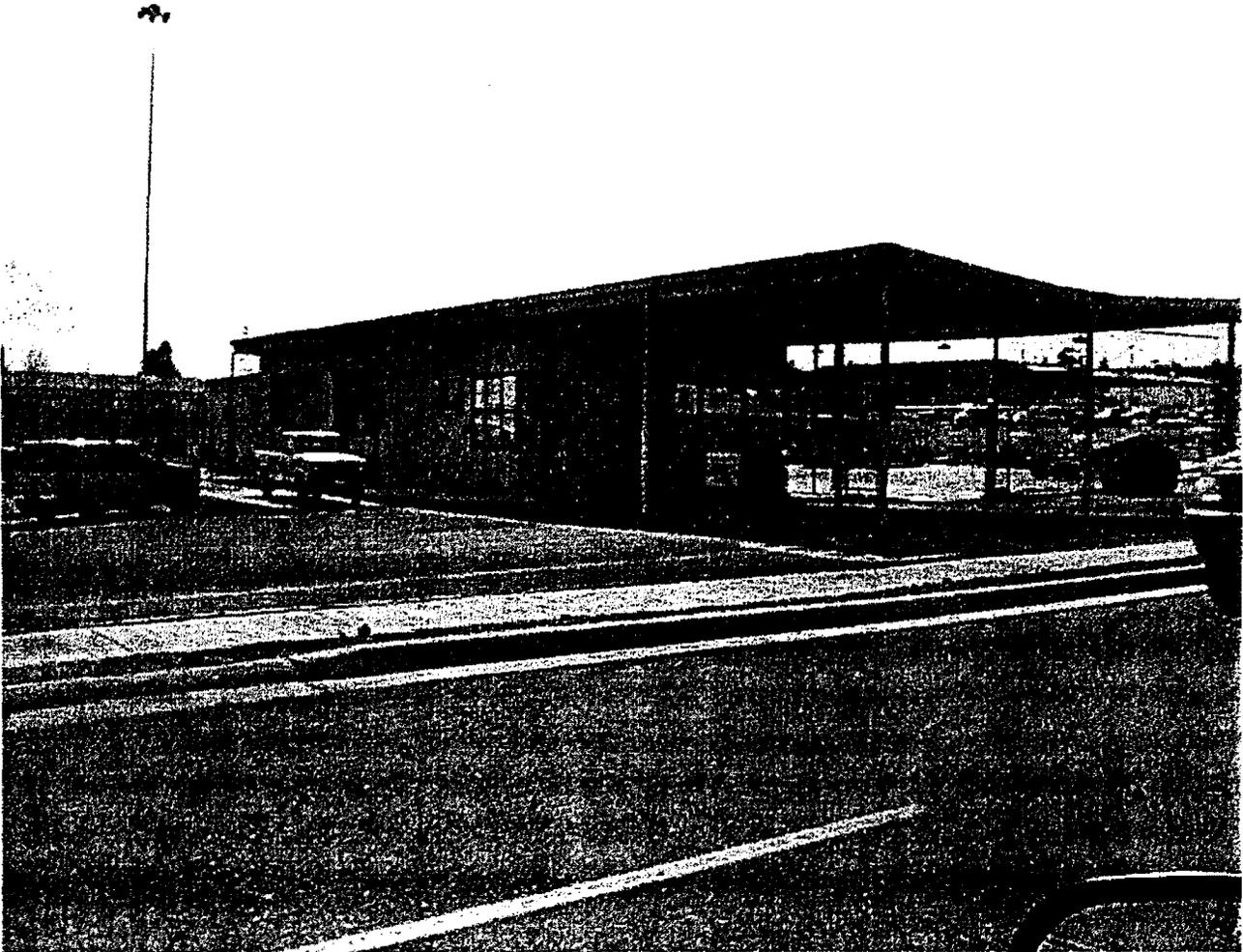
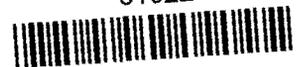


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CHARACTERIZATION REPORT
FOR
THE DECONTAMINATION AND DECOMMISSIONING
OF
TECHNICAL AREA 3
BUILDINGS 36, 224 AND 1233
FOR
LOS ALAMOS NATIONAL LABORATORY



31022



CHARACTERIZATION REPORT
FOR
BUILDINGS 36, 224 AND 1233
AT
TECHNICAL AREA 3
LOS ALAMOS NATIONAL LABORATORY
FOR
DECONTAMINATION & DECOMMISSIONING
GROUP

March 1999

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1 INTRODUCTION

This Characterization Report will describe the results of the characterization performed for Buildings 36, 224 and 1233 at Technical Area (TA)-3. The characterization was performed in accordance with the Characterization Plan (Attachment 1). Specific categories of the characterization which were assessed to determine the potential for the presence of are: a) chemical, b) RCRA, c) TSCA, d) radiological, e) utilities and f) physical hazards. The results of the utilities assessment can be found in Attachment 2, Utilities Report. The characterization was performed in support of the decontamination and decommissioning (D&D) activities planned to commence the second quarter 1999. (Figure 1)

2 SITE HISTORY

The buildings proposed for D&D which were characterized include TA-3-36, a concrete masonry unit (CMU) building, previously used as a gas and service station; TA-3-224, a three-sided open metal storage shed; and TA-3-1233 a small wooden storage shed. All three buildings were constructed during the Manhattan Project/Early Cold War years at Los Alamos. (Figure 2)

Building TA-3-36 was built in 1952 and served as a gas and service station for Los Alamos National Laboratory (LANL) until the late 1990's when it was slated for decommissioning. As originally designed, the "Motor Pool" floor plan consisted of five principle rooms including an office space with a service counter in the far north end of the building, a stock room, lavatory, utility room and a large service room at the south end of the building occupying a total area of approximately 2,945 gross square feet. The north end of the building was used as office space after the pumps were removed. A flammable liquid storeroom, which now serves as a lunch room and storage area of approximately 744 gross square feet, was added after 1952 but before 1983. A sliding gate connects the original section of the building with the addition. (Figure 3)

Building TA-3-224 was built in 1949 and served as general storage and lumber storage. It was relocated to TA-3 in 1965 from downtown Los Alamos. Originally, the shed was 252 feet in length. Only half of the original building was relocated (126 feet, 9 bays) to TA-3. Sometime after 1968 but before 1977 it was further reduced in size to its current length of 42 feet (3 bays) and approximately 840 gross square feet. The building does not have any utilities present. The original shed was comprised of 18 sections or bays, each 14 feet long.

Building TA-3-1233 was constructed in 1944 and served solely as a storage shed. The portable shed of approximately 72 gross square feet has a wooden platform, and is estimated to have been moved several times over the years. It now is situated in a fenced and paved yard area and abuts the south end of TA-3-36. There are no utilities associated with this building.

2.1 Previous Activities at the TA-3 Site

In 1989 and 1992, the underground storage tanks (USTs), also identified as potential release sites (PRSs), TA-3-36-1 and TA-3-36-3 were removed. In August 1997, two additional USTs, TA-3-36-1 (repeated identification number) and TA-3-36-2 were removed as part of the initial D&D activities at TA-3. Following the completion of activities in 1997, soil samples were collected from locations below the USTs and analyzed accordingly. Results of these analyses demonstrated the presence of minor levels of petroleum which were well below the New Mexico Environmental Department' (NMED) guidelines (Reference 1). Additional verification sampling and analyses were performed in the area demonstrating stained soil which was discovered under the fuel dispenser island (located in the eastern direction of the site). Results of these analyses indicated the presence of total petroleum hydrocarbon concentrations and total aromatic hydrocarbon (BTEX) concentrations to be less than the state and federal limits (Reference 2).

3 SCOPING CHARACTERIZATION APPROACH

In order to meet the objectives of the characterization, the process was broken down into specific areas of focus. These areas were:

1. radiological;
2. physical/industrial;
3. chemical; and
4. utilities.

Each area was assessed as described in Attachment 1, Characterization Plan and the results of the surveys are documented in the characterization/assessment results section later in this report. No intrusive sampling was performed during the characterization since data collected as a result of sampling and analysis for hazards such as asbestos containing material (ACM) and lead-based paint were previously performed (References 3 and 4 and Attachments 3 and 4, respectively). These data results will be used as part of this report.

Prior to performing the actual assessment, operation documents for TA-3-36, -224, and -1233 were obtained and reviewed. Based on these documents, the following conclusions were formulated for the three structures:

1. During the 'life' of these buildings, no radiological material was used and/or stored;
2. Industrial materials, such as hydraulic fluids, motor oil, gasoline, were the only types of industrial media used and/or stored;
3. These were no RCRA type materials used and/or stored;

4. Based on the construction of TA-3-36, ACM is present in the roof, soffits, pipe covers, steam lines and condensate lines (see Attachment 3);
5. The paint on these structures is not lead-based as determined by the testing results contained in Attachment 4 (note: XRF detection limit for lead-based paint is 1 mg/cm²);
6. The insulation material that was blown into the cells of the concrete block of TA-3-36 is vermiculite, therefore, non-ACM.

Utilizing the above information, the approach to the scoping characterization was developed and the safety parameters needed to perform the characterization were also determined. These are outlined in Attachments 1 and 2 respectively.

3.1 Radiological Assessment

The radiological assessment portion of the characterization was planned and implemented as a survey since the history of the structures indicated that no radioactive materials were used and/or stored in these structures.

