

**WASTEWATER STREAM  
CHARACTERIZATION FOR  
TA-3-206, 214, 215, 218, 227,  
228, 253, 254, 322, 406, 494,  
502, 1506, 1507, 1516, 1519,  
1596, 1702, 1736, 1737,  
1738, 1868, 1887, 1888,  
1903, 1911, 1912, 1933,  
1950, 1986, 2028, 2043,  
2133 AND 2139**

**at  
Los Alamos National Laboratory**

**ENVIRONMENTAL STUDY**

**CHARACTERIZATION REPORT #44**



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**Los Alamos**

**ENVIRONMENTAL MANAGEMENT DIVISION**

**Los Alamos National Laboratory  
Los Alamos, New Mexico 87545**

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1868, 1887, 1888, 1903, 1911,  
1912, 1933, 1950 1986, 2028,  
2043, 2133 AND 2139

ENVIRONMENTAL STUDY

prepared for:  
THE LOS ALAMOS NATIONAL LABORATORY  
Los Alamos, New Mexico

under subcontract 9-XG8-2874P-1

by:  
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1429 Second Street  
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September, 1992

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## EXECUTIVE SUMMARY

Buildings TA-3-206, 214, 215, 218, 227, 228, 253, 254, 322, 406, 494, 502, 1506, 1507, 1516, 1519, 1596, 1702, 1736, 1737, 1738, 1868, 1887, 1888, 1903, 1911, 1912, 1933, 1950 1986, 2028, 2043, 2133 and 2139 were visited to document all drain piping and building outflows and to make permitting recommendations. The pipes exiting the building are as follows:

1. from TA-3-206: two welding hood exhaust vents,
2. from TA-3-214: two roof drains,
3. from TA-3-215: one sanitary sewer connection, two storm drain connections, two fire line drains and one water heater pressure relief valve drain,
4. from TA-3-218: one sanitary sewer connection, one roof drain, one vacuum pump exhaust, one condensed water drain, one air relief vent, one storm sewer connection, two exhaust vents, two natural gas gooseneck vents, one electrical conduit stub-out, two abandoned pipe stub-ups, one sanitary sewer vent and one water heater pressure relief valve drain,
5. from TA-3-227: one pipe trench drain connection to storm sewer,
6. from TA-3-228: one cup drain to storm sewer and one equipment drain to storm sewer,
7. from TA-3-253: two sanitary sewer connections, one pipe outfall of unknown origin, three electrical conduit stub-outs, four roof drains, one steam pipe pressure relief valve drain, one liquid nitrogen fill connection and two room exhaust vents,
8. from TA-3-322: four roof drains, four fire line drains and one compressed-air quick disconnect,
9. from TA-3-406: one sanitary sewer connection, four roof drains, one water heater pressure relief valve drain and two condensed water drains,
10. from TA-3-494: one sanitary sewer connection, four vacuum pump exhaust vents, four fire line drains, two condensed water drains and one pneumatic control air relief vent,
11. from TA-3-502: one sanitary sewer connection, one storm sewer connection and two fire line drains,
12. from TA-3-1506: one condensed water drain,
13. from TA-3-1507: three condensed water drains,

14. from TA-3-1516: two condensed water drains,
15. from TA-3-1519: one condensed water drain,
16. from TA-3-1596: one condensed water drain,
17. from TA-3-1702: one condensed water drain,
18. from TA-3-1736: one condensed water drain,
19. from TA-3-1737: one condensed water drain,
20. from TA-3-1738: one condensed water drain,
21. from TA-3-1887: one sanitary sewer connection, one water heater pressure relief valve drain, two condensed water drains from evaporative coolers and one pipe stub of unknown origin,
22. from TA-3-1888: one sanitary sewer connection, one water heater pressure relief valve drain and two condensed water drains from evaporative coolers,
23. from TA-3-1903: one condensed water drain and
24. from TA-3-1912: one sanitary sewer connection, and one water heater pressure relief valve drain.

Buildings TA-3-254, 1868, 1911, 1933, 1950, 1986, 2028, 2043, 2133 and 2139 do not have any water supplies or drains.

New EPA Forms 2D are included for the currently unpermitted treated cooling water blowdown from building TA-3-228 which discharges into the storm sewer system. The flows shown on the forms are estimated from site observation, from discussion with users and from data on the Discharge Monitoring Reports (DMR). Analytical data will need to be defined upon future sampling of this outfall.

Recommendations for repiping are provided to allow outfall consolidation to minimize permit maintenance requirements and to bring the facility into compliance with the laboratories NPDES Permit. Floor Drain plugging is recommended where the potential of discharge of pollutants exists.

A Waste Stream Database has been prepared listing the waste water and flow rate for each outfall.

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## 1.0 INTRODUCTION

During August, 1992, Mark E. Wendt of Santa Fe Engineering (SFE) toured buildings 206, 214, 215, 218, 227, 228, 253, 254, 322, 406, 494, 502, 1506, 1507, 1516, 1519, 1596, 1702, 1736, 1737, 1738, 1868, 1887, 1888, 1903, 1911, 1912, 1933, 1950, 1986, 2028, 2043, 2133 and 2139 in TA-3.

The purpose of this study is to identify building drain piping, locate outfalls which discharge into the environment and to characterize the wastewater flows and sources existing at the time of the visit. This report will not reflect any subsequent changes in piping or operations. The Waste Steam Characterization Policy of September 10, 1992 was followed for this study. The following tasks were performed for this purpose:

1. Building drains and all piping exiting the building were identified and laid out in schematic form;
2. Wastewater sources were identified at each drain and the wastewater was characterized according to the flow rate and quality. The location of outfalls and their potential sources of discharges were determined. Potential pollutants were also noted;
3. Permit applications for discharges of clean water were not prepared since these discharges do not require permitting at this time and
4. Potential problems were identified and recommendations were made for repiping, floor drain plugging and spill containment where deemed appropriate.

The field investigation proceeded by verifying drain schematic drawings prepared by SFE for the appropriate buildings (Figures 1 through 26) from drawings provided by Los Alamos National Laboratory (LANL) Facilities Engineering Division. The other buildings were visited to insure that no drains exist for the buildings. The following process was used to define drain piping and characterize the wastewater streams:

1. Laboratory engineering drawings were used to prepare the SFE drain piping schematic. The Solid Waste Stream Characterization conducted by IT Corporation was reviewed. The National Pollutant Discharge Elimination System Permit (NPDES), the 1990 NPDES Permit Application submitted by Los Alamos National Laboratory (LANL) in September, 1990, the latest Federal Facilities Compliance Agreement (FFCA) between the Department of Energy (DOE) and the Environmental Protection Agency (EPA) and the Administrative Order (AO) Docket Number V1-92-1306 issued by EPA to the University of California were used for reference;
2. A site visit was performed to verify the SFE drain schematics and to identify potential outfall pipes exiting the building. The visit entailed a room by room inspection of wastewater sources and drains. Interviews with site personnel were conducted to assist in wastestream characterization and
3. SFE verified drain piping by dye checking.

## 2.0 FIELD INVESTIGATION

The pipes exiting the building have been assigned an Outlet Piping Number. The four part number, sequentially, identifies the Technical Area where the pipe is located, the building from which the pipe discharges, the letters OPN to indicate that it is an outlet piping number and the unique number for the pipe. The piping exiting the building will be labeled for easy identification in the future.

Each drain has a unique identification number. Each number consists of three parts. The first part is the floor the drain is on. The second part has letters that indicate the drain type (abbreviations used are summarized in Table 26). The final part is a unique number for each drain. For example, the floor drain numbering on the first floor would start with 1FD1. The roof drains do not have the number identifying the floor such as RD1 for Roof Drain 1.

The function of each pipe exiting from buildings are listed in Appendix 1, Tables 1 through 25, with an abbreviations list in Table 26. Appendix 2 contains the wastestream characterization database output, listing wastewater source, flow rates and periodicity information for each outfall drain. Completed EPA forms are in Appendix 3 for appropriate outfalls. Appendix 4 provides information about the dye study of building drains. Flow schematics of the drains from each building and the Sewage Treatment Plant are attached in Appendix 5 as Figures 2 through 26. A Site Plan is included in Appendix 5 as Figure 1 illustrating the locations of buildings included in this report.

### **3.0 RECOMMENDATIONS FOR BUILDINGS WITH NO SOURCE OF WATER AND NO DRAINS.**

Buildings 3-254, 1868, 1911, 1933, 1950, 1986, 2028, 2043, 2133 and 2139 do not have drains or any source of water. No changes or permitting are recommended. No EPA forms were prepared.

### **4.0 RECOMMENDATIONS FOR BUILDING 3-206**

Table 1 is a list of the drains to the building outfalls and Figure 2 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The two outfalls are from welding exhaust hoods and discharge to the atmosphere. No permitting is recommended for these outfalls and no EPA forms have been prepared. A potential for an oil spill into the storm sewer exists from transformer 1629. The transformer is located outside of the building and contains PCB oil. Secondary containment around the transformer is recommended.

### **5.0 RECOMMENDATIONS FOR BUILDING 3-214**

Table 2 is a list of the drains to building outfalls and Figures 3 and 4 are schematics of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The two outfalls are roof drain downspouts which drain to daylight next to the building. No permitting is recommended for these outfalls and no EPA forms have been prepared.

### **6.0 RECOMMENDATIONS FOR BUILDING 3-215**

Table 3 is a list of the drains to the building outfalls and Figures 3 and 4 are schematics of the piping. The table

lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

#### 6.1 Outfall 3-215-OPN-1

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the TA-3 Sewage Collection System. No chemicals are drained into any of the drains or fixtures. Area drain BAD1 located in room next to basement mechanical room B1 receives storm water and is currently draining into sewage lift station BSLS1. Rerouting this drain line to connect to the storm sewer piping is recommended. Drain BFD1 receives flow from two air compressor drain lines. Containerizing the liquid is recommended. An oily residue was located below the chiller located in mechanical room B1 which may indicate some sort of leak. It is recommended this be investigated and repaired. No permitting is recommended for this outfall and no EPA forms have been prepared.

#### 6.2 Outfalls 3-215-OPN-2 and 3-215-OPN-4

These outfalls are from roof drains on the building and two area drains in the courtyard and flows into a storm sewer manhole which drains into Two Mile Canyon. No permitting is recommended for these outfalls and no EPA forms have been prepared.

#### 6.3 Outfalls 3-215-OPN-3 and 3-215-OPN-5

These outfalls are fire water system drains which discharge to daylight next to the building. These outfalls should be covered by a Notice of Intent to Discharge (NOI). No piping changes are recommended. No EPA forms were completed.

#### 6.4 Outfall 3-215-OPN-6

This outfall discharges from a water heater pressure relief valve to daylight next to the building. This outfall should be covered by an NOI. No changes are recommended for this outfall and no EPA forms have been prepared.

### 7.0 **RECOMMENDATIONS FOR BUILDING 3-218**

Table 4 is a list of the drains to the building outfalls and Figure 5 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

#### 7.1 Outfall 3-218-OPN-1

This outfall is from sanitary facilities and flows to a sewer manhole which drains to the TA-3 Sewage Collection System. No chemicals are drained into any of the drains or fixtures. No permitting is recommended for this outfall and no EPA forms have been prepared.

