Ultramar

Ultramar, Inc.
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January 5, 1996

Ms. Eva Chu
Department of Environmental Health
Alameda County Health Care Services
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

SUBJECT: BEACON STATION NO. 604, 1619 FIRST STREET, LIVERMORE, CALIFORNIA

Dear Ms. Chu:

Enclosed is a copy of the report on the installation of the vapor extraction/air sparging wells at the above-referenced Ultramar facility.

Construction of the remediation system has begun and it is anticipated that the system will begin operation some time in February 1996.

Please call if you have any questions regarding this site.

Sincerely,

ULTRAMAR INC.

Terrence A. Fox
Senior Project Manager
Marketing Environmental Department

cc: Mr. Cecil Fox, San Francisco Bay Region, RWQCB
Mr. Jim Ellis, Ellis Partners Inc., 351 California Street, Suite 1120, San Francisco, CA 94104

GCL
Environmental Science and Engineering
A BDM International Company

11501 Dublin Blvd., Ste. 200 • Dublin, CA 94568
(510) 551-5011 • FAX: (510) 551-5023

January 03, 1996

Mr. Terrence A Fox, Senior Project Manger
Ultramar Inc.
525 West Third Street
Hanford, CA 93230

Reference: Letter Report for Remedial Groundwater Well Installation

Dear Mr. Fox:

Introduction

Geoscience Consultants Ltd. (GCL) has been authorized by Ultramar Inc. to proceed with the implementation stage of the Remedial Action Plan (RAP) for the Beacon Gasoline Station No. 604 located at 1619 West First Street, Livermore, California. This station is located at the southeast corner of First and South P Streets. The area surrounding this site consist of commercial and residential properties. A site map of the area is provided in Figure 1.

This report summarizes the results of the well installation phase of the RAP prepared for the Alameda County Department of Environmental Health, Division of Environmental Protection. The wells to be installed are dual-completion type and used for air sparging and vapor extraction. A total of 27 dual-completion groundwater remediation wells were installed. Seven of these wells are located on the Beacon Gasoline Station property. The remaining 20 wells are located in the parking lot of the Livermore Arcade Shopping Center. The shopping center is located across the street and northwest of the Beacon Gasoline Station. A map showing the location of these wells is provided in Figure 2.

Well Drilling

Between September 26, and October 17, 1995, a total of 27 soil borings were drilled by GCL with the subsequent installation of dual-completion groundwater air sparging and vapor extraction wells. Seven dual-completion wells were installed at the Beacon Gasoline Station No. 604 (Figure 3), and 20 dual-completion wells were installed in the parking lot of Livermore Arcade Shopping Center (Figure 4).

The wells were drilled by West Hazmat Drilling Company, a licensed drilling contractor. West Hazmat Drilling Company used a Mobile CME-75 truck mounted hollow stem auger drilling rig. Each drilling rig also has a self-contained decontamination trailer to efficiently decontaminate the drilling equipment and well materials after each well boring.

The borings were drilled using a 12-inch auger to a depth of approximately 65 feet. An on-site geologist visually inspected and classified the soil using the "Unified Soil Classification System." Soil recovery, lithology color, odor and photoionization detection (PID) measurements, moisture, and condition of the recovered core samples were recorded on geologic lithology logs. A geologic lithology log for each well is provided in Attachment A.

Waste Disposal

The soil from each boring was placed in covered steel bins. A total of seven bins for the Beacon Gasoline Station and Livermore Arcade Shopping Center parking lot were used to store the boring materials. Representative soil samples were taken for each bin and analyzed for BTEX (benzene, toluene, ethylbenzene, and xylene) and total petroleum hydrocarbon - gasoline (TPH-G). These soil samples were taken to the laboratory in coolers and under chain of custody.

The analytical results for the soil in the bins varied from below detectable limits (ND) to 0.0209 ppm (parts per million) for benzene, ND to 0.00804 ppm for toluene, ND to 0.0522 ppm for ethylbenzene, ND to 0.363 ppm for xylene. The TPH-G varied from ND to 5.03 ppm. A composite lead samples was taken from the bins. This soil sample showed a lead concentration of 0.170 ppm. Analytical results are provided in Attachment B.

The soil boring waste materials were properly disposed of in a landfill accepting these materials. The water used for decontamination was disposed of to the City of Livermore sanitary sewer system under GCL disposal permit. Where?

Well Installation

Dual-completion groundwater remediation wells were installed in conjunction with the completion of each soil boring. The air sparging well consist of a 1-inch galvanized air injection pipe equipped with a 1-foot porous ceramic fine bubble diffuser at its end. The depth of the air sparging wells were approximately 65 feet below grade level. The vapor

extraction well consist of a 2-inch PVC casing with a 5-foot 0.020-inch slotted well screen. The total depth of these wells were approximately 25 feet below grade level.

The dual-completion wells were back filled with Lonestar 32/12 silica sand, 3/8-inch bentonite pellets, and cement grout as appropriate. Completion of these wells were in accordance to the specification set forth by the Alameda County Flood Control and Water Conservation District, Zone 7 Drilling Permit No. 95589 (dated September 13, 1995) requirements. Well installation details for each boring is provided in Attachment C.

Sincerely,

O. Leon Crain, REA
Project Manager

Attachments

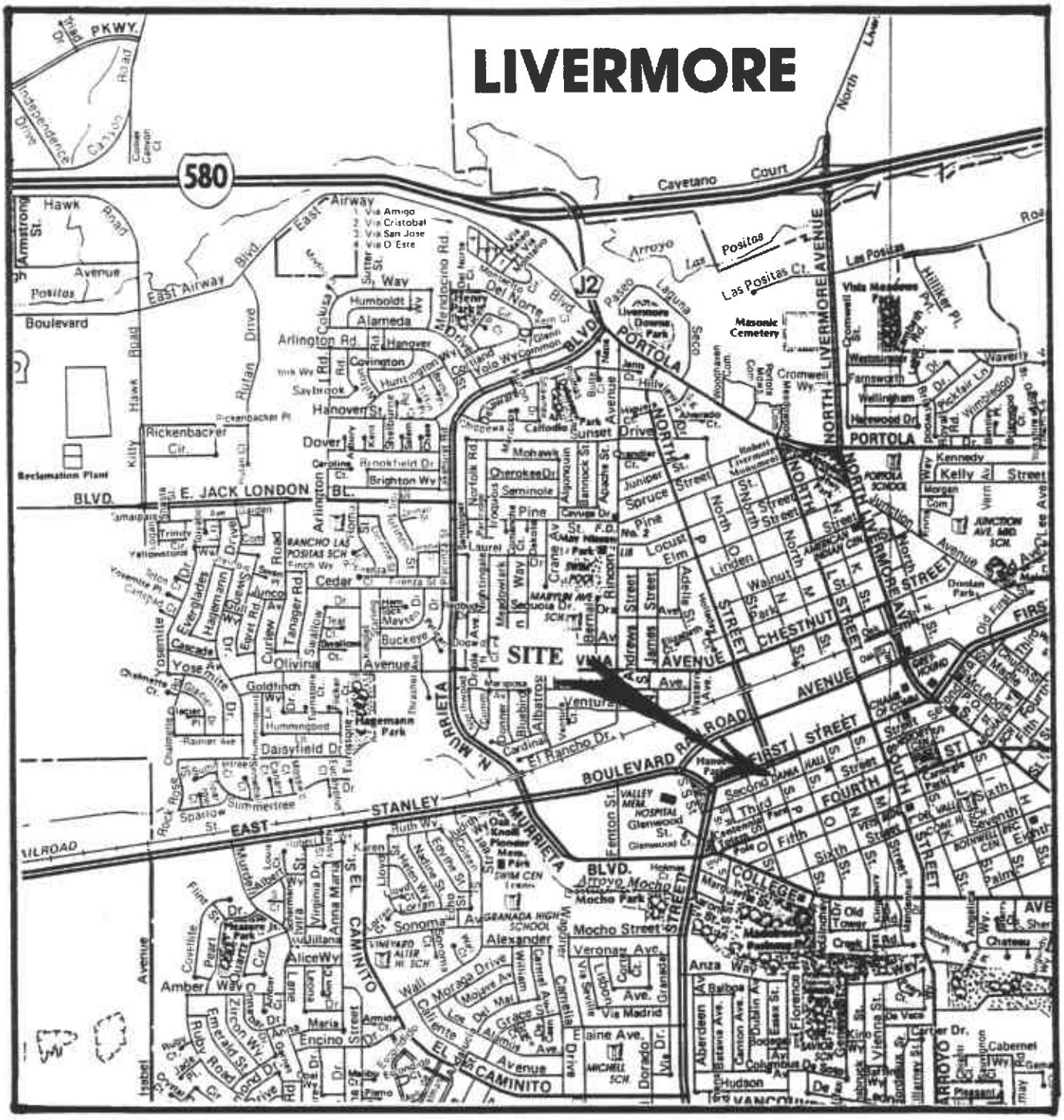


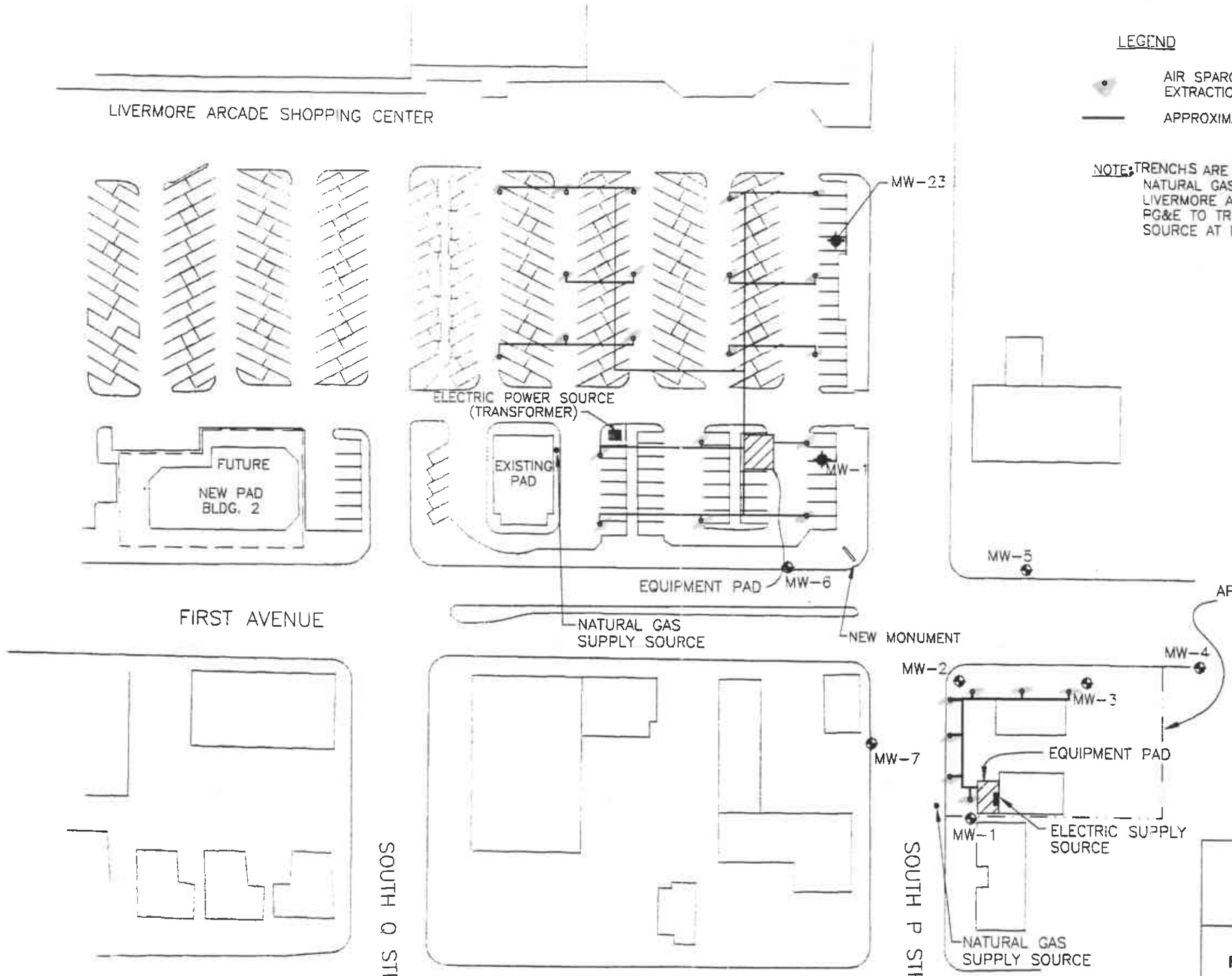
Figure 1
Street Map Marking the of the 1619 First Street, Livermore, CA Remediation System

LEGEND

AIR SPARGING VACUUM AND EXTRACTION WELL NEST LOCATION

APPROXIMATE LOCATION OF TRENCHS

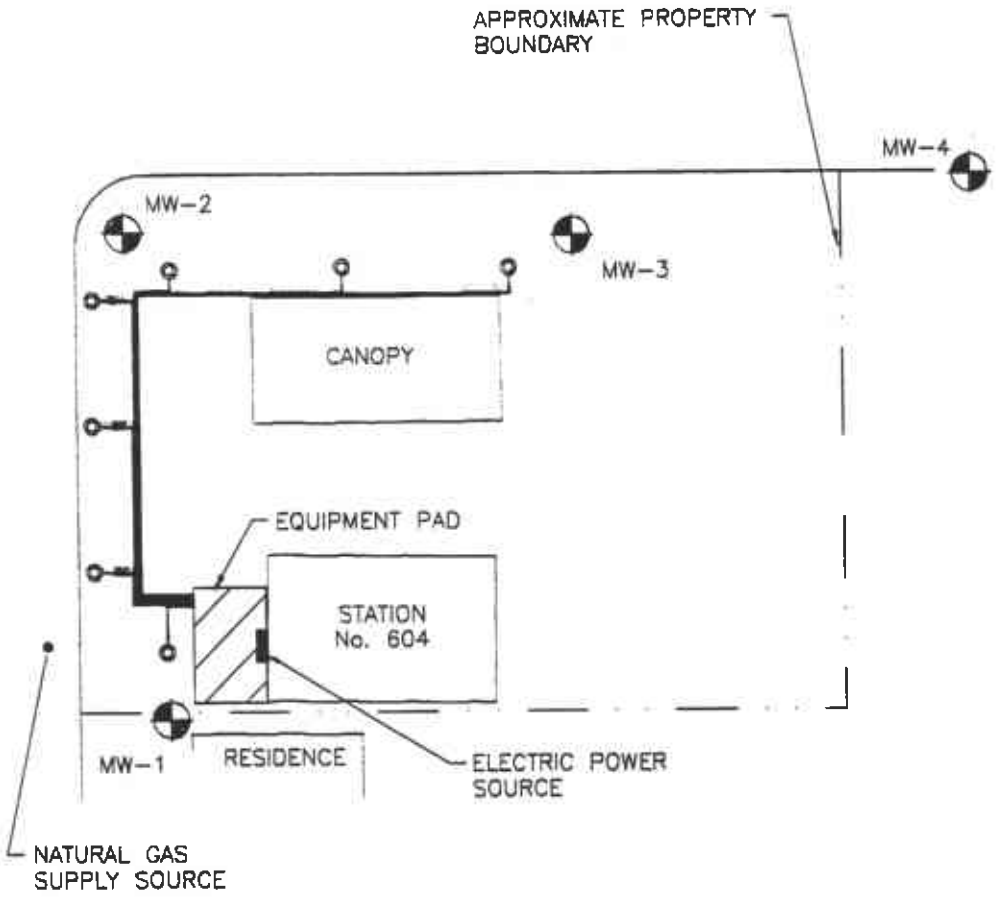
NOTE: TRENCHS ARE NEEDED FROM ELECTRIC POWER AND NATURAL GAS SUPPLY SOURCE AT THE LIVERMORE ARCADE SHOPPING CENTER. PG&E TO TRENCH THE NATURAL GAS SUPPLY SOURCE AT BEACON STATION LOCATION.



GCL

Figure 2
REMEDIATION SYSTEM SITE MAP FOR BEACON STATION No. 604

CLIENT: ULTRAMAR	
AUTHOR: JEF	DATE: 9/12/95
DRAWN BY: MP	REV. NO.: 3
CHECKED BY: DDG	FILE: ULTRA1B.DWG



LEGEND

- WELL NEST LOCATION
- AIR SPARGING AND VAPOR EXTRACTION LINES
- APPROXIMATE TRENCH BOUNDARY

NOTE:
1. TYPICAL NUMBER OF LINES FOR AIR SPARGING AND VAPOR EXTRACTION SYSTEM
2. PG&E TO TRENCH THE NATURAL GAS SUPPLY SOURCE AND INSTALL METER AT ENCLOSURE.

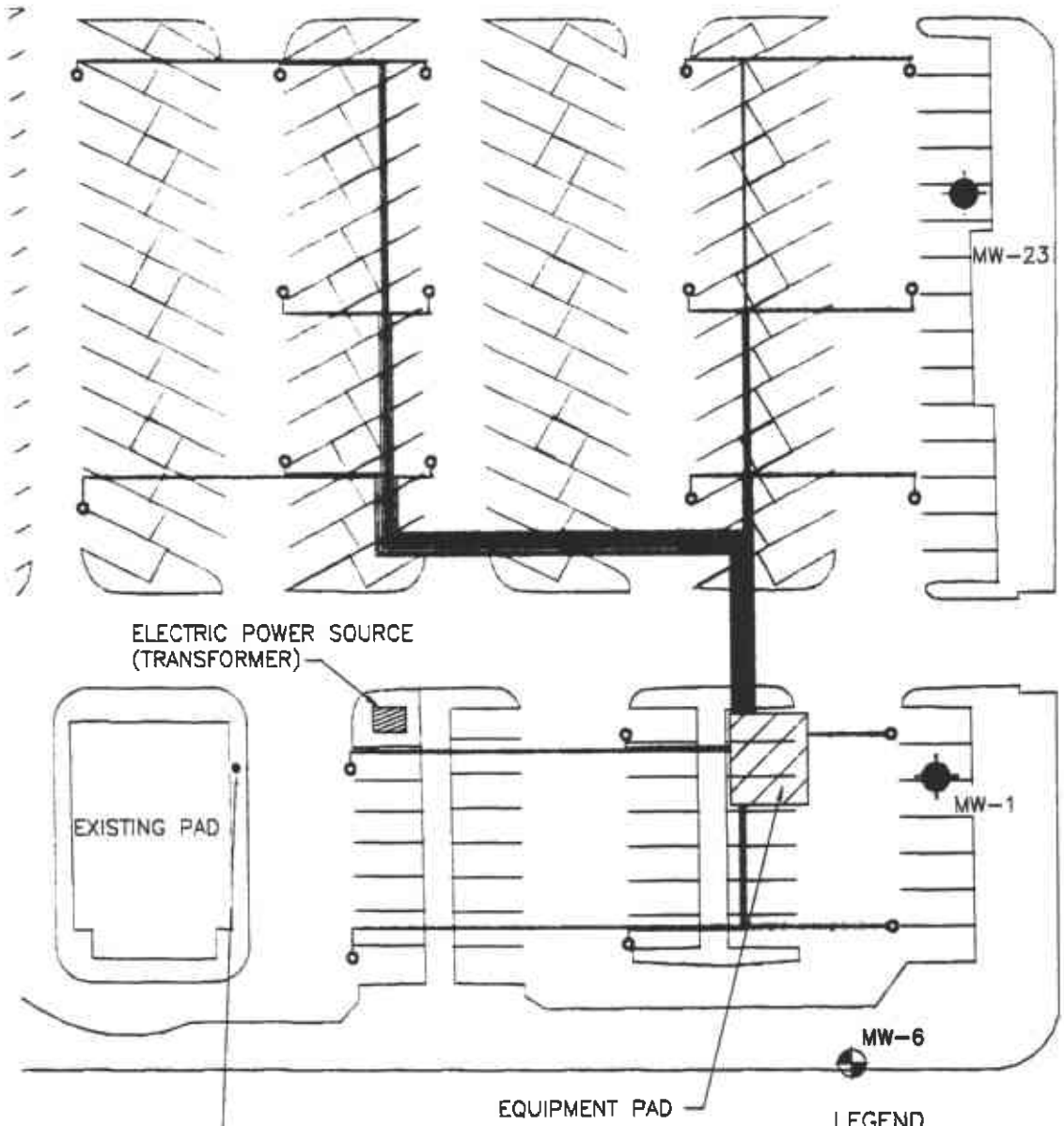
0 40'

SCALE: 1" = 40'

GCL

CLIENT: ULTRAMAR	
DATE: 9/12/95	REV. NO.: 2
AUTHOR: JEF	DRAWN BY: MP
CK'D BY: DDG	FILE: ULTRA1A

Figure 3
AIR SPARGING AND VAPOR EXTRACTION LAYOUT FOR BEACON SITE BEACON STATION No. 604



LEGEND

- WELL NEST LOCATION
- AIR SPARGING AND VAPOR EXTRACTION LINES
- APPROXIMATE TRENCH BOUNDARY

NOTE:
1. TYPICAL NUMBER OF LINES FOR AIR SPARGING AND VAPOR EXTRACTION SYSTEM
2. TRENCHS ARE REQUIRED FOR ELECTRIC POWER AND NATURAL GAS SUPPLY SOURCE. THE TRENCH USED FOR THE VAPOR EXTRACTION/ AIR SPARGING SOURCE CAN BE USED FOR ONE OF THE SOURCES BUT A SEPERATE TRENCH WILL BE NEEDED FOR THE OTHER SOURCE.

