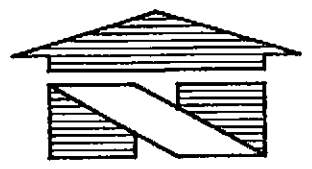


# TANK & LINE SITE PLAN

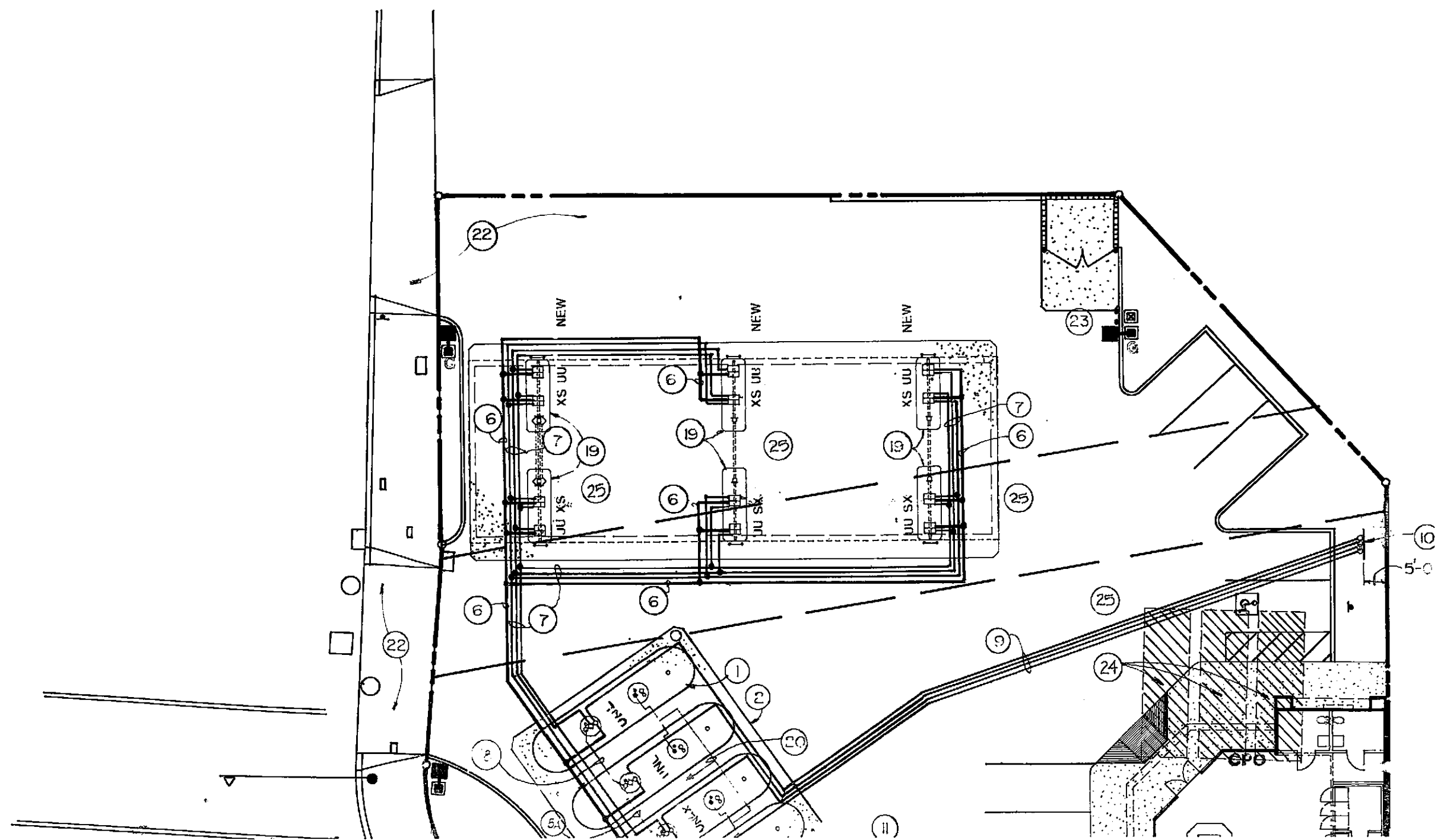
SCALE: 1" = 20'

## WET HOLE INSTALLATION



SCALE: 1" = 20'

HEGENBERGER ROAD



TANK AT 1/2" MIN. DEPTH OF VAPOR RECOVERY LINE AT THE  
CONTAINED. REFER TO DWG. TK-102 FOR PIPING TYPE AND MANUFACTURER.