#### 7.2 Outfall 3-218-OPN-2

This outfall is from roof drains and flows to daylight next to the building. No permitting or changes are recommended for this outfall and no EPA forms have been prepared.

#### 7.3 Outfall 3-218-OPN-3

This outfall is a vacuum pump exhaust vent which discharges to the atmosphere next to the building. No permitting or piping changes are recommended. No EPA forms were prepared.

#### 7.4 Outfall 3-218-OPN-4

This outfall is a condensed water drain from a mechanical cooling unit and discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were prepared.

#### 7.5 Outfall 3-218-OPN-5

This outfall is an abandoned air relief vent to atmosphere. Removal of this outfall and associated piping is recommended. No permitting is recommended for this outfall and no EPA forms have been prepared.

#### 7.6 Outfall 3-218-OPN-6

This outfall is from ten floor drains and flows to the storm sewer system at west side of the building. Floor drain 1FD6 has been capped flush with the floor. It is recommended the floor drains 1FD1 through 1FD5 and 1FD7, 1FD8, 1FD9 and 1FD10 be capped flush with the floor. No permitting is recommended, however, an EPA form 2D was prepared and is contained in Appendix 3.

#### 7.7 Outfall 3-218-OPN-7

This outfall is from a cooling water circulating pump exhaust venting to the atmosphere next to the building. No piping changes or permitting are recommended. No EPA forms were prepared.

#### 7.8 Outfalls 3-218-OPN-8 and 3-218-OPN-9

These outfalls are gooseneck vents from a natural gas pipe running below building 254. These outfalls discharge to

atmosphere next to the building. No piping changes or permitting are recommended. No EPA forms were prepared.

#### 7.9 Outfall 3-218-OPN-10

This outfall is an abandoned electrical conduit stub-out next to the building. No permitting or piping changes are recommended for this outfall and no EPA forms have been prepared.

#### 7.10 Outfalls 3-218-OPN-11 and 3-218-OPN-14

These two outfalls are abandoned pipe stub-ups from below grade next to the building. These two outfalls be should plugged. No permitting is recommended for these outfalls and no EPA forms have been prepared.

#### 7.11 Outfall 3-218-OPN-12

This outfall is from a sanitary sewer vent to the atmosphere. No piping changes or permitting are recommended. No EPA forms were prepared.

#### 7.12 Outfall 3-218-OPN-13

This outfall is from a water heater pressure relief valve and drains to daylight next to the building. This outfall should be covered by an NOI. No changes are recommended for this outfall and no EPA forms have been prepared.

#### 7.13 Outfall 3-218-OPN-15

This outfall is a bathroom exhaust vent to the atmosphere. No piping changes or permitting are recommended. No EPA forms were prepared.

## 8.0 RECOMMENDATIONS FOR BUILDING 3-227

Table 5 is a list of the drains to the building outfall and Figure 5 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The one outfall drains storm water from a pipe trench to the storm sewer system which discharges into Two Mile Canyon. No permitting or changes are recommended for this outfall and no EPA forms have been prepared.

## 9.0 RECOMMENDATIONS FOR BUILDING 3-228

Table 6 is a list of the drains to the building outfalls and Figure 6 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations. A circulating pump, located next to the door, leaks an oily substance and should be repaired. Secondary containment around a chemical feed bottle is recommended.

### 9.1 Outfall 3-228-OPN-1

This outfall is from a cup drain which is no longer being used. The drain pipe runs in pipe trench 3-227 and terminates at the pipe trench drain. Removing this cup drain (1CD1) and associated piping is recommended. No permitting is recommended for this outfall and no EPA forms have been prepared.

## 9.2 Outfall 3-228-OPN-2

This outfall receives treated cooling water blowdown from a cooling tower on the roof. The outfall also receives flow from two air compressor units, from an air dryer and from a deionized water conditioner. Containerizing the liquid from the two air compressors and the air dryer is recommended. The associated drain piping should be removed. Permitting is also recommended for the treated cooling water discharge. An EPA Application Form 2D is included in Appendix 3 for this outfall. Sampling of this outfall is recommended.

## 10.0 RECOMMENDATIONS FOR BUILDING 3-253

Table 7 is a list of the drains to the building outfalls and Figure 7 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendation.

### 10.1 Outfall 3-253-OPN-1

This outfall flows into a sewer manhole which drains to the TA-3 Sewage Collection System. No chemicals are drained into any of the drains or fixtures. This building no longer has a water supply, therefore, plugging drains 1FD1 and 1FD2 is recommended. No permitting is recommended for this outfall and no EPA forms have been prepared.

### 10.2 Outfall 3-253-OPN-2

This outfall is a pipe stub-out through the wall from an unknown origin. Locating the destination of this outfall by the operating group is recommended. The piping should be capped if not in use. No EPA forms have been prepared.

10.3 Outfalls 3-253-OPN-3, 3-253-OPN-12 and 3-253-OPN-14

These penetrations are electrical conduit stub-outs through the wall. No piping changes or permitting are recommended. No EPA forms were prepared.

10.4 Outfalls 3-253-OPN-4, 3-253-OPN-5, 3-253-OPN-10 and 3-253-OPN-11

These outfalls are roof drains to daylight. No permitting or changes are recommended for these outfalls and no EPA forms have been prepared.

10.5 Outfall 3-253-OPN-6

This outfall is from a plugged sanitary floor drain and is no longer in use. No piping changes or permitting are recommended. No EPA forms were prepared.

10.6 Outfall 3-253-OPN-7

This outfall is from a cup drain which receives flow from a steam pipe pressure relief valve and discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended and no EPA forms were prepared.

10.7 Outfall 3-253-OPN-8

This penetration is a liquid nitrogen fill station connection. No permitting or changes are recommended for this outfall and no EPA forms have been prepared.

### 10.8 Outfalls 3-253-OPN-8 and 3-253-OPN-13

These penetrations are from room exhaust vents and discharge to the atmosphere next to the building. No ducting changes or permitting are recommended. No EPA forms were prepared.

## 11.0 RECOMMENDATIONS FOR BUILDING 3-322

Table 8 is a list of the drains to the building outfalls and Figure 8 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

### 11.1 Outfalls 3-322-OPN-1, 3-322-OPN-6, 3-322-OPN-8 and 3-322-OPN-9

These outfalls are roof drains to daylight. No permitting or changes are recommended for these outfalls and no EPA forms have been prepared.

### 11.2 Outfalls 3-322-OPN-2, 3-322-OPN-3, 3-322-OPN-4 and 3-322-OPN-7

These outfalls are fire water system drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### 11.3 Outfall 3-322-OPN-5

This outfall is a compressed air quick-disconnect fitting. No permitting or changes are recommended for this outfall and no EPA forms have been prepared.

## 12.0 RECOMMENDATIONS FOR BUILDING 3-406

Table 9 is a list of the drains to the building outfalls and Figure 9 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

### 12.1 Outfall 3-406-OPN-1

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the TA-3 Sewage Collection System. No chemicals are drained into any of the drains or fixtures. No permitting or changes are recommended for this outfall and no EPA forms have been prepared.

### 12.2 Outfalls 3-406-OPN-2, 3-406-OPN-3, 3-406-OPN-7 and 3-406-OPN-8

These outfalls are roof drains to daylight. No permitting or changes are recommended for these outfalls and no EPA forms have been prepared.

### 12.3 Outfall 3-406-OPN-4

This outfall discharges from a water heater pressure relief valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### 12.4 Outfalls 3-406-OPN-5 and 3-406-OPN-6

This outfall drains condensed water from a mechanical heating/cooling unit to daylight next to the building. This

outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### **13.0 RECOMMENDATIONS FOR BUILDING 3-494**

Table 10 is a list of the drains to the building outfalls and Figure 10 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

#### **13.1 Outfall 3-494-OPN-1**

This outfall is from sanitary facilities and flows into a sewer manhole which drains to TA-3 Sewage Collection System. Drain 1FS1 receives flow from an air compressor drain. Containerizing the liquid is recommended. It is recommended that floor drains 1FD1, 1FD2, 1FD4, 1FD5, 1FD6 and 1FD7, located in labs, be plugged. It is also recommended that signs stating "SANITARY WASTE ONLY - NO CHEMICAL DISPOSAL" be installed on sinks 1SD3, 1SD4, 1SD5, 1SD6, 1SD7 and 1SD8. No permitting is recommended for this outfall and no EPA forms have been prepared.

#### **13.2 Outfalls 3-494-OPN-2, 3-494-OPN-3, 3-494-OPN-5 and 3-494-OPN-12**

These outfalls are equipment exhaust vents which discharge to atmosphere next to the building. No piping or ducting changes are recommended. No EPA forms were prepared.

13.3 Outfalls 3-494-OPN-4, 3-494-OPN-8, 3-494-OPN-9 and 3-494-OPN-11

These outfalls are fire water system drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

13.4 Outfalls 3-494-OPN-6 and 3-494-OPN-7

These outfalls drain condensed water from an air-cooled condenser to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

13.5 Outfall 3-494-OPN-10

This penetration is a pneumatic controller air relief discharge to the atmosphere next to the building. No permitting or piping changes are needed for this outfall and no EPA forms were completed.

**14.0 RECOMMENDATIONS FOR BUILDING 3-502**

Table 11 is a list of the drains to the building outfalls and Figures 11, 12 and 13 are schematics of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendation.

14.1 Outfall 3-502-OPN-1

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the TA-3 Sewage Collection System. No chemicals are drained into any of the drains or

fixtures. Floor sink drain 1FS1 in room E123 and floor sink drain 2FS1 in room E208 each receive flow from an air compressor drain. Containerizing the liquid is recommended. Signs stating "SANITARY WASTE ONLY - NO CHEMICAL DISPOSAL" should be posted at sink drains 1SD1, 1SD2 and 1SD3. No permitting is recommended for this outfall and no EPA forms have been prepared.

#### 14.2 Outfall 3-502-OPN-2

This outfall is from roof drains on the building and flows into a storm sewer manhole which drains into Two Mile Canyon. No permitting is recommended for this outfall and no EPA forms have been prepared.

#### 14.3 Outfalls 3-502-OPN-3 and 3-502-OPN-4

These outfalls are fire water system drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### **15.0 RECOMMENDATIONS FOR BUILDINGS 3-1506**

Table 12 is a list of the drains to the building outfalls and Figure 14 is a schematic of the piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### **16.0 RECOMMENDATIONS FOR BUILDING 3-1507**

Table 13 is a list of the drains to the building outfalls and Figure 15 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes

recommendations for changes to the drain piping. The three building outfalls (3-1507-OPN-1, 3-1507-OPN-2 and 3-1507-OPN-3) drain condensed water from mechanical cooling units to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

#### **17.0 RECOMMENDATIONS FOR BUILDING 3-1516**

Table 14 is a list of the drains to the building outfalls and Figure 16 is a schematic of the piping. The two building outfalls (3-1516-OPN-1 and 3-1516-OPN-2) drain condensed water from mechanical cooling units to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

#### **18.0 RECOMMENDATIONS FOR BUILDING 3-1519**

Table 15 is a list of the drains to the building outfall and Figure 17 is a schematic of the piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

#### **19.0 RECOMMENDATIONS FOR BUILDING 1596**

Table 16 is a list of the drains to the building outfall and Figure 18 is a schematic of the piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## **20.0 RECOMMENDATIONS FOR BUILDING 3-1702**

Table 17 is a list of the drains to the building outfall and Figure 19 is a schematic of the piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## **21.0 RECOMMENDATIONS FOR BUILDING 3-1736**

Table 18 is a list of the drains to the building outfall and Figure 20 is a schematic of the piping. One outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. The second outfall is for unplumbed restroom fixtures (no sewer/no water) and is located in room 101. These are a lavatory 1LV1 and a toilet 1TL1. These two fixtures are not plumbed with water or sanitary sewer. Removing these fixtures or sealing the restroom door shut is recommended. A sign should be placed on the door stating the restrooms are inoperable. No EPA forms were completed.