3.2 Physical Assessment

The physical assessment of each of the structures was completed by performing a walk-through of each building. The assessment consisted of visual surveys of each structure on a room-by-room basis. Specific aspects of the physical survey included but was not limited to: overhead hazards; tripping hazards; the presence of chemicals; weight-loading hazards; biological hazards, i.e., rodent inhabitation; lighting restrictions; and active utilities. Also, the Site Specific Health and Safety Plan (SSHASP) used for the tank removal project in August 1997 was reviewed to assist in the determination of the potential presence of physical hazards around TA-3-36, 224 and 1233.

3.3 Chemical/Industrial Assessment

The chemical/industrial assessment of the structures was performed utilizing the historical data/history of the structures and also by performing a walk-through of each building. Specific aspects of the chemical/industrial assessment included but was not limited to: areas of staining; types and condition of equipment present; the presence of any types of identified and/or unidentified containers; building materials; and building construction to include the presence of sumps and/or drains. Also, the results of soil sampling performed during the removal of tanks TA-3-36-1 and TA-3-36-2 in August 1997 was also reviewed in order to determine the levels of contaminants present in the soil prior to re-paving of the excavated areas.

3.4 Utilities Assessment

An assessment of the types of utilities present in each of the structures on a room-by-room basis was also performed. This assessment included a visual survey and review of the existing engineering drawings and interviews with JCNNM personnel. The intent of this assessment was to identify utilities present and their location(s) from each of the structures to their main connection.

4 SCOPING CHARACTERIZATION/ASSESSMENT RESULTS

The intent of this section is to identify and describe the results of each of the specific areas of assessment. Data reported in this text for each of the evaluation areas are points/areas indicating positive results. All data results for each of the assessment areas are contained in Attachment 2 and Attachment 5.

4.1 Radiological Assessment Results

Although the operational history of the structures indicated that no radioactive materials were used and/or stored in these structures, a survey was performed as described in section 3.1. Results of the survey supported the operational history in that no radiation and/or contamination was found above background. Results of the surveys are contained in Attachment 5.

4.2 Physical Assessment Results

Based on the walk-through of each of the structures on a room-by-room basis. The physical hazards include utilities, slip, trip and fall, hazards, and confined spaces. The garage area has two deactivated hydraulic hoists that were used to lift vehicles. The controls for these hoists are located on the floor and pose tripping hazards. The floor recesses and pits for these hoists are covered with hinged steel plates that also present tripping hazards. Removal of the plates or work in the recesses of the pits will require barriers and signs. Also, work in the deeper pits will require a confined space procedure to be followed. Utilities include overhead and other exposed piping throughout the building. The piping is made up of the fire suppression system, compressed air lines, hydraulic lines from the utility room pump to the garage area, domestic water and steam lines with associate heat exchange units located throughout the building. The piping, prior to disturbing, shall be disconnected at the main, drained if necessary and then removed. Drain lines in the building include roof drains that are probably connected to the local storm sewer system and floor drains that have been filled at the floor entry and a sanitary sewer drain that is noted on the utility drawings. These lines will need to be disconnected and removed. The front portion of the facility served as office space in recent years. There are a number of storm sewer grates and culverts on the aprons and pads around the building. Removal of the

grates will require appropriate barriers and signs. The slip trip and fall hazards in the front of the building include uneven surfaces. The only hazard that maybe present in building 1233 would be potentially cuts/lacerations from the corrugated steel that the building is made of. There were no containers located in any of the structures. Each of the structures appeared to be constructurally sound in that weight-loading to the floors or roofing can be accomplished and addressed in the D&D project Site Specific Health and Safety Plan. Once the utilities, specifically electrical, are disconnected, temporary lighting may be required to aid in the D&D activities, specifically ACM abatement inside of building TA-3-36. Also, there was no indication of the presence of rodent droppings in these structures. Physical hazards as a result of D&D activities will need to be addressed in the D&D SSHASP.

4.3 Chemical/Industrial Assessment Results

As outlined in Attachment 3, the presence of ACM in the roof, soffits and steam and condensate lines is documented. Based on the lead XRF results contained in Attachment 4, the paint is not lead-based, i.e., RCRA. There does appear to be fluid in the sumps of the bays in TA-3-36. The contents of these sumps is most likely hydraulic and motor fluids. Since the source of this fluid is known, i.e., hydraulic/motor fluids, the limit for PCBs is 500 ppm. Once the sumps are drained and the fluid analyzed for disposal, remaining fluids on the concrete surfaces can be classified as less than 500 ppm PCBs. Based on the historical review of the TA-3-36, the insulation blown into the concrete block of the building is vermiculite and not ACM. The remaining structures, TA-3-224 and TA-3-1233, contain no indication of any chemical and/or physical hazards. Finally, based on the review of the soil data collected from the August 1997 tank removal prior to re-paving of the excavated areas, there appears to be no indication of hydrocarbon compounds present.

4.4 Utilities Assessment Results

An assessment of the utilities which are present in these structures was performed as described in Section 3.4. Results of this assessment are contained in Attachment 2.

5 SUMMARY

Based on the results of the characterization of buildings TA-3-36, -224 and -1233, the following assumptions can be made for waste profiling and disposal as a result of the D&D activities:

Characterization Report for Buildings 36, 224 and 1233
at Technical Area 3

TA-3-36

Waste Material	Estimated Quantity	Waste Type	Possible Contaminant
Concrete	148 yds ³	Industrial Debris	None
Concrete Block	174 yds ³	Industrial Debris	None
Structural Steel	50320 lbs	Industrial Debris	None
Steel Canopy Posts	1400 lbs	Industrial Debris	None
Fire Protection System (2" pipe)	360 linear feet	Industrial Debris	None
Window frames	360 linear feet	Industrial Debris	None
Pipe covers	765 linear feet	NM Special	ACM
Pipe fittings	100 pieces	NM Special	ACM
Roofing	5294 ft ² x 3" (1324ft ³)	Industrial Debris	None
Fiber board/soffits	1250 ft ² x 0.25" (26 ft ³)	NM Special	ACM
Plumbing pipe	765 + linear feet	Industrial Debris	None
Sludge/Oil	2 yd ³	NM Special	Organics

TA-3-224 and Pad

Waste Material	Estimated Quantity	Waste Type	Possible Contaminant
Concrete	38 yds ³	Clean	None
Parking Lot-concrete	195 yds ³	Clean	None
Structural Steel	11430 lbs	Clean	None
Roofing	840 ft ²	Regulated	ACM
Metal Siding	924 ft ²	Clean	None

TA-3-1233

Waste Material	Estimated Quantity	Waste Type	Possible Contaminant
Wood Frame	4 yds ³	Clean	None
Roofing	81 ft ²	Industrial Debris	None

6 REFERENCES

- 6.1 Correspondence between Jeff Carmichael, LANL ESH-19 and Joseph Romero, NMED UST Bureau, dated September 5, 1997; regarding NMED's UST Soil and Water Sampling and Disposal Guidelines.

*Characterization Report for Buildings 36, 224 and 1233
at Technical Area 3*

- 6.2 Correspondence between Jeff Carmichael, LANL ESH-19 and Joseph Romero, NMED UST Bureau, dated September 12, 1997; regarding petroleum hydrocarbon concentrations.

- 6.3 Correspondence to Larry Ortiz, ESH-5 through James Merhege, from Joan Garcia and Stephen Meyer, dated December 21, 1994; subject: Summary Report of Asbestos Survey and Inspection.

- 6.4 LANL ESH-5 Analytical Report Paint Analysis for Lead; prepared by Michael Trujillo, ESH- 5, dated March 6, 1998.

*Characterization Report for Buildings 36, 224 and 1233
at Technical Area 3*

ATTACHMENT 1

**CHARACTERIZATION PLAN FOR BUILDINGS 36, 224 AND 1233
AT TECHNICAL AREA 3**

Characterization Plan for Assessments of Buildings 36, 224, and 1233 of TA-3.

Introduction

This Characterization Plan describes the methods that ICF Kaiser personnel will use in order to properly assess the presence of chemical, TSCA, radiological and physical hazards, legacy waste, in addition to utility identification issues at buildings 36, 224, and 1233 of TA-3.

Intrusive work will not be performed during any phase of the assessments. Hazards associated with this project will be covered in the form of a hazard assessment and controls i.e., a health and safety plan or facility work control.

Chemical/Legacy/TSCA Waste Assessment

In order to assess the chemical hazards, a site walkdown will be performed. During the walkdown personnel will look for areas of staining, types of equipment present, the condition of the equipment, chemicals and/or debris remaining onsite, and to visually inspect the building materials. Facility documents will be reviewed to determine the materials used during structure construction and maintenance. Operational documents will be reviewed to determine chemicals used on site, where and how these chemicals were used, and the potential for legacy waste. The FIMAD database will be queried for any ER sites or sample locations within the former gas station area. The underground storage tanks removal and associated cleanup will be verified through an interview and document review process.

Radiological Assessment

An investigation of possible past spills or leaks of radiological materials will be made initially through review of historical documents. After the document search, a general radiological walkover survey will be performed using hand held radiological instrumentation. A report of the findings will follow the surveys.

Physical Hazard Assessment

This assessment will be completed by performing a walkthrough of the facility. The assessment will consist of a visual survey of the three facilities on a room by room basis. All physical hazards will be documented and pictures will be taken of the hazards that present a concern. The health and safety plan from the tank removal task will also be reviewed to aid in determining contaminants and hazards present at the site.