2. CONTRACTOR SHALL USE FLEXIBLE CONNECTORS FROM THE TANK SUMP TO THE VAPOR RECOVERY MANIFOLD, MAIN PRODUCT LINES AND SIPHON PIPING OR SHALL PROVIDE AT LEAST 4 FEET OF STRAIGHT FRP PIPE RUN BEFORE A CHANGE OF DIRECTION OF MORE THAN 30 DEGREES.
3. SECONDARY CONTAINMENT PIPING IS SHOWN BY NOTE ONLY, NOT GRAPHICALLY. ALL PRODUCT PIPING TO BE DOUBLE CONTAINMENT PIPE. VAPOR RECOVERY AND VENT PIPING TO BE SINGLE WALL PIPE.
4. THESE PLANS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE AN EXACT REPRESENTATION OF THE PIPING LAYOUT. GENERAL CONTRACTOR TO RELOCATE, MODIFY AND ADJUST TO PROVIDE A SYSTEM CONSISTENT WITH THE INTENT OF THE DESIGN. "AS-BUILT" PLANS MUST BE PREPARED UPON THE COMPLETION OF THIS JOB.
5. ALL DIMENSIONS AND CONDITIONS MUST BE CHECKED AND VERIFIED IN THE FIELD BEFORE STARTING ANY WORK. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S ENGINEER FOR HIS DECISION BEFORE PROCEEDING WITH THE WORK.
6. TANKS SHALL BE INSTALLED PER ARCO DRAWINGS AND/OR TANK MANUFACTURER'S SPECIFICATIONS, WHICHEVER ARE STRICTER. GENERAL CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE O.S.H.A. REQUIREMENTS.
7. TANK SYSTEM TO BE INSPECTED BY YOLO COUNTY HEALTH DEPARTMENT, HAZARDOUS MATERIALS DIVISION, AND CITY OF WEST SACRAMENTO FIRE DEPARTMENT. FOUR (4) SEPARATE CONSTRUCTION PHASES:
  1. SETTING OF TANKS.
  2. NFPA 30 TEST-PRIMARY PIPING AND TANKS.
  3. INSPECTION OF ALL SECONDARY CONTAINMENT (TANK TOPS MUST BE VISIBLE ALONG ENTIRE LENGTH OF TANKS INCLUDING PRESSURE TESTS AND CORROSION PROTECTION).
  4. FINAL SYSTEM INSPECTION, INCLUDING ALL PORTIONS OF THE LEAK DETECTION SYSTEMS.
8. RESULTS OF THE PRECISION TEST (PERFORMED BY ARCO) SHALL BE FORWARDED TO AND APPROVED BY YOLO COUNTY ENVIRONMENTAL HEALTH PRIOR TO TANK SYSTEM BEING PLACED IN OPERATION.
9. ALL AIR QUALITY TESTS AND INSPECTIONS SHALL BE PERFORMED AND RESULTS SUBMITTED TO THE YOLO/SOLANO AIR POLLUTION CONTROL DISTRICT FOR APPROVAL PRIOR TO OPERATING THE TANK AND DISPENSING SYSTEM.
10. THE ENTIRE UNDERGROUND STORAGE TANK SYSTEM, INCLUDING PIPING, COUPLING, SEALANTS, ETC., SHALL BE COMPATIBLE WITH THE PRODUCT STORED.
11. METALLIC RISER AND UNDERGROUND METALLIC ITEMS SHALL BE WRAPPED WITH CALPICO POLYETHYLENE TAPE OR EQUAL.

**NOTE:**

**COORDINATE PRODUCT PIPING AT CANOPY WITH  
CANOPY FOUNDATION PLAN SEE SHEET S.C.**

**TANK ELEVATION:** START WITH 18" MIN. DEPTH OF VAPOR RECOVERY LINE AT THE FARTHEST DISPENSER AND SLOPE 1/4" PER FOOT AND ADD 12" AT THE TANK. ADD 13" (FOR 3" PIPE) OR 8" (FOR 2" PIPE) FOR A CHANGE IN PIPING DIRECTION OTHER THAN 90° OR 45°. SET TANKS SLIGHTLY DEEPER THAN CALCULATED AS PRECAUTION, AND 4 FEET MIN. BELOW FINISH GRADE.

TANKS SHALL BE INSTALLED PER ARCO DRAWINGS AND/OR TANK MANUFACTURER'S RECOMMENDATIONS, WHICHEVER IS STRICTER. GENERAL CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE O.S.H.A. REQUIREMENTS FOR SLOPE PROTECTION OR SHORING FOR THE TANK EXCAVATION. BASE BID QUOTES SHALL INCLUDE THE COST FOR SLOPE PROTECTION OF EXCAVATED WALLS, CONCRETE DEADMEN, DEWATERING AND FILTER FABRIC. REFER TO SHEET TK-109 DETAIL #17 FOR DETAILS. THE G.C. SHALL PROVIDE AN ALTERNATE BID TO PROVIDE SHORING IN LIEU OF SLOPE PROTECTION.