## **22.0 RECOMMENDATIONS FOR BUILDING 3-1737**

Table 19 is a list of the drains to the building outfall and Figure 21 is a schematic of the piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. The second outfall is for unplumbed restroom fixtures (no sewer/no water) and is located in room 101. These are a lavatory 1LV1 and a toilet 1TL1. These two fixtures are not plumbed with water or to the sanitary sewer. Removing these fixtures or sealing the restroom door shut is recommended. A sign should be placed on the door

stating the restrooms are inoperable. No EPA forms were completed.

### **23.0 RECOMMENDATIONS FOR BUILDING 3-1738**

Table 20 is a list of the drains to the building outfall and Figure 22 is a schematic of the piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. Located in room 101 are a lavatory 1LV1 and a toilet 1TL1. These two fixtures are not plumbed with water or to the sanitary sewer. Removing these fixtures or sealing the restroom door shut is recommended. A sign should be placed on the door stating the restrooms are inoperable. No EPA forms were completed.

### **24.0 RECOMMENDATIONS FOR BUILDING 3-1887**

Table 21 is a list of the drains to the building outfalls and Figure 23 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendation.

#### **24.1 Outfall 3-1887-OPN-1**

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the TA-3 Sewage Collection System. No chemicals are drained into any of the drains or fixtures. No permitting or changes are recommended for this outfall and no EPA forms have been prepared.

#### **24.2 Outfall 3-1887-OPN-2**

This outfall discharges from a water heater pressure relief valve to daylight next to the building. This outfall should

be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

#### 24.3 Outfalls 3-1887-OPN-3 and 3-1887-OPN-4

These outfalls drain condensed water from evaporative coolers to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

#### 24.4 Outfall 3-1887-OPN-5

This outfall is from an unknown origin and seems to be abandoned. It discharges to daylight next to the building. Investigating the origin of this pipe by the operating group and plugging it if not in use is recommended. An NOI may be required for this outfall. No permitting is recommended and no EPA forms have been completed.

### **25.0 RECOMMENDATIONS FOR BUILDING 3-1888**

Table 22 is a list of the drains to the building outfalls and Figure 24 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain pipe. The discussion below gives the reasoning for the recommendations.

#### 25.1 Outfall 3-1888-OPN-1

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the TA-3 Sewage Treatment Plant. No chemicals are drained into any of the drains or fixtures. No permitting or piping changes are recommended for this outfall and no EPA forms have been prepared.

### 25.2 Outfall 3-1888-OPN-2

This outfall discharges from a water heater pressure relief valve to daylight next to the building. This outfall should be covered by an NOI. No changes are recommended for this outfall and no EPA forms have been prepared.

### 25.3 Outfalls 3-1888-OPN-3 and 3-1888-OPN-4

These outfalls drain condensed water from evaporative coolers to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## **26.0 RECOMMENDATIONS FOR BUILDING 3-1903**

Table 23 is a list of the drains to the building outfall and Figure 25 is a schematic of the piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. The second outfall is for unplumbed restroom fixtures (no sewer/no water) and is located in room 101. These are a lavatory 1LV1 and a toilet 1TL1. These two fixtures are not plumbed with water or sanitary sewer. Removing these fixtures or sealing restroom door shut is recommended. A sign should be placed on the door stating the restrooms are inoperable. No EPA forms were completed.

## **27.0 RECOMMENDATIONS FOR BUILDING 3-1912**

Table 25 is a list of the drains to the building outfall and Figure 26 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

27.1 Outfall 3-1912-OPN-1

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the TA-3 Sewage Collection System. No chemicals are drained into any of the drains of fixtures. No changes are recommended for this outfall and no EPA forms have prepared.

27.2 Outfall 3-1912-OPN-2

This outfall discharges from a water heater pressure relief valve to daylight next to the building. This outfall should be covered by an NOI. No changes are recommended for this outfall and no EPA forms have been prepared.

## 28.0 CONCLUSION

This document provides the information to characterize buildings 206, 214, 215, 218, 227, 228, 253, 254, 322, 406, 494, 502, 1506, 1507, 1516, 1519, 1596, 1702, 1736, 1737, 1738, 1868, 1887, 1888, 1903, 1911, 1912, 1933, 1950, 1986, 2028, 2043, 2133 and 2139 of TA-3. Permit application forms have been completed for the following outfall (Appendix 3).

### Form 2D

1. 3-218-OPN-6
2. 3-228-OPN-2

Permitting is not recommended for the following outfalls, as itemized below.

Areas that do not have any drains:

1. 3-254
2. 3-1868
3. 3-1911
4. 3-1933
5. 3-1950
6. 3-1986
7. 3-2028
8. 3-2043
9. 3-2133
10. 3-2139

Discharges to TA-3 Sewage Collection System:

1. 3-215-OPN-1
2. 3-218-OPN-1
3. 3-253-OPN-1
4. 3-406-OPN-1
5. 3-494-OPN-1
6. 3-502-OPN-1
7. 3-1887-OPN-1
8. 3-1888-OPN-1
9. 3-1912-OPN-1

Discharge from the fire system:

1. 3-215-OPN-3
2. 3-215-OPN-5
3. 3-322-OPN-2
4. 3-322-OPN-3
5. 3-322-OPN-4
6. 3-322-OPN-7
7. 3-494-OPN-4
8. 3-494-OPN-8
9. 3-494-OPN-9
10. 3-494-OPN-11
11. 3-502-OPN-3
12. 3-502-OPN-4

Discharges of condensed water:

1. 3-218-OPN-4
2. 3-406-OPN-5
3. 3-406-OPN-6
4. 3-494-OPN-6
5. 3-494-OPN-7
6. 3-1506-OPN-1
7. 3-1507-OPN-1
8. 3-1507-OPN-2
9. 3-1507-OPN-3
10. 3-1516-OPN-1
11. 3-1516-OPN-2
12. 3-1519-OPN-1
13. 3-1596-OPN-1
14. 3-1702-OPN-1
15. 3-1736-OPN-1
16. 3-1737-OPN-1
17. 3-1738-OPN-1
18. 3-1903-OPN-1

Discharges of condensed water from evaporative coolers:

- |                 |                 |                 |
|-----------------|-----------------|-----------------|
| 1. 3-1887-OPN-3 | 2. 3-1887-OPN-4 | 3. 3-1888-OPN-3 |
| 4. 3-1888-OPN-4 | 5. 3-1912-OPN-3 |                 |

Storm water discharges:

- |                 |                  |                  |
|-----------------|------------------|------------------|
| 1. 3-214-OPN-1  | 2. 3-214-OPN-2   | 3. 3-215-OPN-2   |
| 4. 3-215-OPN-4  | 5. 3-218-OPN-2   | 6. 3-218-OPN-6   |
| 7. 3-227-OPN-1  | 8. 3-228-OPN-1   | 9. 3-253-OPN-4   |
| 10. 3-253-OPN-5 | 11. 3-253-OPN-10 | 12. 3-253-OPN-11 |
| 13. 3-322-OPN-1 | 14. 3-322-OPN-6  | 15. 3-322-OPN-8  |
| 16. 3-322-OPN-9 | 17. 3-406-OPN-2  | 18. 3-406-OPN-3  |
| 19. 3-406-OPN-7 | 20. 3-406-OPN-8  | 21. 3-502-OPN-2  |

Discharges from hot water heaters:

- |                 |                 |                 |
|-----------------|-----------------|-----------------|
| 1. 3-215-OPN-6  | 2. 3-218-OPN-13 | 3. 3-406-OPN-4  |
| 4. 3-1887-OPN-2 | 5. 3-1888-OPN-2 | 6. 3-1912-OPN-2 |

Discharges from equipment exhaust:

- |                 |                  |                |
|-----------------|------------------|----------------|
| 1. 3-206-OPN-1  | 2. 3-206-OPN-2   | 3. 3-218-OPN-3 |
| 4. 3-218-OPN-7  | 5. 3-218-OPN-15  | 6. 3-253-OPN-9 |
| 7. 3-253-OPN-13 | 8. 3-494-OPN-2   | 9. 3-494-OPN-3 |
| 10. 3-494-OPN-5 | 11. 3-494-OPN-12 |                |

Discharges from sanitary sewer vents:

1. 3-218-OPN-12

Abandoned electrical conduit stub-outs:

- |                 |                |                 |
|-----------------|----------------|-----------------|
| 1. 3-218-OPN-10 | 2. 3-253-OPN-3 | 3. 3-253-OPN-12 |
| 4. 3-253-OPN-14 |                |                 |

Discharges from natural gas pipe vent:

- |                |                |
|----------------|----------------|
| 1. 3-218-OPN-8 | 2. 3-218-OPN-9 |
|----------------|----------------|

Unconnected Outfalls:

- |                 |                 |                 |
|-----------------|-----------------|-----------------|
| 1. 3-1736-OPN-2 | 2. 3-1737-OPN-2 | 3. 3-1738-OPN-2 |
| 4. 3-1905-OPN-2 |                 |                 |

Miscellaneous discharges:

- |     |              |    |              |    |              |
|-----|--------------|----|--------------|----|--------------|
| 1.  | 3-218-OPN-5  | 2. | 3-218-OPN-11 | 3. | 3-218-OPN-14 |
| 4.  | 3-253-OPN-2  | 5. | 3-253-OPN-6  | 6. | 3-253-OPN-7  |
| 7.  | 3-253-OPN-8  | 8. | 3-322-OPN-5  | 9. | 3-494-OPN-10 |
| 10. | 3-1887-OPN-5 |    |              |    |              |

Recommended corrective actions are outlined in Tables 1 through 25 as well as in the above text. Corrective action should be performed as soon as practicable to minimize the chance of unpermitted discharge of pollutants.