0 50'

SCALE: 1" = 40'

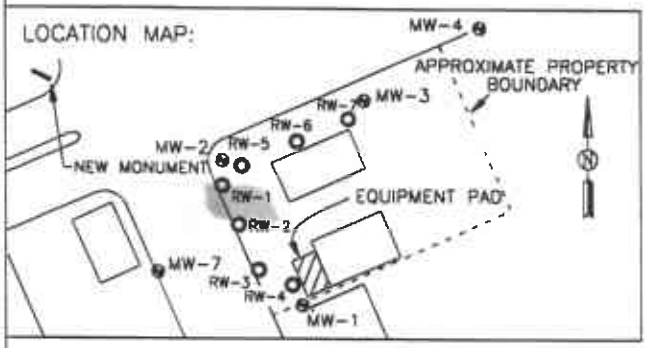
GCL

CLIENT: ULTRAMAR	
DATE: 9/12/95	REV. NO.: 2
AUTHOR: JEF	DRAWN BY: MP
CK'D BY: DDG	FILE: ULTRA1A

Figure 4
AIR SPARGING AND VAPOR EXTRACTION LAYOUT FOR SAFEWAY SITE BEACON STATION No. 604

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-1
SURVEY LOCATION:

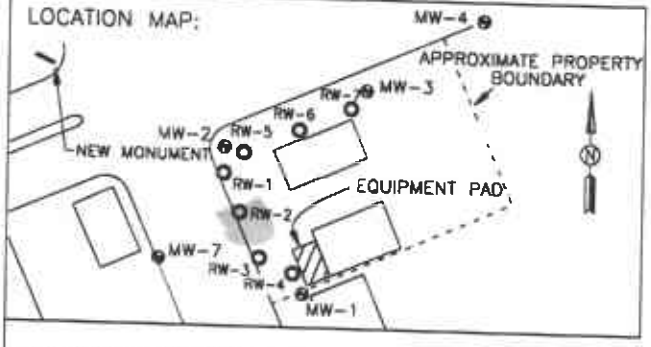
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10/17/95 DATE COMPLETED: 10/17/95
FIELD REP.: DALE LITTLEJOHN (GCL)
COMMENTS:

LOCATION DESCRIPTION:

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	11 ppm	LITHOLOGY FOR RW-1 IS VERY SIMILAR TO RW-27
10				9	10	DRY	22 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	2 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	4 ppm	
			GC	24	25	SL. MOIST	27 ppm	
30				29	30	SL. MOIST	14 ppm	
				34	35	SL. MOIST	70 ppm	
40				39	40	SL. MOIST	21 ppm	
				44	45	SL. MOIST	37 ppm	
								45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	MOIST	29 ppm	
			GM	54	55	MOIST	138 ppm	
60				59	60	WET	24 ppm	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: [redacted]
SURVEY LOCATION:

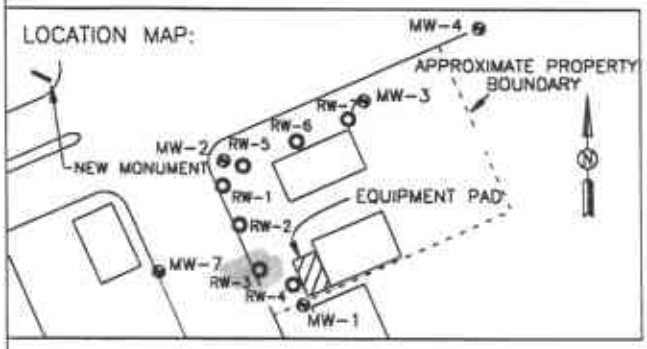
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10/17/95 DATE COMPLETED: 10/17/95
FIELD REP.: DALE LITTLEJOHN (GCL)
COMMENTS:

LOCATION DESCRIPTION:

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	SAMPLE FROM	SAMPLE TO	SAMPLE MOISTURE CONTENT	SAMPLE PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-2 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	1 ppm	
			GC	24	25	SL. MOIST	8 ppm	9-15'
30				29	30	SL. MOIST	16 ppm	• GRAVEL LAYER ENCOUNTERED SIMILAR TO RW-3
				34	35	SL. MOIST	28 ppm	
40				39	40	SL. MOIST	31 ppm	
				44	45	SL. MOIST	210 ppm	
50				49	50	MOIST	348 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
			GM	54	55	MOIST	256 ppm	
60				59	60	MOIST	471 ppm	
				64	65	WET	168 ppm	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-3
SURVEY LOCATION:

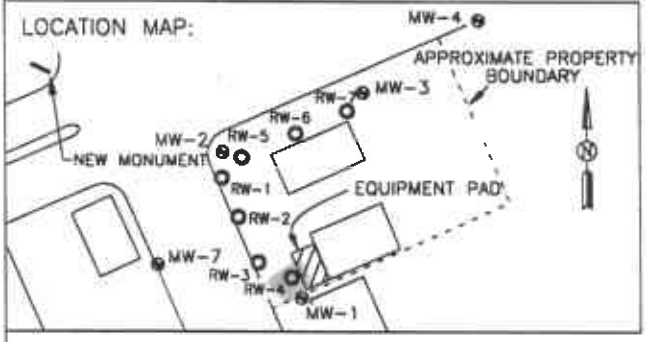
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10/13/95 DATE COMPLETED: 10/13/95
FIELD REP.: DALE LITTLEJOHN (GCL)
COMMENTS:

LOCATION DESCRIPTION: RW-03 LOCATED NEAR SOUTHERN END OF NW FLOWERBED AT ULTRA-MART

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	38 ppm	LITHOLOGY FOR RW-3 IS VERY SIMILAR TO RW-27 EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS. 0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND. * LARGE GRAVEL AT 4-18' NOT SEEN IN OTHER BORINGS GRAVEL DECREASES IN SIZE W/ DEPTH NO CLAY OR SAND OBSERVED.
10				9	10	DRY	52 ppm	
				14	15	DRY	42 ppm	
20				19	20	SL. MOIST	340 ppm	
			GC	24	25	SL. MOIST	567 ppm	
30				29	30	SL. MOIST	565 ppm	
				34	35	SL. MOIST	568 ppm	
40				39	40	SL. MOIST	567 ppm	
				44	45	SL. MOIST	569 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	SL. MOIST	568 ppm	
			GM	54	55	SL. MOIST	570 ppm	
60				59	60	SL. MOIST	570 ppm	
				64	65	WET	571 ppm	BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-4
SURVEY LOCATION:

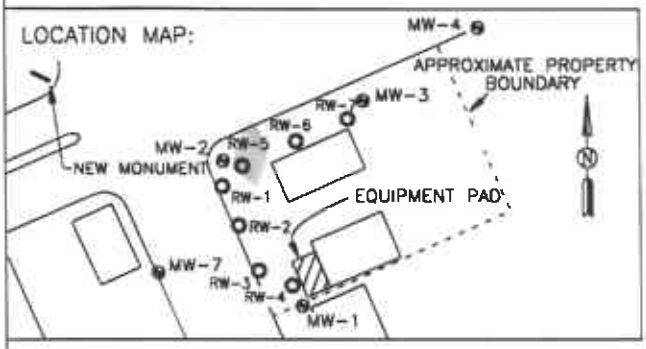
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10/12/95 DATE COMPLETED: 10/12/95
FIELD REP.: DALE LITTLEJOHN (GCL)
COMMENTS:

LOCATION DESCRIPTION: RW-04 LOCATED IN FLOWERBED ON NORTHWEST EDGE OF ULTRA-MART

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	29 ppm	LITHOLOGY FOR RW-4 IS VERY SIMILAR TO RW-27
								EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
10				9	10	DRY	46 ppm	
				14	15	DRY	47 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	SL. MOIST	45 ppm	
			GC	24	25	SL. MOIST	208 ppm	
30				29	30	SL. MOIST	427 ppm	
				34	35	SL. MOIST	391 ppm	
40				39	40	SL. MOIST	569 ppm	
				44	45	WET	427 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	WET	444 ppm	
			GM	54	55	V. MOIST	571 ppm	
60				59	60	WET	443 ppm	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-5
SURVEY LOCATION:

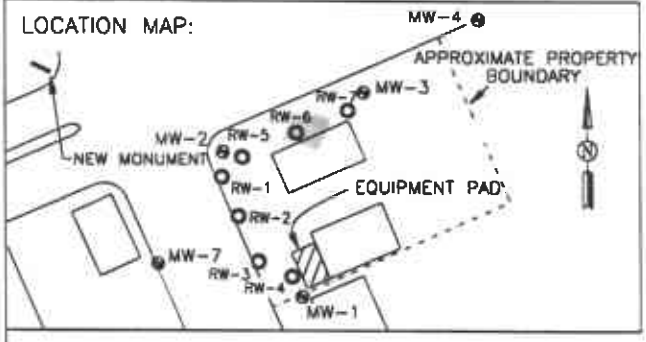
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10/12/95 DATE COMPLETED: 10/12/95
FIELD REP.: DALE LITTLEJOHN (GLC)
COMMENTS:

LOCATION DESCRIPTION:

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	7 ppm	LITHOLOGY FOR RW-5 IS VERY SIMILAR TO RW-27
10				9	10	DRY	3 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	17 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	SL. MOIST	145 ppm	
			GC	24	25	SL. MOIST	233 ppm	
30				29	30	SL. MOIST	344 ppm	
				34	35	SL. MOIST	141 ppm	
40				39	40	SL. MOIST	267 ppm	
				44	45	SL. MOIST	564 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	MOIST	567 ppm	
			GM	54	55	MOIST	568 ppm	
60				59	60	V. MOIST	568 ppm	
				64	65			BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: [redacted]
SURVEY LOCATION:

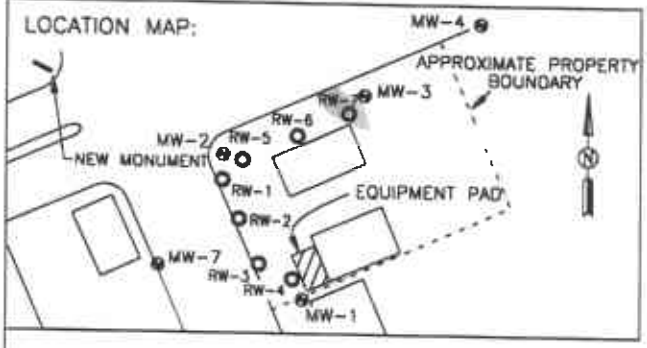
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10/11/95 DATE COMPLETED: 10/11/95
FIELD REP.: DALE LITTLEJOHN (GCL)
COMMENTS:

LOCATION DESCRIPTION: RW-6 LOCATED ADJACENT TO NORTH END OF EAST PUMP ISLAND

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-6 IS VERY SIMILAR TO RW-27
								EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
10				9	10	DRY	0 ppm	
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	DRY	0 ppm	
30				29	30	DRY	0 ppm	
				34	35	DRY	1 ppm	
40				39	40	SL. MOIST	2 ppm	
				44	45	MOIST	10 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	MOIST	0 ppm	
			GM	54	55	WET	33 ppm	
60				59	60	WET	18 ppm	
				64	65	WET	NR	BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



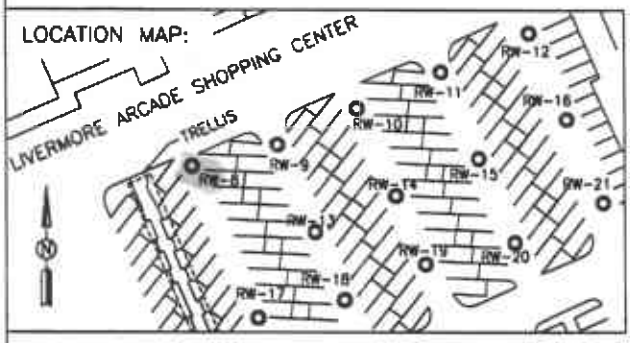
CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-7
SURVEY LOCATION:

STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10/11/95 DATE COMPLETED: 10/11/95
FIELD REP.: DALE LITTLEJOHN (GCL)
COMMENTS:

LOCATION DESCRIPTION: RW-7 LOCATED NEAR NORTHEAST CORNER OF ULTRAMART SERVICE STATION

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-7 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	MOIST	0 ppm	
			GC	24	25	MOIST	0 ppm	
30				29	30	MOIST	0 ppm	
				34	35	MOIST	0 ppm	
40				39	40	MOIST	0 ppm	
				44	45	V. MOIST	4 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	MOIST	0 ppm	
			GM	54	55	MOIST	0 ppm	
60				59	60	WET	0 ppm	
				64	65	WET		BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-8
SURVEY LOCATION:

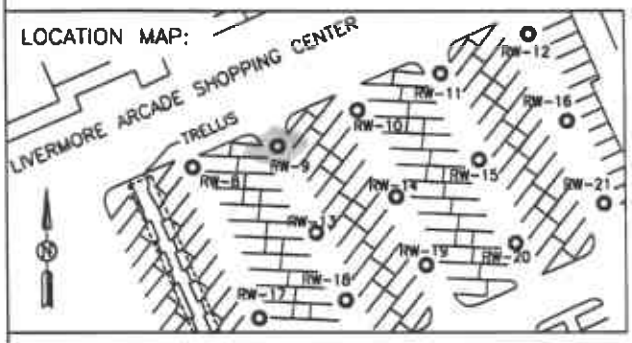
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-5-95 DATE COMPLETED: 10-5-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: ROUND TABLE PIZZA PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-8 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	MOIST	0 ppm	
30				29	30	MOIST	0 ppm	
				34	35	MOIST	0 ppm	
				39	40	MOIST	0 ppm	
40				44	45	DAMP	0 ppm	
								45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	DAMP	0 ppm	
			GM	54	55	DAMP	0 ppm	
60				59	60	DAMP	0 ppm	
				64	65	WET	4 ppm	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-9
SURVEY LOCATION:

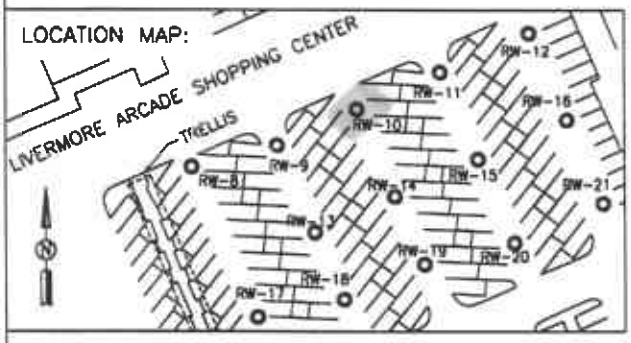
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-4-95 DATE COMPLETED: 10-4-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-9 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	MOIST	5 ppm	
30				29	30	MOIST	4 ppm	
				34	35	MOIST	0 ppm	
				39	40	MOIST	0 ppm	
40				44	45	MOIST	0 ppm	
								45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	MOIST	4 ppm	
			GM	54	55	WET	196 ppm	
60				59	60	WET	94 ppm	
				64	65	WET	176 ppm	BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG (SPLIT SPOON)

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-10
SURVEY LOCATION:

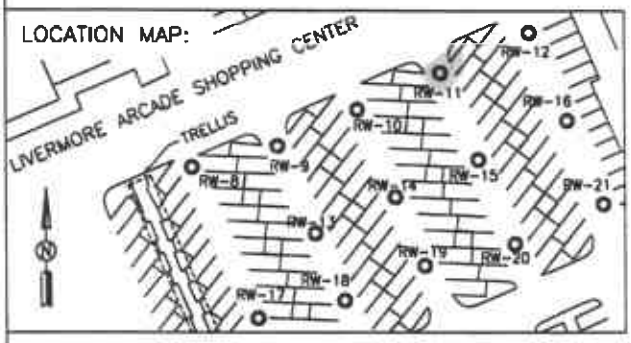
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 9-25-95 DATE COMPLETED: 9-26-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS: EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	% REC	BLOW-COUNT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
									0-0.5' ASPHALT COVER
			GP	4.5	6	25	50	0 ppm	0.5-13' SILTY CLAYEY GRAVEL, DARK YELLOW BROWN (10 YR 4/2), APPROXIMATELY 60% GRAVEL (2-40 mm), SUBROUNDED, POORLY SORTED, 20% SILT, 20% CLAY, DRY, UNCONSOLIDATED.
10				9.5	11	50	28 50	0 ppm	
				14.5	16	60	38 50	0 ppm	13-32' SILTY GRAVELLY CLAY, MODERATE YELLOWISH-BROWN (10 YR 5/4), APPROXIMATELY 30-50% CLAY, 20-30% SILT, AND 20-30% GRAVEL. CLAY CONTENT DECREASES AND GRAVEL CONTENT INCREASES WITH DEPTH.
20				19.5	21	100	10 14 16	0 ppm	
				24.5	26	100	7 9 20	0 ppm	
30				29.5	31	100	5 5 7	0 ppm	
				34.5	36	80	17 34 50	0 ppm	32-40' GRAVELLY SILTY CLAY, DARK YELLOWISH-BROWN (10 YR 4/2), MOIST, APPROXIMATELY 50% CLAY, 40% GRAVEL, 10% SILT.
40			GC	39.5	41	50	41 50	3 ppm	40-45' CLAYEY SANDY GRAVEL, DARK YELLOWISH-BROWN (10 YR 4/2), DAMP, UNCONSOLIDATED. APPROXIMATELY 50% GRAVEL, 30% CLAY , 20% SAND.
				44.5	46	30	50	6 ppm	45-65' SANDY CLAYEY GRAVEL, MODERATE OLIVE-BROWN (5 YR 3/2), WET, UNCONSOLIDATED. APPROXIMATELY 50-70% GRAVEL, 10-20% SAND, AND 10-20% CLAY.
50				49.5	51	25	50	19 ppm	CLAY CONTENT DECREASES AND GRAVEL CONTENT INCREASES WITH DEPTH.
				54.5	56	20	21 50	373 ppm	
60				59.5	61	20	7 28 43	382 ppm	
									BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: [redacted]-11
SURVEY LOCATION:

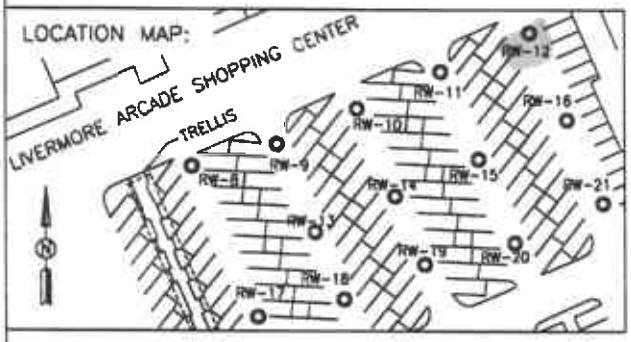
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: DATE COMPLETED:
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-11 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF INGEUOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	DRY	0 ppm	
30				29	30	MOIST	0 ppm	
				34	35	MOIST	6 ppm	
				39	40	MOIST	0 ppm	
40				44	45	DAMP	0 ppm	
								45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	DAMP	0 ppm	
			GM	54	55	WET	0 ppm	
60				59	60	WET	0 ppm	
				64	65	WET	0 ppm	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-12
SURVEY LOCATION:

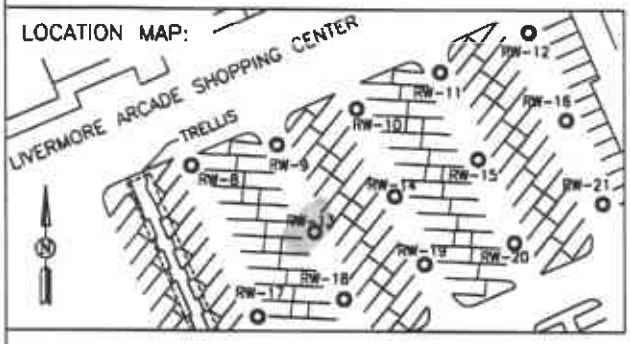
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-2-95 DATE COMPLETED: 10-2-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-12 IS VERY SIMILAR TO RW-27
								EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
10				9	10	DRY	0 ppm	
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	MOIST	0 ppm	
			GC	24	25	MOIST	0 ppm	
30				29	30	MOIST	0 ppm	
				34	35	MOIST	0 ppm	
40				39	40	MOIST	0 ppm	
				44	45	DAMP	0 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	WET	0 ppm	
			GM	54	55	WET	0 ppm	
60				59	60	WET	0 ppm	
				64	65	WET	0 ppm	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-13
SURVEY LOCATION:

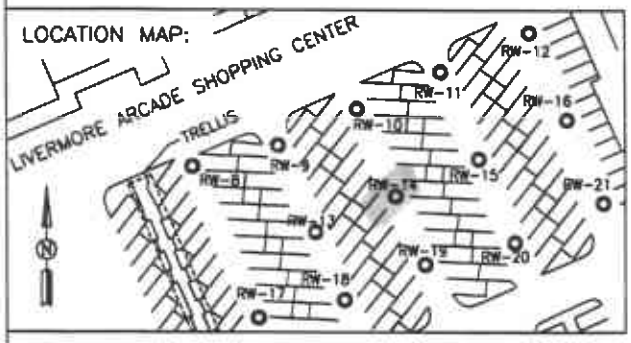
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 9-28-95 DATE COMPLETED: 9-28-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-13 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	DRY	0 ppm	
30				29	30	DRY	0 ppm	
				34	35	MOIST	0 ppm	
40				39	40	MOIST	96 ppm	
				44	45	DAMP	253 ppm	
								45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	WET	36 ppm	
			GM	54	55	WET	37 ppm	
60				59	60	WET	1 ppm	
				64	65	WET	24 ppm	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-14
SURVEY LOCATION:

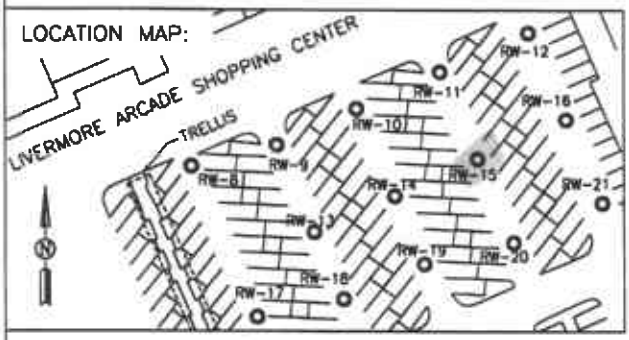
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-4-95 DATE COMPLETED: 10-4-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-14 IS VERY SIMILAR TO RW-27
10				9	10	DRY	2 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	23 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	1 ppm	
			GC	24	25	MOIST	56 ppm	
30				29	30	MOIST	6 ppm	
				34	35	MOIST	214 ppm	
				39	40	MOIST	199 ppm	
40				44	45	WET	73 ppm	
								45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	DAMP	40 ppm	
			GM	54	55	DAMP	61 ppm	
60				59	60	WET	69 ppm	
				64	65	WET	138 ppm	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



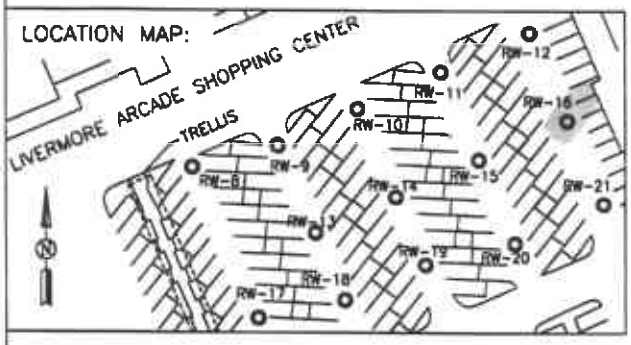
CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-15
SURVEY LOCATION:
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-9-95 DATE COMPLETED: 10-9-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: WELL LOCATED IN SAFEWAY PARKING LOT SOUTH OF RW-11; WEST OF RW-16

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-15 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	SL. MOIST	0 ppm	
			GC	24	25	MOIST	0 ppm	
30				29	30	MOIST	0 ppm	
				34	35	WET	0 ppm	
40				39	40	SL. MOIST	0 ppm	
				44	45	SL. MOIST	0 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	SL. MOIST	0 ppm	
			GM	54	55	SL. MOIST	0 ppm	
60				59	60	WET	0 ppm	
				64	65			BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



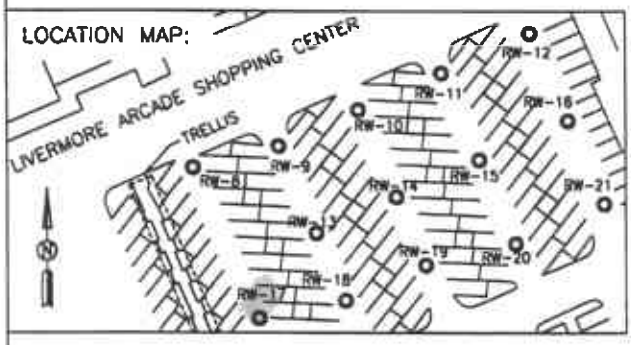
CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-16
SURVEY LOCATION:

STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-6-95 DATE COMPLETED: 10-6-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-16 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	MOIST	0 ppm	
30				29	30	MOIST	0 ppm	
				34	35	DAMP	0 ppm	
40				39	40	DAMP	2 ppm	
				44	45	MOIST	0 ppm	
								45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	MOIST	0 ppm	
			GM	54	55	MOIST	0 ppm	
60				59	60	WET	7 ppm	
				64	65	WET	37 ppm	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-17
SURVEY LOCATION:

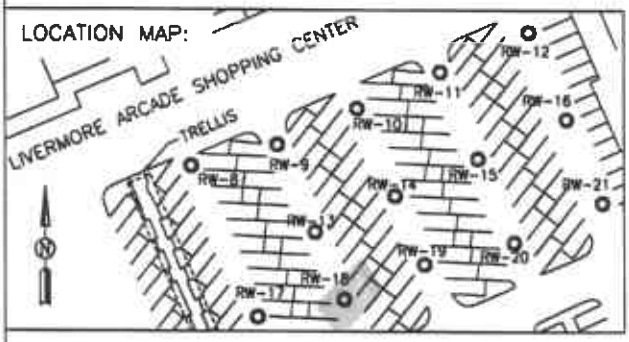
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-3-95 DATE COMPLETED: 10-3-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-17 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	MOIST	0 ppm	
30				29	30	MOIST	0 ppm	
				34	35	MOIST	0 ppm	
40				39	40	MOIST	0 ppm	
				44	45	DAMP	0 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	WET	0 ppm	
			GM	54	55	WET	0 ppm	
60				59	60	WET	0 ppm	
				64	65	WET	0 ppm	BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-18
SURVEY LOCATION:

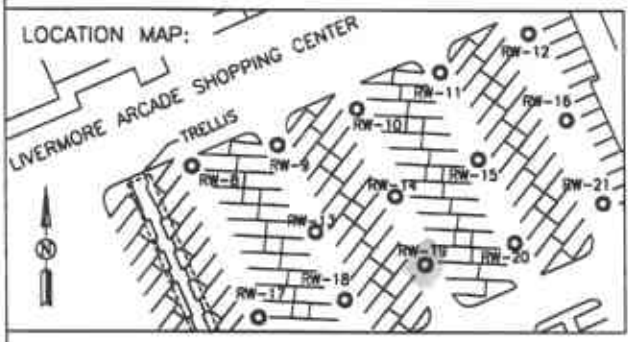
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 9-27-95 DATE COMPLETED: 9-27-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	NR	LITHOLOGY FOR RW-18 IS VERY SIMILAR TO RW-27 EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
10				9	10	DRY	NR	
				14	15	DRY	NR	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	NR	
			GC	24	25	MOIST	NR	
30				29	30	MOIST	NR	
				34	35	MOIST	NR	
40				39	40	MOIST	NR	
				44	45	DAMP	NR	
				49	50	WET	NR	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50								
			GM	54	55	WET	NR	
60				59	60	WET	NR	
				64	65	WET	NR	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-19
SURVEY LOCATION:

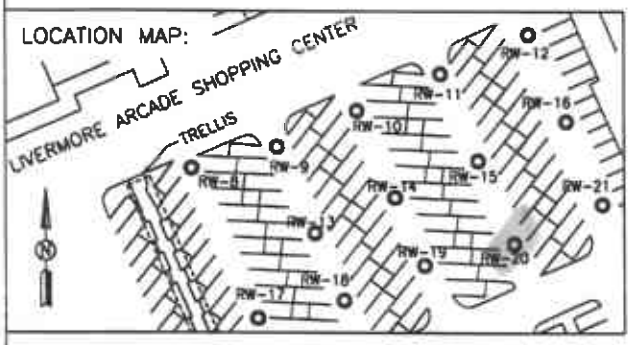
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 9-27-95 DATE COMPLETED: 9-27-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-19 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	MOIST	0 ppm	
30				29	30	MOIST	0 ppm	
				34	35	MOIST	5 ppm	
40				39	40	DAMP	0 ppm	
				44	45	DAMP	0 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	WET	1 ppm	
			GM	54	55	WET	0 ppm	
60				59	60	WET	0 ppm	
				64	65	WET	92 ppm	BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-20
SURVEY LOCATION:

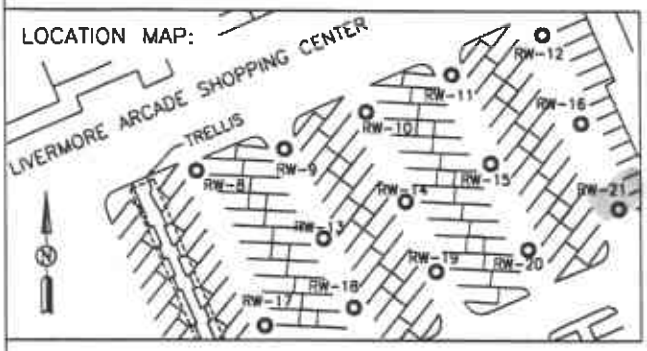
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-5-95 DATE COMPLETED: 10-5-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-20 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	MOIST	0 ppm	
30				29	30	MOIST	21 ppm	
				34	35	MOIST	0 ppm	
40				39	40	DAMP	0 ppm	
				44	45	DAMP	12 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	WET	6 ppm	
			GM	54	55	WET	33 ppm	
60				59	60	WET	16 ppm	
				64	65	WET	199 ppm	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-21
SURVEY LOCATION:

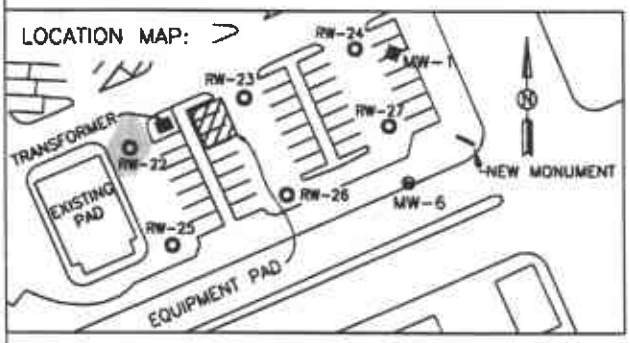
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-6-95 DATE COMPLETED: 10-6-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-20 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	MOIST	0 ppm	
30				29	30	MOIST	0 ppm	
				34	35	DAMP	0 ppm	
40				39	40	DAMP	0 ppm	
				44	45	MOIST	0 ppm	
								45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	MOIST	0 ppm	
			GM	54	55	WET	10 ppm	
60				59	60	WET	11 ppm	
				64	65	WET	40 ppm	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-22
SURVEY LOCATION:

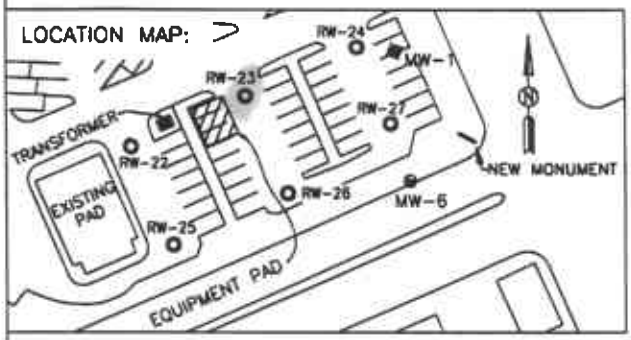
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-16-95 DATE COMPLETED: 10-16-95
FIELD REP.: DALE LITTLEJOHN (GCL)
COMMENTS:

LOCATION DESCRIPTION: RW-22 LOCATED IN NORTHEAST CORNER OF BANK PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-22 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	DRY	0 ppm	
30				29	30	DRY	0 ppm	
				34	35	DRY	0.4 ppm	
40				39	40	SL. MOIST	10 ppm	
				44	45	SL. MOIST	9 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	WET	3 ppm	
			GM	54	55	WET	0 ppm	
60				59	60	WET	0 ppm	
				64	65	WET	NR	BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-23
SURVEY LOCATION:

STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-10-95 DATE COMPLETED: 10-10-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: LOCATED IN SOUTH-CENTER OF SAFEWAY LOT ON NORTH END

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING
				4	5	DRY	7 ppm
10				9	10	DRY	1 ppm
				14	15	DRY	0 ppm
20				19	20	DRY	2 ppm
			GC	24	25	DRY	9 ppm
30				29	30	SL. MOIST	5 ppm
				34	35	MOIST	31 ppm
40				39	40	MOIST	5 ppm
				44	45	MOIST	13 ppm
50				49	50	WET	7 ppm
			GM	54	55	WET	25 ppm
60				59	60	MOIST	57 ppm
				64	65		

LITHOLOGIC DESCRIPTION
(LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)

0-0.5' ASPHALT COVER

LITHOLOGY FOR RW-23 IS VERY SIMILAR TO RW-27

EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.

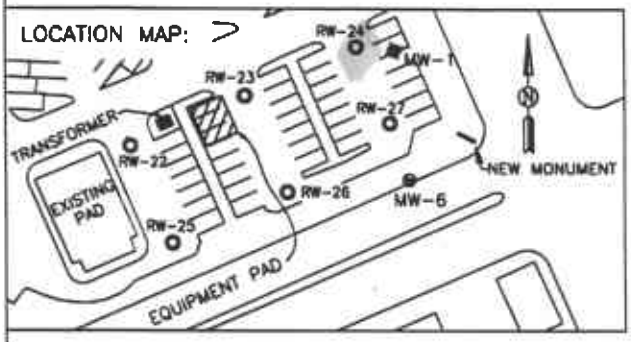
0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.

45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND

BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-24
SURVEY LOCATION:

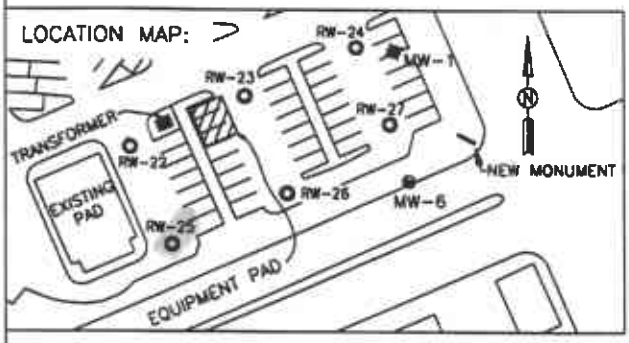
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-3-95 DATE COMPLETED: 10-3-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-24 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	MOIST	0 ppm	
30				29	30	MOIST	0 ppm	
				34	35	MOIST	0 ppm	
40				39	40	MOIST	0 ppm	
				44	45	DAMP	0 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	WET	0 ppm	
			GM	54	55	WET	0 ppm	
60				59	60	WET	0 ppm	
				64	65	WET	0 ppm	BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-25
SURVEY LOCATION:

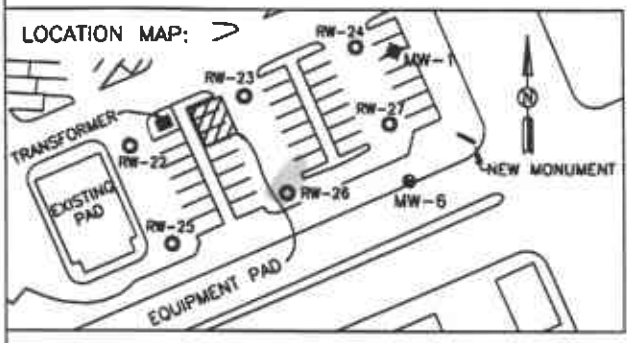
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 10-16-95 DATE COMPLETED: 10-16-95
FIELD REP.: DALE LITTLEJOHN (GCL)
COMMENTS:

LOCATION DESCRIPTION: RW-25 LOCATED IN SOUTHEAST CORNER OF BANK PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-25 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	DRY	0 ppm	
30				29	30	SL. MOIST	0 ppm	
				34	35	SL. MOIST	0 ppm	
40				39	40	SL. MOIST	0 ppm	
				44	45	MOIST	0 ppm	45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	MOIST	0 ppm	
			GM	54	55	MOIST	0 ppm	
60				59	60	WET	0 ppm	
				64	65	WET	0 ppm	BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-26
SURVEY LOCATION:

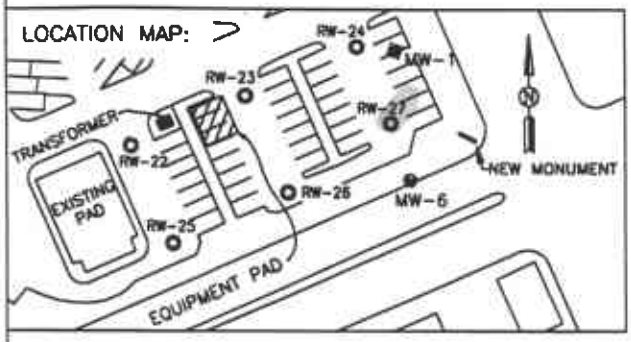
STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL): ~ 465
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 9-28-95 DATE COMPLETED: 9-28-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS:

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	MOISTURE CONTENT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
								0-0.5' ASPHALT COVER
				4	5	DRY	0 ppm	LITHOLOGY FOR RW-26 IS VERY SIMILAR TO RW-27
10				9	10	DRY	0 ppm	EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES ARE GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT. CONTACTS BELOW ARE ESTIMATED BASED ON SOIL CUTTING SAMPLES FROM AUGER FLIGHTS.
				14	15	DRY	0 ppm	0.5-45' GRAVELLY SANDY CLAY AND CLAYEY SANDY GRAVEL, GRAVEL SIZE RANGES FROM GRANULES (2-4 mm) TO SMALL PEBBLES (4-40 mm). SAND IS POORLY SORTED, MOSTLY MEDIUM TO COARSE-GRAINED, SUB-ANGULAR TO SUB-ROUNDED, AND UNCONSOLIDATED. GRAVEL AND SANDS MULTI-COLORED AND COMPOSED OF IGNEOUS AND METAMORPHIC GRAINS SUCH AS QUARTZITE, FELDSPARS, MICA, AMPHIBOLES AND/OR PYROXENES. CLAY PORTION GENERALLY MODERATE YELLOWISH-BROWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4). APPROXIMATELY 30-60% GRAVEL, 20-50% CLAY, 10-20% SAND.
20				19	20	DRY	0 ppm	
			GC	24	25	DRY	0 ppm	
30				29	30	MOIST	0 ppm	
				34	35	MOIST	0 ppm	
				39	40	MOIST	0 ppm	
40								
				44	45	MOIST	0 ppm	
								45-65' CLAYEY SANDY GRAVEL, CLAY CONTENT DECREASING WITH DEPTH APPROXIMATELY 40-70% GRAVEL, 10-20% CLAY, AND 10-20% SAND
50				49	50	WET	19 ppm	
			GM	54	55	WET	17 ppm	
60				59	60	WET	0 ppm	
				64	65	WET	23 ppm	
								BOTTOM OF BORING AT 65 FEET.

LITHOLOGIC LOG (SPLIT SPOON)

LOCATION MAP:



CLIENT: ULTRAMAR INC.
SITE ID: BEACON STATION NO. 604 LOCATION ID: RW-27
SURVEY LOCATION:

STATE: CALIFORNIA COUNTY: ALAMEDA
GROUND ELEVATION (ft. MSL):
DRILLING METHOD: HOLLOW STEM AUGER
DRILLING CONTR.: WEST HAZMAT DRILLING CORP.
DATE STARTED: 9-25-95 DATE COMPLETED: 9-26-95
FIELD REP.: GIL VAN DEVENTER (GCL)
COMMENTS: EXACT LITHOLOGIC CONTACTS WERE SELDOM OBSERVED AS MOST SEQUENCES GRADATIONAL FROM ONE LITHOLOGIC UNIT TO THE NEXT

LOCATION DESCRIPTION: SAFEWAY PARKING LOT

DEPTH	WELL CONST.	LITH.	SAMPLE USCS	FROM	TO	% REC	BLOW-COUNT	PID READING	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
									0-0.5' ASPHALT COVER
			GC	4.5	6	50	14 18	2 ppm	0.5-18' CLAYEY SANDY GRAVEL, DARK YELLOWISH-BROWN (10 YR 4/2), APPROXIMATELY 60% GRAVEL (2mm-40mm), POORLY SORTED, SUB-ROUNDED) 20% SAND (FINE-TO COARSE GRAINED, POORLY SORTED, SUBANGULAR TO SUBROUNDED), 20% CLAY, UNCONSOLIDATED, DRY.
10				9.5	11	75	8 9 24	0 ppm	
				14.5	16	75	25 22 50	1 ppm	
			GP						18-20' SANDY GRAVELLY CLAY, MODERATE YELLOWISH-BROWN (10 YR 5/4), SOFT, MOIST, APPROXIMATELY 50% CLAY, 30% SAND AND 20% GRAVEL.
20				19.5	21	100	25 12 12	3 ppm	
			GC						20-28' CLAYEY SANDY GRAVEL, MODERATE YELLOWISH-BROWN (10 YR 5/4), MOIST APPROXIMATELY 70% GRAVEL, 20% CLAY, AND 10% SAND
				24.5	26	100	9 37 44	7 ppm	
30				29.5	31	100	14 19 26	152 ppm	28-45' CLAYEY SANDY GRAVEL, LIGHT TO MODERATE OLIVE BROWN (5 YR 4/4), MOIST, APPROXIMATELY 50% GRAVEL, 30% CLAY AND 20% SAND, DAMP.
				34.5	36	50	37 50	37 ppm	SAMPLES WET FROM 35 TO 65 FEET.
			GC						
40				39.5	41	80	21 34 50	33 ppm	
				44.5	46	50	50	266 ppm	
									45-65' CLAYEY SANDY GRAVEL, MODERATE YELLOWISH-BORWN (10 YR 5/4) TO MODERATE OLIVE-BROWN (5 YR 4/4), CLAY CONTENT DECREASING WITH DEPTH. APPROXIMATELY 50-70% GRAVEL, 10-30% CLAY, 10-20% SAND. MODERATE HYDROCARBON ODOR FROM 45-65 FEET.
50				49.5	51	30	47 50	361 ppm	
			GM						
				54.5	56	100	12 17 22	470 ppm	
60				59	60	100	10 16 24	570 ppm	
				64	65				BOTTOM OF BORING AT 65 FEET.

K PRIME, INC.

CONSULTING ANALYTICAL CHEMISTS

4197 Lakeside Dr., Suite 170
Richmond, CA 94806
(510) 222-4815
Fax: 222-4817

TRANSMITTAL

DATE: 10/12/95

TO: Mr. L. Crain
GCL
11501 Dublin Blvd., Suite 200
Dublin, CA 94688

Phone: (510) 551-5011
FAX: (510) 551-5105

Acct#: 100-9411
Project: 2000.006

FROM: Richard A. Kagel, Ph.D. RAK 10/12/95
Laboratory Director

SUBJECT: YOUR PROJECT #2000.006 LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	SAMPLE TYPE	DATE	KPI LAB #
9509281317	SOIL	9/28/95	8463
9509281321	SOIL	9/28/95	8464

These samples were received in our laboratory on 9/28/95 and tested as requested on the attached chain of custody form.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

9411

Attachment B

Analytical Results for Soil Samples

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: ULTRAMAR-BEACON

SAMPLE ID: 9509281317
LAB NO: 8463
SAMPLE TYPE: SOIL
DATE SAMPLED: 9/28/95
TIME SAMPLED: 13:17

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 10/9/95
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 10/9/95
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AS
DATE: 10/10/95

APPROVED BY: RAK
DATE: 10/12/95

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: ULTRAMAR-BEACON

SAMPLE ID: 9509281321
LAB NO: 8464
SAMPLE TYPE: SOIL
DATE SAMPLED: 9/28/95
TIME SAMPLED: 13:21

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 10/9/95
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 10/9/95
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AG
DATE: 10/10/95

APPROVED BY: [illegible]
DATE: 10/12/95

KPI Project # 9411

№ 8026

GCL Environmental Science and Engineering
A BOMI International Company

☐ Albuquerque
505 Marquette NW, Ste. 1100
Albuquerque, NM 87102
(505) 842-0001
FAX: (505) 842-0595

☐ Mid Atlantic Region
4221 Forbes Blvd., Ste. 240
Lanham, MD 20706-4325
(301) 459-9677
FAX: (301) 459-3064

☐ NASA-WSTF
PO Drawer MM
Las Cruces, NM 88004
(505) 524-5353
FAX: (505) 524-5315

Chain of Custody

Date 9-28-95 Page 1 Of 1

Lab Name K PRIME INC
Address 4197 Lakeside Drive
Richmond, CA 94806
Telephone 510-222-4815

Samplers (SIGNATURES) Gil Van Deventer

Analysis Request

Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polynuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415.9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1	TPH/BTEX Modified 8015 (Gas Range)	TCLP - Vol., Semi-Vol. Herbicides, Pesticides	TCLP - Metals	RCRA Metals(8)	Priority Pollutant Metals (13)	CAM Metals (18, TTLC/STLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	KPI Sample #				Number of Containers
9509281317	Soil	Bin 1-1		(BTEX)									✓												81163				1
9509281321	Soil	Bin 1-2											✓												81164				1

Project Information
Project Ultramar-Beacon Station
Project Director O.L. Crain
Charge Code No. 3121-002
Shipping ID. No. Hand delivery
Via:

No. 604 Sample Receipt
Total No. of Containers
Chain of Custody Seals
Rec'd Good Condition/Cold
Conforms to Record
Lab No.

Special Instructions/Comments:
BTEX / TPH (8015 - Gas Range)

Relinquished By	Received By
1. Gil Van Deventer 1420 9/28/95 (Geoscience Consultants Ltd)	1. 1420 L. Crain 9/28/95 GCL
2. O.L. Crain 1435 9/28/95 GCL	2.
3.	3. Richard A Kagel 1635 9/28/95 K Prime, Inc.

Distribution: White, Canary-Laboratory - Pink, GCL

K PRIME, INC.

CONSULTING ANALYTICAL CHEMISTS

4197 Lakeside Dr., Suite 170
Richmond, CA 94806
(510) 222-4815
Fax: 222-4817

TRANSMITTAL

DATE: 10/17/95

TO: Mr. L. Crain
GCL
11501 Dublin Blvd., Suite 200
Dublin, CA 94688

Phone: (510) 551-5011
FAX: (510) 551-5105

Acct#: 100-9411
Project: 3121-002

FROM: Richard A. Kagel, Ph.D. RAK 10/17/95
Laboratory Director

SUBJECT: YOUR PROJECT "3121-002" LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	SAMPLE TYPE	DATE	KPI LAB #
9510031419	SOIL	10/3/95	8498
9510031420	SOIL	10/3/95	8499

These samples were received in our laboratory on 10/3/95 and tested as requested on the attached chain of custody form.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

9411

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: ULTRAMAR-BEACON

SAMPLE ID: 9510031419
LAB NO: 8498
SAMPLE TYPE: SOIL
DATE SAMPLED: 10/3/95
TIME SAMPLED: 14:19

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 10/4/95
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	20.9
TOLUENE	108-88-3	5.00	8.04
ETHYLBENZENE	100-41-4	5.00	52.2
M-&P-XYLENE	1330-20-7	5.00	273
O-XYLENE	95-47-6	5.00	90.0

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 10/4/95
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	5.03
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AG
DATE: 10/8/95

APPROVED BY: RAK
DATE: 10/12/95

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: ULTRAMAR-BEACON

SAMPLE ID: 9510031420
LAB NO: 8499
SAMPLE TYPE: SOIL
DATE SAMPLED: 10/3/95
TIME SAMPLED: 14:20

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 10/4/95
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	19.8
M-&P-XYLENE	1330-20-7	5.00	101
O-XYLENE	95-47-6	5.00	52.8

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 10/4/95
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	1.34
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AB
DATE: 10/8/95

APPROVED BY: BRR
DATE: 10/12/95

KPI Proj # 9411

№ 9682

GCL
Environmental Science and Engineering
A BDM International Company

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☐ NASA-WSTF
PO Drawer MM
Las Cruces, NM 88004
(505) 524-5353
FAX: (505) 524-5315

Chain of Custody

Date 10/3/95 Page 1 of 1

Lab Name K-PRIME
Address 4197 LAKESIDE DR., SUITE 170
RICHMOND, CALIFORNIA 94806
Telephone (510) 222-4815

Samplers (SIGNATURES)

Analysis Request

Sample Number	Matrix	Location	TPH/BTEX Modified 8015	KPI Proj #	Number of Containers
9510031419	Soil	Bin-2	✓	8498	
9510031420	Soil	Bin-2	✓	8499	

Project Information
Project Hanaw-Beacon Station #604
Project Director Q.L. Crain
Charge Code No. 3121-002
Shipping ID. No.
Via:

Sample Receipt
Total No. of Containers
Chain of Custody Seals
Rec'd Good Condition/Cold
Conforms to Record
Lab No.

Special Instructions/Comments:
BTEX/TPH (8015 - G)

Relinquished By	Relinquished By	Relinquished By
1. (Signature) G.V. Van Deventer (Time) 1425	2. (Signature) Q.L. Crain (Time) 1525	3. (Signature) (Time)
(Printed Name) G.V. Van Deventer (Date) 10/3/95	(Printed Name) Q.L. Crain (Date) 10/3/95	(Printed Name) (Date)
(Company) Geoscience Consultants Ltd.	(Company) GCL	(Company)
Received By	**Received By**	**Received By (Laboratory)**
1. (Signature) Q.L. Crain (Time) 1425	2. (Signature) AB (Time) 1525	3. (Signature) (Time)
(Printed Name) GCL (Date) 10/3/95	(Printed Name) ALEJANDRO BARCENAS (Date) 10/3/95	(Printed Name) (Date)
(Company)	(Company) VTI	(Laboratory)

Distribution: White, Canary-Laboratory • Pink-GCL

K PRIME, INC.