2. INSTALL 6" REINFORCED CONCRETE TANK SLAB. SET MANHOLE COVERS 1-1/2" ABOVE SLAB. SEE DETAIL #16 ON DWG. TK-109.
3. FOUR (4) 4" FILLS WITH OVERFILL PROTECTION DEVICE. SEE DWG. TK-103.
4. FOUR (4) 3" PHASE I VAPOR RECOVERY FITTINGS (TWO POINT SYSTEM). SEE DWG. TK-103.
5. THREE (3) 1-1/2 HP SUBMERSIBLE PUMPS (PRESSURE SYSTEM) WITH "RED JACKET"/"TOKHEIM" LEAK DETECTOR. SEE DWG. TK-103.
6. INSTALL (1) 3" SINGLE WALL VAPOR RECOVERY LINE TO UNL TANK AND MANIFOLD WITH 2" DIA. PIPE TO OTHER TANKS. SLOPE 1/4" PER FOOT MIN. ON ALL PIPING. SEE DETAILS AND SECTIONS ON DWG. TK-106.
7. INSTALL THREE (3) 2" (WITHIN 3") DOUBLE WALL PRODUCT LINES. LINES TO BE EQUIPPED WITH LEAK MONITOR IN PIPING SUMP ATTACHED TO TANK WIRED FOR TURBINE SHUT DOWN. SEE DWG. TK-110 FOR WIRING DIAGRAM. SLOPE 1/4" PER FOOT TO TANKS. SEE DETAIL #8 ON DWG. TK-105 FOR TYPICAL PIPING ARRANGEMENT AT TANK.
8. INSTALL "API" RONAN ELECTRONIC TANK AND LINE ALARM CONTROL BOX MODEL # X76S IN BUILDING. SEE DWG. TK-110 FOR LEAK DETECTION AND DISPENSER WIRING DIAGRAM.
9. INSTALL FOUR (4) 2" FIBERGLASS VENT LINES. SLOPE 1/4" PER FOOT TO TANKS.
10. INSTALL FOUR (4) 2" DIAMETER BLACK IRON VENT RISERS (ONE FOR EACH TANK) TO BE A MINIMUM OF 12' ABOVE GRADE. SEE DETAIL #3 ON DWG. TK-104.
11. INSTALL CONDUITS AND CONDUCTORS AND/OR PULLROPES FOR PUMPS, MONITORING EQUIPMENT, FUTURE MONITORING EQUIPMENT AND DISPENSERS AS SHOWN ON SCHEMATIC DIAGRAM ON DRAWING TK-110, TK-111 AND ELECTRICAL DRAWINGS. ALL CONDUITS LEAVING CLASS I HAZARDOUS AREAS SHALL BE SEALED PER N.E.C. AND LOCAL REQUIREMENTS.
12. INSTALL FOUR (4) ANNULAR SPACE MONITORS (MANHOLE COVERS TO BE WATERTIGHT). SEE DWG. TK-103.
13. INSTALL BALL FLOAT VENT VALVE/EXTRACTOR ASSEMBLY FOR VENT AND VAPOR CONNECTION. SEE DWG. TK-103.
14. INSTALL RONAN LS-3 CONTAINMENT SUMP LIQUID SENSOR AT LOW POINT IN SUMP (TYPICAL AT EACH SUMP). SEE DETAIL ON DWG. TK-103.
15. FUTURE GAUGE RISERS.
16. INSTALL INSPECTION WELLS (TYPICAL OF 2) AS SPECIFIED BY DETAIL ON DWG. TK-103.
17. FOR IDENTIFICATION MARKINGS AT TANK MANHOLES AND INSPECTION WELLS, SEE DETAILS #18 AND #19 ON DWG. TK-109.
18. INSTALL ONE (1) 2" DIA. ACTIVE SIPHON LINE AS SHOWN ON DETAILS #5, #6 AND #7 ON DWG. TK-105. PIPING MATERIALS TO BE SAME AS PRODUCT PIPING.
- 18A. INSTALL TWO (2) 2" DIA. INACTIVE SIPHON LINES AS SHOWN ON DETAILS #5, #6 AND #7 ON DWG. TK-105. PIPING MATERIALS TO BE SAME AS PRODUCT PIPING.
19. CONSTRUCT DISPENSER ISLANDS AND DRIVE SLABS AS INDICATED ON DWGS. SDIC 1595 AND M-420 AND INSTALL DUAL DISPENSERS WITH COAXIAL VAPOR RECOVERY, HOSES AND NOZZLES AND RETRACTORS. SEE DRAWINGS TK-106, TK-107 AND TK-108 FOR TYPICAL CONNECTION DETAILS.

**ARCO Products Company**

Division of Atlantic Richfield Company


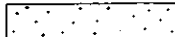


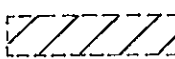

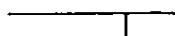


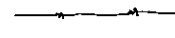
**Design & Engineering**  
**1055 West Seventh St.**  
**P.O. Box 2570, Los Angeles, CA. 90051-0570**