Waste Stream Analysis

The information collected during the characterization of chemical hazards will be used to identify the waste streams that could potentially be generated during D&D activities. Volumes of stained and potentially contaminated material will be estimated from measurements taken during the walkdown. Facility documents will be reviewed to determine the volume and types of materials used during structure construction. The facility construction and maintenance documents and chemical characterization will also provide insight into segregation and staging areas that might be required on site. Facility management personnel will be questioned concerning the availability of segregation and staging areas. Waste packaging requirements will be addressed dependant upon waste characterization.

Utilities Identification and Assessment

Identify the utilities associated with the structures that will need to be abandoned or disabled for the D&D of these structures from existing site drawings. Perform a site walkdown to confirm locations of utilities and prepare a "sequence for removal plan" to ensure that utilities to other facilities will not be disrupted.

*Characterization Report for Buildings 36, 224 and 1233
at Technical Area 3*

ATTACHMENT 2

UTILITIES CONDITION REPORT

Utilities Condition Report

The Deactivation, Decommissioning and Demolition (DD&D) activities require an extensive knowledge and location of existing utilities. This knowledge will ensure the safe excavation, termination or rerouting of utility services.

This Condition Report contains three areas of assistance in evaluating the utility infrastructure at TA-03-36. They include:

1. A written description of the general utility.
2. A specific utility map (Figures 2-1 through 2-7).
A Utilities Removal and Demolition Plan (Figure 2-8).
A Paving Plan (Figure 2-9).
3. A utility matrix (Table 2-1) delineating each existing building and its utility mix.
Manholes, steam pits and substations are not included in the matrix.

The information in this report should be used as a guide to raise the awareness of the interaction of the buildings and the utilities. The goal of DD&D work should be to implement the verifiable engineering knowledge, the staff experience and safe working practices to accommodate termination of utility services where designated and to maintain services to remaining buildings with as little interruption as possible.

The information contained in this report was gleaned from site, system walk-downs and interviews, and review of existing bldg. system drawings and as-builts available through LANL and JCNNM records.

For the written description of the utility, the utility maps and the utility matrix, refer to Attachment E, Utility Structure Assessment.

The utilities serving TA-03-36 are electricity, sanitary sewer, storm drainage, steam condensate, potable water, telephone/communications fire protection and lightning protection. There are no utility hookups servicing buildings TA-03-224 and TA-03-1233. All utilities are located underground. There are no overhead utilities in the project area associated with Bldg. TA-03-36, 224 and 1233. There is one electrical pole providing parking lot illumination and located located directly south of Bldg. TA-03-1496 and west of Bldg. TA-03-1495.

Electrical:

Primary electrical service to Bldg. TA-03-36 is supplied from the basement of Bldg. TA-03-38, Room B1, from panel LP-5/ckt.39 (120/208 volt). From there it runs underground across Parry Road into Bldg. TA-03-36 and into the utility room (RM 106) at LP-1 and LP-2 (both 120/208volts) where power is distributed to the building. LP-2 is served by LP-1, Bldg. TA-03-36. CDD-2 is served by LP-1/Crt. 42 (120/208 volt)s.

There is an electrical pull box located in the landscape median south of Parry Road.

The following information was taken directly off panel LP-1 and LP-2 electrical panel boxes in the utility room, Room 106 of Bldg. TA-03-36:

LP-1: Supplies power to the Reception Room 104, ckt 11 and the following:

- CA-1 (compressor) CKT 29
- DRE-3 CKT 29
- DRE-2 CKT 28
- DRE-1 CKT 27
- HUS 6-7 Room 101 CKT 32
- PC 1-2 CKT 32
- HUS 1-2-3-4-5 CKT 19
- CKT 42 CDD-2 (enclosed switch)
- CKT 19 feeds all unit heaters (steam)
- CKT 10 provides lights for paint storage

LP-2: Supplies the following:

- CK6-6 CJ-1
- FE-1 RM 104 CK 23
- PHO-1 (critical pump) CRT-19
- Reception Room 104 W/W CRT-24
- Reception Room 104 CRT-9
- CRT 20 Reception Room W/W CRT-15
- Feed for SM-1562 CRT-28 (no longer in service, bldg. has been removed, ckt. Remains active but is in off position)

In addition to housing the building electrical panels, the utility room also supports equipment formerly used in the gas/service station operation when the facility was constructed. This includes an air compressor with hydraulic pump and reservoir, a steam fed hot water heater, various equipment switches including those for the former gas pumps and controls for the condensate pumps. There is also a panel box for telephone and communications lines. Many of the circuits previously providing electrical service to the former gasoline pumps and associated service station equipment are no longer in service.

There is no electrical service to structure TA-03-224 and it appears from observation and site investigation that TA-03-1233 also does not have electrical service. At the time of this field investigation, structure TA-03-1233 was chain locked and an investigation of the interior could not be undertaken. But it did not appear to be connected to electrical service from a visual investigation of the exterior of the structure.

Primary electrical service is supplied to Bldg. TA-03-1496, 1495 and 1613 (transportables) located south of Bldg. TA-03-36 by transformer TR-A located east of Bldg. TA-03-1496, 1495 and 1613. This utility is currently "hot".

Electricity to power the fire protection alarm system originates in the corridor of Bldg. TA-03-38 from panel FCP-001. It serves Bldg. TA-03-36 and the transportables TA-03-1496, 1495 and

1613. Bldg. TA-03-36 has a lightning protection system running around the perimeter of the building. It does not appear to be tied into any other building or structure.

Sanitary Sewer:

Sanitary Sewer services the site by an 8" vitrified clay pipe (VCP) running parallel to Parry Road north of Bldg. 36. There are 4 manholes located along this line between Pajarito Road and the west property corner. A VCP line running perpendicular to this line enters Bldg. 36 on the north side of the bldg. A second VCP line connects bldg. 1495, 1496 and 1613 with the VCP line that runs parallel to Parry Road.

Storm Drainage:

The parking lot west of Bldg. TA-03-36, east and north of Bldg. TA-03-224 and west and north of Bldg. TA-03-1233 is served by a 12" corrugated metal pipe (cmp), running into a storm drain/manhole in the center of the parking lot. There are three inlets within the parking lot at the north end, connected to 2 12" cmps and running south to a storm drain manhole. From the manhole an additional 12" cmp runs south to a second manhole. All storm drainage associated with this site is contained, directed and released into an 18" cmp running parallel along Pajarito Road, east of the three mentioned buildings.

Steam System:

Bldg. TA-03-36 is serviced by a 1 1/2" steel underground steam line entering the building on the east side and running north across Parry Road to a manhole. In addition, a 1" steel condensate line originates at the same location in the steam manhole (#1015) across Parry Road and enters Bldg. 36 at the same location, east side of the building.

The steam system is currently active in Bldg. 36 and does not supply service to any other building.

Water:

Potable water is provided to Bldg. TA-03-36 by a 1 1/2" galvanized pipe entering the building on the east side and into the utility room. From the utility room the pipe exits the building underground and runs across the parking lot and to an 8" cast iron pipe running parallel to Pajarito Road.

A separate 4" cast iron pipe supplying fire protection water enters Bldg. TA-03-36 at the southeast corner. From this location a valve lies approximately 20' east, then proceeds northeast across the parking lot to Parry Road to a second valve within the roadway. All lines appear to be "active".

The transportables, TA-03-1496, 1495 and 1613 are supplied water by a 3" cast iron pipe west of Bldg. TA-03-1495 and running south to Mercury Road where it connects to a 10" cast iron pipe at a butterfly valve junction.

Telephone:

The telephone system is supplied to Building TA-03-36 by a 2" underground transite line entering the building at the north exterior wall and proceeding to a telephone panel located in the utility room and a second panel located on the north wall in the large service room.

The 2" transite line runs underground north from Bldg. TA-03-36 across the parking lot, across Parry Road to a telephone manhole across Parry Road containing 4-4" transite lines.

The system is currently active and provides telephone service into Bldg. TA-36. There is no apparent telephone service to Bldg. TA-03-1233 and TA-03-224. (Figure 2-6)

Natural Gas:

There is no apparent natural gas associated with Bldg. TA-03-36, 224, and 1233. However, a 1"-100# steel gas line provides gas service to the transportables Bldg. TA-03-1496, 1495, and 1613 south of Bldg. TA-03-36. This line is located east of the transportables, runs parallel to Parry Road and perpendicular to a main gas line along Pajarito Road. It appears that the gas line providing service to these transportables is independent of Bldgs. TA-03, 224 and 1233.

(References-Information derived from interviews with JCNNM personnel including Roy Hopwood, Jim Rabold, Jake Fernandez, Ed Montoya, Dave Goodwin, Don Bryant, Gerald Martinez, Mike Fogul, current building occupants, Chris Samora (as-builts), Phil Sena, LANL. Additional information was derived from on-site field investigation, review of existing building/structure/site construction drawings and latest as-built drawings).