CONSULTING ANALYTICAL CHEMISTS

4197 Lakeside Dr., Suite 170
Richmond, CA 94806
(510) 222-4815
Fax: 222-4817

TRANSMITTAL

DATE: 10/19/95

TO: Mr. L. Crain
GCL
11501 Dublin Blvd., Suite 200
Dublin, CA 94688

Phone: (510) 551-5011
FAX: (510) 551-5105

Acct#: 100-9411
Project: 2000.006

FROM: Richard A. Kagel, Ph.D. RAK 10/19/95
Laboratory Director

SUBJECT: YOUR PROJECT #2000.006 LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	SAMPLE TYPE	DATE	KPI LAB #
9510051429	SOIL	10/5/95	8525
9510051432	SOIL	10/5/95	8526

These samples were received in our laboratory on 10/5/95 and tested as requested on the attached chain of custody form.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

9411

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: ULTRAMAR-BEACON

SAMPLE ID: 9510051429
LAB NO: 8525
SAMPLE TYPE: SOIL
DATE SAMPLED: 10/5/95
TIME SAMPLED: 14:29

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 10/9/95
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 10/9/95
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: HB
DATE: 10/10/95

APPROVED BY: RAC
DATE: 10/12/95

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: ULTRAMAR-BEACON

SAMPLE ID: 9510051432
LAB NO: 8526
SAMPLE TYPE: SOIL
DATE SAMPLED: 10/5/95
TIME SAMPLED: 14:32

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 10/9/95
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 10/9/95
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AB
DATE: 10/10/95

APPROVED BY: RAK
DATE: 10/12/95

KPI Project # 9111

GCL
Environmental Science and Engineering
A BMI International Company

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(301) 459-9677
FAX: (301) 459-3064

❑ NASA-WSTF
PO Drawer MM
Las Cruces, NM 88004
(505) 524-5353
FAX: (505) 524-5315

№ 9667

Chain of Custody

Date 10-5-95 Page 1 of 1

Lab Name K-PRIME
Address 4197 Lakeside Dr., Ste 170
Richmond, CA 94806
Telephone 510-222-4815

Samplers (SIGNATURES)

Sample Number	Matrix	Location	TPH/BTEX Modified 8015 (Gas Range)	KPI Sam #	Number of Containers
9510051429	Soil	Bin-3	✓	8525	1
9510051432	Soil	Bin-3	✓	8526	1

Analysis Request

Halogenated Volatiles 601/8010; Aromatic Volatiles 602/8020; Phenols, Sub Phenols 604/8040; Pesticides/PCB 608/8080; Polynuclear Aromatic Hydrocarbons 610/8310; Volatile Compounds GC/MS 624/8240; Base/Neu/Acid Compounds GC/MS 625/8270; Total Organic Carbon (TOC) 415/9060; Total Organic Halides (TOX) 9020; Petroleum Hydrocarbons 418.1; TCLP- Vol., Semi-Vol. Herbicides, Pesticides; TCLP- Metals; RCRA Metals(8); Priority Pollutant Metals (13); CAM Metals (18) TTLC/STLC; Flash Point; Corrosivity; Reactivity; Oil & Grease; Cyanide Total/Amenable; Chemical Oxygen Demand (COD)

Project Information
Project Ultramar-Beacon Station
Project Director D.L. Crain
Charge Code No. 3121-001
Shipping ID. No.
Via:

#604 Sample Receipt
Total No. of Containers
Chain of Custody Seals
Rec'd Good Condition/Cold
Conforms to Record
Lab No.

Special Instructions/Comments:
BTEX/TPH (8015-G)

Relinquished By	Received By
1. (Signature) 1435 (Time) G.J. Van Deventer 10/5/95 (Printed Name) (Date) Geotechnic Consultants Ltd. (Company)	1. (Signature) 1435 (Time) D.L. Crain 10/5/95 (Printed Name) (Date) GCL (Company)
2. (Signature) (Time) D.L. Crain 10/04/95 (Printed Name) (Date) GCL (Company)	2 (Signature) (Time) (Printed Name) (Date) (Company)
3. (Signature) (Time) (Printed Name) (Date) (Company)	3 Received By (Laboratory) (Signature) Morris 4:21 (Time) (Printed Name) KPrime 10/5/95 (Date) (Laboratory)

Distribution: White-Canary-Laboratory • Pink, GCL

K PRIME, INC.

CONSULTING ANALYTICAL CHEMISTS

4197 Lakeside Dr., Suite 170
Richmond, CA 94806
(510) 222-4815
Fax: 222-4817

TRANSMITTAL

DATE: 10/24/95

TO: Mr. L. Crain
GCL
11501 Dublin Blvd., Suite 200
Dublin, CA 94688

Phone: (510) 551-5011
FAX: (510) 551-5105

Acct#: 100-9411
Project: 3121.002

FROM: Richard A. Kagel, Ph.D. RAK 10/24/95
Laboratory Director

SUBJECT: YOUR PROJECT #3121.002 LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	SAMPLE TYPE	DATE	KPI LAB #
9510101530	SOIL	10/10/95	8570
9510101545	SOIL	10/10/95	8571

These samples were received in our laboratory on 10/11/95 and tested as requested on the attached chain of custody form.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

9411

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: BEACON

SAMPLE ID: 9510101530
LAB NO: 8570
SAMPLE TYPE: SOIL
DATE SAMPLED: 10/10/95
TIME SAMPLED: 15:30

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 10/18/95
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 10/18/95
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AO
DATE: 10/19/95

APPROVED BY: RAK
DATE: 10/24/95

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: BEACON

SAMPLE ID: 9510101545
LAB NO: 8571
SAMPLE TYPE: SOIL
DATE SAMPLED: 10/10/95
TIME SAMPLED: 15:45

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 10/18/95
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 10/18/95
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AO
DATE: 10/19/95

APPROVED BY: RAK
DATE: 10/24/95

KPI Project #
9411

№ 9665

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Environmental Science and Engineering
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FAX: (301) 459 3064

❑ NASA-WSTF
PO Drawer MM
Las Cruces, NM 88004
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FAX: (505) 524-5315

Chain of Custody

Date Oct. 11, 1995 Page 1 Of 1

Lab Name K Prime
Address 4197 Lakeside Dr., Suite 170
Richmond, CA 94806
Telephone (510) 222-4815
Samplers (SIGNATURES)

Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polynuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1	TPH (BTEX) Modified 8015	TCLP- Vol., Semi-Vol. Herbicides, Pesticides	TCLP- Metals	RCRA Metals(8)	Priority Pollutant Metals (13)	CAM Metals (18) TTLC/STLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	TPH(G)	KPI Sample #		Number of Containers
951010 1530	Soil	Bin-4											X												X	8570		1
951010 1545	Soil	Bin-4											X												X	8571		1

Project Information	Sample Receipt	Relinquished By 1.	Relinquished By 2.	Relinquished By 3.
Project Bessen	Total No. of Containers	(Signature) 1300 (Time)	(Signature) (Time)	(Signature) (Time)
Project Director L. Crain	Chain of Custody Seals	O L Crain Oct. 11, 95		
Charge Code No. 3121002	Rec'd Good Condition/Cold	(Printed Name) (Date)	(Printed Name) (Date)	(Printed Name) (Date)
Shipping ID. No. Hand Carried	Conforms to Record	GCL (Company)	(Company)	(Company)
Via:	Lab No.	Received By 1.	Received By 2.	Received By (Laboratory) 3.
		(Signature) (Time)	(Signature) (Time)	(Signature) 1300 (Time)
		(Printed Name) (Date)	(Printed Name) (Date)	J. Morris 10/11/95 (Printed Name) (Date)
		(Company)	(Company)	KPI (Laboratory)

Special Instructions/Comments:

Distribution: White, Canary-Laboratory • Pink, GCL

K PRIME, INC.

CONSULTING ANALYTICAL CHEMISTS

4197 Lakeside Dr., Suite 170
Richmond, CA 94806
(510) 222-4815
Fax: 222-4817

TRANSMITTAL

DATE: 10/26/95

TO: Mr. L. Crain
GCL
11501 Dublin Blvd., Suite 200
Dublin, CA 94688

Phone: (510) 551-5011
FAX: (510) 551-5105

Acct#: 100-9411
Project: 3121-002

FROM: Richard A. Kagel, Ph.D. RAK 10/24/95
Laboratory Director

SUBJECT: YOUR PROJECT #3121-002 LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	SAMPLE TYPE	DATE	KPI LAB #
9510121100	SOIL	10/12/95	8644

These samples were received in our laboratory on 10/16/95 and tested as requested on the attached chain of custody form.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

9411

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: ULTRAMART

SAMPLE ID: 9510121100
LAB NO: 8644
SAMPLE TYPE: SOIL
DATE SAMPLED: 10/12/95
TIME SAMPLED: 11:00

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 10/18/95
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	6.68
TOLUENE	108-88-3	5.00	7.86
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	22.5
O-XYLENE	95-47-6	5.00	104

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 10/18/95
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	1.00
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AB
DATE: 10/19/95

APPROVED BY: RMK
DATE: 10/24/95

GCL
Environmental Science and Engineering
A EDM International Company

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Las Cruces, NM 88004
(505) 524-5353
FAX: (505) 524-5315

KPI Project # 9411

№ 9668

Chain of Custody

Date 10/12/95 Page 1 Of 1

Lab Name K-Prime
Address 4197 Lakeside Dr.
Richmond, CA 94801
Telephone 510/222-4815

Samplers (SIGNATURES)
Dale T Littlejohn

Analysis Request

Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polynuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1	TPH/BTEX Modified 8015	TCLP- Vol., Semi-Vol. Herbicides, Pesticides	TCLP- Metals	RCRA Metals(8)	Priority Pollutant Metals (13)	CAM Metals (18) TTLC/STLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	KPI Sample #		Number of Containers
9510121100	Soil	Bin. 6											✓												8644		1

Project Information	
Project	Ultramart
Project Director	Leon Crane
Charge Code No.	3121-002
Shipping ID. No.	UPS
Via:	

Sample Receipt	
Total No. of Containers	
Chain of Custody Seals	
Rec'd Good Condition/Cold	
Conforms to Record	
Lab No.	

Special Instructions/Comments:

	1.	2.	3.
Relinquished By	Dale T Littlejohn 7/40A		
(Signature) (Time)			
(Printed Name) (Date)	Dale T. Littlejohn 10/13		
(Company)	GCL		
Received By			Received By (Laboratory) 12:00pm
(Signature) (Time)			J. Morris 10/16/95
(Printed Name) (Date)			KPI
(Company)			(Laboratory)

Distribution: White, Canary-Laboratory • Pink, GCL

K PRIME, INC.

CONSULTING ANALYTICAL CHEMISTS

4197 Lakeside Dr., Suite 170
Richmond, CA 94806
(510) 222-4815
Fax: 222-4817

TRANSMITTAL

DATE: 10/26/95

TO: Mr. L. Crain
GCL
11501 Dublin Blvd., Suite 200
Dublin, CA 94688

Phone: (510) 551-5011
FAX: (510) 551-5105

Acct#: 100-9411
Project: Ultramar/Beacon

FROM: Richard A. Kagel, Ph.D. RAK 10/31/95
Laboratory Director

SUBJECT: YOUR PROJECT "Ultramar/Beacon" LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	SAMPLE TYPE	DATE	KPI LAB #
9510160855	SOIL	10/16/95	8685
9510181640	SOIL	10/18/95	8686
9510181650	SOIL	10/18/95	8687

These samples were received in our laboratory on 10/19/95 and tested as requested on the attached chain of custody form.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

9411

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: ULTRAMART/BEACON

SAMPLE ID: 9510160855
LAB NO: 8685
SAMPLE TYPE: SOIL
DATE SAMPLED: 10/16/95
TIME SAMPLED: 8:55

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 10/20/95
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 10/20/95
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AG
DATE: 10/24/95

APPROVED BY: RAK
DATE: 10/31/95

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: ULTRAMART/BEACON

SAMPLE ID: 9510181640
LAB NO: 8686
SAMPLE TYPE: SOIL
DATE SAMPLED: 10/18/95
TIME SAMPLED: 16:40

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 10/20/95
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	12.6
O-XYLENE	95-47-6	5.00	6.11

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 10/20/95
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AB
DATE: 10/20/95

APPROVED BY: BAK
DATE: 10/31/95

GCL
Environmental Science and Engineering
A BDM International Company

☐ Albuquerque
505 Marquette NW, Ste. 1100
Albuquerque, NM 87102
(505) 842-0001
FAX: (505) 842-0595

☐ Mid Atlantic Region
4221 Forbes Blvd., Ste. 240
Lanham, MD 20706-4325
(301) 459-9677
FAX: (301) 459-3064

☐ NASA-WSTF
PO Drawer MM
Las Cruces, NM 88004
(505) 524-5353
FAX: (505) 524-5315

KPI Project # 9411

№ 9684

Chain of Custody

Date Oct. 18, 95 Page 1 of 1

Lab Name K-PRIME
Address 4197 LAKESIDE DR., SUITE 170
RICHMOND, CALIFORNIA 94806
Telephone (510) 222-4815

Samplers (SIGNATURES)

Analysis Request

Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polynuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1	TPH (BTEX) Modified 8015	TCLP- Vol., Semi-Vol Herbicides, Pesticides	TCLP- Metals	RCRA Metals(8)	Priority Pollutant Metals (13)	CAM Metals (18)	TTLC/STLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	TPH (CC)	KPI Samp#	Number of Containers
9510160855	Soil	Bin #5											X													X	8685	1
9510181640	Soil	Bin #7-1											X													X	8686	1
9510181650	Soil	Bin #7-2											X													X	8687	1

Project Information	Sample Receipt
Project Ultramar/Benco	Total No. of Containers
Project Director L. Crain	Chain of Custody Seals
Charge Code No.	Rec'd Good Condition/Cold
Shipping ID. No. Hand Carried	Conforms to Record
Via:	Lab No.

Special Instructions/Comments:

Relinquished By 1.	Relinquished By 2.	Relinquished By 3.
(Signature) 0855 (Time)	(Signature) (Time)	(Signature) (Time)
(Printed Name) G.L. Crain 10/19/95 (Date)	(Printed Name) (Date)	(Printed Name) (Date)
(Company) GCL	(Company)	(Company)
Received By 1.	**Received By 2.**	**Received By (Laboratory) 3.**
(Signature) (Time)	(Signature) (Time)	(Signature) 455 (Time)
(Printed Name) (Date)	(Printed Name) (Date)	(Printed Name) J. Morro 10/19/95 (Date)
(Company)	(Company)	(Laboratory) KPrime

Distribution: White, Canary-Laboratory - Pink, GCL

K PRIME, INC.

CONSULTING ANALYTICAL CHEMISTS

4197 Lakeside Dr., Suite 170
Richmond, CA 94806
(510) 222-4815
Fax: 222-4817

TRANSMITTAL

DATE: 11/21/95

TO: Mr. L. Crain
GCL
11501 Dublin Blvd., Suite 200
Dublin, CA 94688

Phone: (510) 551-5011
FAX: (510) 551-5105

Acct#: 100-9411
Project: Ultramar/Beacon

FROM: Richard A. Kagel, Ph.D. RAK 11/21/95
Laboratory Director

SUBJECT: YOUR PROJECT "Ultramar/Beacon" LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	SAMPLE TYPE	KPI LAB #
BIN 5,7,6,4 COMPOSITE	SOIL	8685/8686/8644/8570

As requested, we prepared a composite sample from four individual bin samples (bins 5,7,6, and 4) previously submitted, and tested the composite sample for STLC lead in our subcontract laboratory.

Thank you for this opportunity to be of service.

cc: Mr. Terry Fox

9411

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9411
YOUR PROJECT: ULTRAMAR

SAMPLE ID: BIN COMPOSITE
LAB NO: {8685/8686/8644/8570}
SAMPLE TYPE: WET LEACHATE
DATE SAMPLED: 11/15/95
TIME SAMPLED: 12:00

METHOD: STLC LEAD

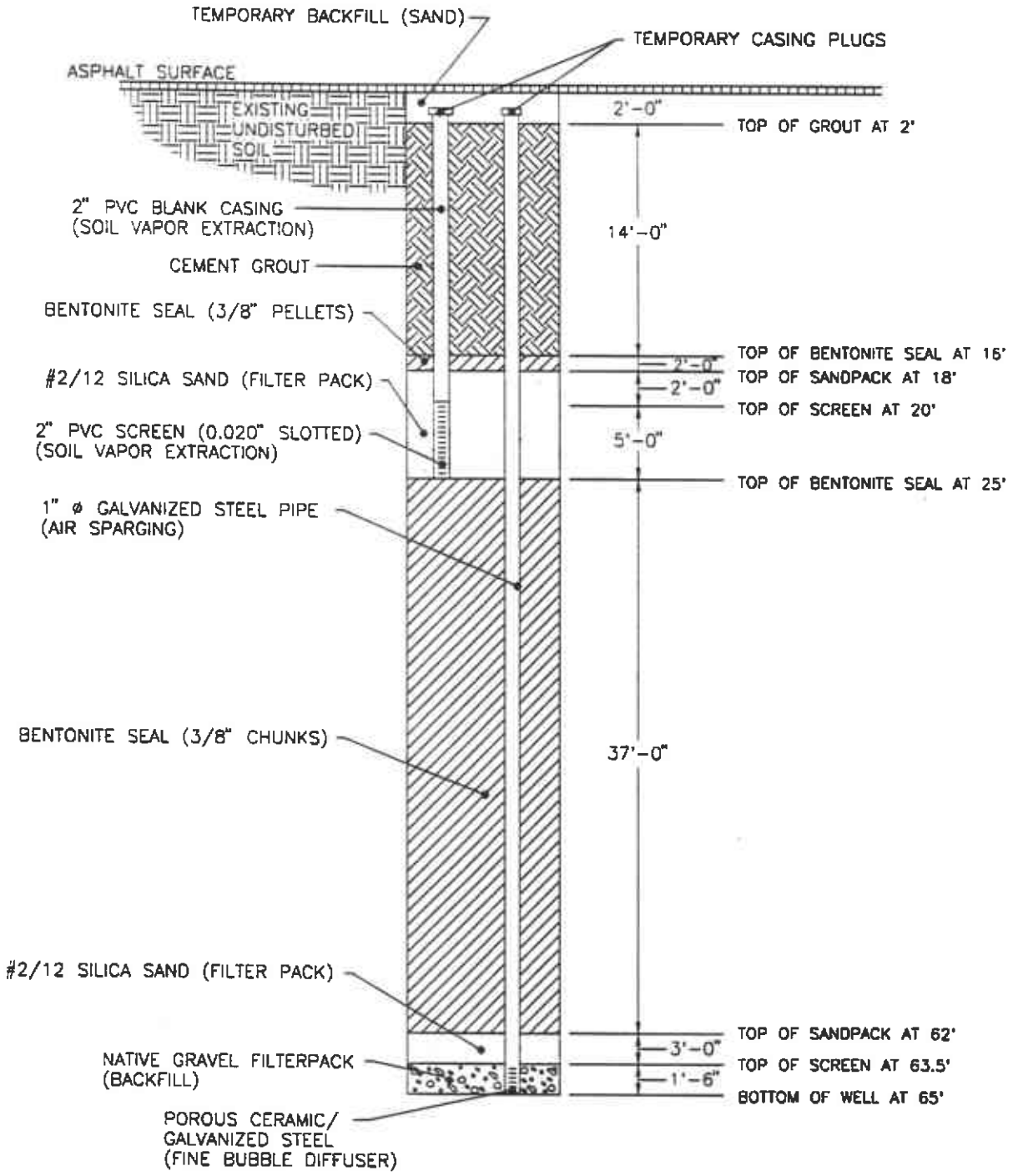
UNITS: µG/L

COMPOUND NAME	REFERENCE METHOD	ANALYSIS DATE	REPORTING LIMIT	SAMPLE CONC
LEAD	EPA 6010A	11/20/95	150	170

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT

PREPARED BY: _____
DATE: 11/21/95

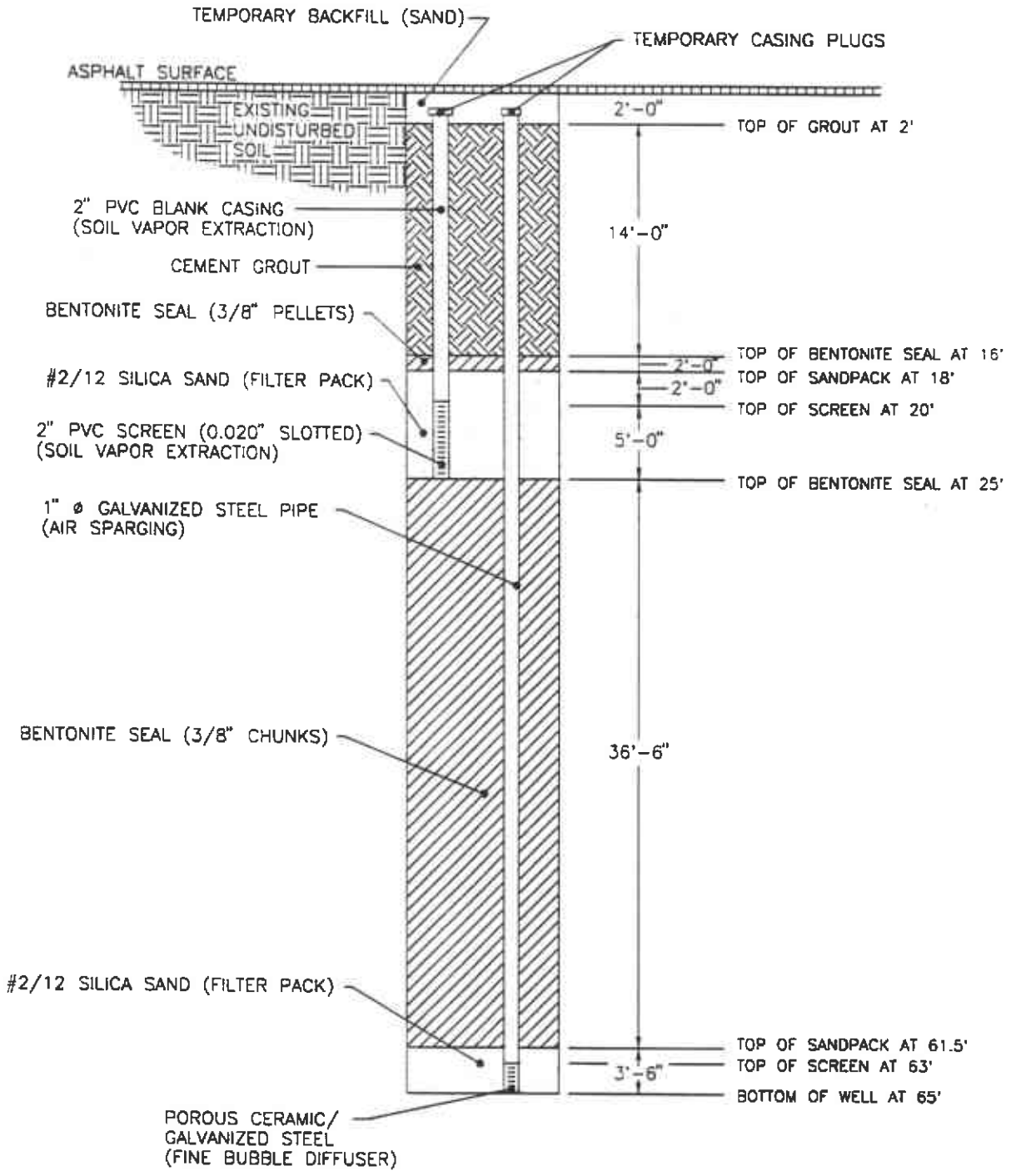
APPROVED BY: _____
DATE: 11/21/95



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/17/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DLC	FILE: RW01CD.DWG

