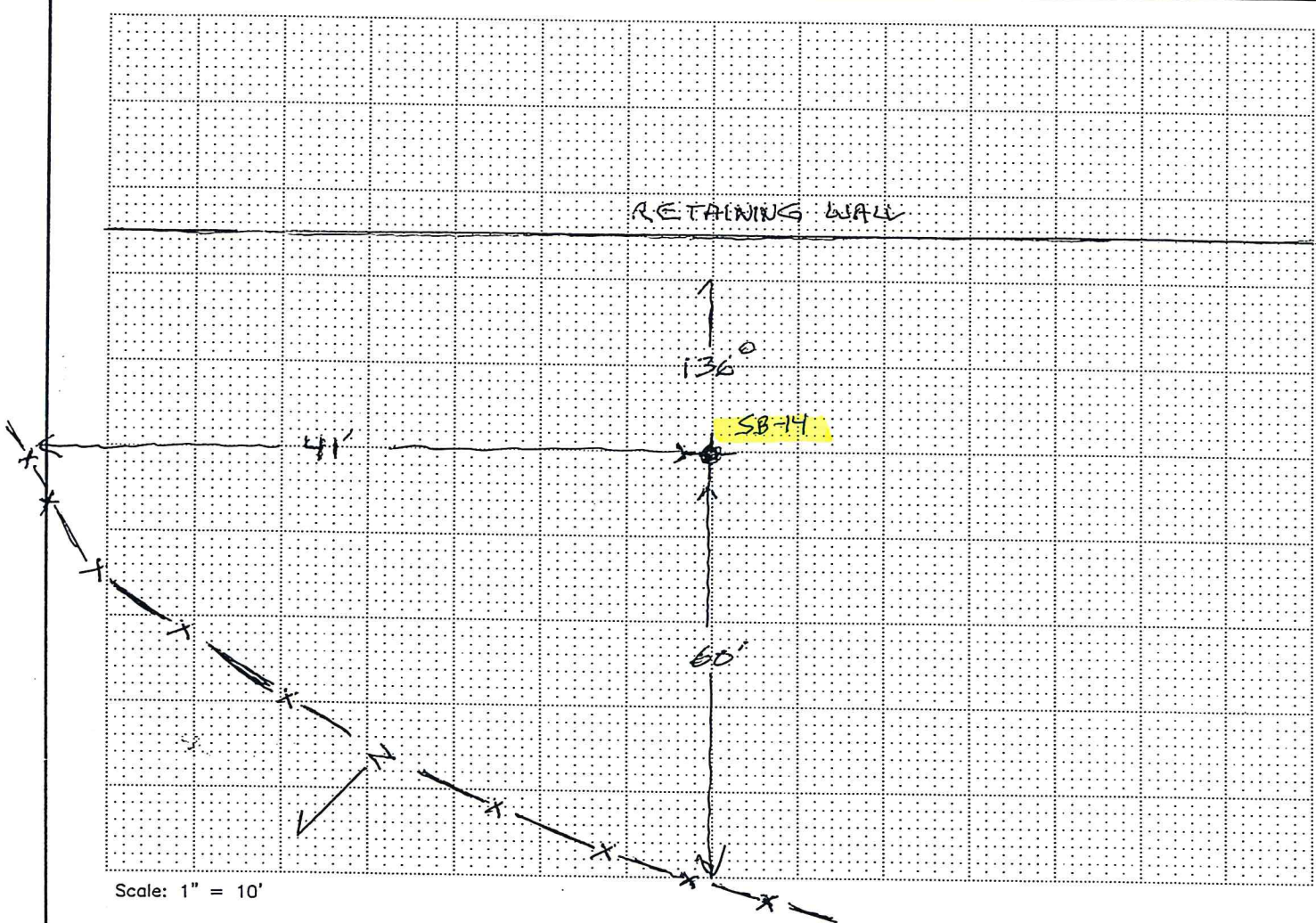
- | | | |
|---|---|---|
| Equipment: | Procedure: | Surface Conditions: |
| <input checked="" type="checkbox"/> GPR (Radar) | - EMC (Conduction) | - Wet |
| <input checked="" type="checkbox"/> RD 4000 | - EMI (Induction) | <input checked="" type="checkbox"/> Dry |
| <input checked="" type="checkbox"/> M Scope | <input checked="" type="checkbox"/> Ambient | - other |
| - other | <input checked="" type="checkbox"/> GPR | |