Table 2-1
Utility Matrix Sheet

Building/Name	Utility								Location of Utility Shut-off	Tie-in to Other Buildings/Structures
	A Electrical Service	B Sanitary Sewer	C Storm Drainage	D Steam System	E Potable Water	F Fire Protection Water	G Telephone	H Natural Gas		
TA-03-36/Service Station	•	•	•	•	•	•	•	•	<p>A – Panel L.P-5/circuit 39 (120/208 volt) located in Bldg TA-03-38, Room B1</p> <p>B – 8" vitrified clay pipe running north of Bldg TA-03-36 and parallel to Parry Rd.</p> <p>C – 12" corrugated metal pipe runs into a storm drain/manhole in the center of the parking lot. There are three inlets within the parking lot at the north end connected to 2 – 12" CMPs and running south to a storm drain manhole.</p> <p>D – Steam and condensate manhole north of TA-03-36 across Parry Road.</p> <p>E – Valve at manhole east of utility room.</p> <p>F – Valve at manhole approximately 20' east of southeast corner. Second valve northeast of building across Parry Road within roadway.</p> <p>G – Telephone manhole across Parry Road, north of Building TA-03-36</p>	Yes, fire protection/alarm system to TA-03-1496, 1495, 1613
TA-03-224/Metal Shed	∅	∅	•	∅	∅	∅	∅	∅	N/A	No apparent tie
TA-03-1233/Wood Shed	∅	∅	•	∅	∅	∅	∅	∅	N/A	No apparent tie

• - Active service
∅ - No apparent service

**Table 2-1
Utility Matrix Sheet
(Concluded)**

Building/Name	Utility								Location of Utility Shut-off	Tie-in to Other Buildings/Structures
	A	B	C	D	E	F	G	H		
TA-03-1496, 1495, 1613/Office Transportables	•	•	•	Ø	•	•	•	•	<p>A – Panel box at transformer TR-A located east of TA-03-1496, 1495 and 1613.</p> <p>B – Manhole along 8" VCP running parallel to Parry road.</p> <p>C – Main storm drain south of buildings at Mercury Rd. Additional storm drain at Pagarito Rd.</p> <p>E – Valve west of TA-03-1495 and south of TA-03-1496.</p> <p>F – Main at Mercury Road.</p> <p>G – Manhole at Mercury Road.</p> <p>H – Valve at Pagarito Rd.</p>	<p>Yes, fire protection/alarm system to TA-03-36, 1495, 1613.</p> <p>Yes, electrical, sanitary sewer, potable water, fire protection water, telephone, natural gas.</p>

• - Active service
Ø - No apparent service

*Characterization Report for Buildings 36, 224 and 1233
at Technical Area 3*

ATTACHMENT 3

SUMMARY REPORT OF ASBESTOS SURVEY AND INSPECTION

SUMMARY REPORT OF ASBESTOS
SURVEY AND INSPECTION

INTERPRET
DEC 03 1994

TO: LARRY ORTIZ, ESH-S

THRU: JAMES MERHESE, ASBESTOS PROGRAM SUPERVISOR, CPMS/DP

FROM: JOAN GARCIA AND STEPHEN MILLER, ASBESTOS INSPECTORS

=====

DATE: 12/21/94 SUBJECT: TA-3 BLDG. 36

DATE OF SURVEY: 12/13/94

SURVEY DATA SHEET(S): 014966 TO 014972

BUILDING MANAGER OR CONTACT PERSON: ED MONTOYA 7-5177

NUMBER OF BULK SAMPLES COLLECTED: NONE

AMOUNTS OF ASBESTOS CONTAINING MATERIAL FOUND:

HA-9 16 LN FT POT HOT PIPECOVER/RM.3.

HA-10 2,797 SQ FT ROOFING MATERIAL

HA-21 334 LN FT STEAM PIPECOVER/RMS.1,2,3,4,5,6,7,1A.

HA-22 48 EACH STEAM FITTINGS/1,2,3,4,5,6,7,1A.

HA-23 346 LN FT CONDENSATE PIPECOVER/RMS.1,2,3,4,5,6,7,1A.

HA-24 37 EACH CONDENSATE FITTINGS/RMS.1,2,3,4,6,7,1A.

AGE OF BUILDING: 01/JAN/1952 SIZE OF BUILDING: 2,955 SQ FT

NO. OF FLOORS: ONE NO. OF ROOMS: 8

NO. OF OCCUPANTS: APPROX. 4

USE OF BUILDING: TIRE SHOP

INTERIOR CONSTRUCTION: SHEETROCK/CONCRETE

EXTERIOR CONSTRUCTION: CONCRETE BLOCK

SUMMARY OF BLDG. 36 CONTD.

COMMENTS: SPECIAL CONDITIONS: RM.3 7 OPEN ENDS ON STEAM LINE / 4
OPEN ENDS ON COND. LINE / 1 EXPOSED COND. FITTING / 1 OPEN END
POT. HOT LINE. SPECIAL CONDITIONS: RM.2 1 OPEN END ON COND. LINE
SPECIAL CONDITIONS: RM.6 2 OPEN ENDS ON COND. LINE.
SPECIAL CONDITIONS: 1 OPEN ENDS ON COND. LINE.

791 LB 1000 30 FT ACM

1. 1000 30 FT ACM.

2. REMOVE ROOFING MATERIAL PRIOR TO REPAIR OR REMOVAL.

3. REPAIR SPECIAL CONDITIONS ASAP.

4. MONITOR ACM FOR DETERIORATION.

*Characterization Report for Buildings 36, 224 and 1233
at Technical Area 3*

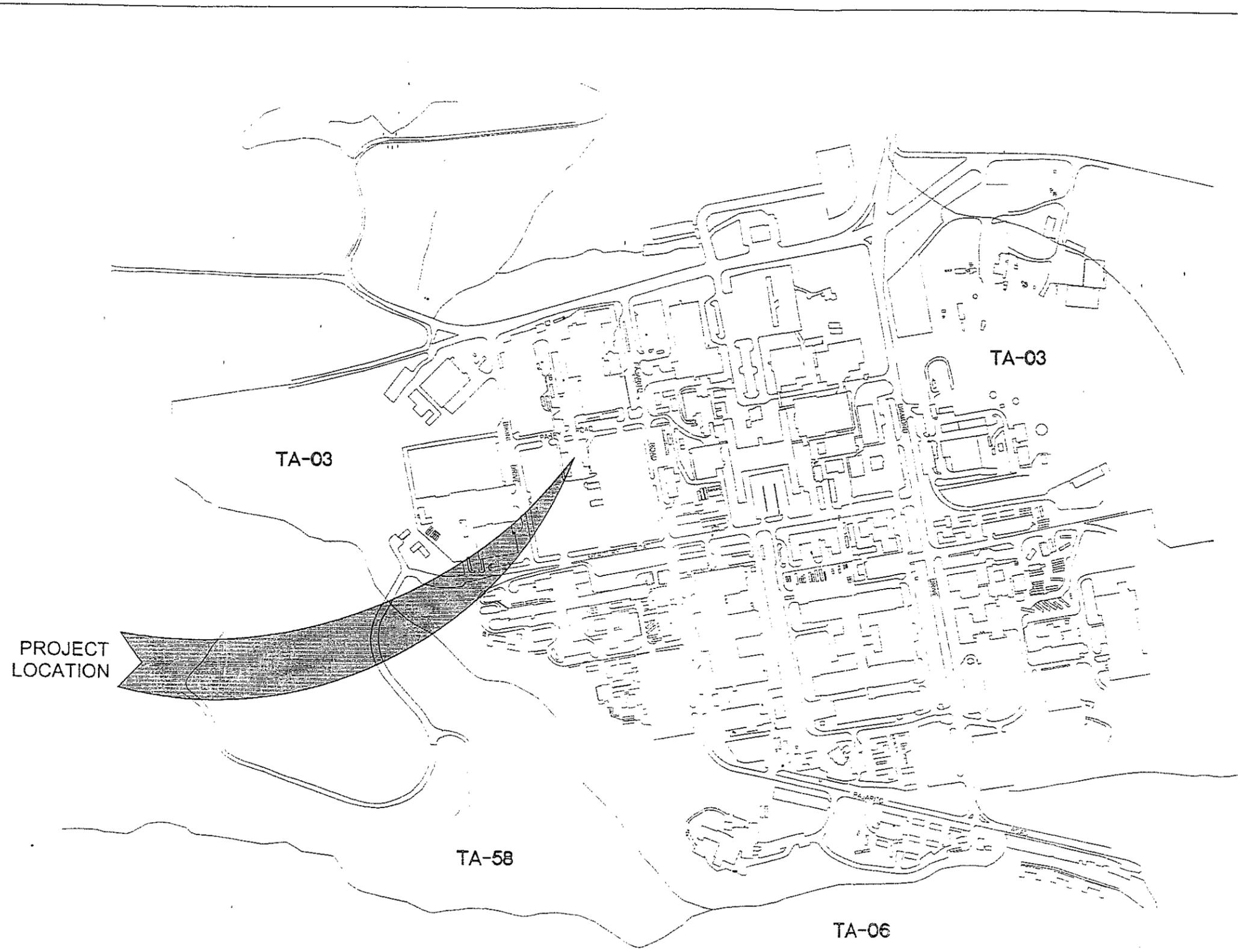
ATTACHMENT 4

ESH-5 ANALYTICAL REPORT PAINT ANALYSIS FOR LEAD

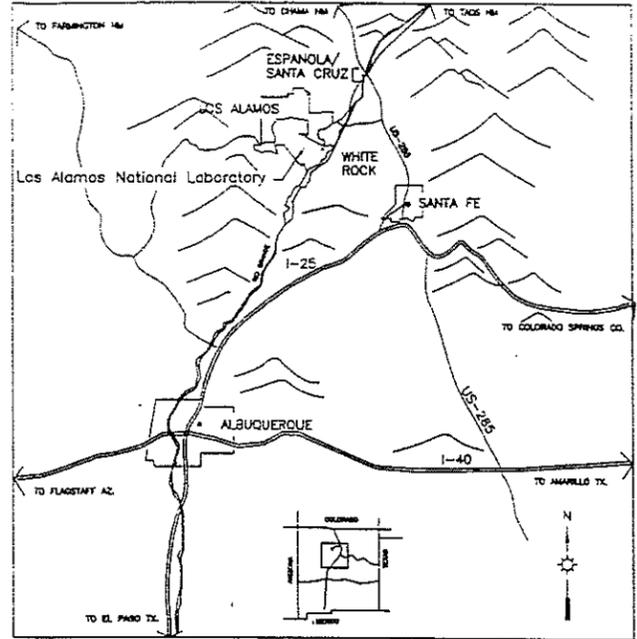
*Characterization Report for Buildings 36, 224 and 1233
at Technical Area 3*