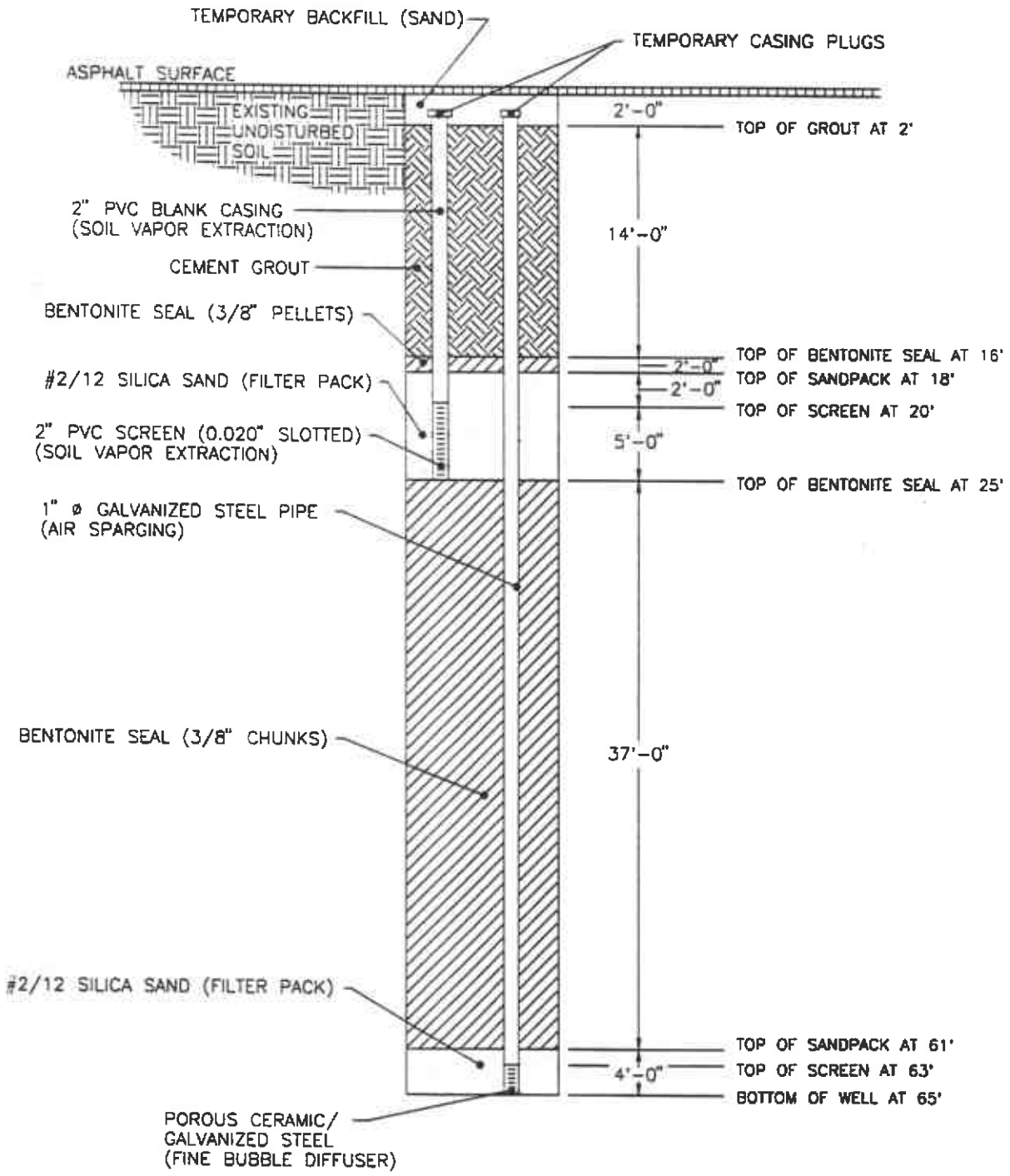
RW-1
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/17/95	REV. NO.: 0
AUTHOR: DTL	DRAWN BY: MP
CK'D BY: GJV	FILE: RW02CD.DWG

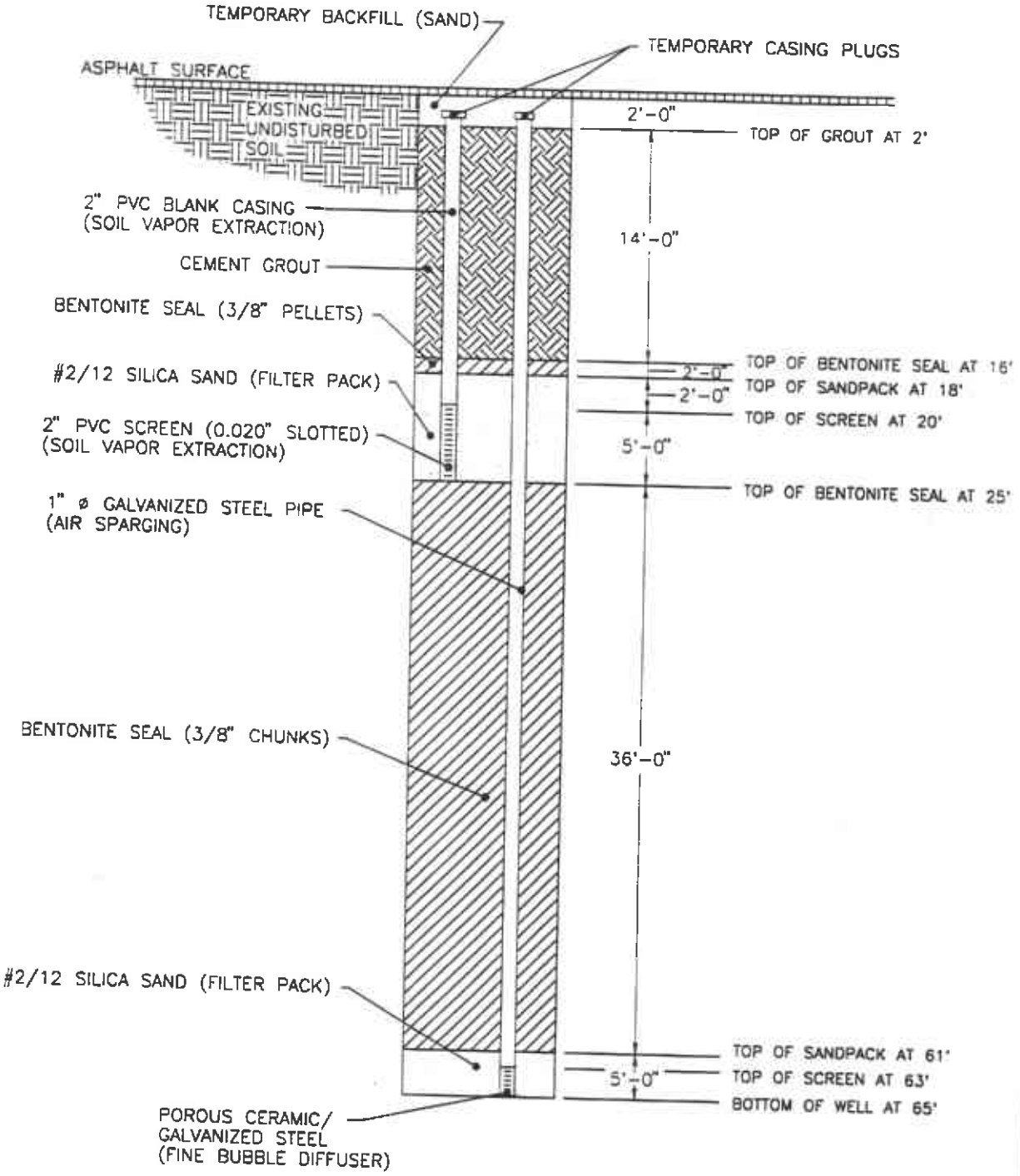
RW-2
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/13/95	REV. NO.: 0
AUTHOR: DTL	DRAWN BY: MP
CK'D BY: GJV	FILE: RW03CD.DWG

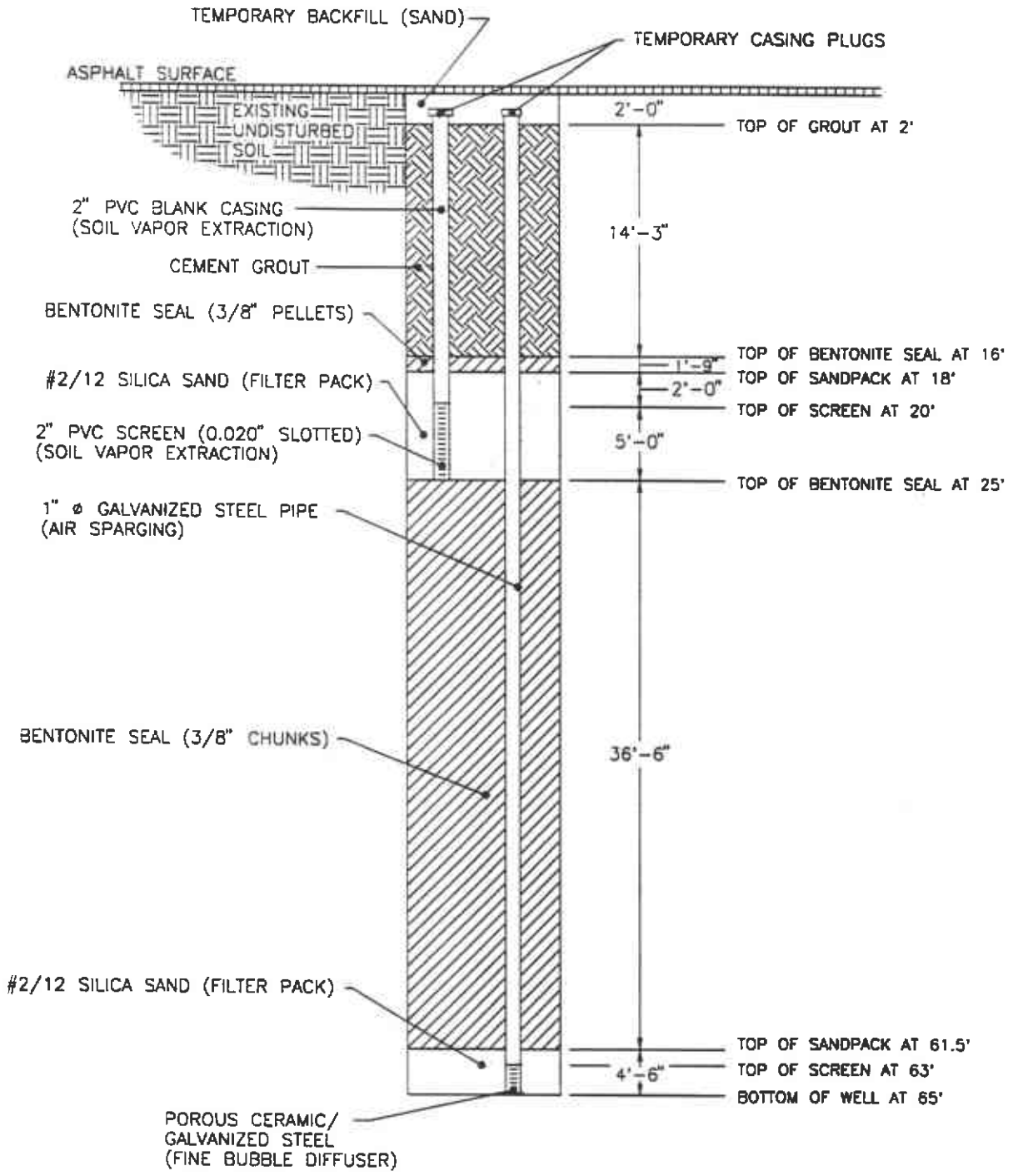
RW-3
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/12/95	REV. NO.: 0
AUTHOR: DTL	DRAWN BY: MP
CK'D BY: GJV	FILE: RW04CD.DWG

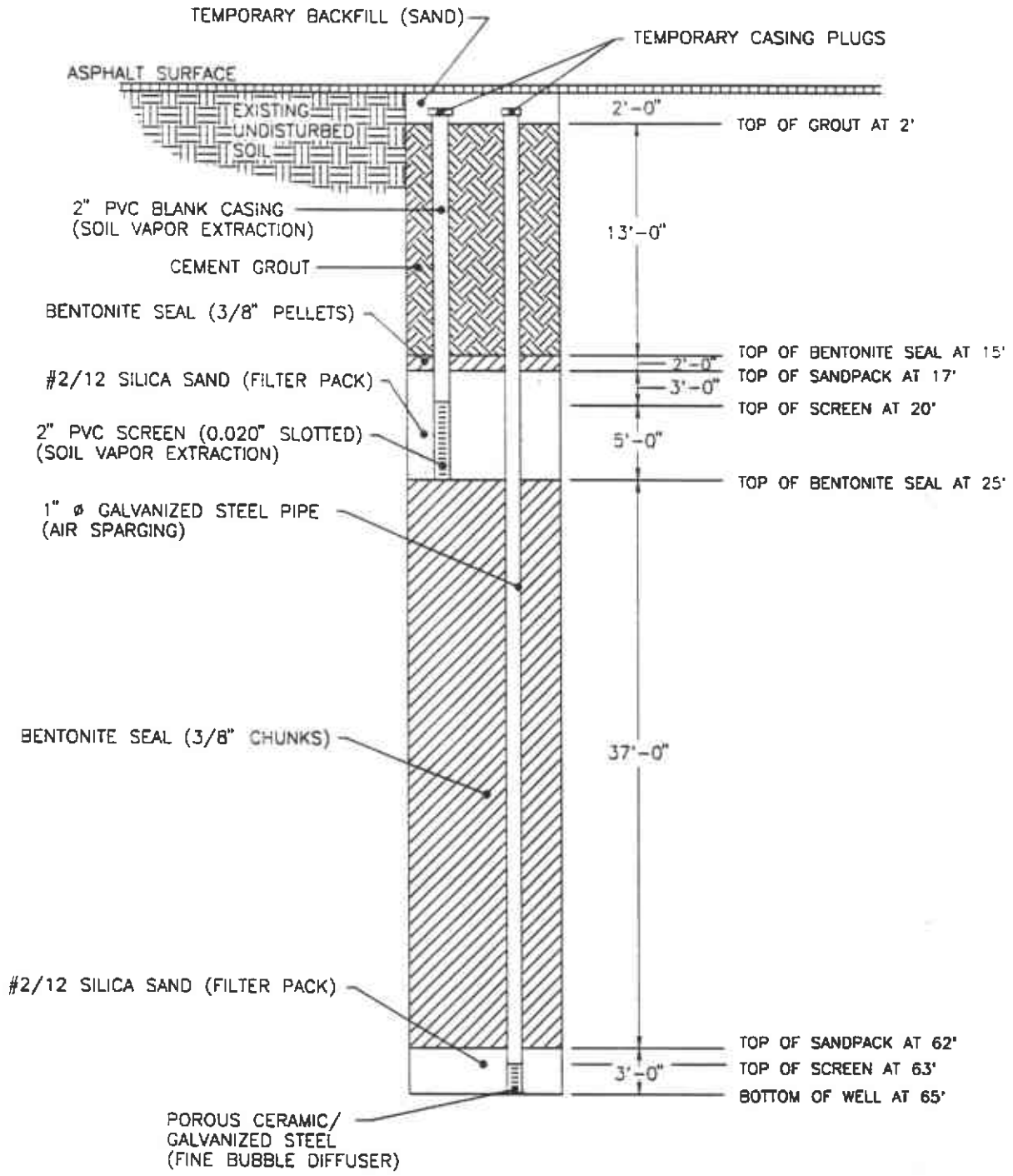
RW-4
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/12/95	REV. NO.: 0
AUTHOR: DTL	DRAWN BY: MP
CK'D BY: GJV	FILE: RW05CD.DWG

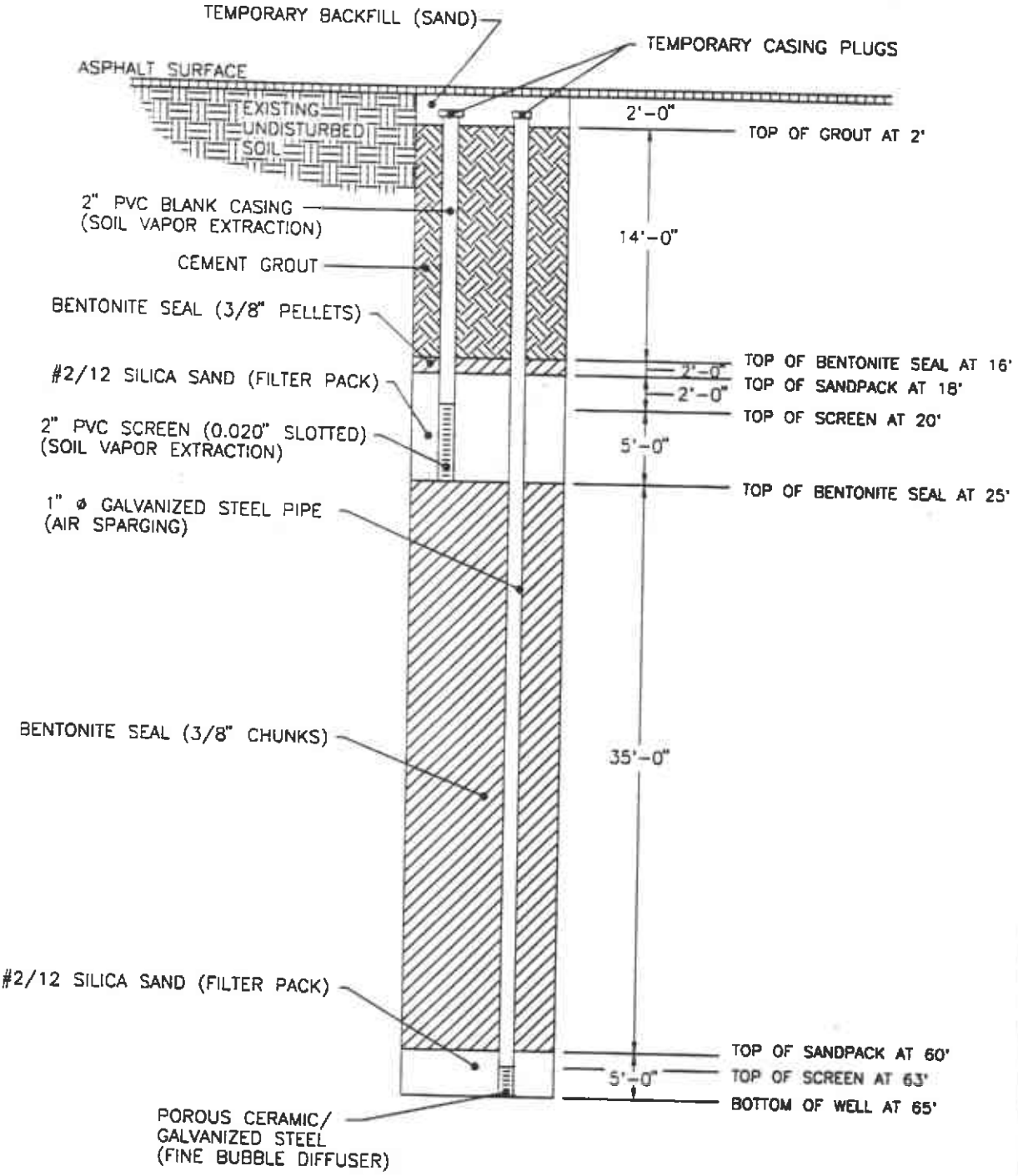
RW-5
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/11/95	REV. NO.: 0
AUTHOR: DTL	DRAWN BY: MP
CK'D BY: GJV	FILE: RW06CD.DWG

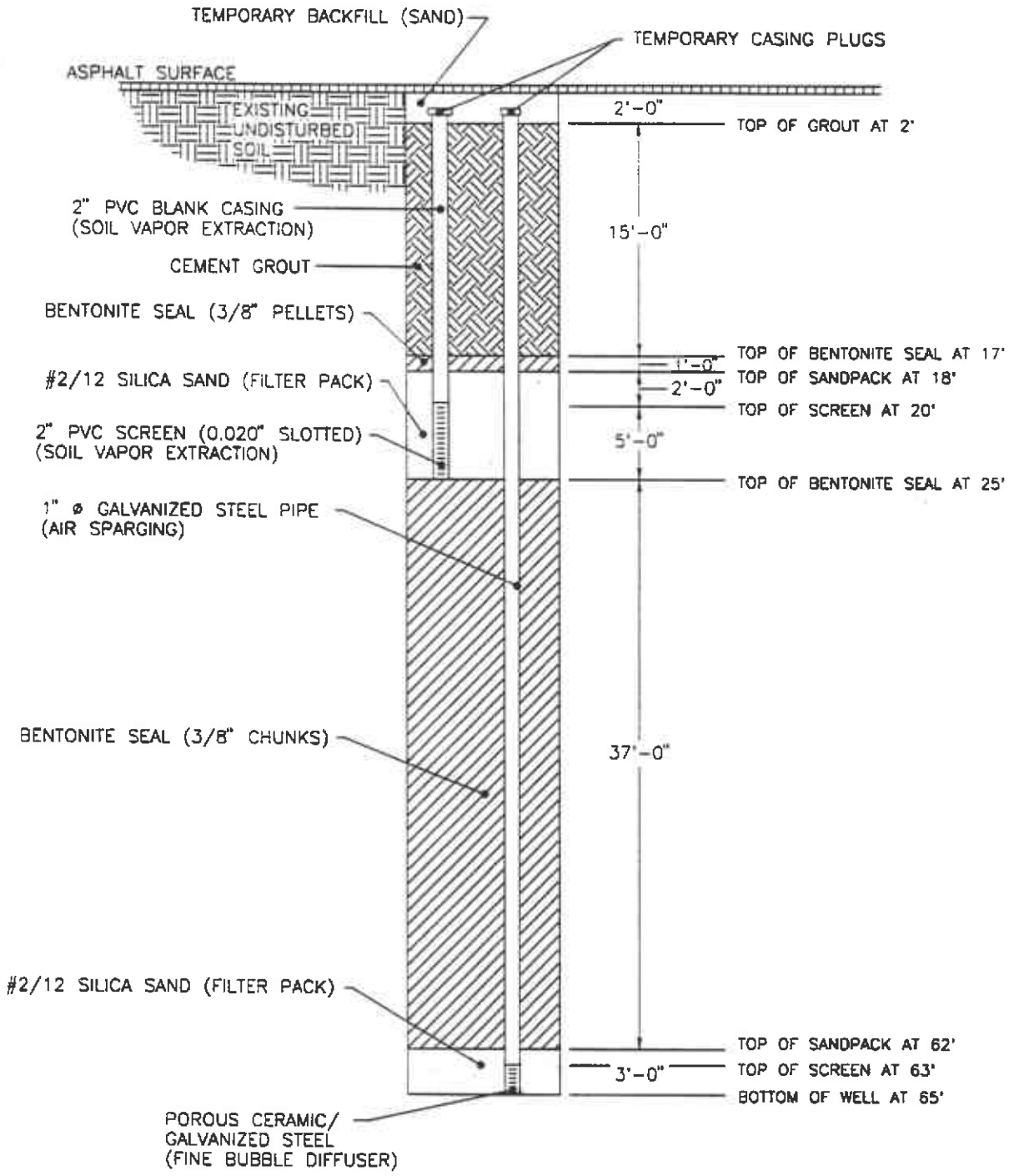
RW-6
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/11/95	REV. NO.: 0
AUTHOR: DTL	DRAWN BY: MP
CK'D BY: GJV	FILE: RW07CD.DWG

