



# GETTLER-RYAN INC.

March 22, 1999

Mr. Phil Briggs  
Chevron Products Company  
P.O. Box 6004  
San Ramon, California 94583

**Subject:** Addendum To Work Plan For Monitoring Well Installation At Chevron Service Station #9-0338, 5500 Telegraph Avenue, Oakland, California.


Mr. Briggs:


At the request of Chevron Products Company (Chevron), Gettler-Ryan Inc. (GR) has prepared this addendum to Work Plan For Monitoring Well Installation at the above referenced site (Figure 2). As discussed with Alameda County Health Care Services Agency (ACHCSA) existing groundwater monitoring wells C-1 and C-2 will be drilled out with 8-inch diameter hollow-stem auger one foot past the installed well casing to remove the annular seal, sand-pack, and well casing. These wells will be drilled out to an approximate depth between 31 and 30 feet below ground surface (bgs), respectively. Well construction details of wells C-1 and C-2 are attached. Well borings C-1 and C-2 will be backfilled with bentonite pellets to a depth of 25 feet bgs, and reconstructed as groundwater monitoring wells C-1A and C-2A as shown on Figure 3.

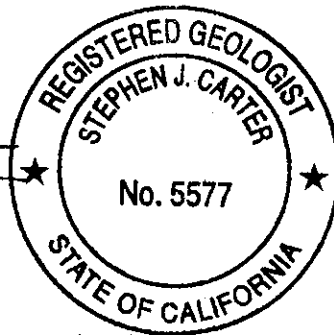
The original Work Plan prepared by GR had located proposed well C-5 near the western driveway of the subject site. However, ACHCSA had requested Chevron to relocate well C-5 15 feet west of the former underground storage tanks (USTs), and 20 feet north of the former center dispenser island. Chevron has agreed to relocate well C-5 as shown on Figure 2.

If you have any questions, please call our Sacramento office at (916) 631-1300.

Sincerely,  
Gettler-Ryan Inc.