**TABLE 1: TA 3-206 DRAIN SUMMARY**

<b>OUTFALL NUMBER</b>	<b>ID NUMBER</b>	<b>ROOM ACTIVITY</b>	<b>ROOM NUMBER</b>	<b>STATUS OR RECOMMENDATIONS</b>	<b>EPA FORM PREPARED</b>
3-206-OPN-1	N/A	HOOD EXHAUST	N/A	NO CHANGE	NO
3-206-OPN-2	N/A	HOOD EXHAUST	N/A	NO CHANGE	NO

**TABLE 2: TA 3-214 DRAIN SUMMARY**

<b>OUTFALL NUMBER</b>	<b>ID NUMBER</b>	<b>ROOM ACTIVITY</b>	<b>ROOM NUMBER</b>	<b>STATUS OR RECOMMENDATIONS</b>	<b>EPA FORM PREPARED</b>
3-214-OPN-1	N/A	STORM WATER DRAIN	EXTER.	NO CHANGE	NO
3-214-OPN-2	N/A	STORM WATER DRAIN	EXTER.	NO CHANGE	NO

TABLE 3: TA 3-215 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATION	EPA FORM PREPARED
3-215-OPN-1 SANITARY	BAD1	MECHANICAL RM.	B1	RE-ROUTE	NO
	BFD1	MECHANICAL RM.	B1	NO CHANGE	
	BFD2	MECHANICAL RM.	B1	NO CHANGE	
	BFD3	MECHANICAL RM.	B1	NO CHANGE	
	BFD4	MECHANICAL RM.	B1	NO CHANGE	
	BSL1	MECHANICAL RM.	B1	NO CHANGE	
	1LV1	RESTROOM	107	NO CHANGE	
	1LV2	RESTROOM	107	NO CHANGE	
	1LV3	RESTROOM	103	NO CHANGE	
	1LV4	RESTROOM	103	NO CHANGE	
	1LV5	RESTROOM	103	NO CHANGE	
	1SD1	JANITOR'S CLOSET	118	NO CHANGE	
	1SD2	RECEPTION ROOM	100A	NO CHANGE	
	1TL1	RESTROOM	107	NO CHANGE	
	1TL2	RESTROOM	107	NO CHANGE	
	1TL3	RESTROOM	103	NO CHANGE	
	1TL4	RESTROOM	103	NO CHANGE	
	1TL5	RESTROOM	103	NO CHANGE	
	1UR1	RESTROOM	103	NO CHANGE	
	1UR2	RESTROOM	103	NO CHANGE	
	1UR3	RESTROOM	103	NO CHANGE	
	1WF1	CORRIDOR	101A	NO CHANGE	
	1WF2	CORRIDOR	101D	NO CHANGE	
	2FD1	RESTROOM	205	NO CHANGE	
	2FD2	RESTROOM	203	NO CHANGE	
	2LV1	RESTROOM	205	NO CHANGE	
	2LV2	RESTROOM	205	NO CHANGE	
	2LV3	RESTROOM	203	NO CHANGE	
	2LV4	RESTROOM	203	NO CHANGE	
	2LV5	RESTROOM	203	NO CHANGE	
	2SD1	JANITOR'S CLOSET	218	NO CHANGE	
	2SD2	BREAK AREA	201B	NO CHANGE	
	2TL1	RESTROOM	205	NO CHANGE	
	2TL2	RESTROOM	205	NO CHANGE	

TABLE 3: TA 3-215 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATION	EPA FORM PREPARED
3-215-OPN-1 CONT.	2TL3	RESTROOM	203	NO CHANGE	NO
	2TL4	RESTROOM	203	NO CHANGE	
	2TL5	RESTROOM	203	NO CHANGE	
	2UR1	RESTROOM	203	NO CHANGE	
	2UR2	RESTROOM	203	NO CHANGE	
	2UR3	RESTROOM	203	NO CHANGE	
	2WF1	CORRIDOR	201A	NO CHANGE	
	2WF2	CORRIDOR	201D	NO CHANGE	
3-215-OPN-2 DAYLIGHT	1AD1	COURTYARD	EXTER.	NO CHANGE	NO
	1AD2	COURTYARD	EXTER.	NO CHANGE	
	RD1	ROOF	EXTER.	NO CHANGE	
	RD2	ROOF	EXTER.	NO CHANGE	
	RD3	ROOF	EXTER.	NO CHANGE	
	RD4	ROOF	EXTER.	NO CHANGE	
	RD7	ROOF	EXTER.	NO CHANGE	
	RD8	ROOF	EXTER.	NO CHANGE	
	RD9	ROOF	EXTER.	NO CHANGE	
	RD10	ROOF	EXTER.	NO CHANGE	
	RD11	ROOF	EXTER.	NO CHANGE	
	RD12	ROOF	EXTER.	NO CHANGE	
	RD13	ROOF	EXTER.	NO CHANGE	
	RD14	ROOF	EXTER.	NO CHANGE	
3-215-OPN-3	N/A	FIRE LINE DRAIN	B1	NOI	NO
3-215-OPN-4 DAYLIGHT	RD5	ROOF	EXTER.	NO CHANGE	NO
	RD6	ROOF	EXTER.	NO CHANGE	
3-215-OPN-5	N/A	FIRE LINE DRAIN	B1	NOI	NO
3-215-OPN-6	2WH1	WATER HTR. DRAIN	201B	NOI	NO

TABLE 4: TA 3-218 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-218-OPN-1 SANITARY	1LV1	BATHROOM	102E	NO CHANGE	NO
	1LV2	BATHROOM	102E	NO CHANGE	
	1SD1	BREAK AREA	102	NO CHANGE	
	1SD2	JANITOR'S CLOSET	102D	NO CHANGE	
	1SH1	BATHROOM	102E	NO CHANGE	
	1TL1	BATHROOM	102E	NO CHANGE	
	1TL2	BATHROOM	102E	NO CHANGE	
	1UR1	BATHROOM	102E	NO CHANGE	
	1WF1	CORRIDOR	102	NO CHANGE	
3-218-OPN-2	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO
3-218-OPN-3	N/A	VAC. PUMP EXH.	N/A	NO CHANGE	NO
3-218-OPN-4	N/A	CONDENS. WATER	102	NOI	NO
3-218-OPN-5	N/A	ABAND. AIR VENT	102	REMOVE PIPE	NO
3-218-OPN-6 STORM	1FD1	BATHROOM	102E	PLUG DRAIN	YES
	1FD2	WORKROOM	102	PLUG DRAIN	
	1FD3	WORKROOM	102	PLUG DRAIN	
	1FD3	WORKROOM	102	PLUG DRAIN	
	1FD4	WORKROOM	102	PLUG DRAIN	
	1FD5	WORKROOM	102	PLUG DRAIN	
	1FD6	WORKROOM	102	PLUGGED	
	1FD7	WORKROOM	102	PLUG DRAIN	
	1FD8	WORKROOM	102	PLUG DRAIN	
	1FD9	WORKROOM	102	PLUG DRAIN	
1FD10	WORKROOM	102	PLUG DRAIN		
3-218-OPN-7	N/A	EXHAUST VENT	102	NO CHANGE	NO
3-218-OPN-8	N/A	NAT. GAS VENT	EXTER.	NO CHANGE	NO
3-218-OPN-9	N/A	NAT. GAS VENT	EXTER.	NO CHANGE	NO
3-218-OPN-10	N/A	ELECT. CONDUIT	100	NO CHANGE	NO
3-218-OPN-11	N/A	ABANDONED PIPE	EXTER.	PLUG	NO
3-218-OPN-12	N/A	SEWER VENT PIPE	100	NO CHANGE	NO
3-218-OPN-13	N/A	WATER HTR. DRAIN	102	N.O.I.	NO
3-218-OPN-14	N/A	ABANDONED PIPE	EXTER.	PLUG	NO
3-218-OPN-15	N/A	EXHAUST VENT	102E	NO CHANGE	NO

TABLE 5: TA 3-227 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-227-OPN-1	1TD1	PIPE TRENCH	N/A	CLEAN DRAIN	NO

TABLE 6: TA 3-228 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-228-OPN-1	1CD1	MECHANICAL RM.	N/A	REMOVE	NO
3-228-OPN-2	1ED1	MECHANICAL RM.	N/A	EPA PERMIT	YES
	1ED2	CLG. TWR. BLOWDN	N/A	EPA PERMIT	

TABLE 7: TA 3-253 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-253-OPN-1 SANITARY	1FD1	OFFICE	101	PLUG DRAIN	NO
	1FD2	OFFICE	100	PLUG DRAIN	
3-253-OPN-2	N/A	OFFICE	100	VERIFY	NO
3-253-OPN-3	N/A	ELECT. CONDUIT	100	NO CHANGE	NO
3-253-OPN-4	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO
3-253-OPN-5	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO
3-253-OPN-6	1FD3	OFFICE	100	PLUGGED	NO
3-253-OPN-7	1CD1	STEAM RELIEF DR.	100	NO CHANGE	NO
3-253-OPN-8	N/A	N2 FILL STATION	100	NO CHANGE	NO
3-253-OPN-9	N/A	EXHAUST VENT	100	NO CHANGE	NO
3-253-OPN-10	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO
3-253-OPN-11	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO
3-253-OPN-12	N/A	ELECT. CONDUIT	100	NO CHANGE	NO
3-253-OPN-13	N/A	EXHAUST VENT	100	NO CHANGE	NO
3-253-OPN-14	N/A	ELECT. CONDUIT	100	NO CHANGE	NO

TABLE 8: TA 3-322 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATION	EPA FORM PREPARED
3-322-OPN-1	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO
3-322-OPN-2	N/A	FIRE LINE DRAIN	N/A	NOI	NO
3-322-OPN-3	N/A	FIRE LINE DRAIN	N/A	NOI	NO
3-322-OPN-4	N/A	FIRE LINE DRAIN	N/A	NOI	NO
3-322-OPN-5	N/A	AIR QUICK-DISCON	N/A	NO CHANGE	NO
3-322-OPN-6	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO
3-322-OPN-7	N/A	FIRE LINE DRAIN	N/A	NOI	NO
3-322-OPN-8	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO
3-322-OPN-9	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO

TABLE 9: TA 3-406 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATION	EPA FORM PREPARED
3-406-OPN-1 SANITARY	1LV1	RESTROOM	101	NO CHANGE	NO
	1LV2	RESTROOM	102	NO CHANGE	
	1TL1	RESTROOM	101	NO CHANGE	
	1TL2	RESTROOM	102	NO CHANGE	
	1UR1	RESTROOM	101	NO CHANGE	
	1WF1	CORRIDOR	100	NO CHANGE	
3-406-OPN-2	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO
3-406-OPN-3	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO
3-406-OPN-4	N/A	WATER HTR. DRAIN	104	NOI	NO
3-406-OPN-5	N/A	CONDENS. WATER	N/A	NOI	NO
3-406-OPN-6	N/A	CONDENS. WATER	N/A	NOI	NO
3-406-OPN-7	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO
3-406-OPN-8	N/A	ROOF DRAIN	EXTER.	NO CHANGE	NO