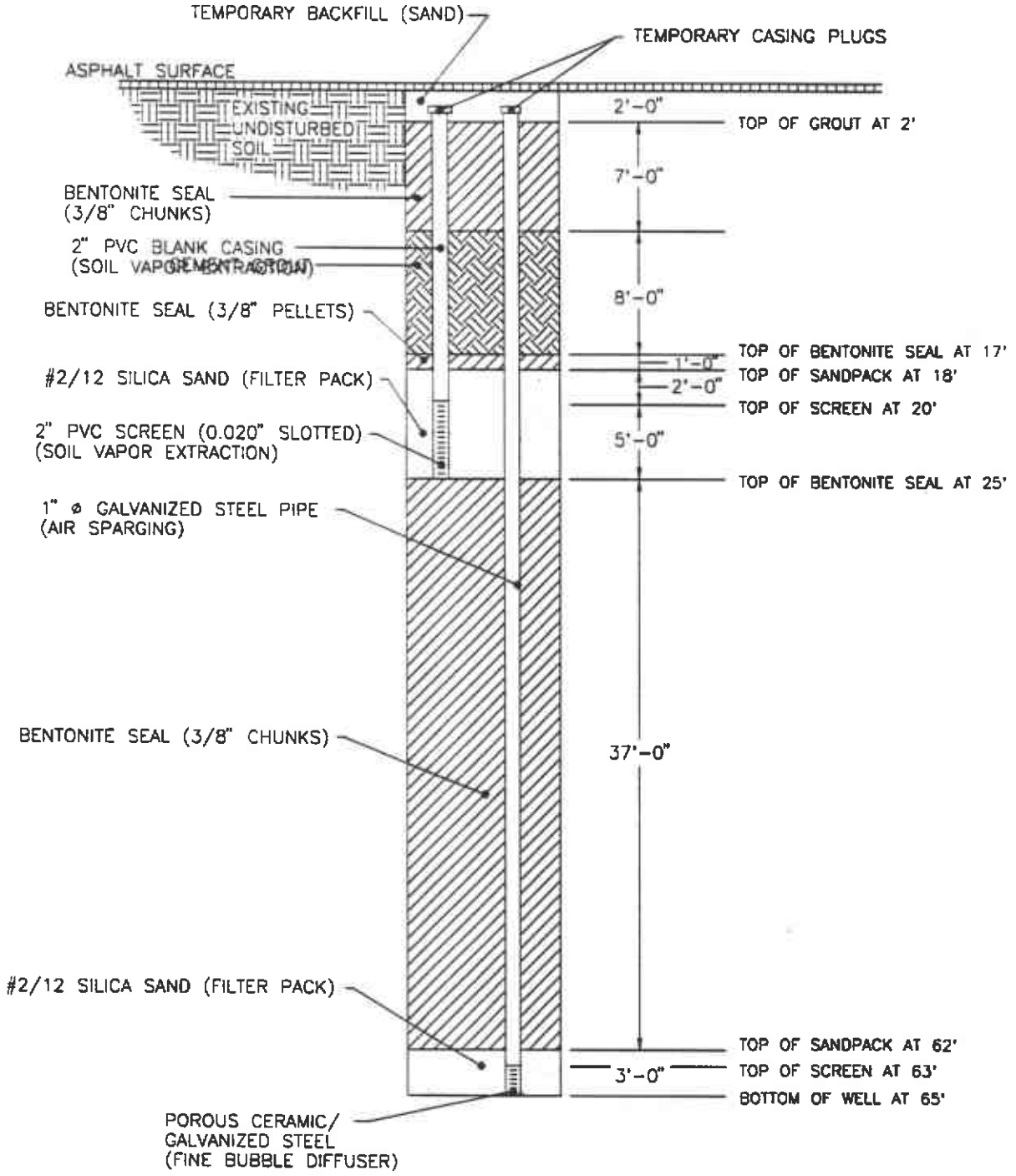
RW-7
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

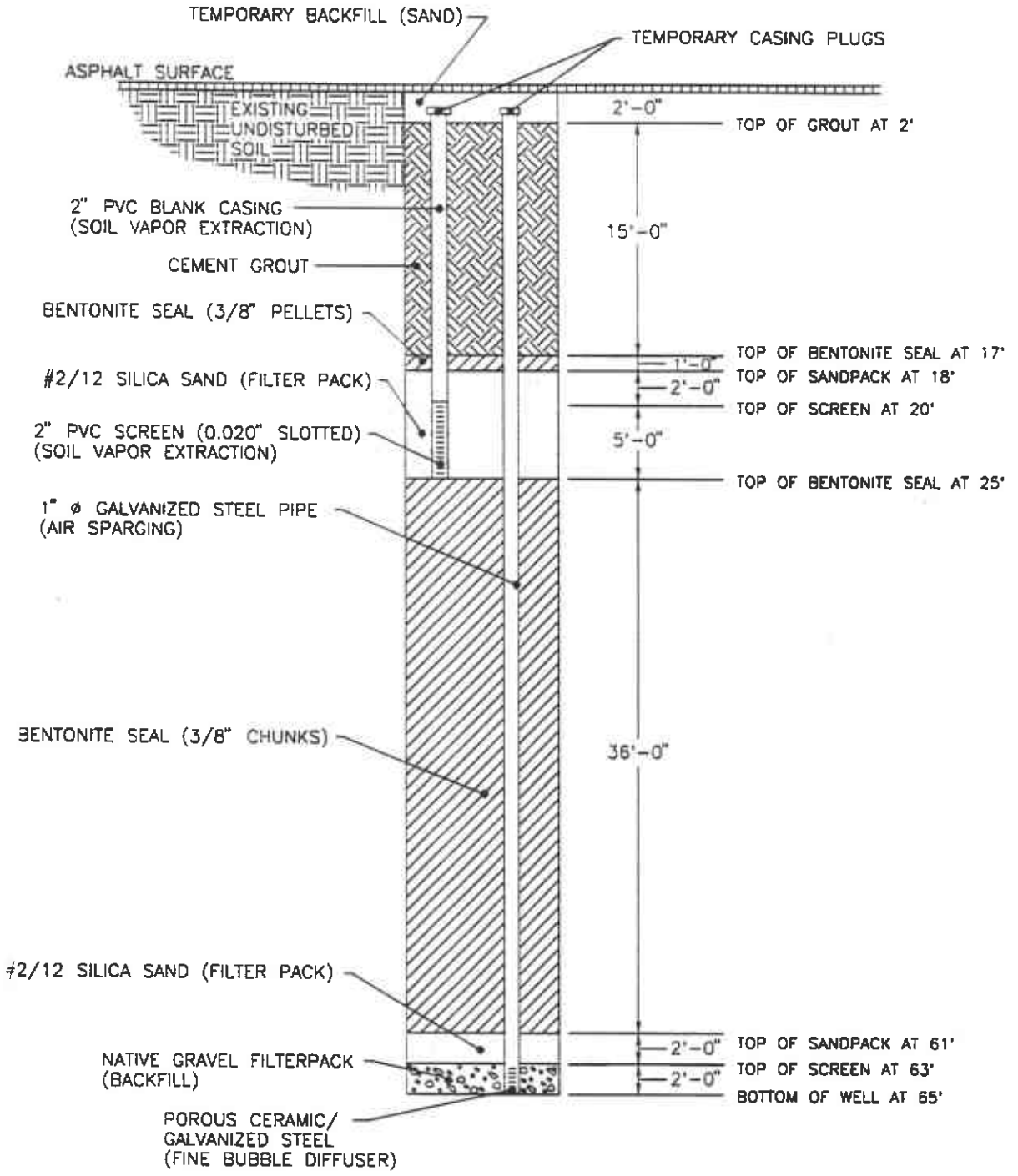
CLIENT: ULTRAMAR INC.	
DATE: 10/5/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DTL	FILE: RW08CD.DWG

RW-8
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL	CLIENT: ULTRAMAR INC.	
	DATE: 10/4/95	REV. NO.: 0
	AUTHOR: GJV	DRAWN BY: MP
	CK'D BY: DTL	FILE: RW09CD.DWG

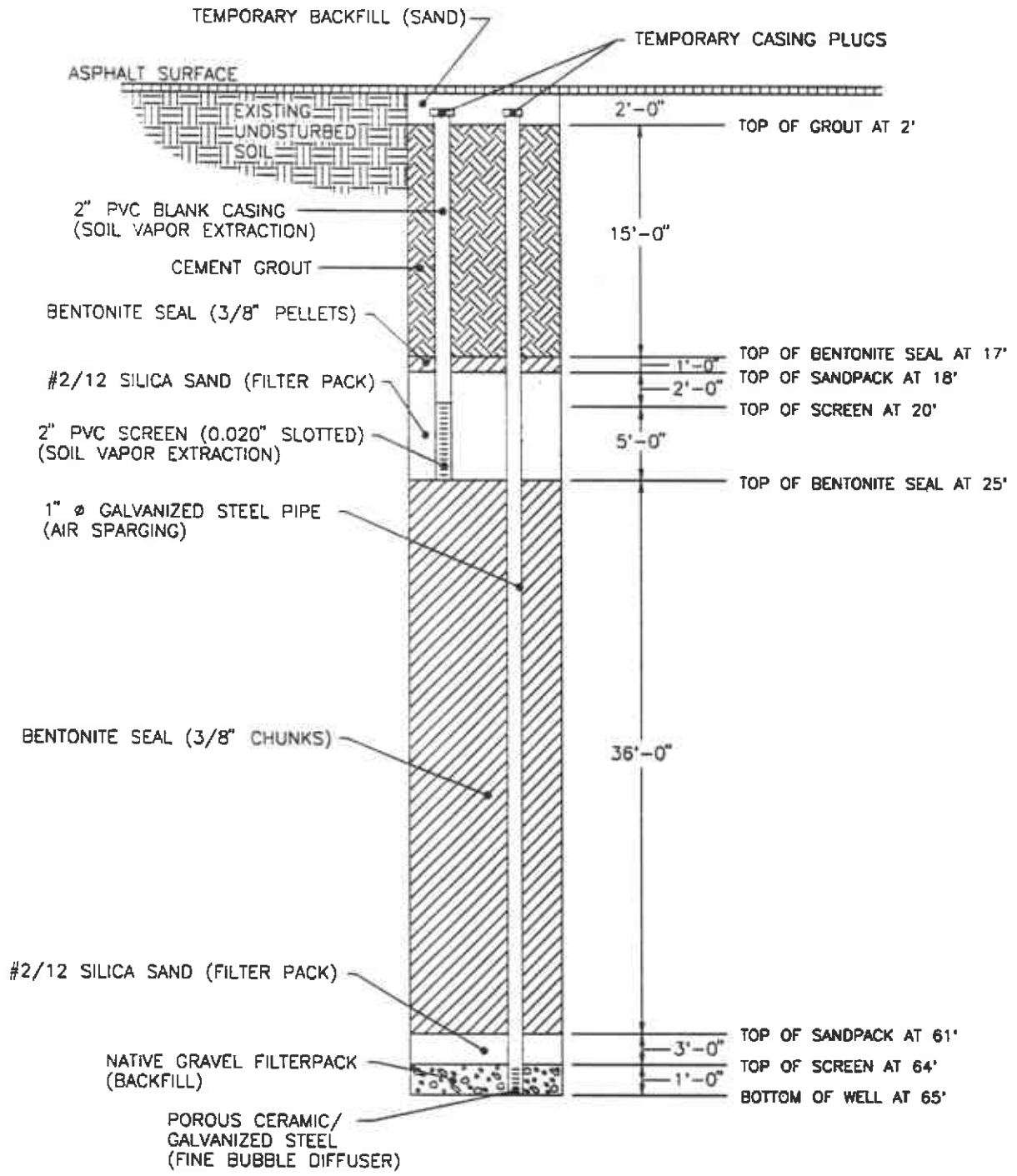
RW-9
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 9/26/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DLC	FILE: RW10CD.DWG

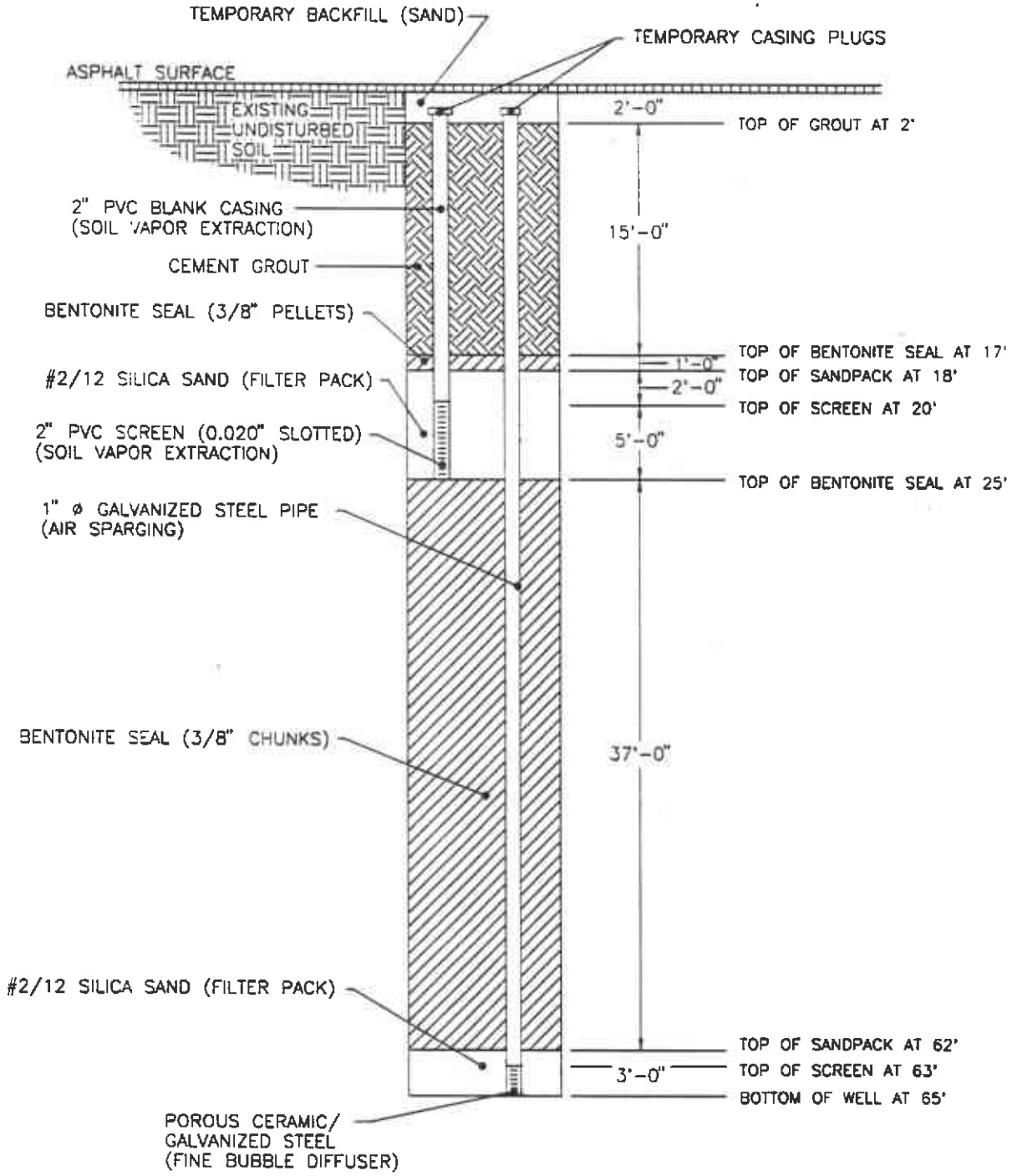
RW-10
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 9/29/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DTL	FILE: RW11CD.DWG

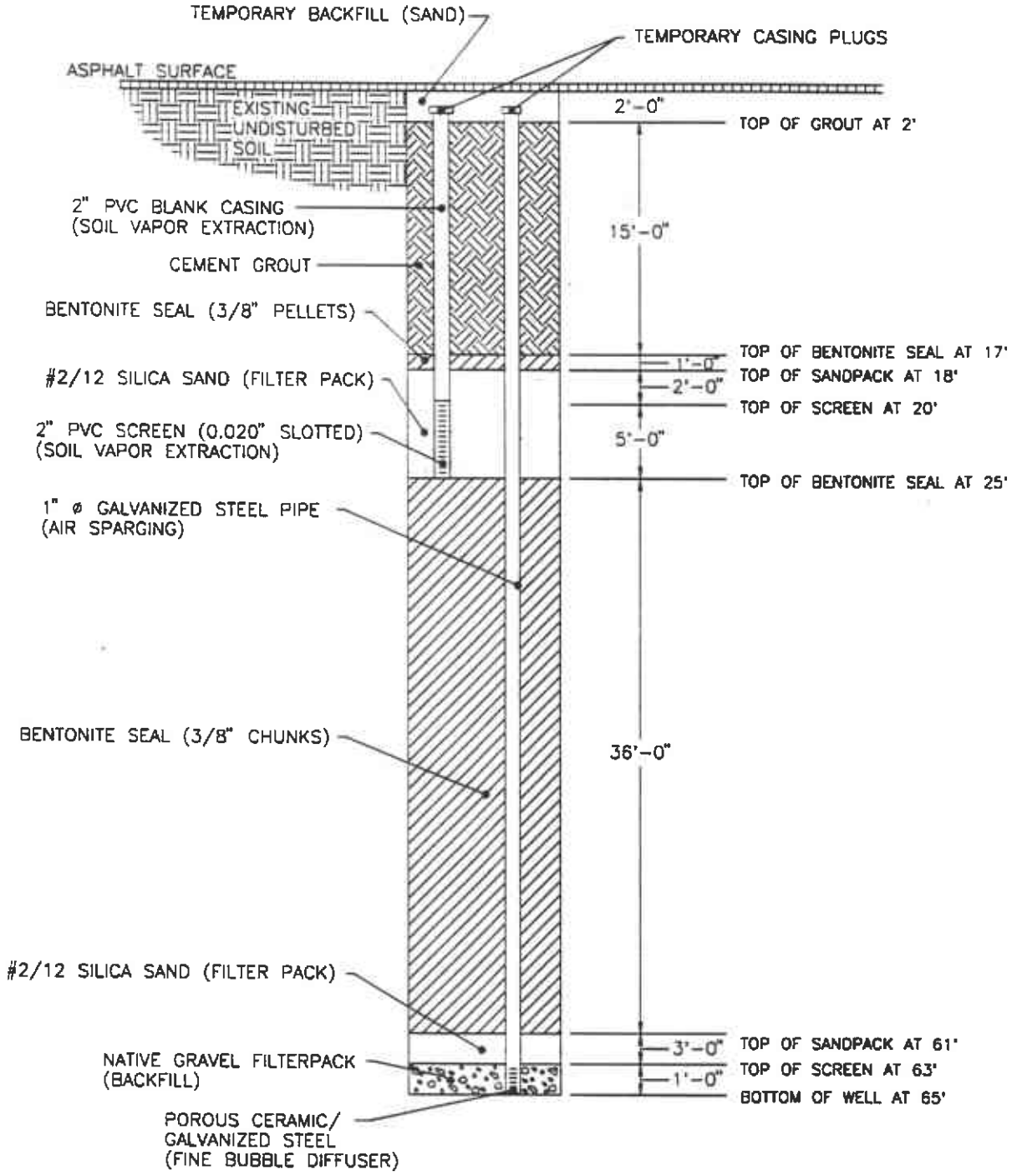
RW-11
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/2/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DTL	FILE: RW12CD.DWG

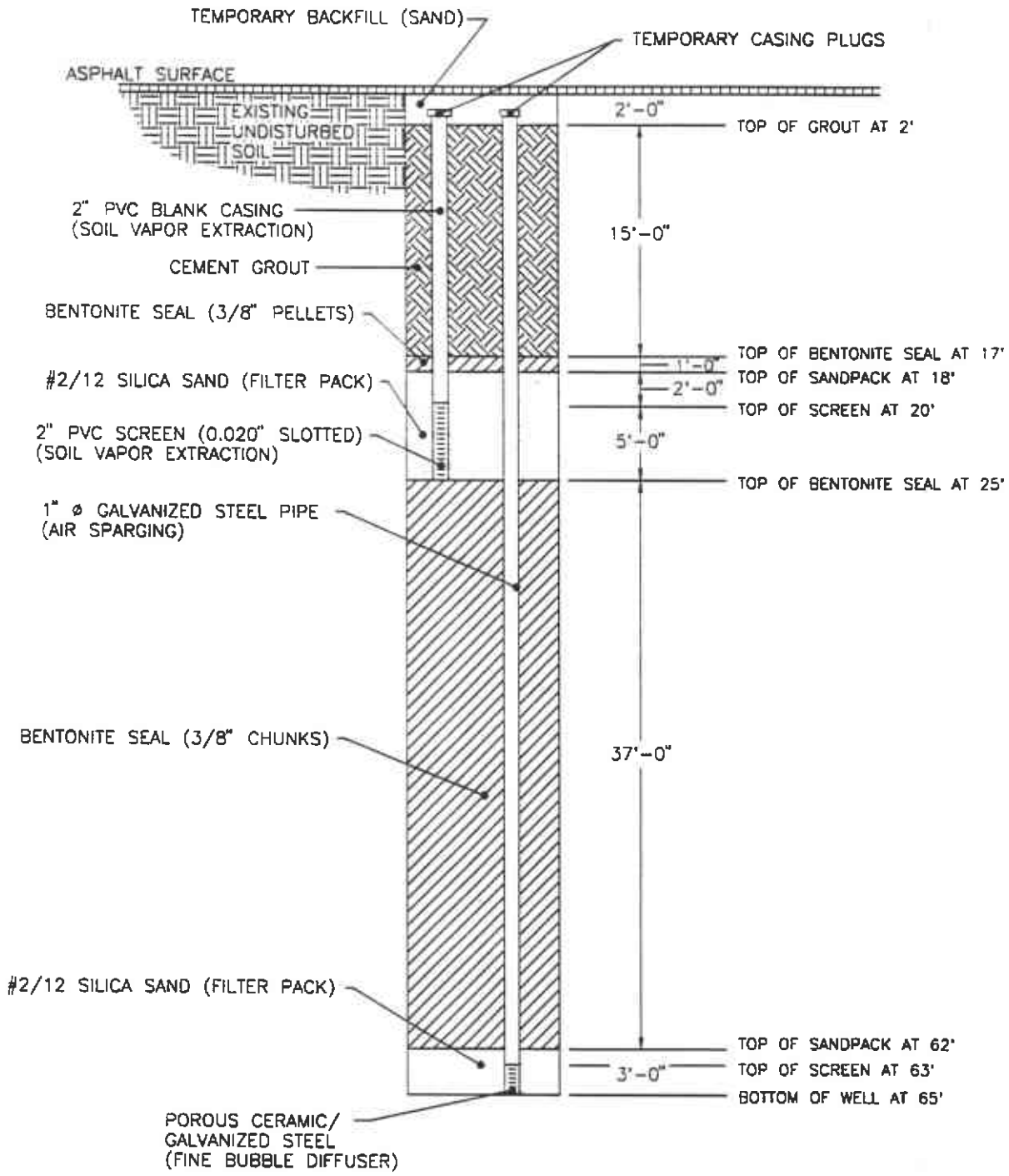
RW-12
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 9/28/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DLC	FILE: RW13CD.DWG

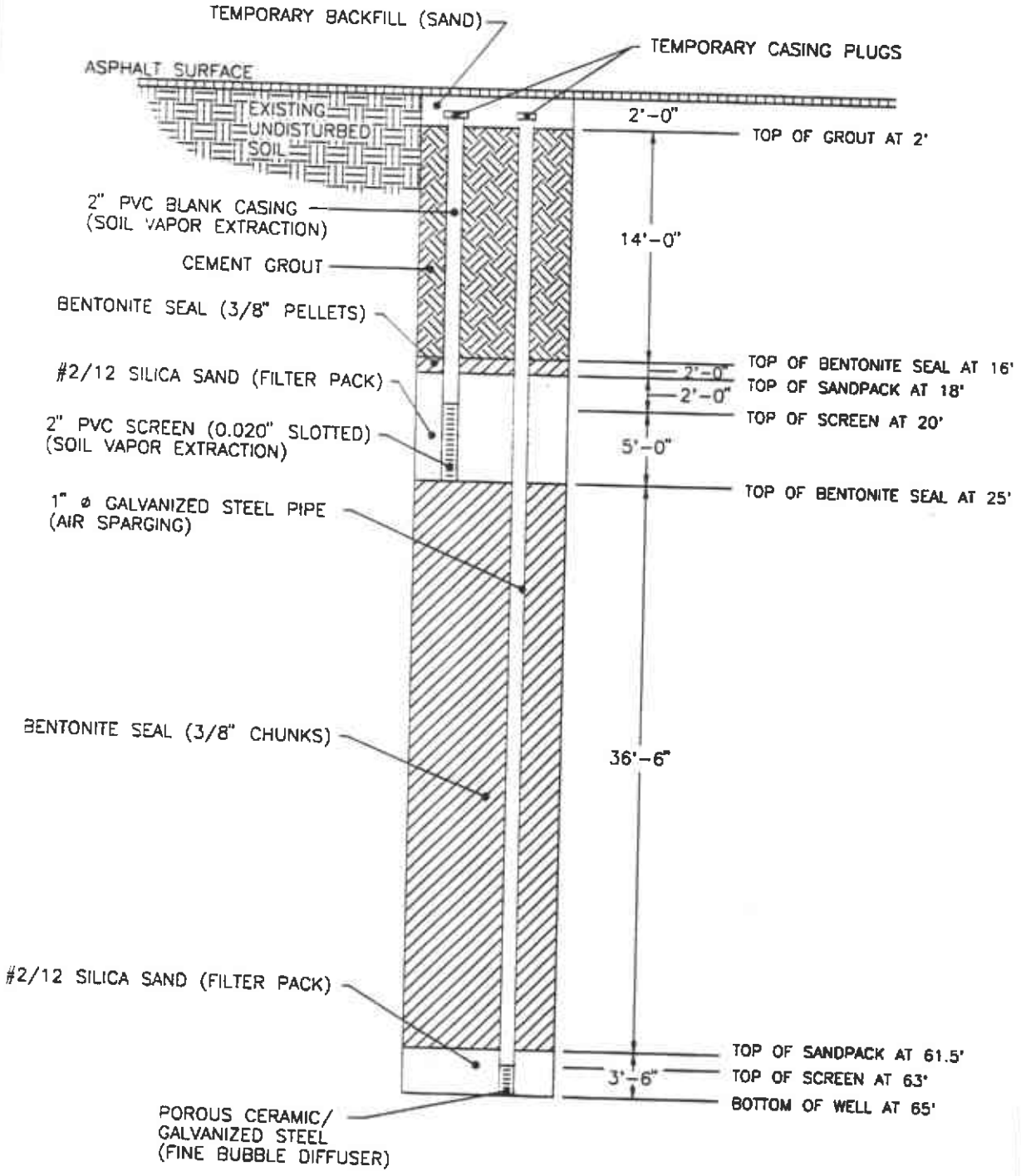
RW-13
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/4/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DTL	FILE: RW14CD.DWG