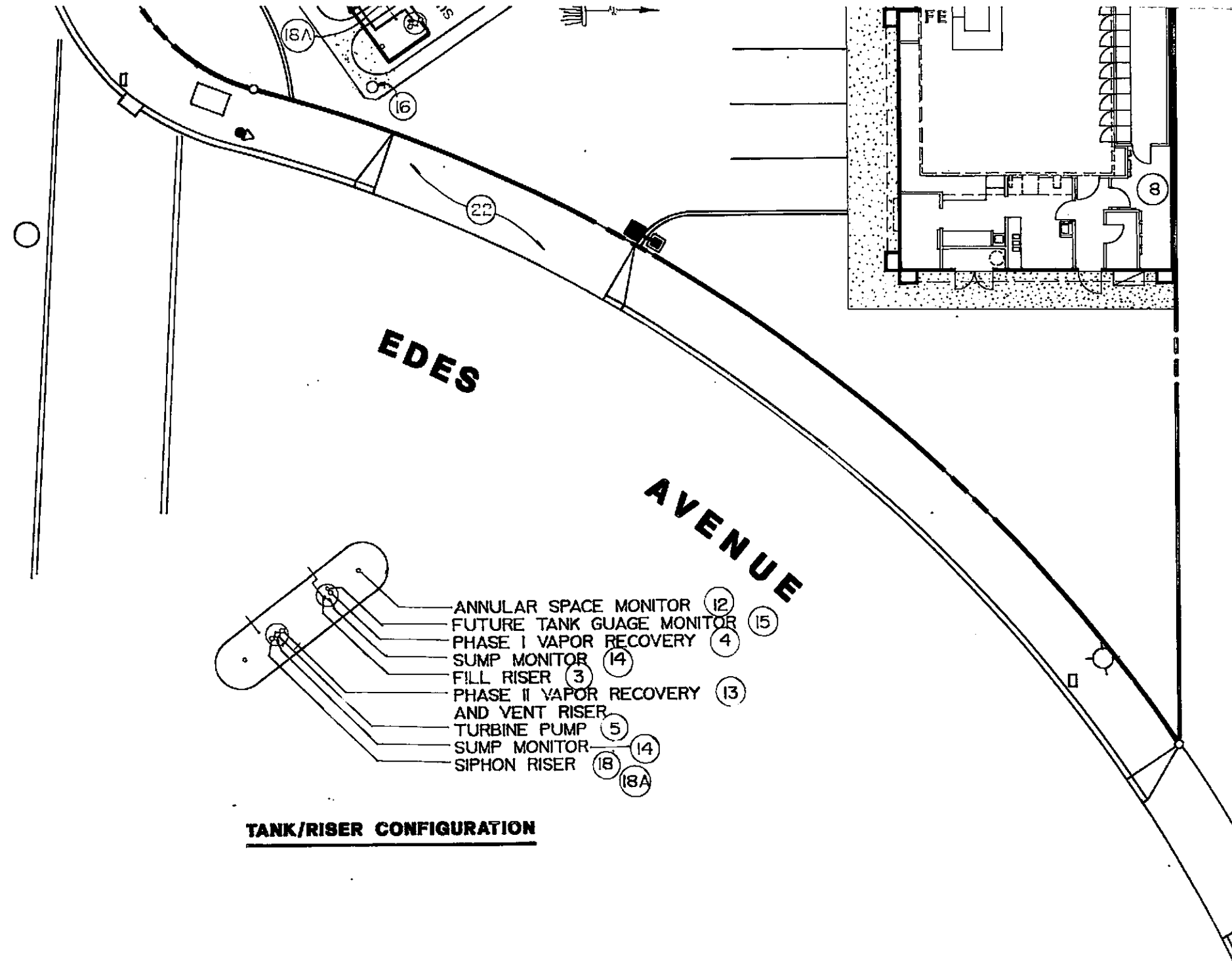
**Retail Marketing**

**ROAD @ EDES AVENUE**

**AN**

**LEGEND:**

-  CATCH BASIN & DRAIN
-  EXISTING CONCRETE
-  NEW CONCRETE
-  NEW A.C. PAVEMENT
-  EXISTING UNDERGROUND STORAGE TANKS
- SUP or S** SUPER UNLEADED
- UNL or U** UNLEADED
- REG or R** REGULAR
- FG** FIBERGLASS
- STL** STEEL
- E** MAIN ELECTRICAL PANEL
-  2" PIPE W/CONNECTION
-  2" PIPE - NO CONNECTION
-  FILL RISER
-  TURBINE PUMP
-  NEW ELECTRICAL CONDUIT
- FE** FIRE EXTINGUISHER
- +** FIRST AID KIT
- W** MAIN WATER SHUT-OFF
- NG** NATURAL GAS SHUT-OFF ( IF PRESENT )
- AM** ABSORBENT MATERIAL
- FH** FIRE HYDRANT ( CLOSEST ) ON PROPERTY OR IN THE DIRECTION OF NEAREST ONE
- CPO** CONSUMER PACKAGED MOTOR OIL ( IN STORE / STORAGE )
- CO2** CYLINDERS FOR SOFT DRINK DISPENSERS
- G** LOCATION OF ARCOMATIC
- G** OTHER EMERGENCY PUMP SHUT-OFF SWITCHES: OUTSIDE AT GAS COUNTER




**TANK/RISER CONFIGURATION**

**DISTRIBUTION APPROVAL**

**APPROVED FOR LOCATION AND GRADES**

ARCO Fac. No. 4494 Terminal RICHMOND


8/16/19  
**SUPERVISOR'S SIGNATURE** **DATE**

NOTE TO SUPERVISOR :  
DO NOT SIGN UNTIL PLAN MEETS WITH YOUR APPROVAL.

**ENVIRONMENTAL H**

ALL WORKERS ON THIS PROJECT  
RECEIVED O.S.H.A. APPROVED  
SAFETY TRAINING.

**Ⓞ** = EMERGENCY PUMP

- 20 INSTALL STATIC GROUNDING SYSTEM PER DWG. TK-111.
- 21 INSTALL GUARD POSTS PER DETAIL ON DWG. M-420, SHEET 2.
- 22 PROJECT TO BE SUFFICIENTLY BARRICADED DURING CONSTRUCTION TO PREVENT ANY UNAUTHORIZED TRESPASS (VEHICULAR OR PEDESTRIAN).
- 23 EMERGENCY PUMP SHUT-OFF SWITCH. MOUNTED ON POLE IN LANDSCAPE AREA. PROVIDE SIGN READING "EMERGENCY PUMP SHUT-OFF SWITCH." SEE ARCHITECTURAL PLANS SHEET A-3, DETAIL 5.
- 24 REMOVE EXISTING TANKS:  
 (2) 10,000 GALLON STEEL TANKS  
 (1) 10,000 GALLON FIBERGLASS TANK  
  
 TANKS SHALL BE REMOVED IN ACCORDANCE WITH ALL APPLICABLE STATE, FEDERAL AND LOCAL REGULATIONS AND REQUIREMENTS. BACKFILL EXISTING HOLE AND PAVE PER ARCO SPECIFICATIONS. REFER TO SHEET C-6 FOR ADDITIONAL SITE DEMOLITION.
- 25 REMOVE ALL EXISTING PRODUCT, VAPOR RETURN AND VENT PIPING WHERE OCCURS. REMOVAL SHALL TAKE PLACE IN A MANNER WHICH DRAINS PIPING INTO TANKS, SEAL CONNECTION TEES. NO PIPING SHALL BE ABANDONED IN PLACE.