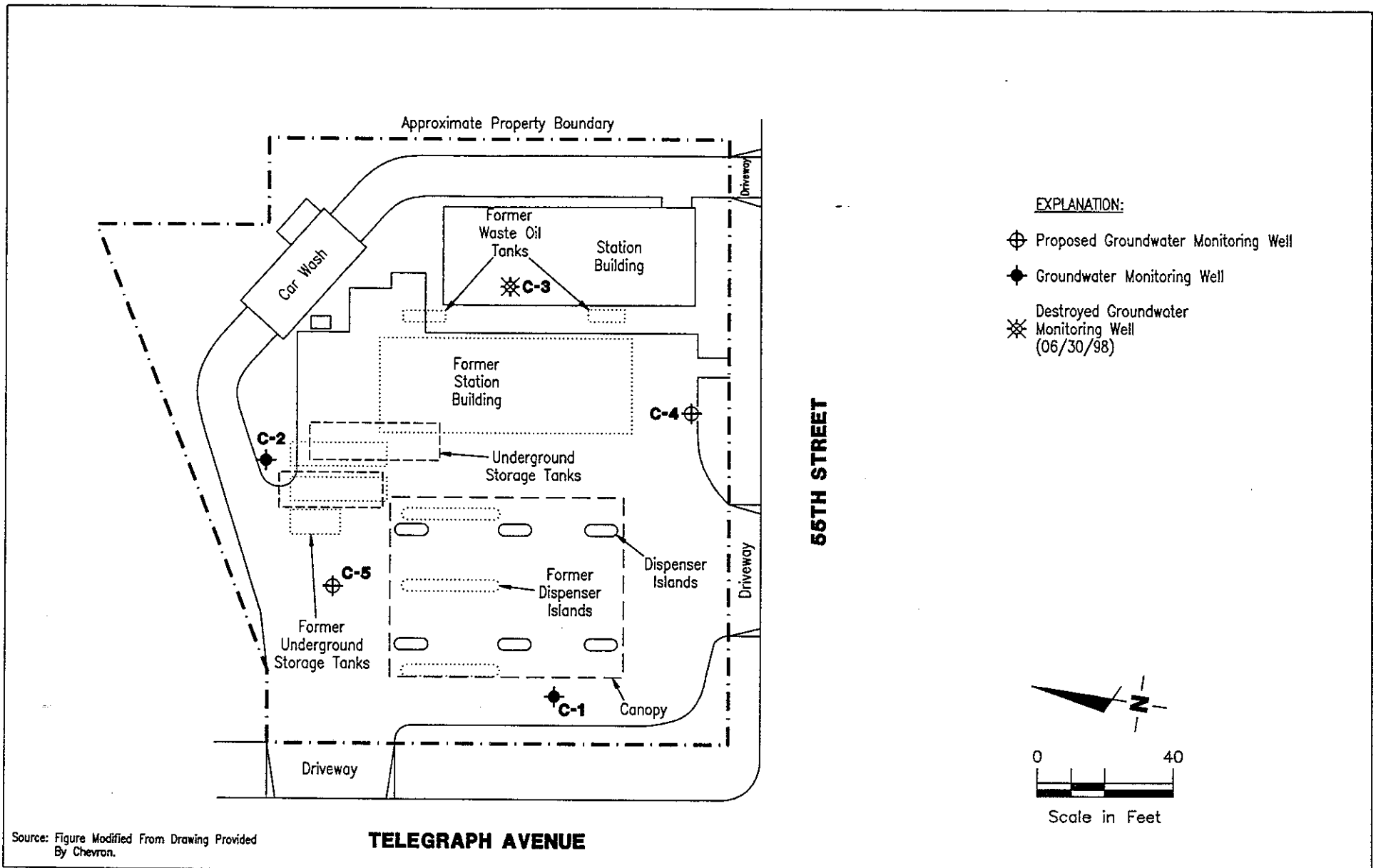
  
Todd A. Del Frate  
Geologist

  
Stephen J. Carter  
Senior Geologist  
R.G. 5577



Attachments:                    Figure 2.                    Site Plan  
   Figure 3.                    Well Construction Detail  
   Well Construction Detail For Wells C-1 and C-2