TABLE 10: TA 3-494 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATION	EPA FORM PREPARED
3-494-OPN-1 SANITARY	1ED1	CORRIDOR	100	NO CHANGE	NO
	1FD1	LAB	118	PLUG	
	1FD2	LAB	116	PLUG	
	1FD3	MECHANICAL RM.	112A	NO CHANGE	
	1FD4	LAB	107	PLUG	
	1FD5	LAB	105	PLUG	
	1FD6	LAB	103	PLUG	
	1FD7	LAB	101	PLUG	
	1FS1	MECHANICAL RM.	112A	CONTAIN	
	1FS2	MECHANICAL RM	112A	NO CHANGE	
	1LV1	RESTROOM	110	NO CHANGE	
	1LV2	RESTROOM	106	NO CHANGE	
	1SD1	BREAKROOM	112	NO CHANGE	
	1SD2	JANITOR'S CLOSET	108	NO CHANGE	
	1SD3	LAB	102	LABEL	
	1SD4	LAB	107	LABEL	
	1SD5	LAB	107	LABEL	
	1SD6	LAB	105	LABEL	
	1SD7	LAB	103	LABEL	
	1SD8	LAB	101	LABEL	
1TL1	RESTROOM	110	NO CHANGE		
1TL2	RESTROOM	106	NO CHANGE		
1UR1	RESTROOM	110	NO CHANGE		
3-494-OPN-2	N/A	EXHAUST VENT	105	NO CHANGE	NO
3-494-OPN-3	N/A	EXHAUST VENT	118	NO CHANGE	NO
3-494-OPN-4	N/A	FIRE LINE DRAIN	118	NOI	NO
3-494-OPN-5	N/A	EXHAUST VENT	116	NO CHANGE	NO
3-494-OPN-6	N/A	CONDENS. DRAIN	EXTER.	NOI	NO
3-494-OPN-7	N/A	CONDENS. DRAIN	EXTER.	NOI	NO
3-494-OPN-8	N/A	FIRE LINE DRAIN	112A	NOI	NO
3-494-OPN-9	N/A	FIRE LINE DRAIN	112A	NOI	NO
3-494-OPN-10	N/A	AIR RELIEF DISCH.	112A	NO CHANGE	NO
3-494-OPN-11	N/A	FIRE LINE DRAIN	112A	NOI	NO
3-494-OPN-12	N/A	EXHAUST VENT	101	NO CHANGE	NO

TABLE 11: TA 3-502 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-502-OPN-1 SANITARY	1ED1	CORRIDOR	100B	NO CHANGE	NO
	1FD1	RESTROOM	N107A	NO CHANGE	
	1FD2	RESTROOM	N103A	NO CHANGE	
	1FS1	MECHANICAL RM.	E123	CONTAIN	
	1FS2	MECHANICAL RM.	E123A	NO CHANGE	
	1FS3	MECHANICAL RM.	E123	NO CHANGE	
	1FS4	MECHANICAL RM.	E123	NO CHANGE	
	1FS5	MECHANICAL RM.	E123	NO CHANGE	
	1LV1	RESTROOM	N107A	NO CHANGE	
	1LV2	RESTROOM	N107A	NO CHANGE	
	1LV3	RESTROOM	N103A	NO CHANGE	
	1LV4	RESTROOM	N103A	NO CHANGE	
	1TL1	RESTROOM	N107A	NO CHANGE	
	1TL2	RESTROOM	N107A	NO CHANGE	
	1TL3	RESTROOM	N103A	NO CHANGE	
	1TL4	RESTROOM	N103A	NO CHANGE	
	1SD1	LABORATORY	E114	LABEL	
	1SD2	LABORATORY	E116	LABEL	
	1SD3	LABORATORY	N111A	LABEL	
	1SD4	JANITOR'S CLOSET	SSK-1	NO CHANGE	
	1SD5	BREAKROOM	N101	NO CHANGE	
	1TL1	RESTROOM	N107A	NO CHANGE	
	1TL2	RESTROOM	N107A	NO CHANGE	
	1TL3	RESTROOM	N103A	NO CHANGE	
	1TL4	RESTROOM	N103A	NO CHANGE	
	1UR1	RESTROOM	N103A	NO CHANGE	
	1UR2	RESTROOM	N103A	NO CHANGE	
	1WF1	CORRIDOR	100A	NO CHANGE	
	2FD1	BATHROOM	N207	NO CHANGE	
	2FD2	BATHROOM	N203	NO CHANGE	
	2FS1	MECHANICAL RM.	E208	CONTAIN	
	2FS2	MECHANICAL RM.	ROOF	NO CHANGE	
	2LV1	BATHROOM	N207	NO CHANGE	

TABLE 11: TA 3-502 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-502-OPN-1 CONT.	2LV2	BATHROOM	N207	NO CHANGE	NO
	2LV3	BATHROOM	N203	NO CHANGE	
	2LV4	BATHROOM	N203	NO CHANGE	
	2SD1	JANITOR'S CLOSET	N202	NO CHANGE	
	2SH1	BATHROOM	N207	NO CHANGE	
	2SH2	BATHROOM	N203	NO CHANGE	
	2TL1	BATHROOM	N207	NO CHANGE	
	2TL2	BATHROOM	N207	NO CHANGE	
	2TL3	BATHROOM	N203	NO CHANGE	
	2TL4	BATHROOM	N203	NO CHANGE	
	2TL5	BATHROOM	N203	NO CHANGE	
	2UR1	BATHROOM	N203	NO CHANGE	
	2UR2	BATHROOM	N203	NO CHANGE	
2WF1	CORRIDOR	200A	NO CHANGE		
3-502-OPN-2 DAYLIGHT	OD1	ROOF OVERFLOW DRAIN	ROOF	NO CHANGE	NO
	OD2	ROOF OVERFLOW DRAIN	ROOF	NO CHANGE	
	OD3	ROOF OVERFLOW DRAIN	ROOF	NO CHANGE	
	OD4	ROOF OVERFLOW DRAIN	ROOF	NO CHANGE	
	OD5	ROOF OVERFLOW DRAIN	ROOF	NO CHANGE	
	OD6	ROOF OVERFLOW DRAIN	ROOF	NO CHANGE	
	OD7	ROOF OVERFLOW DRAIN	ROOF	NO CHANGE	
	RD1	ROOF DRAIN	ROOF	NO CHANGE	
	RD2	ROOF DRAIN	ROOF	NO CHANGE	
	RD3	ROOF DRAIN	ROOF	NO CHANGE	
	RD4	ROOF DRAIN	ROOF	NO CHANGE	
	RD5	ROOF DRAIN	ROOF	NO CHANGE	
	RD6	ROOF DRAIN	ROOF	NO CHANGE	
RD7	ROOF DRAIN	ROOF	NO CHANGE		
RD8	ROOF DRAIN	ROOF	NO CHANGE		
3-502-OPN-3	N/A	FIRE LINE DRAIN	E123	NOI	NO
3-502-OPN-4	N/A	FIRE LINE DRAIN	E123	NOI	NO

TABLE 12: TA 3-1506 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1506-OPN-1	N/A	CONDENS. WATER	EXTER.	NOI	NO

TABLE 13: TA 3-1507 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1507-OPN-1	N/A	CONDENS. WATER	EXTER.	NOI	NO
3-1507-OPN-2	N/A	CONDENS. WATER	EXTER.	NOI	NO
3-1507-OPN-3	N/A	CONDENS. WATER	EXTER.	NOI	NO

TABLE 14: TA 3-1516 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1516-OPN-1	N/A	CONDENS. WATER	EXTER.	NOI	NO
3-1516-OPN-2	N/A	CONDENS. WATER	EXTER.	NOI	NO

TABLE 15: TA 3-1519 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1519-OPN-1	N/A	CONDENS. WATER	EXTER.	NOI	NO

TABLE 16: TA 3-1596 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1596-OPN-1	N/A	CONDENS. WATER	EXTER.	NOI	NO

TABLE 17: TA 3-1702 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1702-OPN-1	N/A	CONDENS. WATER	EXTER.	NOI	NO

TABLE 18: TA 3-1736 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1736-OPN-1	N/A	CONDENS. WATER	EXTER.	NOI	NO
3-1736-OPN-2	1LV1	RESTROOM	101	NO PLB/REMOVE	NO
	1TL1	RESTROOM	101	NO PLB/REMOVE	

TABLE 19: TA 3-1737 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1737-OPN-1	N/A	CONDENS. WATER	EXTER.	NOI	NO
3-1737-OPN-2	1LV1	RESTROOM	101	NO PLB/REMOVE	NO
	1TL1	RESTROOM	101	NO PLB/REMOVE	

TABLE 20: TA 3-1738 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1738-OPN-1	N/A	CONDENS. WATER	EXTER.	NOI	NO
3-1738-OPN-2	1LV1	RESTROOM	101	NO PLB/REMOVE	NO
	1TL1	RESTROOM	101	NO PLB/REMOVE	

TABLE 21: TA 3-1887 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1887-OPN-1 SANITARY	1LV1	RESTROOM	117	NO CHANGE	NO
	1LV2	RESTROOM	113	NO CHANGE	
	1SD1	JANITOR'S CLOSET	115	NO CHANGE	
	1SD2	CORRIDOR	100	NO CHANGE	
	1TL1	RESTROOM	117	NO CHANGE	
	1TL2	RESTROOM	113	NO CHANGE	
	1UR1	RESTROOM	113	NO CHANGE	
	1WF1	CORRIDOR	100	NO CHANGE	
3-1887-OPN-2	IWH1	WATER HTR. DRAIN	117	NOI	NO
3-1887-OPN-3	N/A	CONDENS. WATER	ROOF	NOI	NO
3-1887-OPN-4	N/A	CONDENS. WATER	ROOF	NOI	NO
3-1887-OPN-5	N/A	ABANDON. PIPE	N/A	VERIFY/PLUG	NO

TABLE 22: TA 3-1888 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1888-OPN-1 SANITARY	1LV1	RESTROOM	120	NO CHANGE	NO
	1LV2	RESTROOM	114	NO CHANGE	
	1SD1	CORRIDOR	100	NO CHANGE	
	1SD2	JANITOR'S CLOSET	116	NO CHANGE	
	1SD3	WORKROOM	N/A	NO CHANGE	
	1TL1	RESTROOM	120	NO CHANGE	
	1TL2	RESTROOM	114	NO CHANGE	
	1WF1	CORRIDOR	100	NO CHANGE	
3-1888-OPN-2	IWH1	WATER HTR. DRAIN	118	NOI	NO
3-1888-OPN-3	N/A	CONDENS. WATER	ROOF	NOI	NO
3-1888-OPN-4	N/A	CONDENS. WATER	ROOF	NOI	NO

TABLE 23: TA 3-1903 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1903-OPN-1	N/A	CONDENS. WATER	EXTER.	N.O.I.	NO
3-1903-OPN-2 NOT CONN.	1LV1	RESTROOM	101	NO PLB/REMOVE	NO
	1TL1	RESTROOM	101	NO PLB/REMOVE	

TABLE 24: TA 3-1912 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1912-OPN-1 SANITARY	1LV1	RESTROOM	107	NO CHANGE	NO
	1LV2	RESTROOM	105	NO CHANGE	
	1SD1	CORRIDOR	100	NO CHANGE	
	1SD2	JANITOR'S CLOSET	103	NO CHANGE	
	1TL1	RESTROOM	107	NO CHANGE	
	1TL2	RESTROOM	105	NO CHANGE	
3-1912-OPN-2	1WH1	WATER HTR. DRAIN	106	NOI	NO
3-1912-OPN-3	N/A	CONDENS. WATER	ROOF	NOI	NO

**TABLE 25: NON-DRAIN RECOMMENDATIONS**

<b>TA #</b>	<b>BLDG. #</b>	<b>ROOM/AREA</b>	<b>RECOMMENDATION</b>
3	206	TRANSFORMER #1629	PROVIDE SECONDARY CONTAINMENT
3	215	ROOM B1	REPAIR LEAK AT CHILLER
3	228	CIRC. PUMP	REPAIR LEAK AT CHILLER
3	228	CHEMICAL FEED	SECONDARY CONTAINMENT