# Barghausen Consulting Engineers Inc.

Land Planning, Survey & Engineering Specialists

Home Office: 18215 72nd Ave. So.  
 Kent, Washington 98032  
 (206) 251-6222

California Office:  
 4612 Roseville, Rd.  
 Suite 103  
 North Highlands, CA. 95860  
 (916) 348-3057

**TITLE:** TANK & LINE SITE PLAN

**LOCATION:** 566 HEGENBERGER

No.	Date	Revision
1	8-30-91	REVISED LOCATION OF TANK FIELD

**BEFORE YOU DIG**  
 CALL TOLL FREE: 800-642-2444  
 "UNDERGROUND SERVICE ALERT"  
 (MINIMUM ADVANCE NOTIFICATION OF 48 HOURS REQUIRED)

REFERENCES

1. TITLE 8, ARTICLE 6, 1540, (a), 1  
 DIVISION INDUSTRIAL SAFETY, CONSTRUCTION SAFETY ORDERS

STATUS	INI./DATE
B.C.E., Inc. Engr. Review	<input type="checkbox"/>
Permit Submittal	<input type="checkbox"/>
Plan/Permit Approval	<input type="checkbox"/>
Bid Document	<input type="checkbox"/>

BLDG. TYPE 2,700 S.F. SPANISH, L.H., 2 R.R. AM/PM W/32' x 92' CANOPY	DESIGN BY BJE
FAC. NO. 4104	DRAWN BY AS/LM
	DATE 4-11-91
	SHEET