346456.02



**Gertler - Ryan Inc.**

6747 Sierra Ct., Suite J (925) 551-7555  
Dublin, CA 94568

**SITE PLAN**

Chevron Service Station No. 9-0338  
5500 Telegraph Avenue  
Oakland, California

FIGURE

**2**

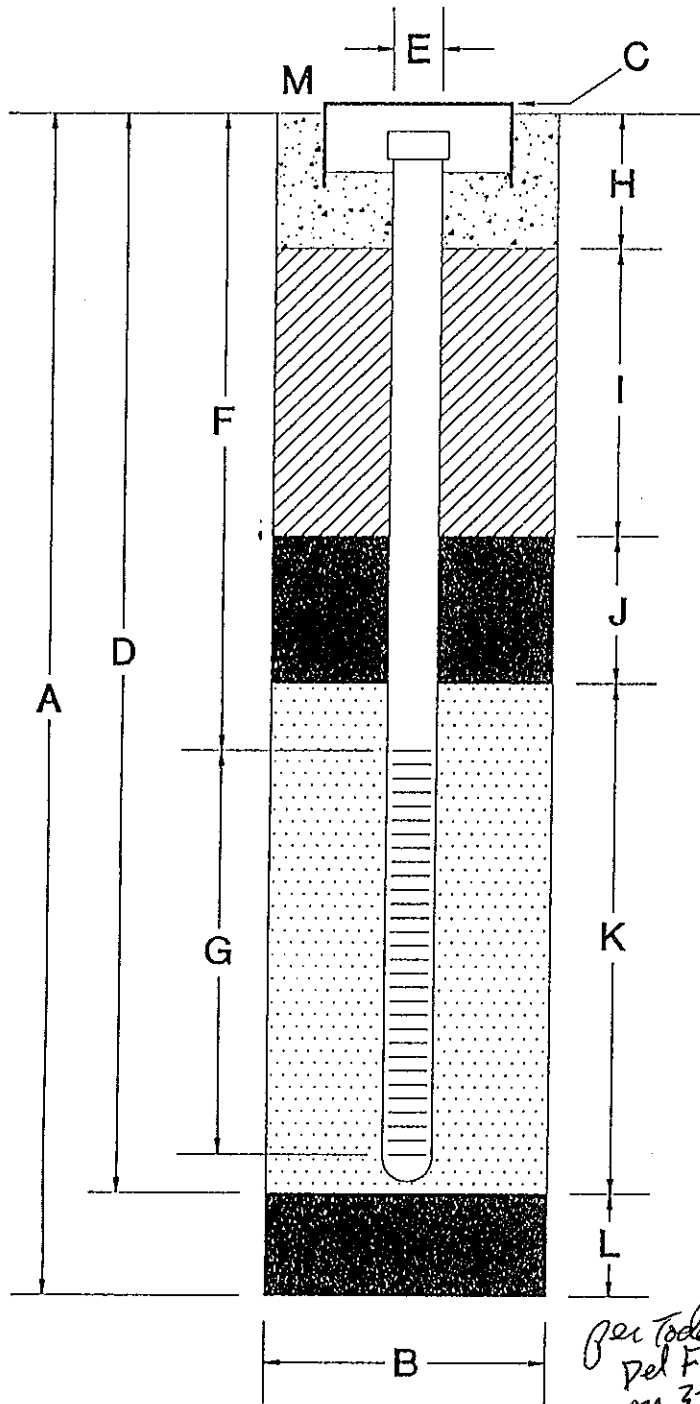
JOB NUMBER  
346456

REVIEWED BY

DATE  
01/99

REVISED DATE  
03/99

## WELL CONSTRUCTION DETAIL



- A Total Depth Of Boring \_\_\_\_\_ 25 \_\_\_\_\_ ft.
- B Diameter Of Boring \_\_\_\_\_ 8 \_\_\_\_\_ in.  
Drilling Method Hollow-stem Auger
- C Top Of Box Elevation \_\_\_\_\_ ft.  
 Referenced To Mean Sea Level  
 Referenced To Project Datum
- D Casing Length \_\_\_\_\_ 25 \_\_\_\_\_ ft.  
Material Schedule 40 PVC
- E Casing Diameter \_\_\_\_\_ 2 \_\_\_\_\_ in.
- F Depth To Top Perforations \_\_\_\_\_ 5 \_\_\_\_\_ ft.
- G Perforated Length \_\_\_\_\_ 20 \_\_\_\_\_ ft.  
Perforated Interval From 5 to 25 ft.  
Perforation Type Machine Slotted  
Perforation Size \_\_\_\_\_ 0.02 \_\_\_\_\_ in.
- H Surface Seal From \_\_\_\_\_ 0 \_\_\_\_\_ to 0.5 ft.  
Seal Material Cement
- I Backfill From \_\_\_\_\_ 0.5 \_\_\_\_\_ to 3.0 ft.  
Backfill Material Neat Cement
- J Seal From \_\_\_\_\_ 3.0 \_\_\_\_\_ to 4.0 ft.  
Seal Material Bentonite
- K Gravel Pack From \_\_\_\_\_ 4.0 \_\_\_\_\_ to 25 ft.  
Pack Material Lonestar #3 sand
- L Bottom Seal \_\_\_\_\_ None \_\_\_\_\_ ft.  
Seal Material \_\_\_\_\_
- M Traffic rated vault box, locking well cap, and lock.

Well C-5, C4, C-2A, C-1A  
 PROPOSED WELL CONSTRUCTION  
 Chevron Station #9-0338  
 5500 Telegraph Avenue  
 Oakland, California

*Per Todd  
 Del Frate  
 on 3-25-99*

Note: Depths Measured From Initial Ground Surface.