ATTACHMENT 5

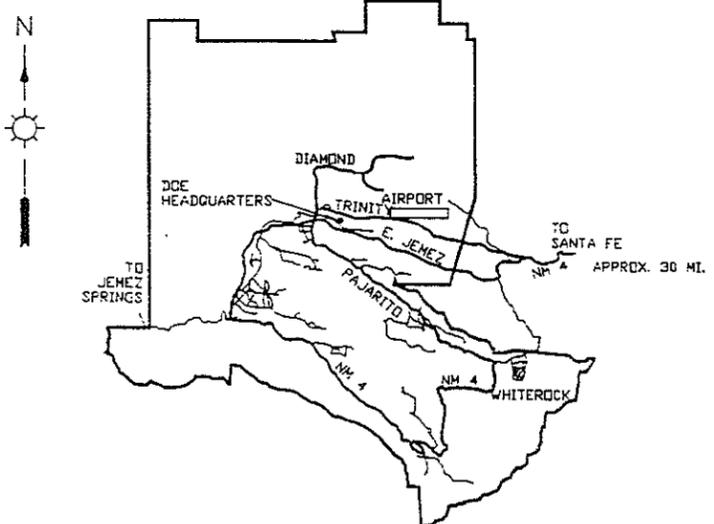
CHARACTERIZATION RESULTS



PROJECT VICINITY MAP



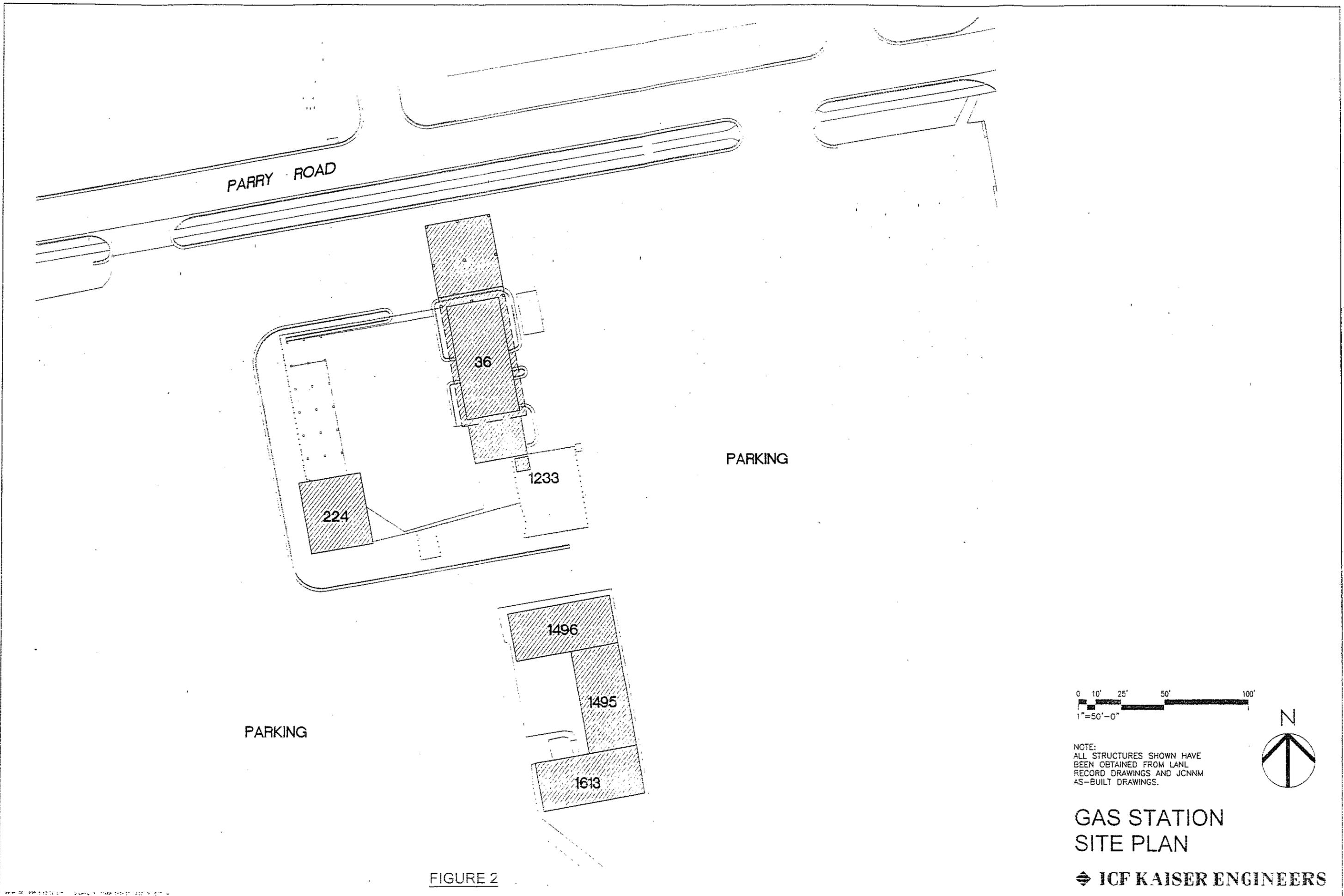
NEW MEXICO REGIONAL MAP



LOS ALAMOS COUNTY
SITE LOCATION MAP

LOCATION MAPS

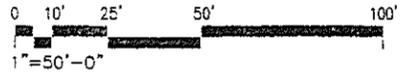
FIGURE 1



PARRY ROAD

PARKING

PARKING

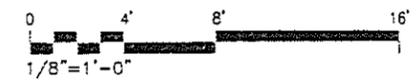
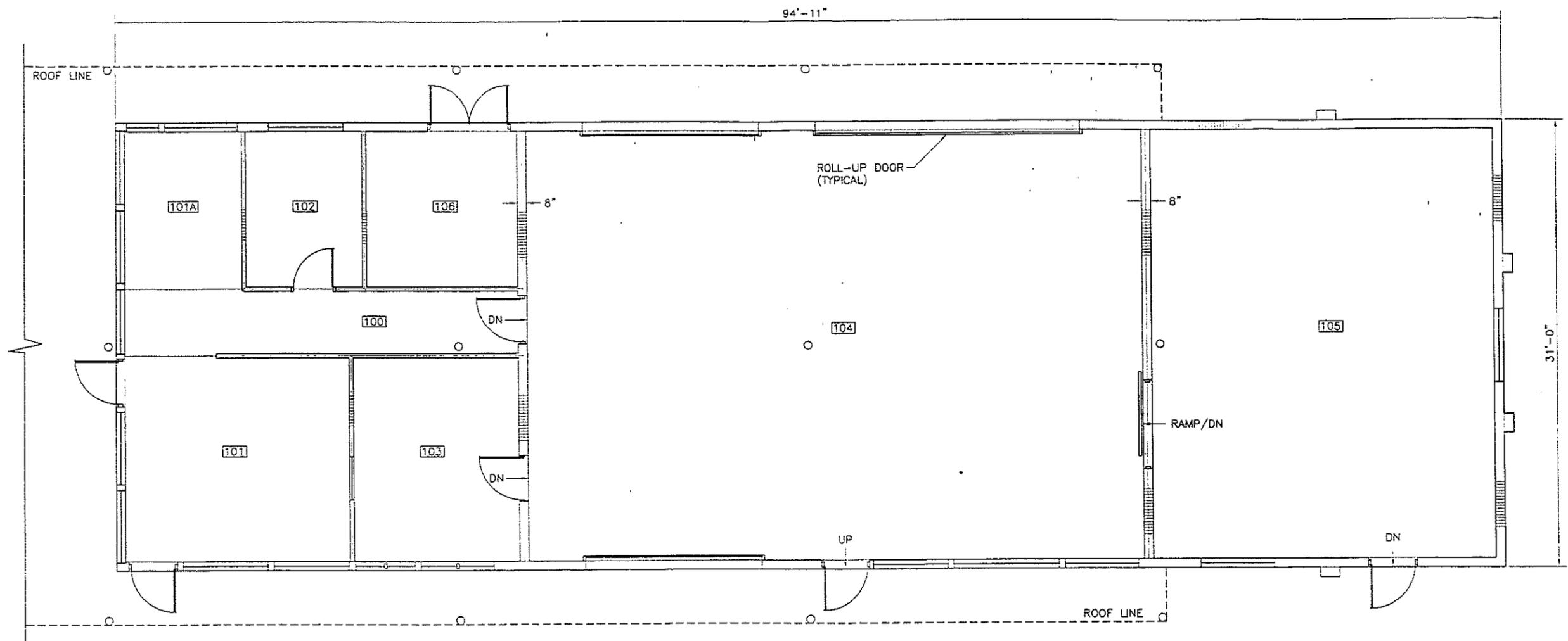


NOTE:
ALL STRUCTURES SHOWN HAVE
BEEN OBTAINED FROM LANL
RECORD DRAWINGS AND JCNNM
AS-BUILT DRAWINGS.