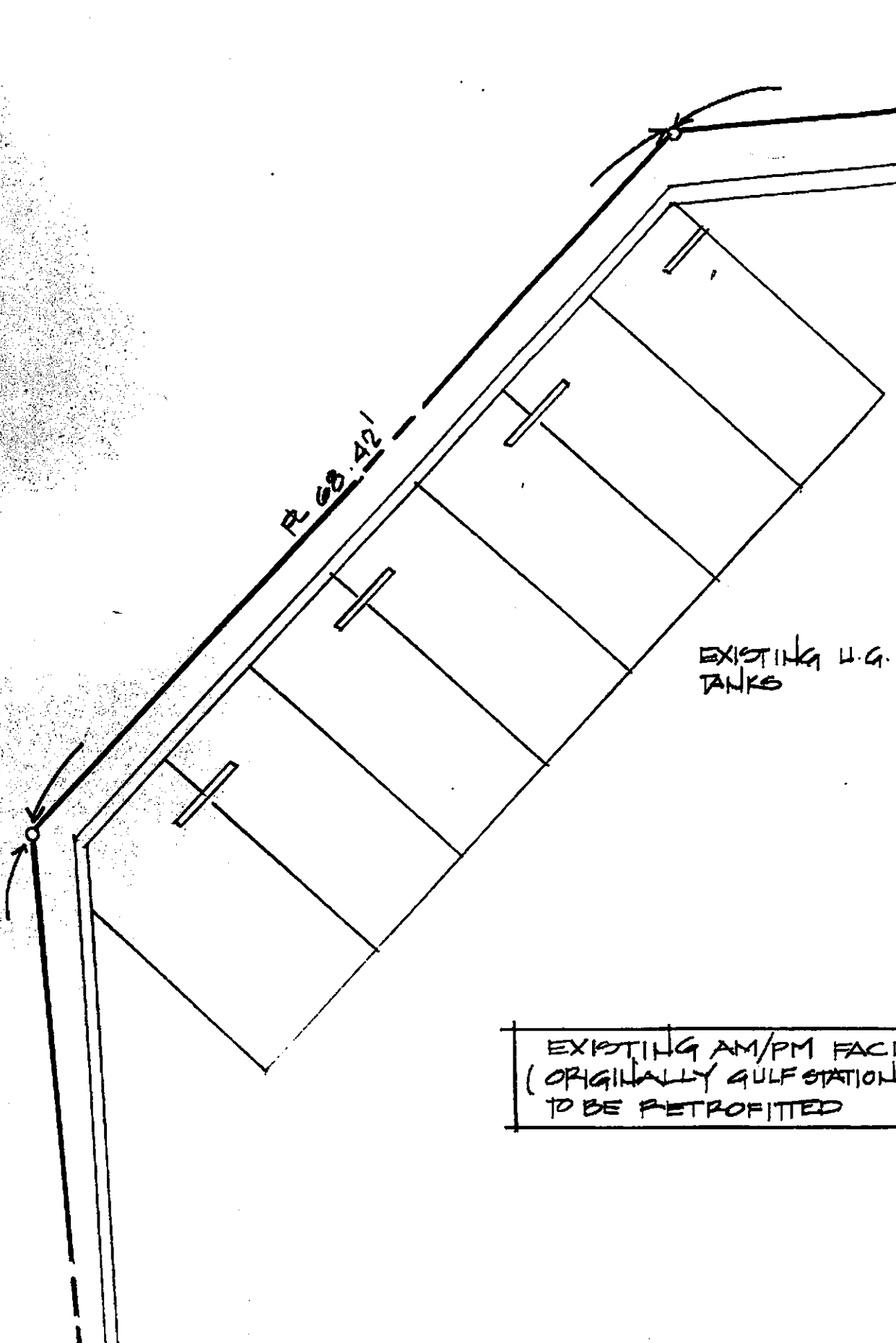
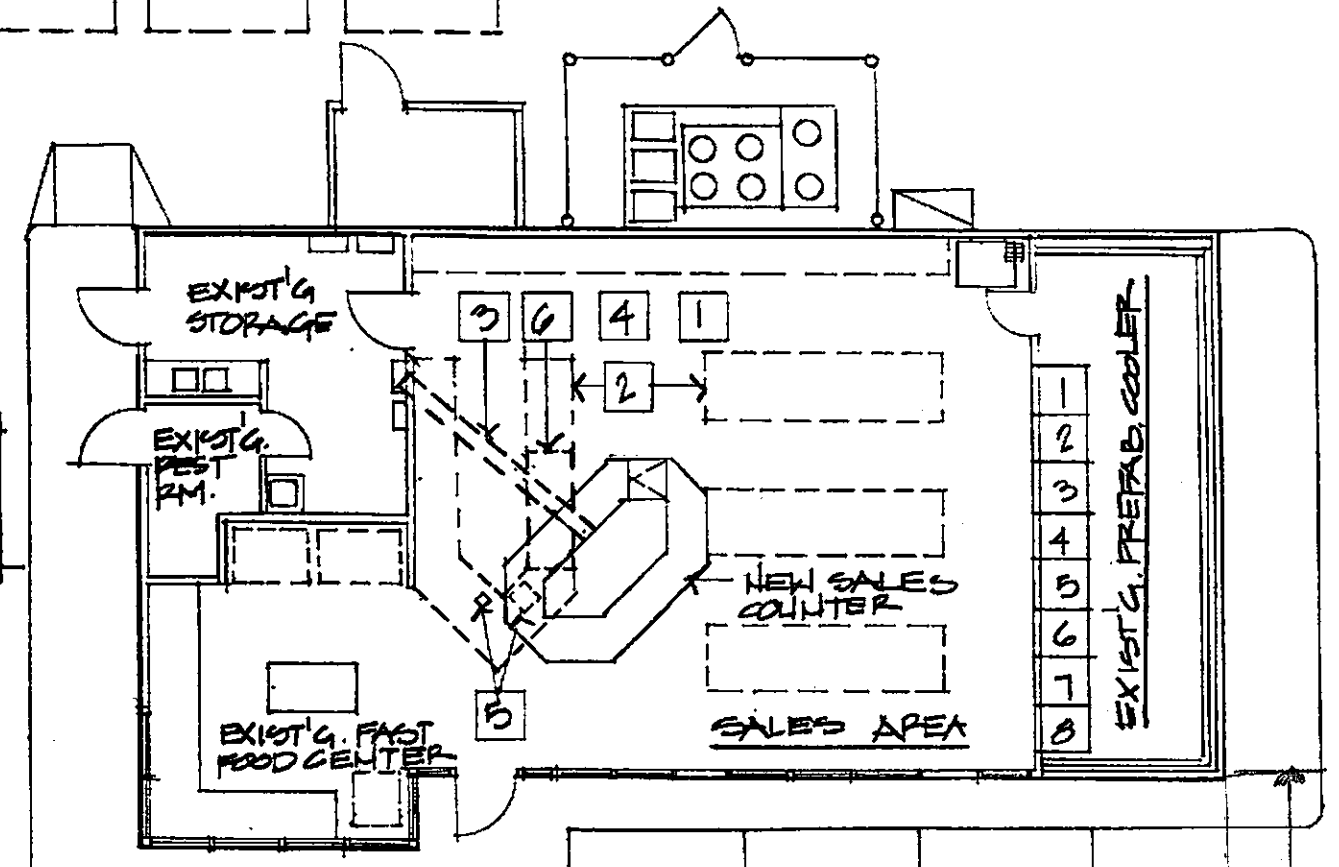
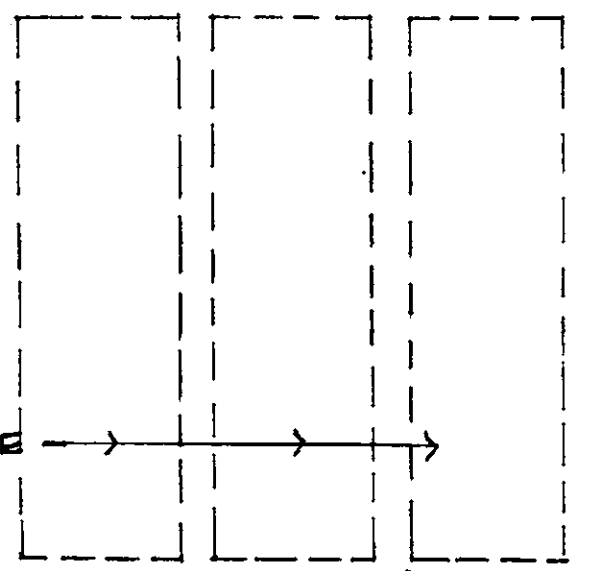