**Gettler - Ryan Inc.**

3164 Gold Camp Drive, Suite 240  
 Rancho Cordova, CA 95670

FIGURE 3

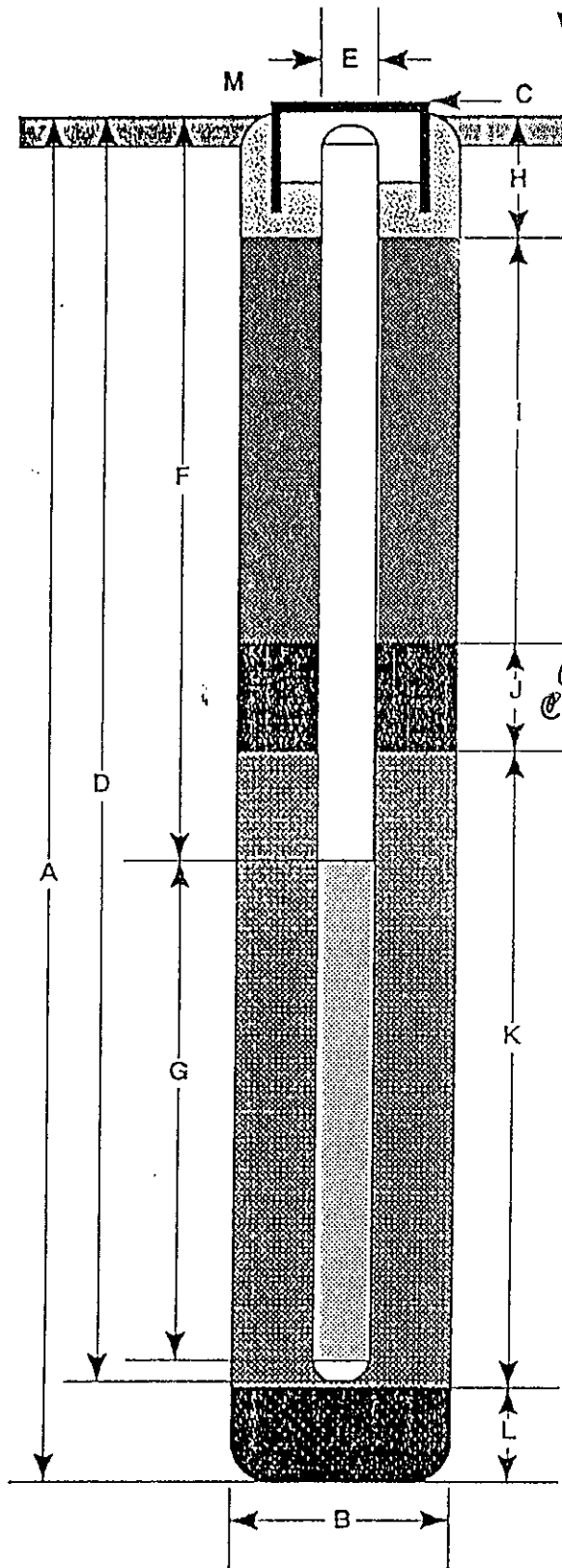
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DATE  
 3/99

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# WELL CONSTRUCTION DETAIL

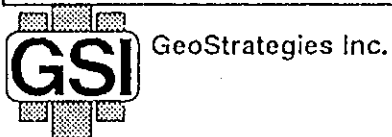


- A Total Depth of Boring \_\_\_\_\_ 33 ft.
- B Diameter of Boring \_\_\_\_\_ 8 in.  
Drilling Method \_\_\_\_\_ Hollow-Stem Auger
- C Top of Box Elevation \_\_\_\_\_ 123.88 ft.  
 Referenced to Mean Sea Level  
 Referenced to Project Datum
- D Casing Length \_\_\_\_\_ 30 ft.  
Material \_\_\_\_\_ PVC Schedule 40
- E Casing Diameter \_\_\_\_\_ 2 in.
- F Depth to Top Perforations \_\_\_\_\_ 18 ft.
- G Perforated Length \_\_\_\_\_ 12 ft.  
Perforated Interval from \_\_\_\_\_ 18 to \_\_\_\_\_ 30 ft. ?  
Perforation Type \_\_\_\_\_ Machine Slot  
Perforation Size \_\_\_\_\_ 0.020 in.
- H Surface Seal from \_\_\_\_\_ 0.0 to \_\_\_\_\_ 1.5 ft.  
Seal Material \_\_\_\_\_ Concrete
- I Backfill from \_\_\_\_\_ 1.5 to \_\_\_\_\_ 14 ft.  
Backfill Material \_\_\_\_\_ Cement Grout
- J Seal from \_\_\_\_\_ 14 to \_\_\_\_\_ 16 ft.  
Seal Material \_\_\_\_\_ Bentonite Pellets
- K Gravel Pack from \_\_\_\_\_ 16 to \_\_\_\_\_ 30 ft.  
Pack Material \_\_\_\_\_ Lonestar #2/12 Sand
- L Bottom Seal \_\_\_\_\_ 3 ft.  
Seal Material \_\_\_\_\_ Native Material

*G.W. @ 7-11.7'*

*will be drilled out ~~and~~ no*

M \_\_\_\_\_  
\_\_\_\_\_



Well Construction Detail

WELL NO.