**TABLE 26**  
**SUMMARY OF ABBREVIATIONS**

<b>ABBREVIATION</b>	<b>MEANING</b>
AD	Area Storm Drain
CD	Cup Drain
EC	Evaporative Cooler
ED	Equipment Drain
EW	Emergency Eye Wash
FD	Floor Drain
FS	Floor Sink
LV	Lavatory
MH	Manhole
OD	Roof Overflow Drain
ODL	Overflow Drain Leader
RD	Roof Drain
RDL	Roof Drain Leader
SD	Sink
SH	Shower
SLS	Sewage Lift Station
SS	Sanitary Sewer Pipe
TL	Toilet
UR	Urinal
WF	Water Fountain
WH	Water Heater

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	206	3-206-OPN-1	ATMOSPHERE	N/A	N/A	WELDING SHOP		NO FLOW	No	WELDING HOOD EXHAUST
3	206	3-206-OPN-2	ATMOSPHERE	N/A	N/A	WELDING SHOP		NO FLOW	No	WELDING HOOD EXHAUST
3	214	3-214-OPN-1	DAYLIGHT	N/A	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	214	3-214-OPN-2	DAYLIGHT	N/A	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-1	01S/SWSC	1LV1	107	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	215	3-215-OPN-1	01S/SWSC	1LV2	107	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	215	3-215-OPN-1	01S/SWSC	1LV3	103	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	215	3-215-OPN-1	01S/SWSC	1LV4	103	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	215	3-215-OPN-1	01S/SWSC	1LV5	103	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	215	3-215-OPN-1	01S/SWSC	1SD1	118	JANITOR'S CLOSET		5 DAYS/WEEK	No	SERVICE SINK
3	215	3-215-OPN-1	01S/SWSC	1SD2	100A	RECEPTION ROOM		5 DAYS/WEEK	No	COUNTERTOP SINK
3	215	3-215-OPN-1	01S/SWSC	1TL1	107	RESTROOM		5 DAYS/WEEK	No	TOILET
3	215	3-215-OPN-1	01S/SWSC	1TL2	107	RESTROOM		5 DAYS/WEEK	No	TOILET
3	215	3-215-OPN-1	01S/SWSC	1TL3	103	RESTROOM		5 DAYS/WEEK	No	TOILET
3	215	3-215-OPN-1	01S/SWSC	1TL4	103	RESTROOM		5 DAYS/WEEK	No	TOILET
3	215	3-215-OPN-1	01S/SWSC	1TL5	103	RESTROOM		5 DAYS/WEEK	No	TOILET
3	215	3-215-OPN-1	01S/SWSC	1UR1	103	RESTROOM		5 DAYS/WEEK	No	URINAL
3	215	3-215-OPN-1	01S/SWSC	1UR2	103	RESTROOM		5 DAYS/WEEK	No	URINAL
3	215	3-215-OPN-1	01S/SWSC	1UR3	103	RESTROOM		5 DAYS/WEEK	No	URINAL
3	215	3-215-OPN-1	01S/SWSC	1WF1	101A	CORRIDOR		5 DAYS/WEEK	No	DRINKING FOUNTAIN
3	215	3-215-OPN-1	01S/SWSC	1WF2	101D	CORRIDOR		5 DAYS/WEEK	No	DRINKING FOUNTAIN
3	215	3-215-OPN-1	01S/SWSC	2FD1	205	RESTROOM		FLOW IS NIL	No	FLOOR DRAIN
3	215	3-215-OPN-1	01S/SWSC	2FD2	203	RESTROOM		FLOW IS NIL	No	FLOOR DRAIN
3	215	3-215-OPN-1	01S/SWSC	2LV1	205	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	215	3-215-OPN-1	01S/SWSC	2LV2	205	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	215	3-215-OPN-1	01S/SWSC	2LV3	203	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	215	3-215-OPN-1	01S/SWSC	2LV4	203	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	215	3-215-OPN-1	01S/SWSC	2LV5	203	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	215	3-215-OPN-1	01S/SWSC	2SD1	218	JANITOR'S CLOSET		5 DAYS/WEEK	No	SERVICE SINK
3	215	3-215-OPN-1	01S/SWSC	2SD2	201B	BREAK AREA		5 DAYS/WEEK	No	COUNTERTOP SINK
3	215	3-215-OPN-1	01S/SWSC	2TL1	205	RESTROOM		5 DAYS/WEEK	No	TOILET
3	215	3-215-OPN-1	01S/SWSC	2TL2	205	RESTROOM		5 DAYS/WEEK	No	TOILET
3	215	3-215-OPN-1	01S/SWSC	2TL3	203	RESTROOM		5 DAYS/WEEK	No	TOILET

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	215	3-215-OPN-1	01S/SWSC	2TL4	203	RESTROOM		5 DAYS/WEEK	No	TOILET
3	215	3-215-OPN-1	01S/SWSC	2TL5	203	RESTROOM		5 DAYS/WEEK	No	TOILET
3	215	3-215-OPN-1	01S/SWSC	2UR1	203	RESTROOM		5 DAYS/WEEK	No	URINAL
3	215	3-215-OPN-1	01S/SWSC	2UR2	203	RESTROOM		5 DAYS/WEEK	No	URINAL
3	215	3-215-OPN-1	01S/SWSC	2UR3	203	RESTROOM		5 DAYS/WEEK	No	URINAL
3	215	3-215-OPN-1	01S/SWSC	2WF1	201A	CORRIDOR		5 DAYS/WEEK	No	DRINKING FOUNTAIN
3	215	3-215-OPN-1	01S/SWSC	2WF2	201D	CORRIDOR		5 DAYS/WEEK	No	DRINKING FOUNTAIN
3	215	3-215-OPN-1	01S/SWSC	BAD1	B1	MECHANICAL ROOM		MOSTLY SUMMER	Yes	AREA STORM DRAIN
3	215	3-215-OPN-1	01S/SWSC	BFD1	B1	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE/BFP DRAINS
3	215	3-215-OPN-1	01S/SWSC	BFD2	B1	MECHANICAL ROOM		FLOW IS NIL	No	EXPANS. TANK/WATER HTR. DRAINS
3	215	3-215-OPN-1	01S/SWSC	BFD3	B1	MECHANICAL ROOM		FLOW IS NIL	No	CONDENSED WATER DRAIN
3	215	3-215-OPN-1	01S/SWSC	BFD4	B1	MECHANICAL ROOM		FLOW IS NIL	No	BACKFLOW PREVENTER DRAIN
3	215	3-215-OPN-1	01S/SWSC	BSLS1	B1	MECHANICAL ROOM		7 DAYS/WEEK	No	SEWAGE LIFT STATION
3	215	3-215-OPN-2	DAYLIGHT	1AD1	N/A	COURTYARD		MOSTLY SUMMER	Yes	AREA STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	1AD2	N/A	COURTYARD		MOSTLY SUMMER	Yes	AREA STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD01	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD02	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD03	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD04	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD05	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD06	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD07	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD08	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD09	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD10	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD11	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD12	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD13	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-2	DAYLIGHT	RD14	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-3	DAYLIGHT	N/A	B1	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE DRAIN
3	215	3-215-OPN-4	DAYLIGHT	RD05	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-4	DAYLIGHT	RD06	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	215	3-215-OPN-5	DAYLIGHT	N/A	B1	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE DRAIN

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	215	3-215-OPN-6	DAYLIGHT	2WH1	201B	BREAK AREA		FLOW IS NIL	No	WATER HEATER DRAIN
3	218	3-218-OPN-01	01S/SWSC	1LV1	102E	BATHROOM		5 DAYS/WEEK	No	LAVATORY
3	218	3-218-OPN-01	01S/SWSC	1LV2	102E	BATHROOM		5 DAYS/WEEK	No	LAVATORY
3	218	3-218-OPN-01	01S/SWSC	1SD1	102	BREAK AREA		5 DAYS/WEEK	No	COUNTERTOP SINK
3	218	3-218-OPN-01	01S/SWSC	1SD2	102D	JANITOR'S CLOSET		5 DAYS/WEEK	No	SERVICE SINK
3	218	3-218-OPN-01	01S/SWSC	1SH1	102E	BATHROOM		5 DAYS/WEEK	No	SHOWER
3	218	3-218-OPN-01	01S/SWSC	1TL1	102E	BATHROOM		5 DAYS/WEEK	No	TOILET
3	218	3-218-OPN-01	01S/SWSC	1TL2	102E	BATHROOM		5 DAYS/WEEK	No	TOILET
3	218	3-218-OPN-01	01S/SWSC	1UR1	102E	BATHROOM		5 DAYS/WEEK	No	URINAL
3	218	3-218-OPN-01	01S/SWSC	1WF1	102	CORRIDOR		5 DAYS/WEEK	No	DRINKING FOUNTAIN
3	218	3-218-OPN-02	DAYLIGHT	N/A	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	218	3-218-OPN-03	ATMOSPHERE	N/A	N/A	MECHANICAL ROOM		NO FLOW	No	VACUUM PUMP EXHAUST
3	218	3-218-OPN-04	DAYLIGHT	N/A	102	WORKROOM		FLOW IS NIL	No	EQUIP. CONDESED WATER DRAIN
3	218	3-218-OPN-05	ATMOSPHERE	N/A	102	WORKROOM		NO FLOW	No	AIR RELIEF VENT (ABANDONED)
3	218	3-218-OPN-06	DAYLIGHT	1FD01	102E	BATHROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	218	3-218-OPN-06	DAYLIGHT	1FD02	102	WORKROOM		NO FLOW	No	NONE
3	218	3-218-OPN-06	DAYLIGHT	1FD03	102	WORKROOM		NO FLOW	No	NONE
3	218	3-218-OPN-06	DAYLIGHT	1FD04	102	WORKROOM		NO FLOW	No	NONE
3	218	3-218-OPN-06	DAYLIGHT	1FD05	102	WORKROOM		NO FLOW	No	NONE
3	218	3-218-OPN-06	DAYLIGHT	1FD06	102	WORKROOM		NO FLOW	No	DRAIN HAS BEEN PLUGGED
3	218	3-218-OPN-06	DAYLIGHT	1FD07	102	WORKROOM		NO FLOW	No	NONE
3	218	3-218-OPN-06	DAYLIGHT	1FD08	102	WORKROOM		NO FLOW	No	NONE
3	218	3-218-OPN-06	DAYLIGHT	1FD09	102	WORKROOM		NO FLOW	No	NONE
3	218	3-218-OPN-06	DAYLIGHT	1FD10	102	WORKROOM		NO FLOW	No	NONE
3	218	3-218-OPN-07	ATMOSPHERE	N/A	102	WORKROOM		NO FLOW	No	EXHAUST VENT
3	218	3-218-OPN-08	ATMOSPHERE	N/A	N/A	EXTERIOR		NO FLOW	No	NAT GAS PIPE SLEEVE VENT(GSNK)
3	218	3-218-OPN-09	ATMOSPHERE	N/A	N/A	EXTERIOR		NO FLOW	No	NAT GAS PIPE SLEEVE VENT(GSNK)
3	218	3-218-OPN-10	N/A	N/A	100	MECHANICAL ROOM		NO FLOW	No	ELECTRICAL CONDUIT STUB-OUT
3	218	3-218-OPN-11	N/A	N/A	N/A	EXTERIOR		NO FLOW	No	PIPE STUB-UP (ABANDONED)
3	218	3-218-OPN-12	ATMOSPHERE	N/A	100	MECHANICAL ROOM		NO FLOW	No	SANITARY SEWER VENT
3	218	3-218-OPN-13	DAYLIGHT	N/A	102	WORKROOM		FLOW IS NIL	No	WATER HEATER DRAIN
3	218	3-218-OPN-14	N/A	N/A	N/A	EXTERIOR		NO FLOW	No	PIPE STUB-UP (ABANDONED)
3	218	3-218-OPN-15	ATMOSPHERE	N/A	102E	BATHROOM		NO FLOW	No	BATHROOM EXHAUST VENT