REMARKS

PERSONNEL: *WES/DJB*
 JOB: *NS167030* | DATE: *9/21/16*



CLIENT: *GHD*
 LOCATION: *BARLAND (FORMER CHEVRON STATION 90121)*
 BORING: *SB-14* | *3026 LAKESHORE AVE*



Scale: 1" = 10'

EXPLANATION

- Original Boring Location
 - Final Boring Location
 - Existing Well Location
 - GPR Traverse
 - Localized GPR Anomaly
 - Utility Alignment
 - FENCE
- | | |
|------------------------|---------------------------------|
| - T (Telephone, Comm.) | - SS (Sanitary Sewer) |
| - E (Electric) | - SD (Storm Drain) |
| - NG (Natural Gas) | - W (Water) |
| - CA (Compressed Air) | - FS (Fire Suppression) |
| - STM (Steam) | - UU (Undifferentiated Utility) |
- Surface
- | | |
|----------------------------|----------|
| - RC (Reinforced Concrete) | - Soil |
| - AC (Asphalt) | - Gravel |
| - C (Concrete) | - other |

NOTES

- | | | |
|---|---|---|
| Equipment: | Procedure: | Surface Conditions: |
| <input checked="" type="checkbox"/> GPR (Radar) | - EMC (Conduction) | - Wet |
| <input checked="" type="checkbox"/> RD 4000 | - EMI (Induction) | <input checked="" type="checkbox"/> Dry |
| <input checked="" type="checkbox"/> M Scope | <input checked="" type="checkbox"/> Ambient | - other |
| - other | <input checked="" type="checkbox"/> GPR | |