**C-1**

JOB NUMBER  
7263

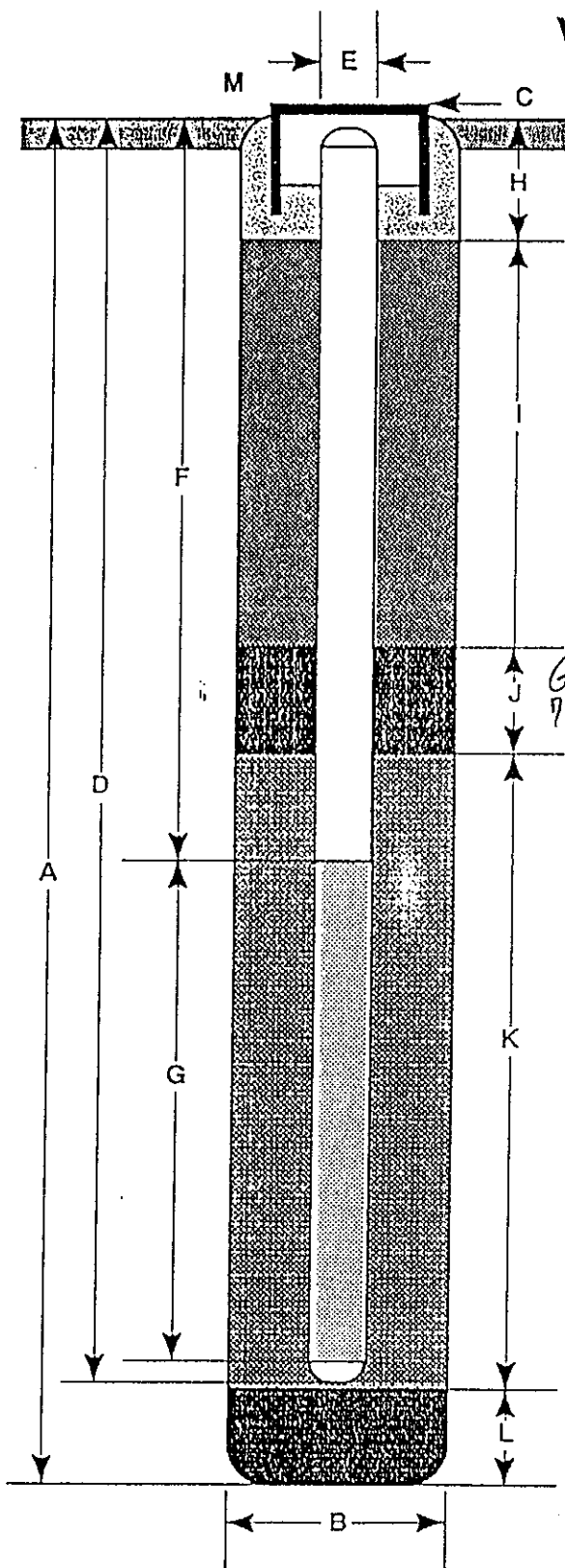
REVIEWED BY RG/CEG

DATE  
11/89

REVISED DATE

REVISED DATE

# WELL CONSTRUCTION DETAIL



- A Total Depth of Boring \_\_\_\_\_ 32.5 ft.
- B Diameter of Boring \_\_\_\_\_ 8 in.  
Drilling Method \_\_\_\_\_ Hollow-Stem Auger
- C Top of Box Elevation \_\_\_\_\_ 124.92 ft.  
 Referenced to Mean Sea Level  
 Referenced to Project Datum
- D Casing Length \_\_\_\_\_ 28.5 ft.  
Material \_\_\_\_\_ PVC Schedule 40
- E Casing Diameter \_\_\_\_\_ 2 in.
- F Depth to Top Perforations \_\_\_\_\_ 10 ft.
- G Perforated Length \_\_\_\_\_ 18.5 ft.  
Perforated Interval from \_\_\_\_\_ 10 to \_\_\_\_\_ 28.5 ft.?  
Perforation Type \_\_\_\_\_ Machine Slot  
Perforation Size \_\_\_\_\_ 0.020 in.
- H Surface Seal from \_\_\_\_\_ 0.0 to \_\_\_\_\_ 1.5 ft.  
Seal Material \_\_\_\_\_ Concrete
- I Backfill from \_\_\_\_\_ 1.5 to \_\_\_\_\_ 6 ft.  
Backfill Material \_\_\_\_\_ Cement Grout
- J Seal from \_\_\_\_\_ 6 to \_\_\_\_\_ 8 ft.  
Seal Material \_\_\_\_\_ Bentonite Pellets
- K Gravel Pack from \_\_\_\_\_ 8 to \_\_\_\_\_ 28.5 ft.  
Pack Material \_\_\_\_\_ Lonestar #2/12 Sand
- L Bottom Seal \_\_\_\_\_ 4 ft.  
Seal Material \_\_\_\_\_ Native Material
- M \_\_\_\_\_

G.W. @  
7-11.3'

*Will be drilled out.*



GeoStrategies Inc.

Well Construction Detail

WELL NO.

**C-2**

JOB NUMBER  
7263

REVIEWED BY RG/CEG

DATE  
11/89

REVISED DATE

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