**GAS STATION
SITE PLAN**

◆ ICF KAISER ENGINEERS

FIGURE 2

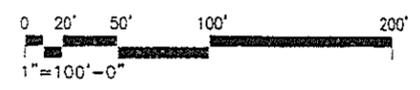
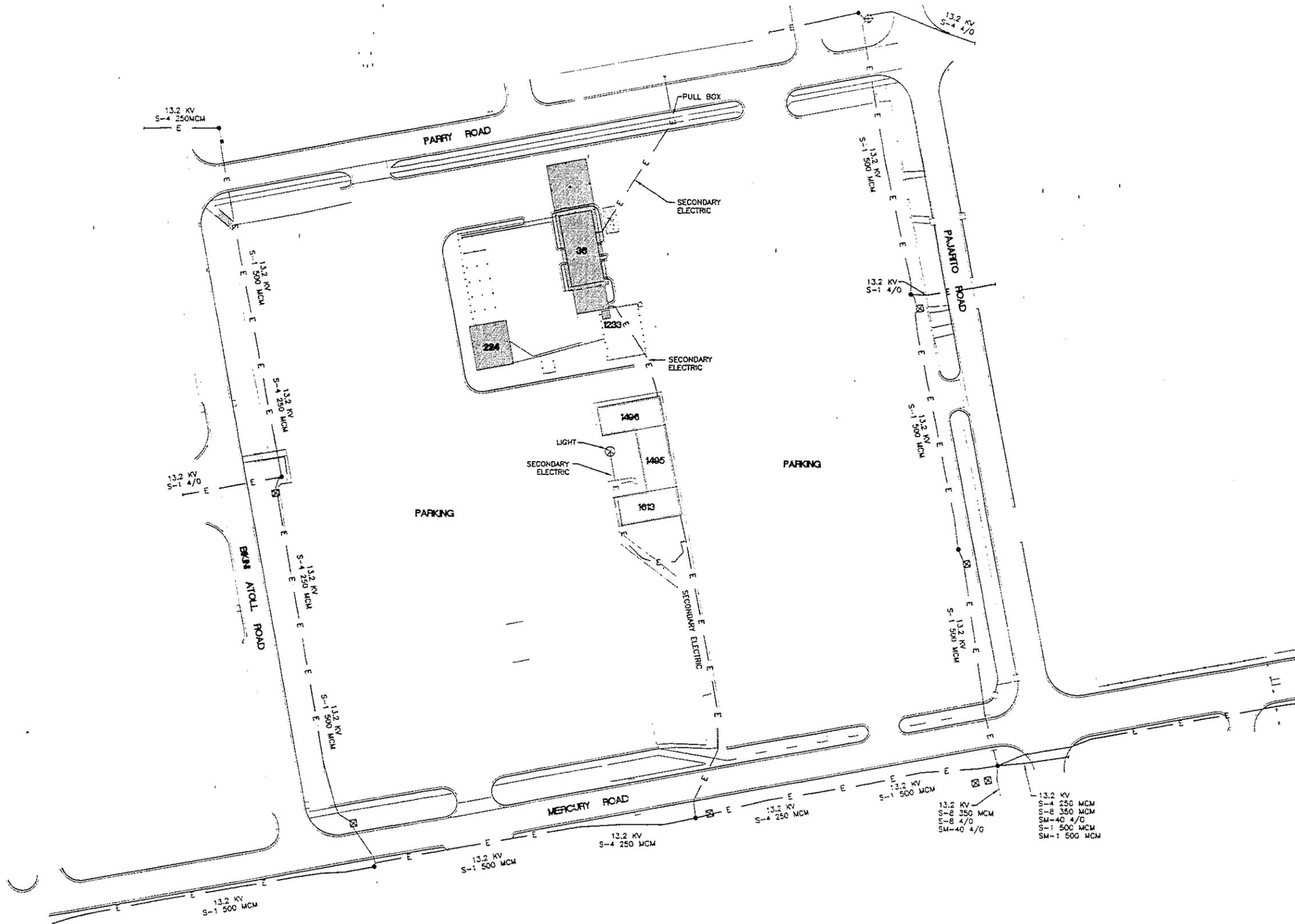


NOTE:
 ALL REFERENCES TO BUILDING SHOWN
 HAVE BEEN OBTAINED FROM RECORD
 AS-BUILT DRAWINGS BY JCNNM.



TA-3-36 FLOOR PLAN

FIGURE 3

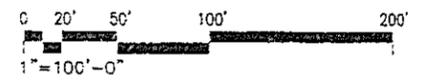
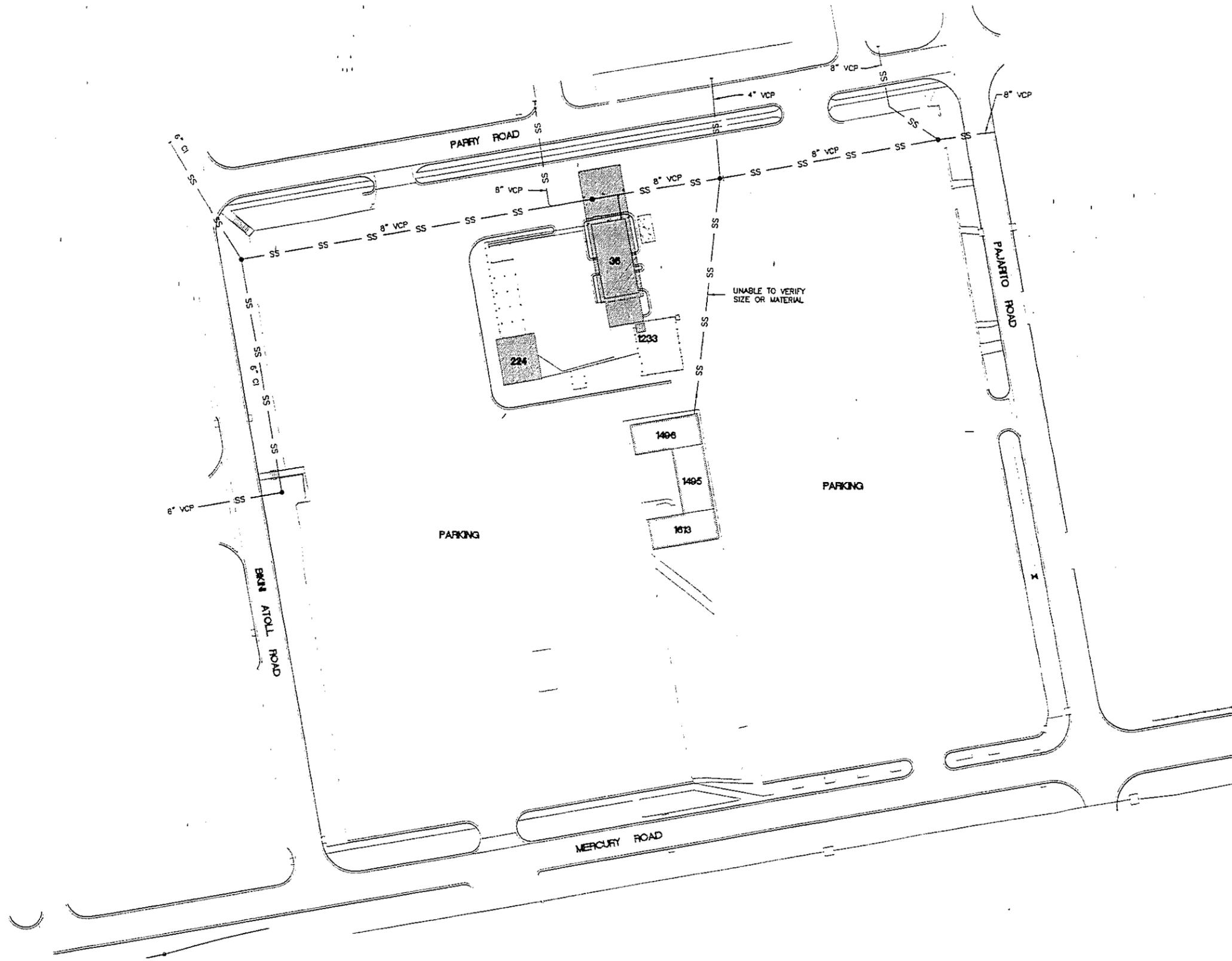