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES	
3	227	3-227-OPN-1	DAYLIGHT	1TD1	N/A	PIPE TRENCH			MOSTLY SUMMER	Yes	STORM DRAIN
3	228	3-228-OPN-1	N/A	1CD1	N/A	MECHANICAL ROOM			NO FLOW	No	NONE
3	228	3-228-OPN-2	DAYLIGHT	1ED1	N/A	MECHANICAL ROOM			FLOW IS NIL	No	AIR COMPRESSOR BLOWOFF (2)
3	228	3-228-OPN-2	DAYLIGHT	1ED2	N/A	MECHANICAL ROOM	686	GPD	12 MONTHS/YR.	No	COOLING TOWER BLOWDOWN (TCW)
3	253	3-253-OPN-01	01S/SWSC	1FD1	101	OFFICE			NO FLOW	No	NONE
3	253	3-253-OPN-01	01S/SWSC	1FD2	100	OFFICE			NO FLOW	No	NONE
3	253	3-253-OPN-02	UNKNOWN	N/A	100	OFFICE			NO FLOW	No	(COULD NOT VERIFY)
3	253	3-253-OPN-03	N/A	N/A	100	OFFICE			NO FLOW	No	ELECTRICAL CONDUIT (ABANDONED)
3	253	3-253-OPN-04	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM DRAIN
3	253	3-253-OPN-05	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM DRAIN
3	253	3-253-OPN-06	01S/SWSC	1FD3	100	OFFICE			NO FLOW	No	NONE (PLUGGED)
3	253	3-253-OPN-07	DAYLIGHT	1CD1	100	OFFICE			FLOW IS NIL	No	STEAM RELIEF VALVE
3	253	3-253-OPN-08	N/A	N/A	100	OFFICE			NO FLOW	No	LIQ. NITROGEN FILL STA.(ABAND)
3	253	3-253-OPN-09	ATMOSPHERE	N/A	100	OFFICE			NO FLOW	No	ROOM EXHAUSTER VENT
3	253	3-253-OPN-10	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM DRAIN
3	253	3-253-OPN-11	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM DRAIN
3	253	3-253-OPN-12	N/A	N/A	100	OFFICE			NO FLOW	No	ELECTRICAL CONDUIT (ABANDONED)
3	253	3-253-OPN-13	ATMOSPHERE	N/A	100	OFFICE			NO FLOW	No	ROOM EXHAUSTER VENT
3	253	3-253-OPN-14	N/A	N/A	100	OFFICE			NO FLOW	No	ELECTRICAL CONDUIT (ABANDONED)
3	254	TA-3-254	ND	N/A	N/A	CORRIDOR			NO FLOW	No	NO DRAINS
3	322	3-322-OPN-1	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM DRAIN
3	322	3-322-OPN-2	DAYLIGHT	N/A	N/A	FABRICATING SHOP			FLOW IS NIL	No	FIRE LINE DRAIN
3	322	3-322-OPN-3	DAYLIGHT	N/A	N/A	FABRICATING SHOP			FLOW IS NIL	No	FIRE LINE DRAIN
3	322	3-322-OPN-4	DAYLIGHT	N/A	N/A	FABRICATING SHOP			FLOW IS NIL	No	FIRE LINE DRAIN
3	322	3-322-OPN-5	N/A	N/A	N/A	FABRICATING SHOP			NO FLOW	No	COMPRESSED AIR QUICK-DISCON.
3	322	3-322-OPN-6	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM DRAIN
3	322	3-322-OPN-7	DAYLIGHT	N/A	N/A	FABRICATING SHOP			FLOW IS NIL	No	FIRE LINE DRAIN
3	322	3-322-OPN-8	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM DRAIN
3	322	3-322-OPN-9	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM DRAIN
3	406	3-406-OPN-1	01S/SWSC	1LV1	101	RESTROOM			5 DAYS/WEEK	No	LAVATORY
3	406	3-406-OPN-1	01S/SWSC	1LV2	102	RESTROOM			5 DAYS/WEEK	No	LAVATORY
3	406	3-406-OPN-1	01S/SWSC	1TL1	101	RESTROOM			5 DAYS/WEEK	No	TOILET
3	406	3-406-OPN-1	01S/SWSC	1TL2	102	RESTROOM			5 DAYS/WEEK	No	TOILET

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	406	3-406-OPN-1	01S/SWSC	1UR1	101	RESTROOM		5 DAYS/WEEK	No	URINAL
3	406	3-406-OPN-1	01S/SWSC	1WF1	100	RESTROOM		5 DAYS/WEEK	No	DRINKING FOUNTAIN
3	406	3-406-OPN-2	DAYLIGHT	N/A	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	406	3-406-OPN-3	DAYLIGHT	N/A	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	406	3-406-OPN-4	DAYLIGHT	1WH1	104	COAT CLOSET		FLOW IS NIL	No	WATER HEATER DRAIN
3	406	3-406-OPN-5	DAYLIGHT	N/A	N/A	MECHANICAL ROOM		FLOW IS NIL	No	EQUIP. CONDENSED WATER DRAIN
3	406	3-406-OPN-6	DAYLIGHT	N/A	N/A	MECHANICAL ROOM		FLOW IS NIL	No	EQUIP. CONDENSED WATER DRAIN
3	406	3-406-OPN-7	DAYLIGHT	N/A	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	406	3-406-OPN-8	DAYLIGHT	N/A	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	494	3-494-OPN-01	01S/SWSC	1ED1	100	CORRIDOR		5 DAYS/WEEK	No	EMERGENCY EYE WASH/SHOWER
3	494	3-494-OPN-01	01S/SWSC	1FD1	118	LABORATORY		FLOW IS NIL	No	FLOOR WASHINGS
3	494	3-494-OPN-01	01S/SWSC	1FD2	116	LABORATORY		FLOW IS NIL	No	FLOOR WASHINGS
3	494	3-494-OPN-01	01S/SWSC	1FD3	112A	MECHANICAL ROOM		FLOW IS NIL	No	COOLING COIL CONDENSED WATER
3	494	3-494-OPN-01	01S/SWSC	1FD4	107	LABORATORY		FLOW IS NIL	No	FLOOR WASHINGS
3	494	3-494-OPN-01	01S/SWSC	1FD5	105	LABORATORY		FLOW IS NIL	No	FLOOR WASHINGS
3	494	3-494-OPN-01	01S/SWSC	1FD6	103	LABORATORY		FLOW IS NIL	No	FLOOR WASHINGS
3	494	3-494-OPN-01	01S/SWSC	1FD7	101	LABORATORY		FLOW IS NIL	No	FLOOR WASHINGS
3	494	3-494-OPN-01	01S/SWSC	1FS1	112A	MECHANICAL ROOM		FLOW IS NIL	No	BFP/BOILER PRESS. RELIEF VALVE
3	494	3-494-OPN-01	01S/SWSC	1FS2	112A	MECHANICAL ROOM		FLOW IS NIL	No	WATER HTR/BFP/AIR COMPR. DRAIN
3	494	3-494-OPN-01	01S/SWSC	1LV1	110	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	494	3-494-OPN-01	01S/SWSC	1LV2	106	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	494	3-494-OPN-01	01S/SWSC	1SD1	112	BREAKROOM		5 DAYS/WEEK	No	COUNTERTOP SINK
3	494	3-494-OPN-01	01S/SWSC	1SD2	108	JANITOR'S CLOSET		5 DAYS/WEEK	No	SERVICE SINK
3	494	3-494-OPN-01	01S/SWSC	1SD3	102	LABORATORY		5 DAYS/WEEK	No	HAND WASHING
3	494	3-494-OPN-01	01S/SWSC	1SD4	107	LABORATORY		5 DAYS/WEEK	No	HAND WASHING
3	494	3-494-OPN-01	01S/SWSC	1SD5	107	LABORATORY		5 DAYS/WEEK	No	HAND WASHING
3	494	3-494-OPN-01	01S/SWSC	1SD6	105	LABORATORY		5 DAYS/WEEK	No	HAND WASHING
3	494	3-494-OPN-01	01S/SWSC	1SD7	103	LABORATORY		5 DAYS/WEEK	No	HAND WASHING
3	494	3-494-OPN-01	01S/SWSC	1SD8	101	LABORATORY		5 DAYS/WEEK	No	HAND WASHING
3	494	3-494-OPN-01	01S/SWSC	1TL1	110	RESTROOM		5 DAYS/WEEK	No	TOILET
3	494	3-494-OPN-01	01S/SWSC	1TL2	106	RESTROOM		5 DAYS/WEEK	No	TOILET
3	494	3-494-OPN-01	01S/SWSC	1UR1	110	RESTROOM		5 DAYS/WEEK	No	URINAL
3	494	3-494-OPN-02	ATMOSPHERE	N/A	105	LABORATORY		FLOW IS NIL	No	VACUUM PUMP EXHAUST