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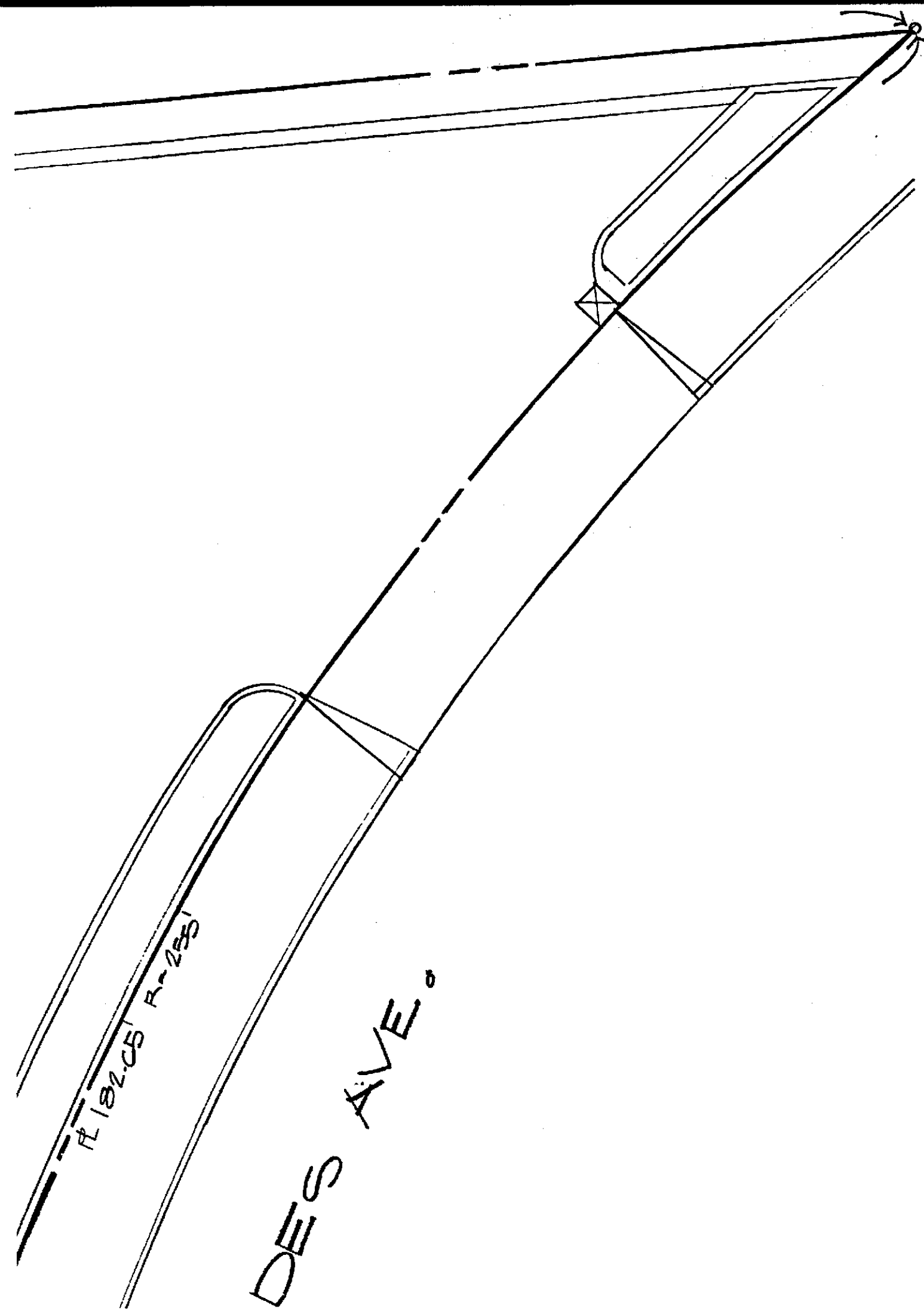
R 184.85'