REMARKS

NO UNDERGROUND OBJECTS DETECTED

PERSONNEL: *WES/DJB*

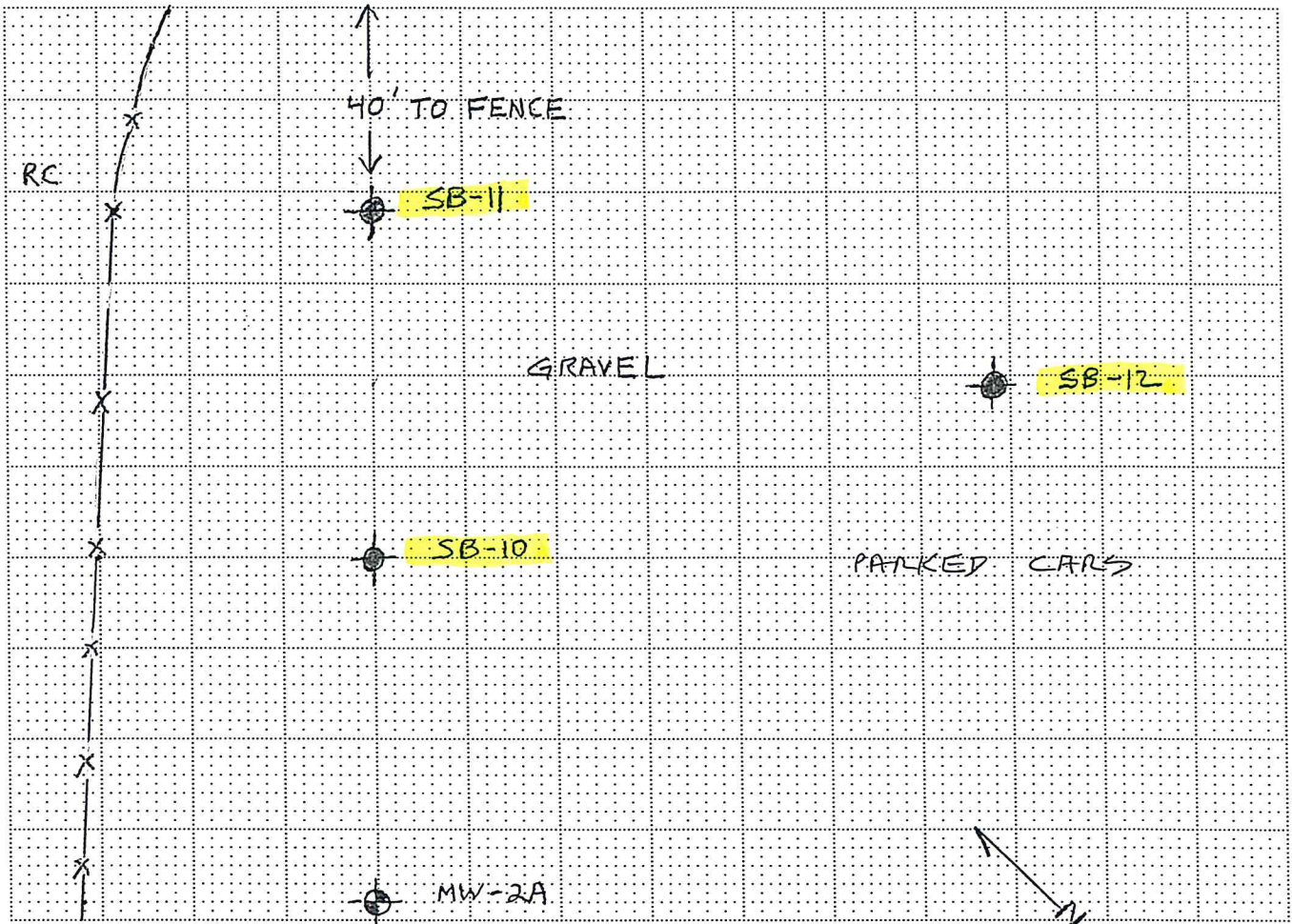
CLIENT: *GHD*

JOB: *NS167030*

DATE: *9/21/16*

LOCATION: *FORMER CHEVRON STATION 98121
3026 LAKE SHORE AVE, OAKLAND*

BORING: *SB-10, SB-11, SB-12*



Scale: 1" = 10'

EXPLANATION

- Original Boring Location
 - Final Boring Location
 - Existing Well Location
 - GPR Traverse
 - Localized GPR Anomaly
 - Utility Alignment
 - FENCE
- Utilities
- T (Telephone, Comm.)
 - E (Electric)
 - NG (Natural Gas)
 - CA (Compressed Air)
 - STM (Steam)
 - SS (Sanitary Sewer)
 - SD (Storm Drain)
 - W (Water)
 - FS (Fire Supression)
 - UU (Undifferentiated Utility)
- Surface
- RC (Reinforced Concrete)
 - AC (Asphalt)
 - C (Concrete)
 - Soil
 - Gravel
 - other

NOTES

- | | | |
|---|---|---|
| Equipment: | Procedure: | Surface Conditions: |
| <input checked="" type="checkbox"/> GPR (Radar) | <input type="checkbox"/> EMC (Conduction) | <input type="checkbox"/> Wet |
| <input checked="" type="checkbox"/> RD 4000 | <input type="checkbox"/> EMI (Induction) | <input checked="" type="checkbox"/> Dry |
| <input checked="" type="checkbox"/> M Scope | <input checked="" type="checkbox"/> Ambient | <input type="checkbox"/> other |
| <input type="checkbox"/> other | <input checked="" type="checkbox"/> GPR | |

REMARKS

*NO UNDERGROUND OBJECTS
DETECTED*