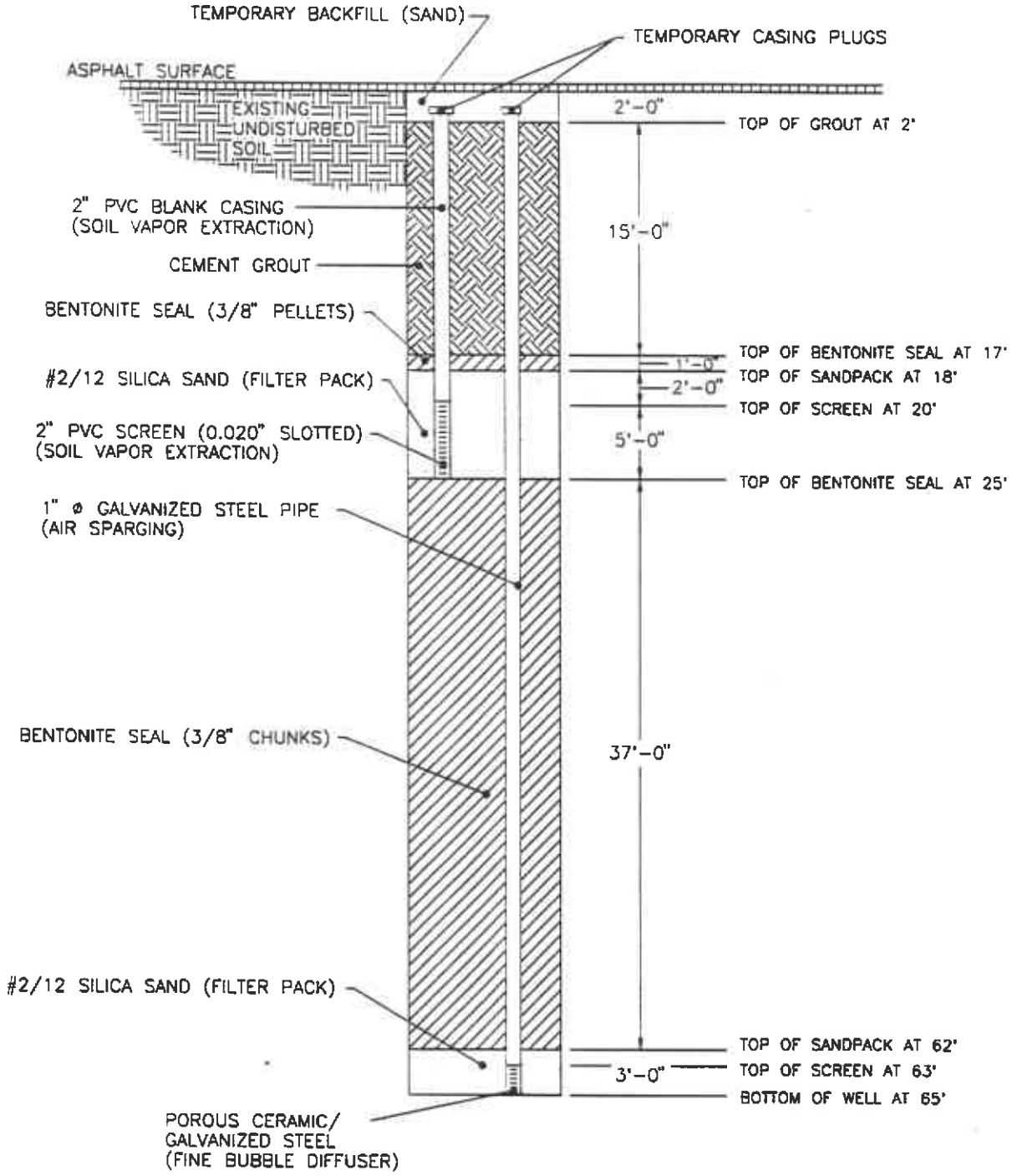
RW-14
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/9/95	REV. NO.: 0
AUTHOR: DTL	DRAWN BY: MP
CK'D BY: GJV	FILE: RW15CD.DWG

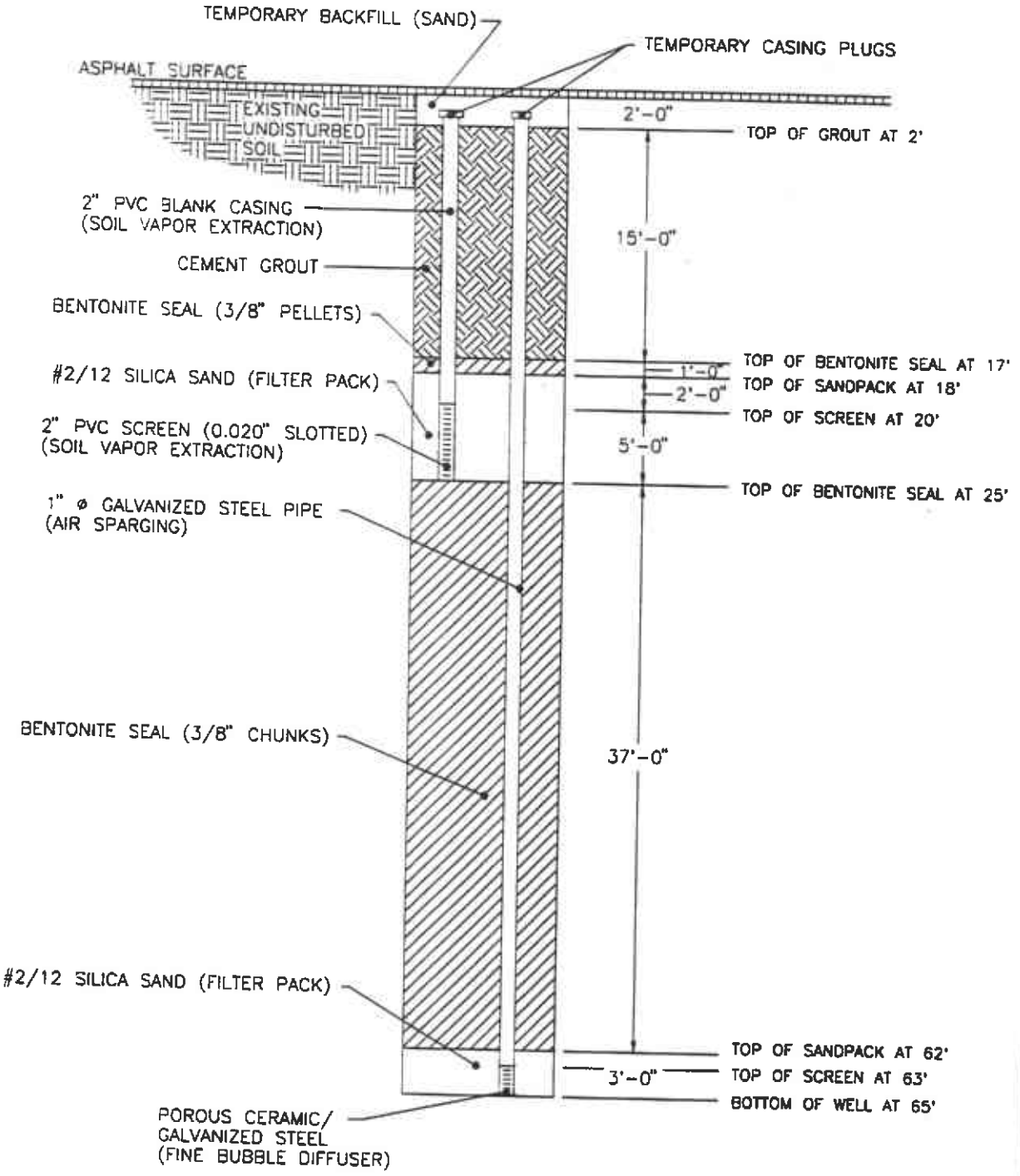
RW-15
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/6/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DTL	FILE: RW16CD.DWG

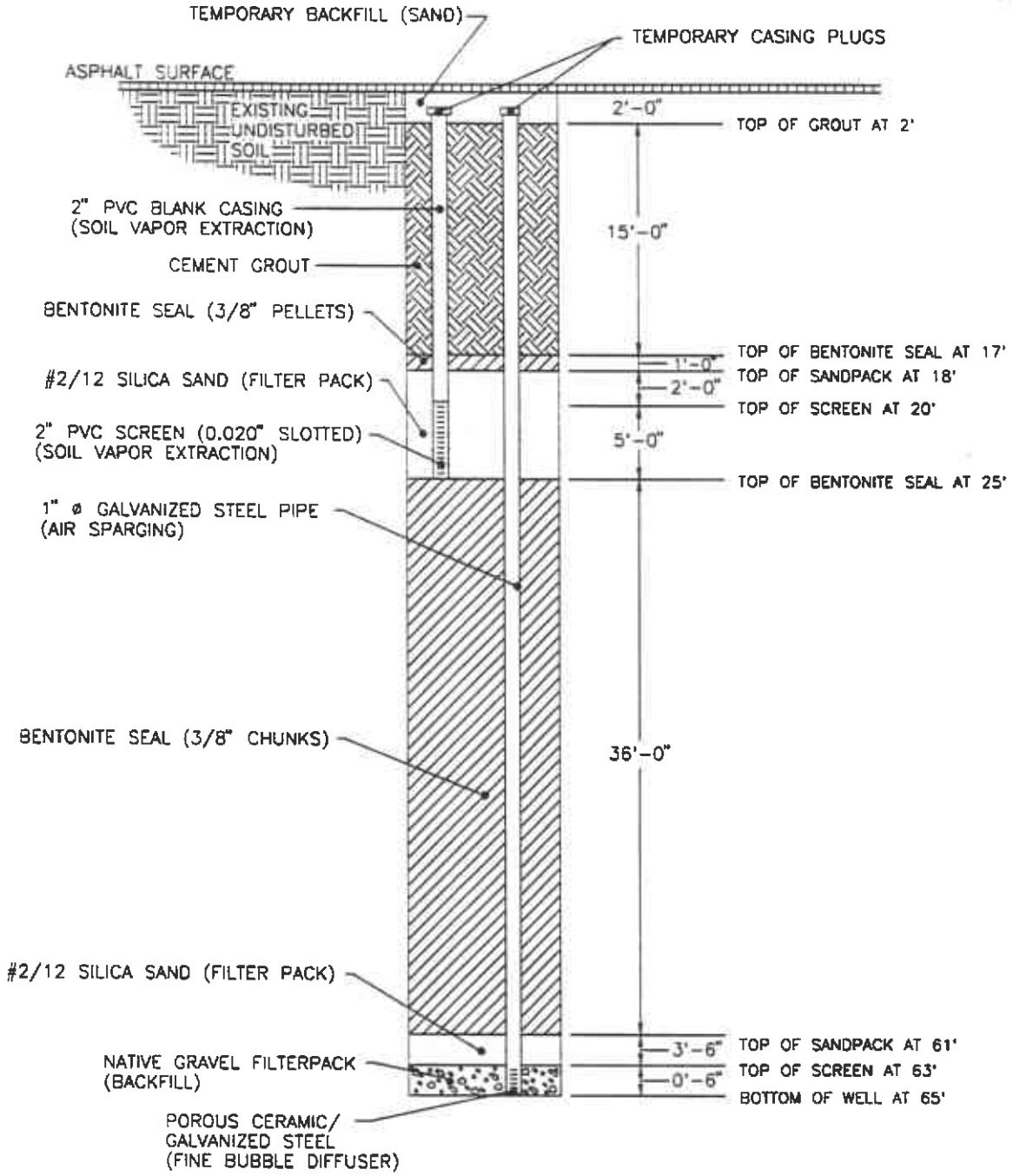
RW-16
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

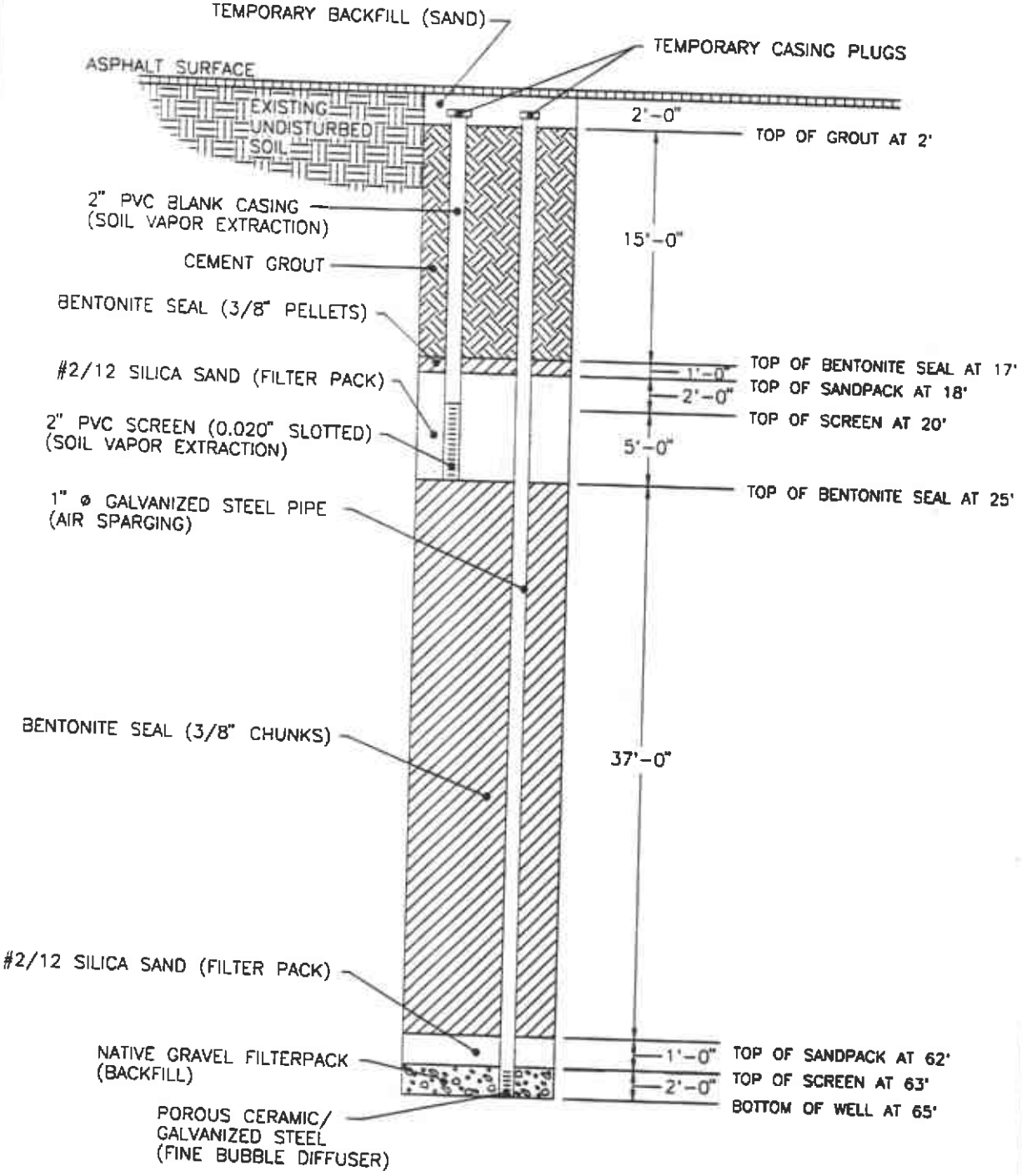
CLIENT: ULTRAMAR INC.	
DATE: 10/3/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DLC	FILE: RW17CD.DWG

RW-17
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL	CLIENT: ULTRAMAR INC.	
	DATE: 9/27/95	REV. NO.: 0
	AUTHOR: GJV	DRAWN BY: MP
	CK'D BY: DLC	FILE: RW18CD.DWG

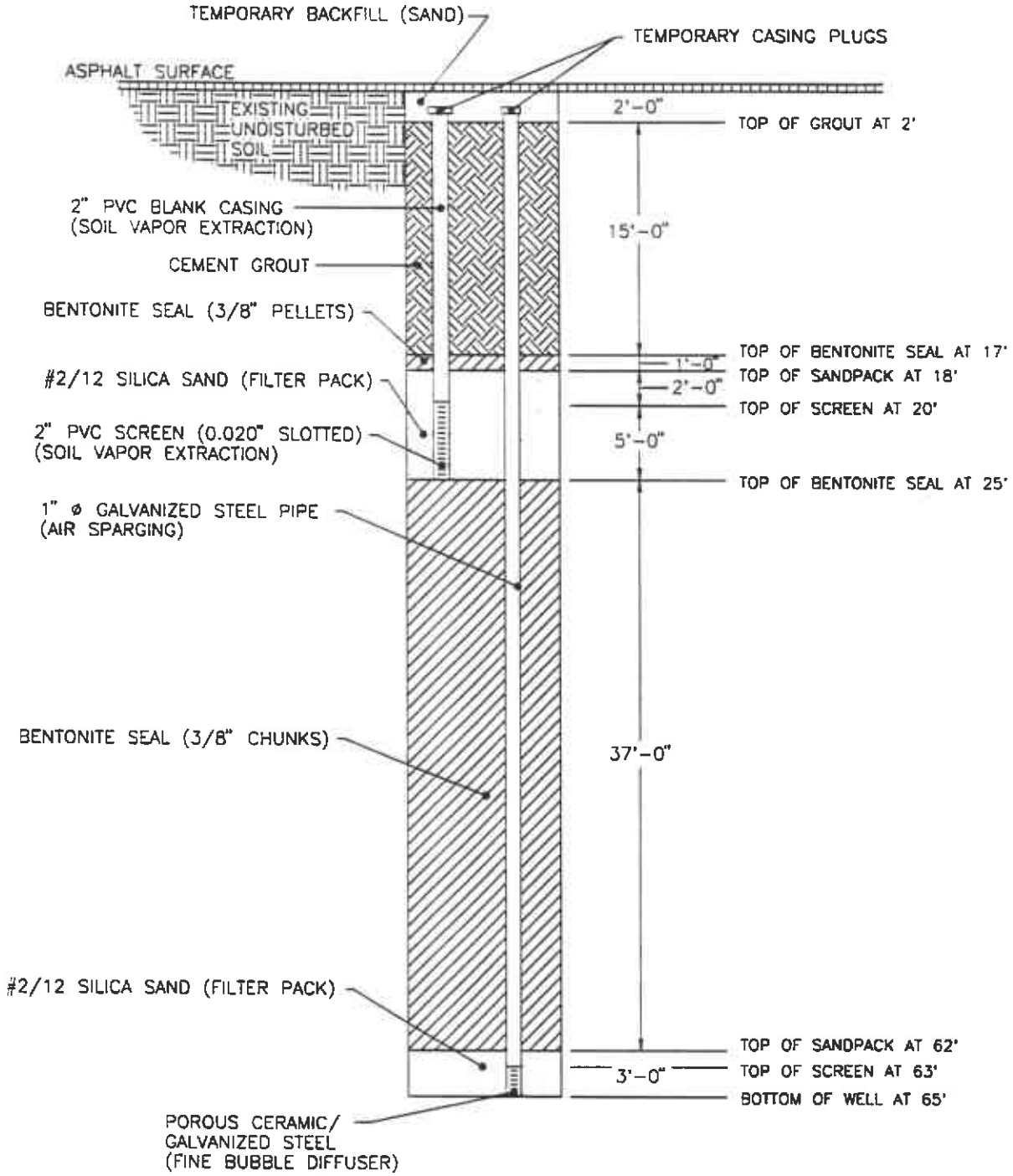
RW-18
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 9/27/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DTL	FILE: RW19CD.DWG

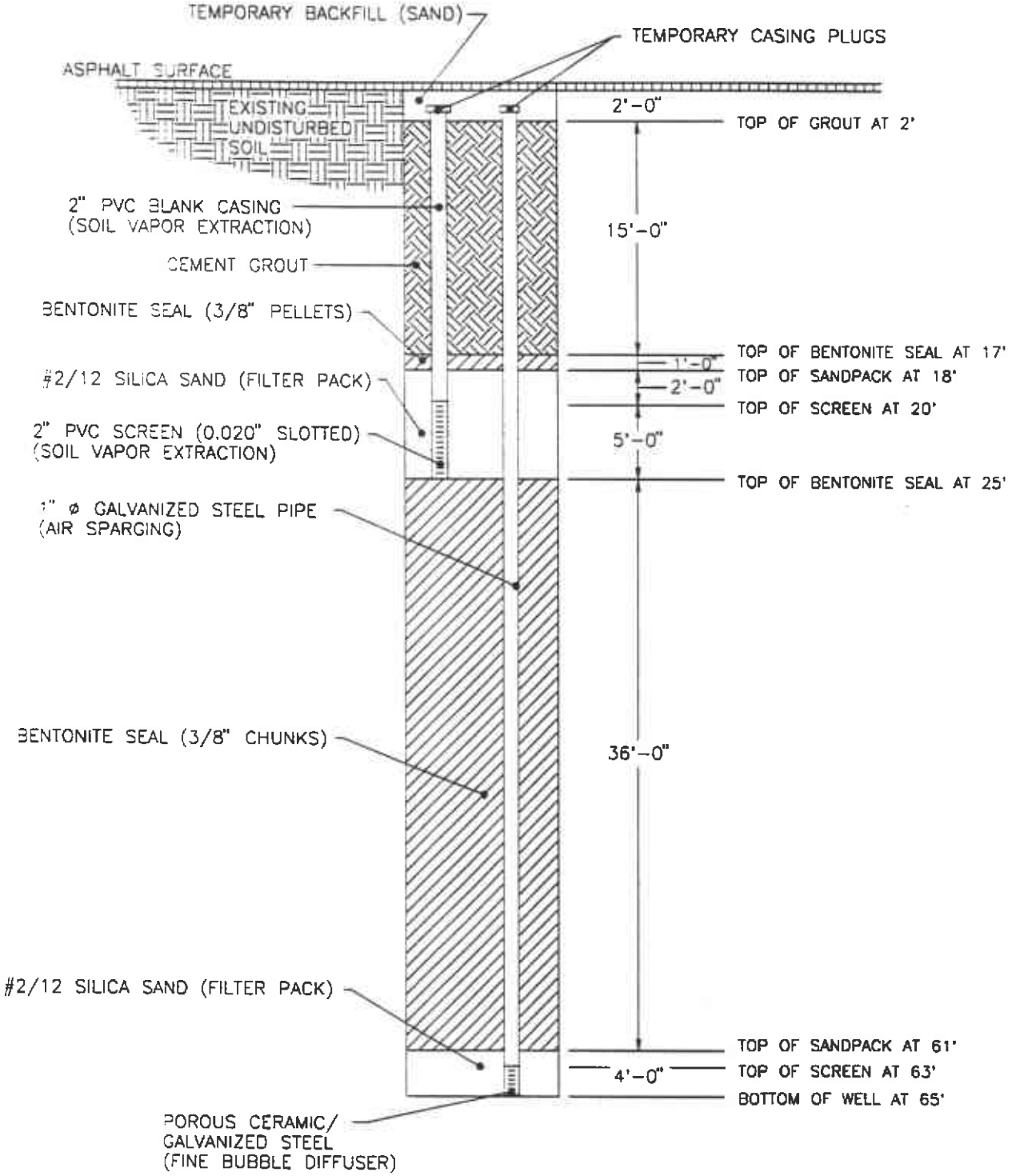
RW-19
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/5/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DTL	FILE: RW17CD.DWG