R 68.42'

EXISTING U.G. SPRING TANKS

EXISTING AM/PM FACILITY (ORIGINALLY GULF STATION - FE. 3F) TO BE RETROFITTED

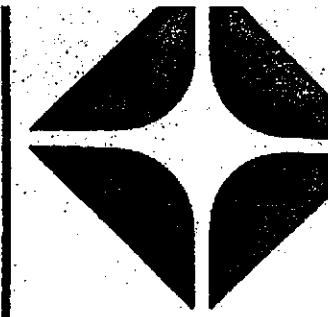




# DEMOLITION NOTES

ALL DIMENSIONS AND CONDITIONS MUST BE CHECKED AND VERIFIED IN THE FIELD BEFORE STARTING ANY WORK. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S ENGINEER FOR HIS DECISION BEFORE PROCEEDING WITH THE WORK.

- 1 REMOVE ALL EQUIPMENT, CONDUITS, FIXTURES, PIPINGS, SHELVINGS, SIGNAGES, ETC. SHOWN DOTTED AND ALL OTHER ELEMENTS THAT INTERFERE WITH AND ARE UNNECESSARY FOR NEW CONSTRUCTION.
- 2 REMOVE SALES COUNTER, WALL COUNTER, GONDOLAS AND WALL SHELVINGS.
- 3 SAW-CUT AND REMOVE PORTION OF FLOOR SLAB FOR THE INSTALLATION OF NEW ELECTRICAL AND SELF SERVE AND PUBLIC ADDRESS CONSOLES CONDUITS.
- 4 REMOVE CEILING, LIGHT FIXTURES, CEILING REGISTERS THAT INTERFERE WITH NEW CONSTRUCTION (LIGHT FIXTURE AND CEILING REGISTER TO BE RELOCATED).
- 5 REMOVE SELF SERVE AND PUBLIC ADDRESS CONSOLES (TO BE RELOCATED).
- 6 REMOVE ILLUMINATED OVERHEAD CIGARETTE RACK (TO BE RELOCATED).



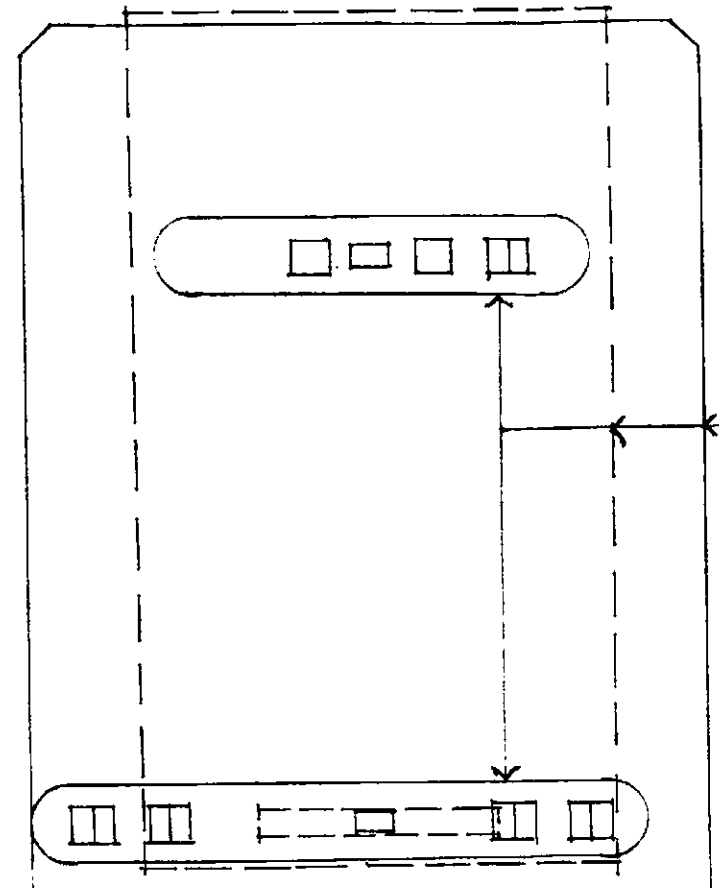
**ARCO Petroleum Products Company**

Division of AtlanticRichfieldCompany

**Retail Marketing • Design & Engineering**  
515 South Flower St., Los Angeles, CA 90071

PL 118.29

7 1/2'



EXISTING DRIVE SLAB,  
PUMP ISLANDS, &  
PIPPENERS

EXISTING AM/FM FACILITY  
I.D. SIGN

EXISTING APPROACH  
LIGHT (TYP.)

EXISTING RAFTER (TYP.)

PL 64.19

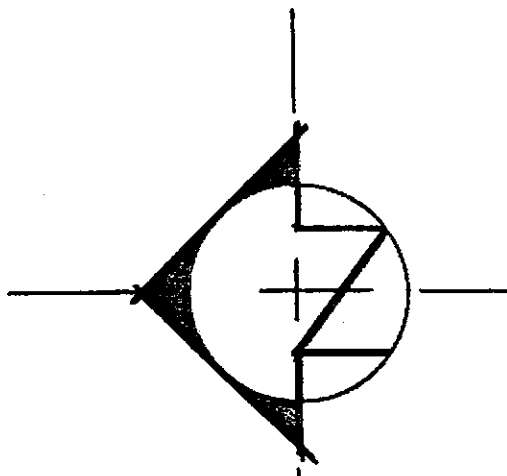
PL 35.70

HERGENBERGER ROAD

SITE & DEMOLT

230 GAL  
WASTE OIL  
TANK

ON PLAN  
1" = 10'-0"



INDEX OF DRAWINGS		
DWG. NO.	SHT. NO.	DESCRIPTIONS
FAC.#4494	A-1	SITE, DEMOLITION PLAN & NOTES.
	A-2	FLOOR PLAN, STORE FIXT. PLAN GRAPHIC PANEL LAYOUT & NOTES
M-409		HOT FOOD AREA PARTITION DET'S.
M-403		WALL COUNTER DET'S.
M-404		SALES COUNTER DET'S.
M-405		HOT FOOD COUNTER DET'S.
M-391		ISLAND COUNTER DET'S.
M-353		CIGARETTE RACK INSTALLATION DET'S.
M-371		SALES SHELVING DET'S. MENU BOARD INSTALLATION DET'S.

DATE	REVISIONS
	FINAL

**ampm** FACILITY  
 HERGENBERGER ROAD & EDES AVE.  
 OAKLAND, CALIF.  
 SITE DEMOLITION PLAN & NOTES

type: PETROFIT  
 draw: **ampm**  
 proj: FAC# 4494  
 date: 5-1  
 sheet: D.L. A