NOTE:
 ALL REFERENCES TO UTILITIES SHOWN
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ELECTRICAL SYSTEM

ICF KAISER ENGINEERS

FIGURE 2-1

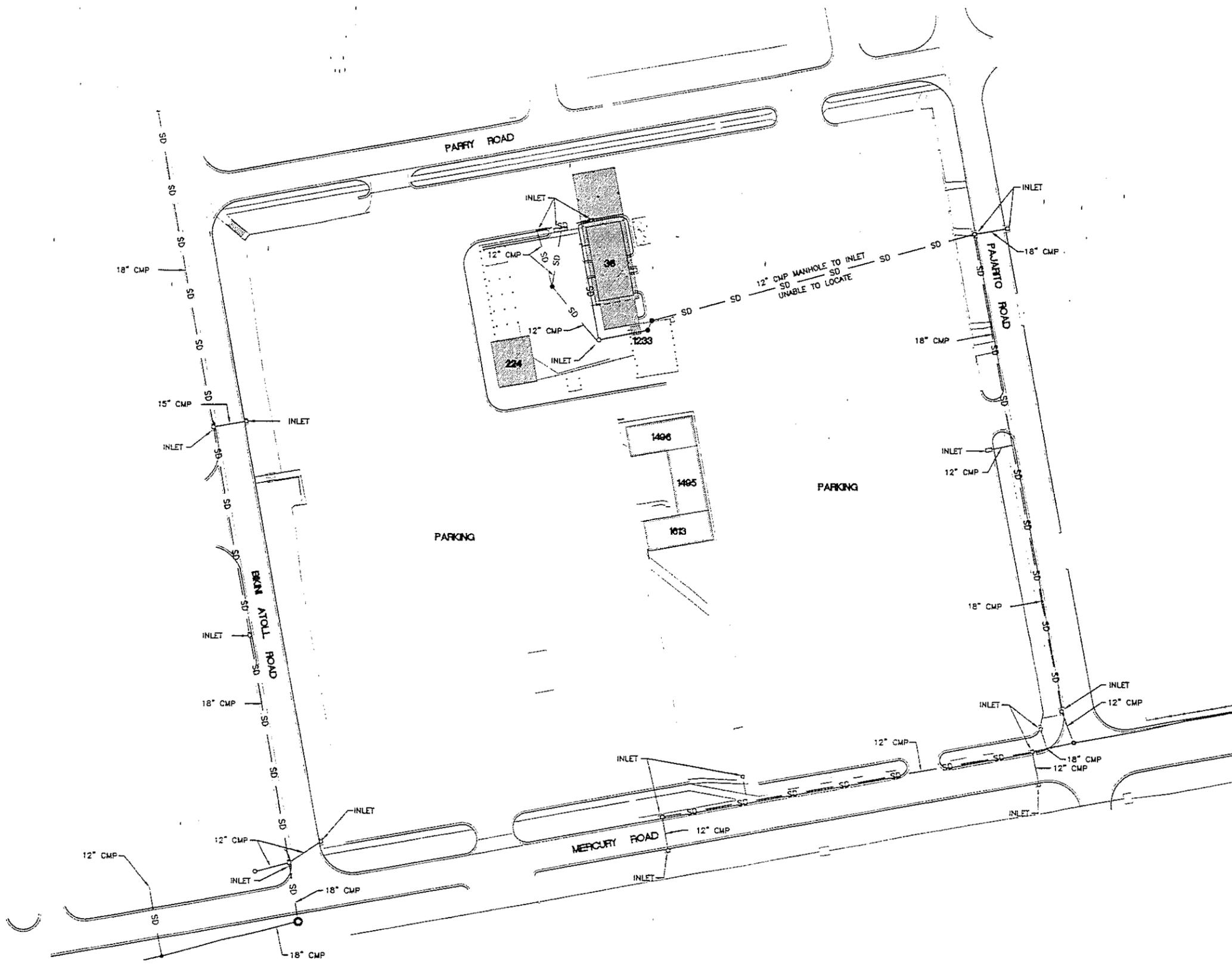


NOTE:
 ALL REFERENCES TO UTILITIES SHOWN
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SANITARY SEWER SYSTEM

◆ ICF KAISER ENGINEERS

FIGURE 2-2

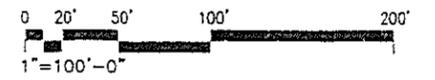
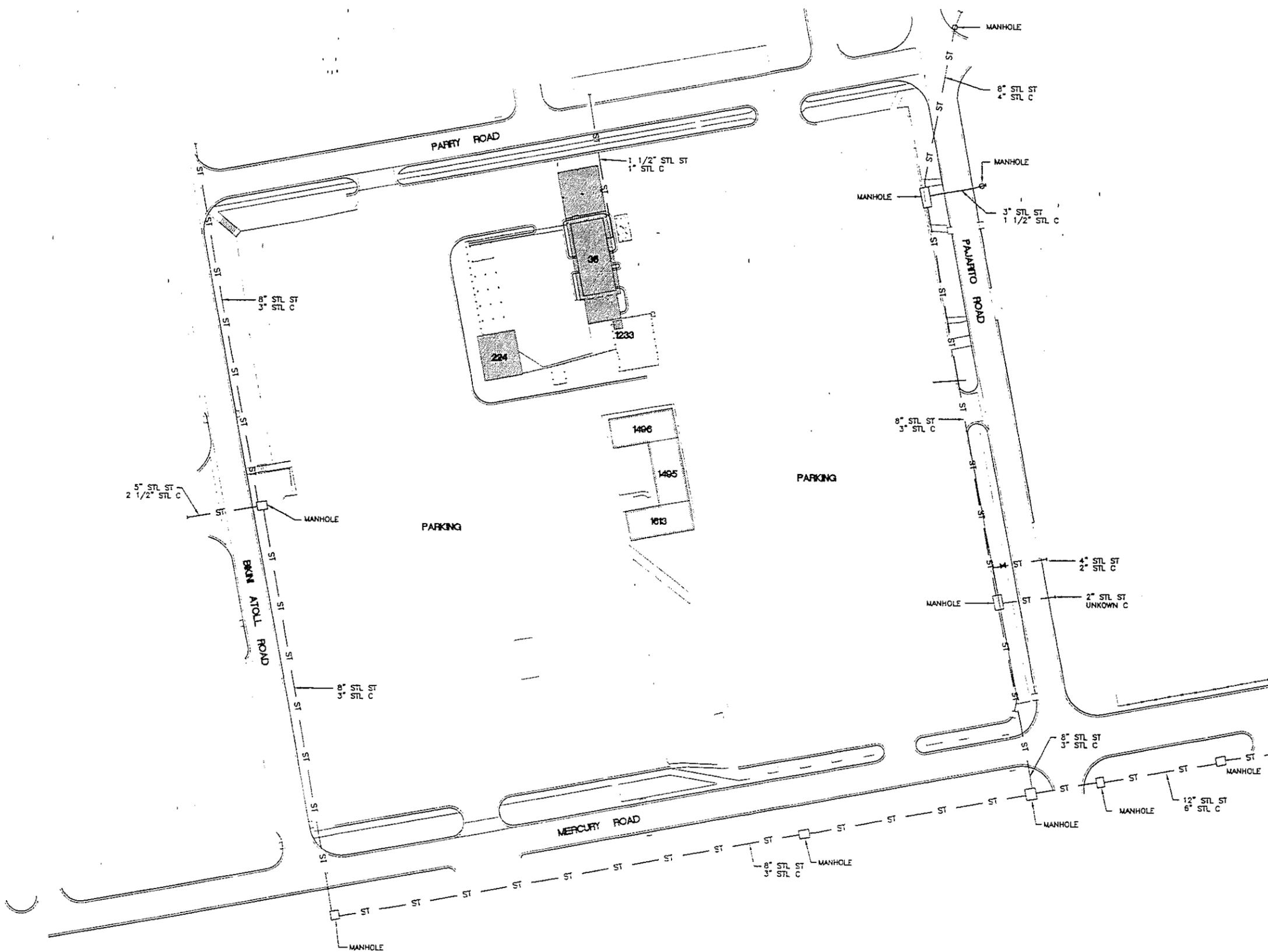


NOTE:
 ALL REFERENCES TO UTILITIES SHOWN
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STORM DRAIN SYSTEM

ICF KAISER ENGINEERS

FIGURE 2-3

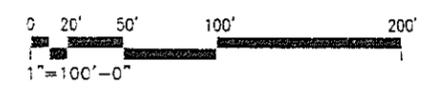
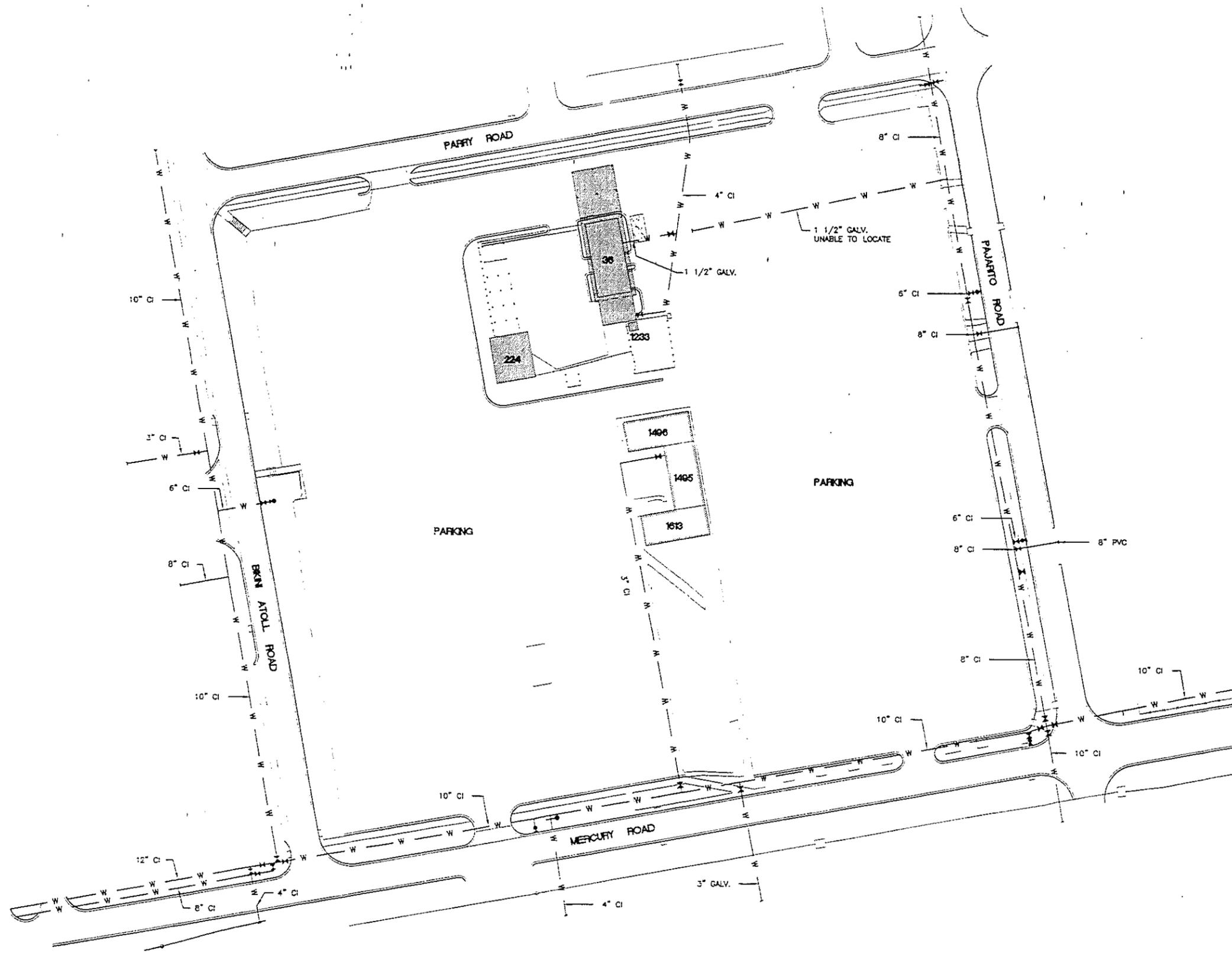