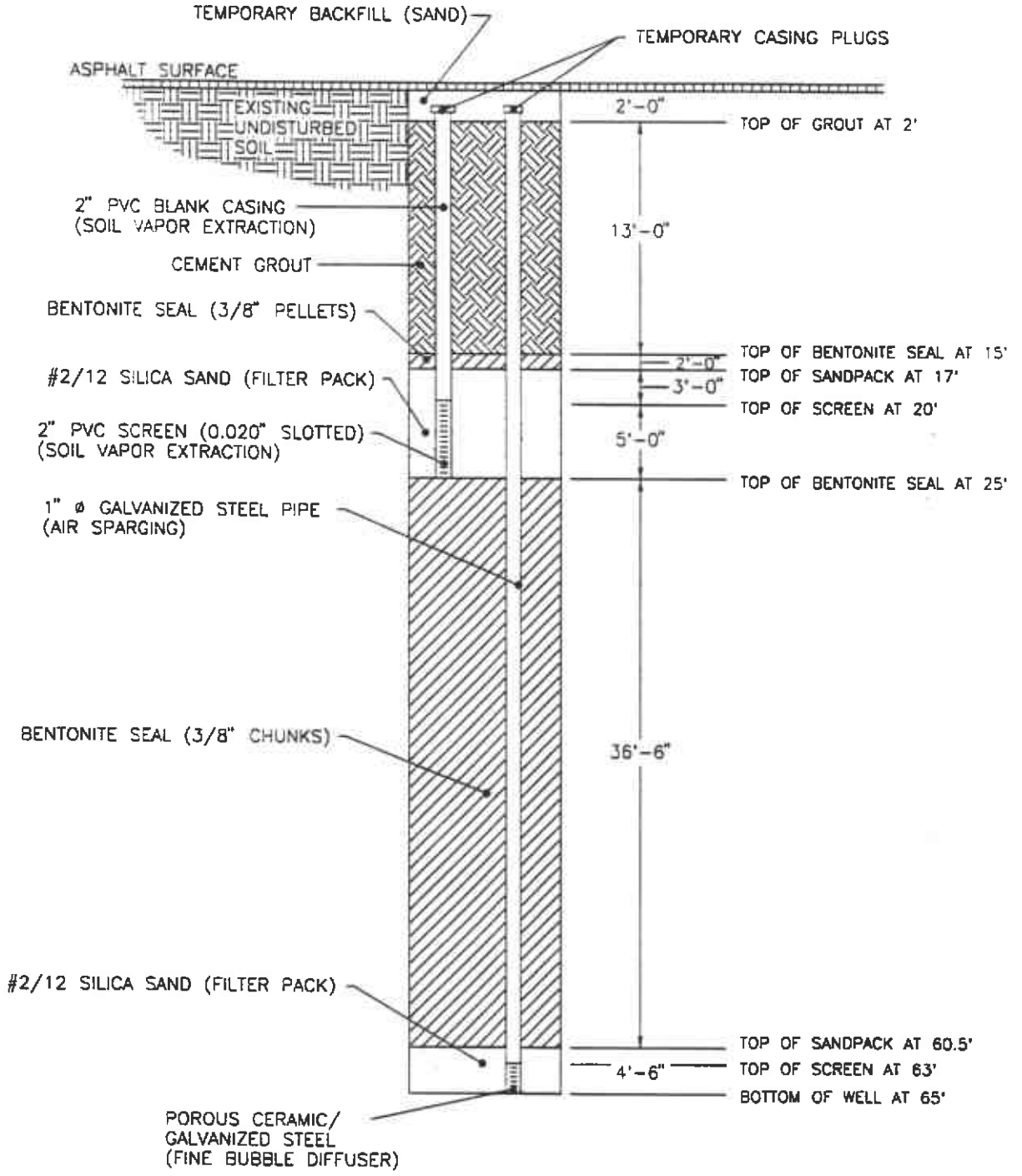
RW-20
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/6/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DTL	FILE: RW21CD.DWG

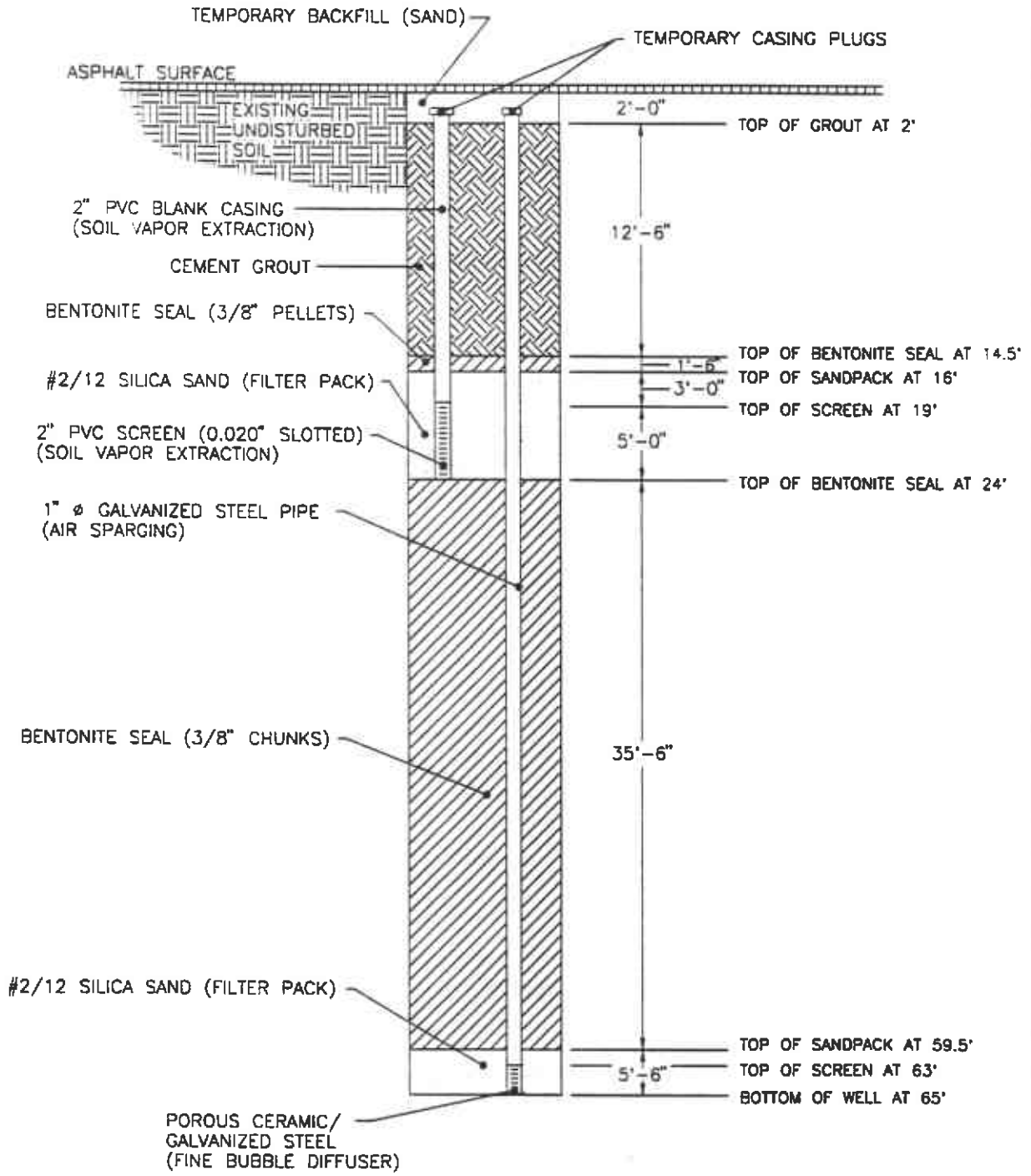
RW-21
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/16/95	REV. NO.: 0
AUTHOR: DTL	DRAWN BY: MP
CK'D BY: GJV	FILE: RW22CD.DWG

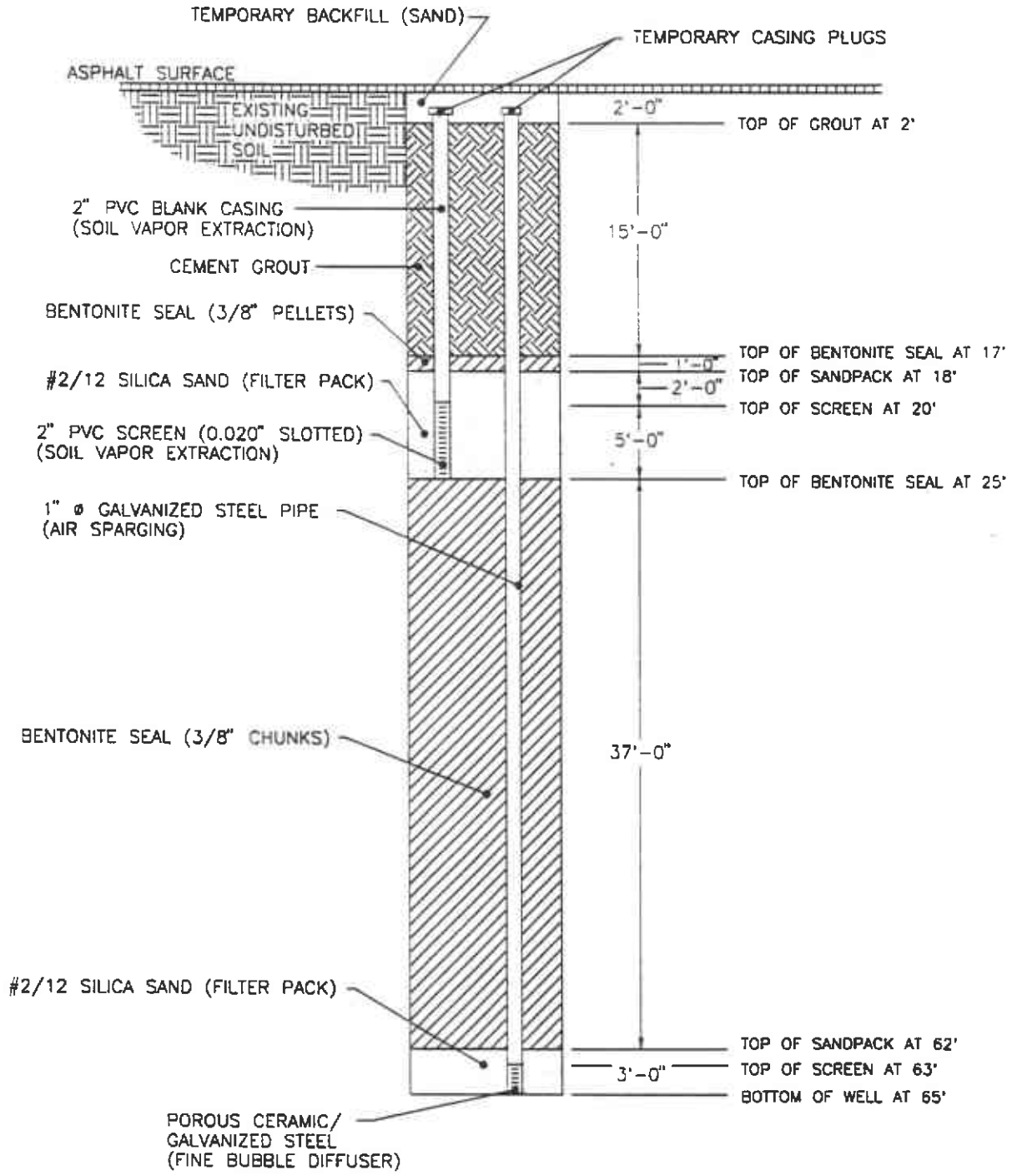
RW-22
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/10/95	REV. NO.: 0
AUTHOR: DTL	DRAWN BY: MP
CK'D BY: GJV	FILE: RW23CD.DWG

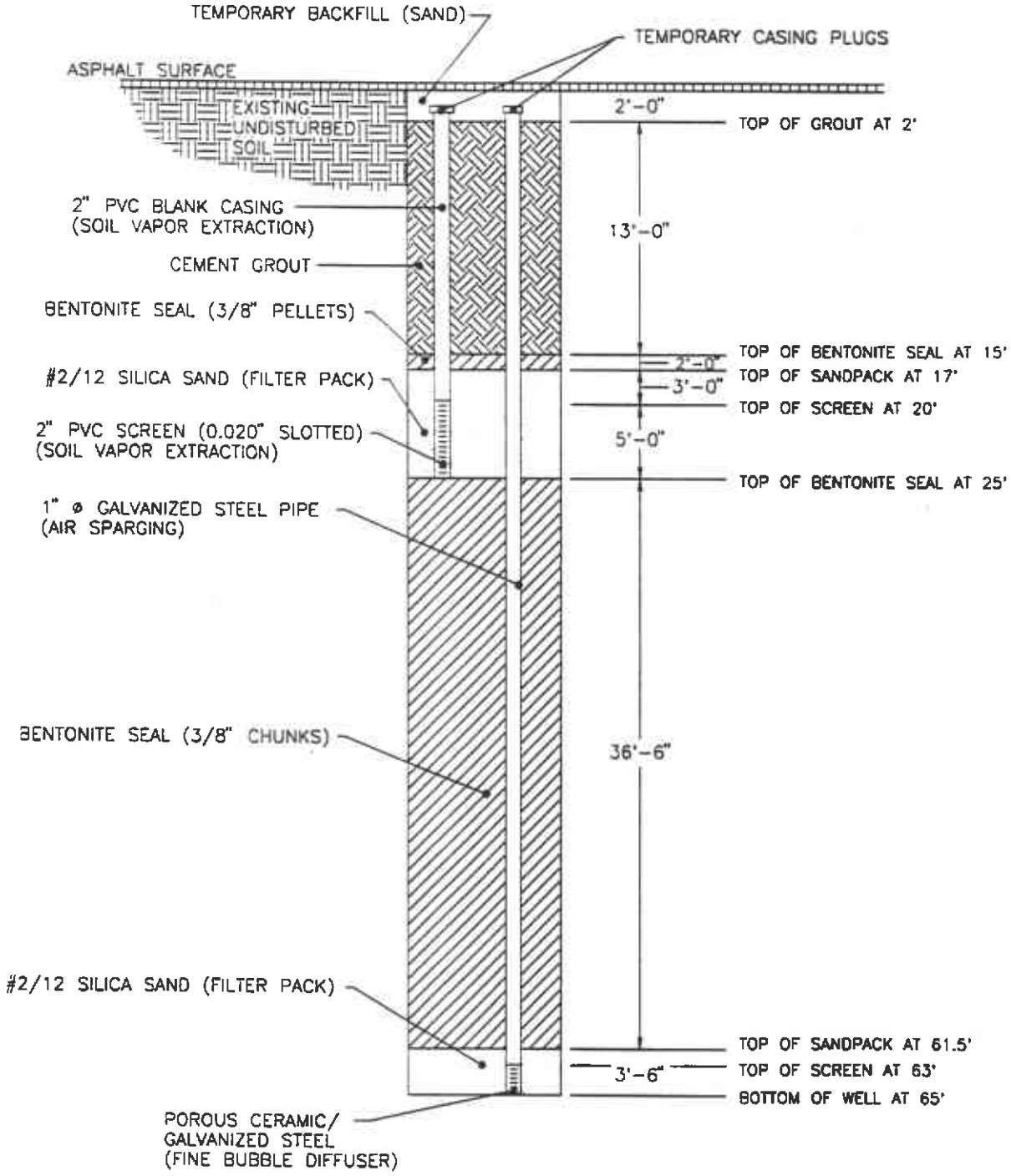
RW-23
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/3/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DTL	FILE: RW24CD.DWG

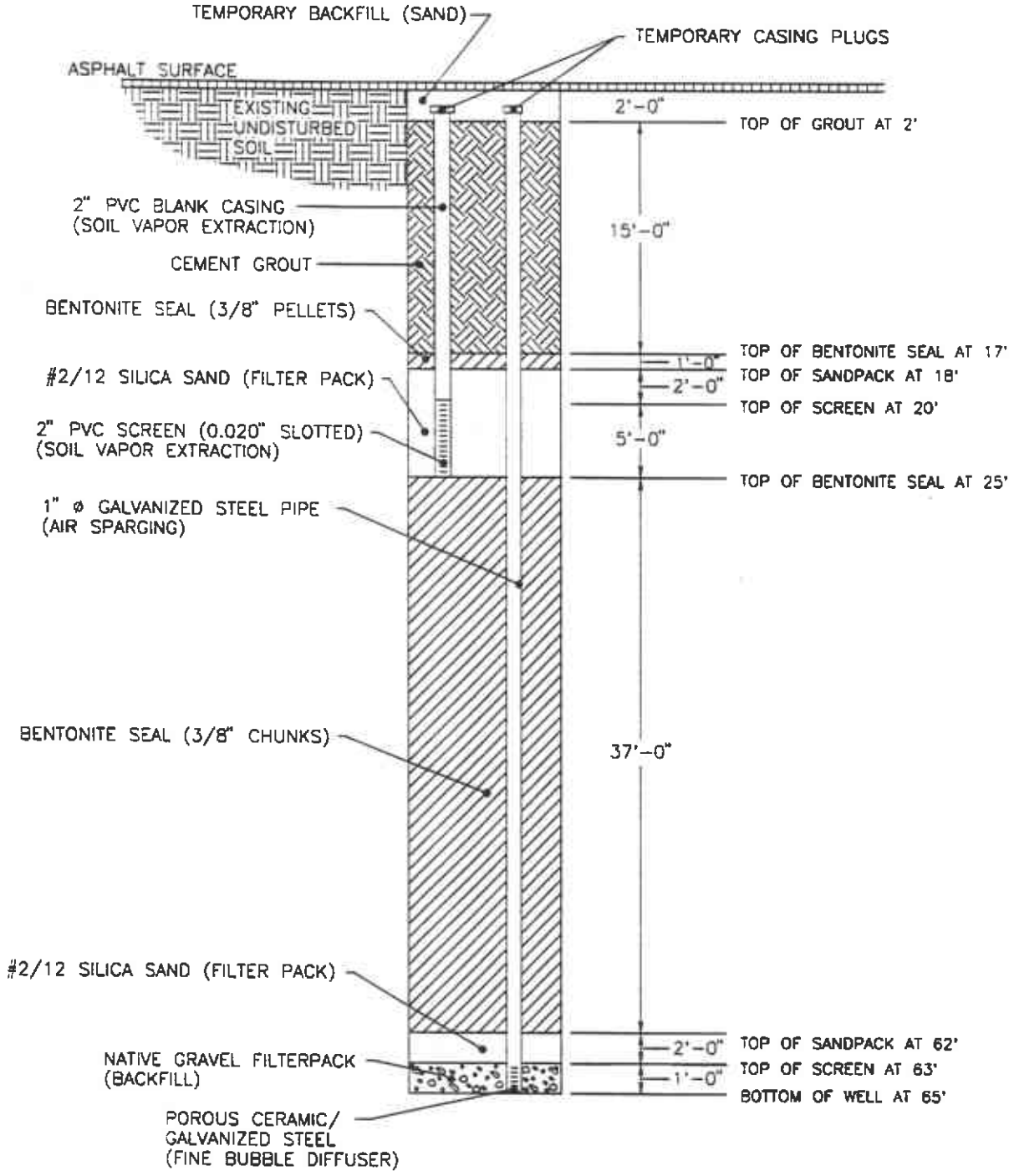
RW-24
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 10/16/95	REV. NO.: 0
AUTHOR: DTL	DRAWN BY: MP
CK'D BY: GJV	FILE: RW25CD.DWG

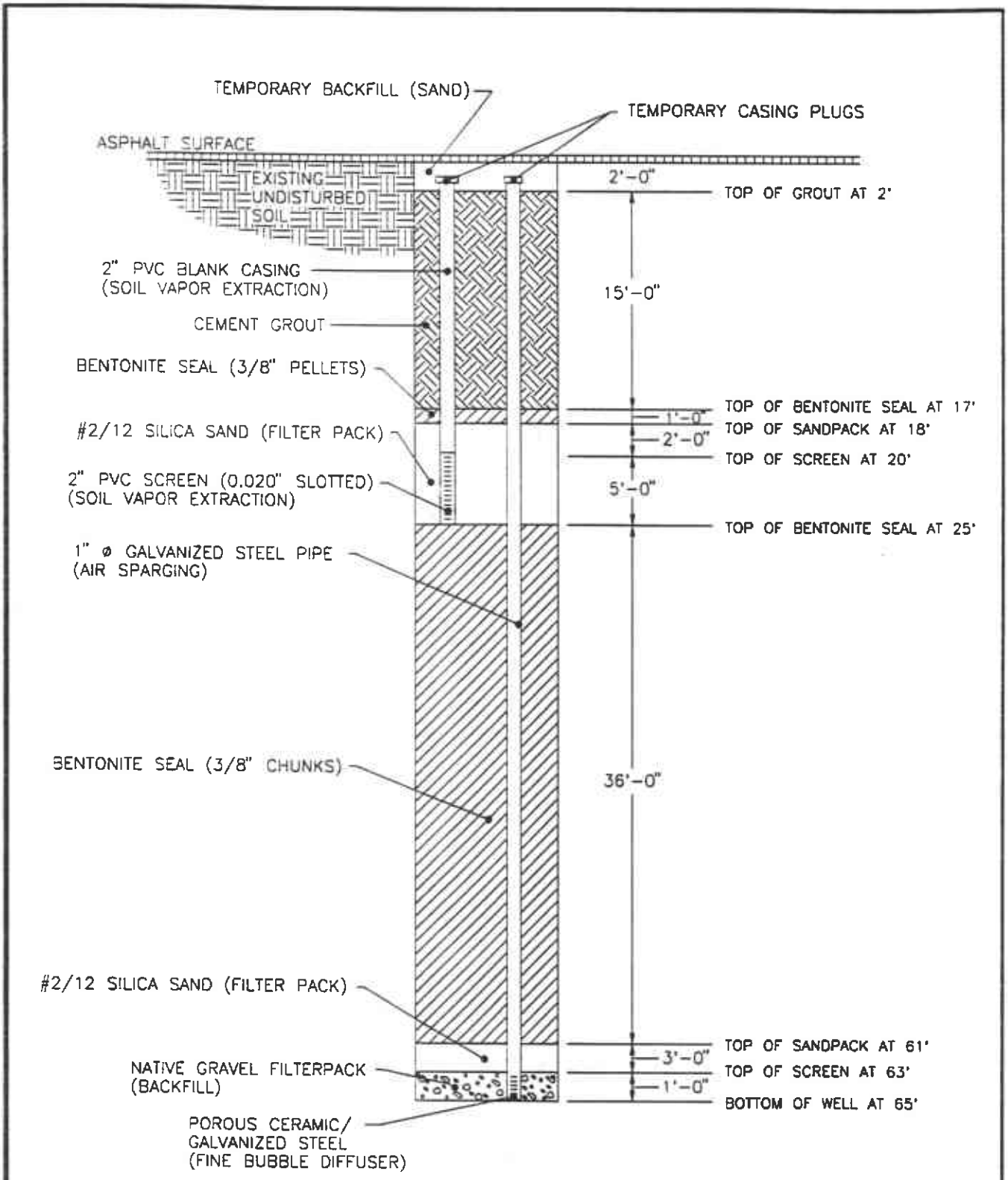
RW-25
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 9/28/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DTL	FILE: RW26CD.DWG

RW-26
WELL INSTALLATION DETAIL
BEACON STATION NO. 604



GCL

CLIENT: ULTRAMAR INC.	
DATE: 9/26/95	REV. NO.: 0
AUTHOR: GJV	DRAWN BY: MP
CK'D BY: DLC	FILE: RW27CD.DWG

RW-27
WELL INSTALLATION DETAIL
BEACON STATION NO. 604