NOTE:
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STEAM SYSTEM

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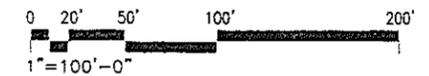
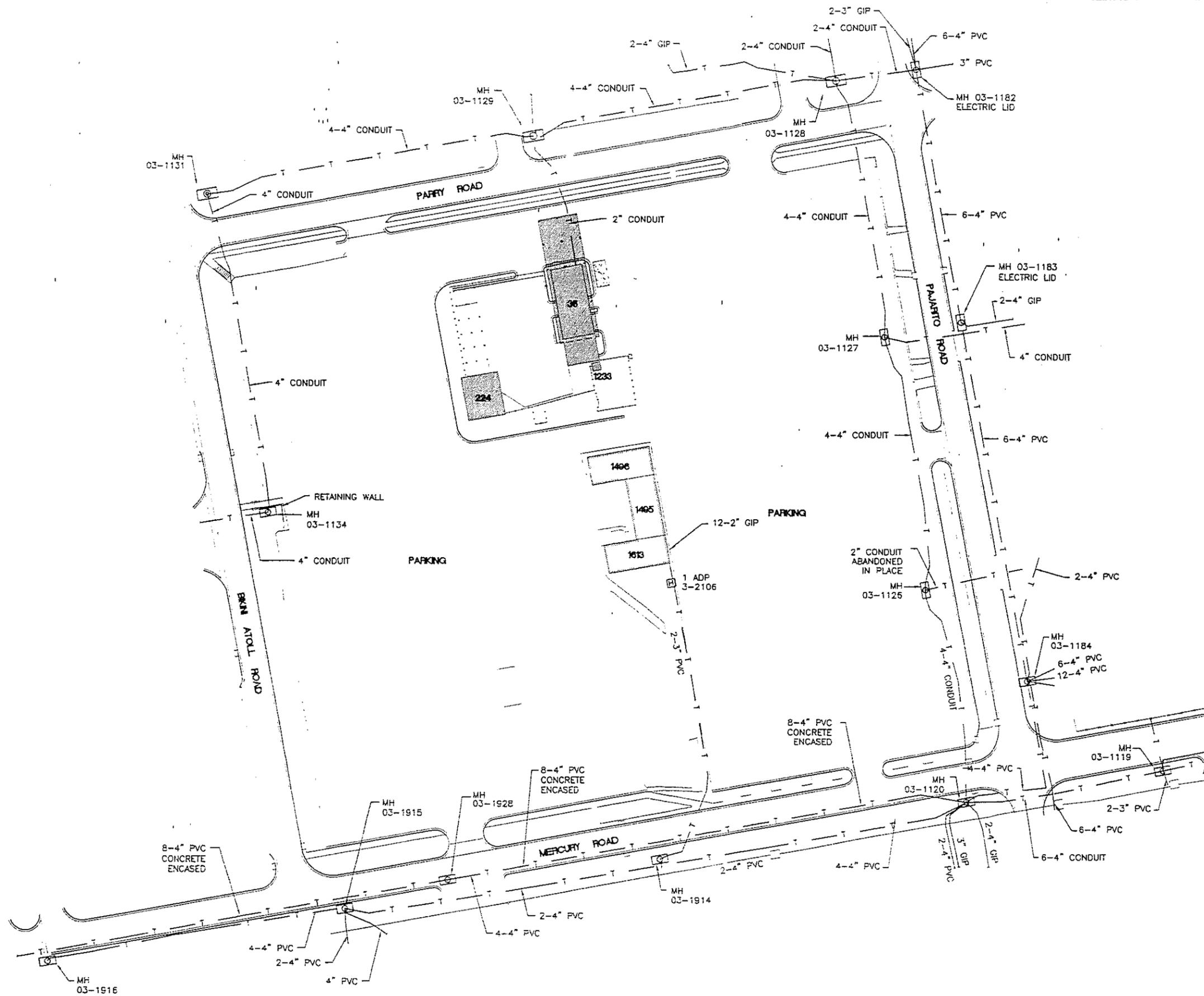
FIGURE 2-4



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AS-BUILT DRAWINGS.

WATER SYSTEM

FIGURE 2-5

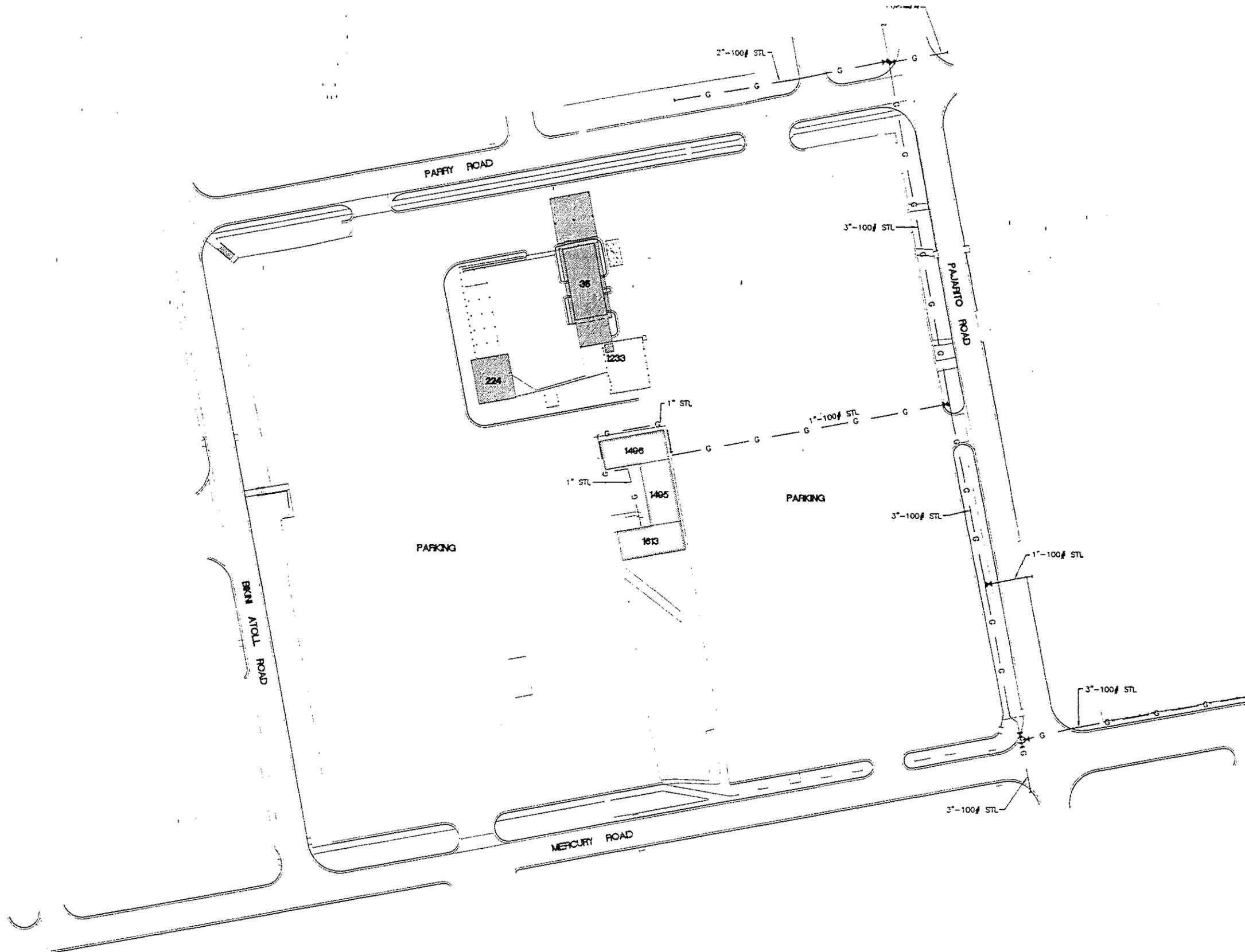


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COMMUNICATIONS SYSTEM

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FIGURE 2-6



NOTE:
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GAS SYSTEM

◆ ICF KAISER ENGINEERS

FIGURE 2-7