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	494	3-494-OPN-03	ATMOSPHERE	N/A	118	LABORATORY		FLOW IS NIL	No	VACUUM PUMP EXHAUST
3	494	3-494-OPN-04	DAYLIGHT	N/A	118	LABORATORY		FLOW IS NIL	No	FIRE LINE DRAIN
3	494	3-494-OPN-05	ATMOSPHERE	N/A	116	LABORATORY		FLOW IS NIL	No	VACUUM PUMP EXHAUST
3	494	3-494-OPN-06	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	No	EQUIP. CONDENSED WATER DRAIN
3	494	3-494-OPN-07	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	No	EQUIP. CONDENSED WATER DRAIN
3	494	3-494-OPN-08	DAYLIGHT	N/A	112A	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE DRAIN
3	494	3-494-OPN-09	DAYLIGHT	N/A	112A	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE DRAIN
3	494	3-494-OPN-10	ATMOSPHERE	N/A	112A	MECHANICAL ROOM		NO FLOW	No	PNEUMATIC CONTROL AIR RELIEF
3	494	3-494-OPN-11	DAYLIGHT	N/A	112A	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE DRAIN
3	494	3-494-OPN-12	ATMOSPHERE	N/A	101	LABORATORY		NO FLOW	No	ANALYZER FURNACE EXHAUST VENT
3	502	3-502-OPN-1	01S/SWSC	1ED1	100B	CORRIDOR		5 DAYS/WEEK	No	EMERGENCY EYE WASH/SHOWER
3	502	3-502-OPN-1	01S/SWSC	1FD1	N107A	RESTROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	502	3-502-OPN-1	01S/SWSC	1FD2	N103A	RESTROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	502	3-502-OPN-1	01S/SWSC	1FS1	E123	MECHANICAL ROOM		FLOW IS NIL	No	AIR COMPRESSOR BLOWOFF
3	502	3-502-OPN-1	01S/SWSC	1FS2	E123A	MECHANICAL ROOM		FLOW IS NIL	No	HUMIDIFIER/STRAINER DRAINS
3	502	3-502-OPN-1	01S/SWSC	1FS3	E123	MECHANICAL ROOM		FLOW IS NIL	No	BOILER PRESS. RELIEF VALVE
3	502	3-502-OPN-1	01S/SWSC	1FS4	E123	MECHANICAL ROOM		FLOW IS NIL	No	BACKFLOW PREVENTER DRAIN
3	502	3-502-OPN-1	01S/SWSC	1FS5	E123	MECHANICAL ROOM		FLOW IS NIL	No	HEAT EXCHANGER DRAIN
3	502	3-502-OPN-1	01S/SWSC	1LV1	N107A	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	502	3-502-OPN-1	01S/SWSC	1LV2	N107A	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	502	3-502-OPN-1	01S/SWSC	1LV3	N103A	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	502	3-502-OPN-1	01S/SWSC	1LV4	N103A	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	502	3-502-OPN-1	01S/SWSC	1SD1	E114	LABORATORY		5 DAYS/WEEK	No	HAND WASHING
3	502	3-502-OPN-1	01S/SWSC	1SD2	E116	LABORATORY		5 DAYS/WEEK	No	HAND WASHING
3	502	3-502-OPN-1	01S/SWSC	1SD3	N111A	LABORATORY		5 DAYS/WEEK	No	HAND WASHING
3	502	3-502-OPN-1	01S/SWSC	1SD4	SSK-1	JANITOR'S CLOSET		5 DAYS/WEEK	No	SERVICE SINK
3	502	3-502-OPN-1	01S/SWSC	1SD5	N101	BREAKROOM		5 DAYS/WEEK	No	COUNTERTOP SINK
3	502	3-502-OPN-1	01S/SWSC	1TL1	N107A	RESTROOM		5 DAYS/WEEK	No	TOILET
3	502	3-502-OPN-1	01S/SWSC	1TL1	N107A	RESTROOM		5 DAYS/WEEK	No	TOILET
3	502	3-502-OPN-1	01S/SWSC	1TL2	N107A	RESTROOM		5 DAYS/WEEK	No	TOILET
3	502	3-502-OPN-1	01S/SWSC	1TL2	N107A	RESTROOM		5 DAYS/WEEK	No	TOILET
3	502	3-502-OPN-1	01S/SWSC	1TL3	N103A	RESTROOM		5 DAYS/WEEK	No	TOILET
3	502	3-502-OPN-1	01S/SWSC	1TL3	N103A	RESTROOM		5 DAYS/WEEK	No	TOILET

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	502	3-502-OPN-1	01S/SWSC	1TL4	N103A	RESTROOM		5 DAYS/WEEK	No	TOILET
3	502	3-502-OPN-1	01S/SWSC	1TL4	N103A	RESTROOM		5 DAYS/WEEK	No	TOILET
3	502	3-502-OPN-1	01S/SWSC	1UR1	N103A	RESTROOM		5 DAYS/WEEK	No	URINAL
3	502	3-502-OPN-1	01S/SWSC	1UR2	N103A	RESTROOM		5 DAYS/WEEK	No	URINAL
3	502	3-502-OPN-1	01S/SWSC	1WF1	100A	CORRIDOR		5 DAYS/WEEK	No	DRINKING FOUNTAIN
3	502	3-502-OPN-1	01S/SWSC	2FD1	N207	BATHROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	502	3-502-OPN-1	01S/SWSC	2FD2	N203	BATHROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	502	3-502-OPN-1	01S/SWSC	2FS1	E208	MECHANICAL ROOM		FLOW IS NIL	No	HUMIDIFIER/STRAINER DRAINS
3	502	3-502-OPN-1	01S/SWSC	2FS2	N/A	ROOF		FLOW IS NIL	No	EQUIP. CONDENSED WATER DRAIN
3	502	3-502-OPN-1	01S/SWSC	2LV1	N207	BATHROOM		5 DAYS/WEEK	No	LAVATORY
3	502	3-502-OPN-1	01S/SWSC	2LV2	N207	BATHROOM		5 DAYS/WEEK	No	LAVATORY
3	502	3-502-OPN-1	01S/SWSC	2LV3	N203	BATHROOM		5 DAYS/WEEK	No	LAVATORY
3	502	3-502-OPN-1	01S/SWSC	2LV4	N203	BATHROOM		5 DAYS/WEEK	No	LAVATORY
3	502	3-502-OPN-1	01S/SWSC	2SD1	N202	JANITOR'S CLOSET		5 DAYS/WEEK	No	SERVICE SINK
3	502	3-502-OPN-1	01S/SWSC	2SH1	N207	BATHROOM		5 DAYS/WEEK	No	SHOWER
3	502	3-502-OPN-1	01S/SWSC	2SH2	N203	BATHROOM		5 DAYS/WEEK	No	SHOWER
3	502	3-502-OPN-1	01S/SWSC	2TL1	N207	BATHROOM		5 DAYS/WEEK	No	TOILET
3	502	3-502-OPN-1	01S/SWSC	2TL2	N207	BATHROOM		5 DAYS/WEEK	No	TOILET
3	502	3-502-OPN-1	01S/SWSC	2TL3	N203	BATHROOM		5 DAYS/WEEK	No	TOILET
3	502	3-502-OPN-1	01S/SWSC	2TL4	N203	BATHROOM		5 DAYS/WEEK	No	TOILET
3	502	3-502-OPN-1	01S/SWSC	2TL5	N203	BATHROOM		5 DAYS/WEEK	No	TOILET
3	502	3-502-OPN-1	01S/SWSC	2UR1	N203	BATHROOM		5 DAYS/WEEK	No	URINAL
3	502	3-502-OPN-1	01S/SWSC	2UR2	N203	BATHROOM		5 DAYS/WEEK	No	URINAL
3	502	3-502-OPN-1	01S/SWSC	2WF1	200A	CORRIDOR		5 DAYS/WEEK	No	DRINKING FOUNTAIN
3	502	3-502-OPN-2	DAYLIGHT	OD1	N/A	ROOF		MOSTLY SUMMER	Yes	STORM OVERFLOW DRAIN
3	502	3-502-OPN-2	DAYLIGHT	OD2	N/A	ROOF		MOSTLY SUMMER	Yes	STORM OVERFLOW DRAIN
3	502	3-502-OPN-2	DAYLIGHT	OD3	N/A	ROOF		MOSTLY SUMMER	Yes	STORM OVERFLOW DRAIN
3	502	3-502-OPN-2	DAYLIGHT	OD4	N/A	ROOF		MOSTLY SUMMER	Yes	STORM OVERFLOW DRAIN
3	502	3-502-OPN-2	DAYLIGHT	OD5	N/A	ROOF		MOSTLY SUMMER	Yes	STORM OVERFLOW DRAIN
3	502	3-502-OPN-2	DAYLIGHT	OD6	N/A	ROOF		MOSTLY SUMMER	Yes	STORM OVERFLOW DRAIN
3	502	3-502-OPN-2	DAYLIGHT	OD7	N/A	ROOF		MOSTLY SUMMER	Yes	STORM OVERFLOW DRAIN
3	502	3-502-OPN-2	DAYLIGHT	RD1	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	502	3-502-OPN-2	DAYLIGHT	RD2	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN

REPORT # 44

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	502	3-502-OPN-2	DAYLIGHT	RD3	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	502	3-502-OPN-2	DAYLIGHT	RD4	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	502	3-502-OPN-2	DAYLIGHT	RD5	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	502	3-502-OPN-2	DAYLIGHT	RD6	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	502	3-502-OPN-2	DAYLIGHT	RD7	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	502	3-502-OPN-2	DAYLIGHT	RD8	N/A	ROOF		MOSTLY SUMMER	Yes	STORM DRAIN
3	502	3-502-OPN-3	DAYLIGHT	N/A	E123	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE DRAIN
3	502	3-502-OPN-4	DAYLIGHT	N/A	E123	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE DRAIN
3	1506	3-1506-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	COOLING UNIT CONDENSED WATER
3	1507	3-1507-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	COOLING UNIT CONDENSED WATER
3	1507	3-1507-OPN-2	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	COOLING UNIT CONDENSED WATER
3	1507	3-1507-OPN-3	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	COOLING UNIT CONDENSED WATER
3	1516	3-1516-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	COOLING UNIT CONDENSED WATER
3	1516	3-1516-OPN-2	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	COOLING UNIT CONDENSED WATER
3	1519	3-1519-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	COOLING UNIT CONDENSED WATER
3	1596	3-1596-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	COOLING UNIT CONDENSED WATER
3	1702	3-1702-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	COOLING UNIT CONDENSED WATER
3	1736	3-1736-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	COOLING UNIT CONDENSED WATER
3	1736	3-1736-OPN-2	NONE	1LV1	101	RESTROOM		NO FLOW	No	NONE
3	1736	3-1736-OPN-2	NONE	1TL1	101	RESTROOM		NO FLOW	No	NONE
3	1737	3-1737-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	COOLING UNIT CONDENSED WATER
3	1737	3-1737-OPN-2	NONE	1LV1	101	RESTROOM		NO FLOW	No	NONE
3	1737	3-1737-OPN-2	NONE	1TL1	101	RESTROOM		NO FLOW	No	NONE
3	1738	3-1738-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	COOLING UNIT CONDENSED WATER
3	1738	3-1738-OPN-2	NONE	1LV1	101	RESTROOM		NO FLOW	No	NONE
3	1738	3-1738-OPN-2	NONE	1TL1	101	RESTROOM		NO FLOW	No	NONE
3	1868	TA-3-1868	ND	N/A	N/A	TRANSPORTAINER		NO FLOW	No	NONE
3	1887	3-1887-OPN-1	O1S/SWSC	1LV1	117	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	1887	3-1887-OPN-1	O1S/SWSC	1LV2	113	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	1887	3-1887-OPN-1	O1S/SWSC	1SD1	115	JANITOR'S CLOSET		5 DAYS/WEEK	No	SERVICE SINK
3	1887	3-1887-OPN-1	O1S/SWSC	1SD2	100	CORRIDOR		5 DAYS/WEEK	No	COUNTERTOP SINK
3	1887	3-1887-OPN-1	O1S/SWSC	1TL1	117	RESTROOM		5 DAYS/WEEK	No	TOILET
3	1887	3-1887-OPN-1	O1S/SWSC	1TL2	113	RESTROOM		5 DAYS/WEEK	No	TOILET

REPORT # 44

TA	BLDG	OUTLET	EPA	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
		PIPING NO	OUTFALL #							
3	1887	3-1887-OPN-1	01S/SWSC	1UR1	113	RESTROOM		5 DAYS/WEEK	No	URINAL
3	1887	3-1887-OPN-1	01S/SWSC	1WF1	100	CORRIDOR		5 DAYS/WEEK	No	DRINKING FOUNTAIN
3	1887	3-1887-OPN-2	DAYLIGHT	1WH1	118	WATER HEATER CLOSET		FLOW IS NIL	No	WATER HEATER DRAIN
3	1887	3-1887-OPN-3	DAYLIGHT	N/A	N/A	ROOF		6 MONTHS/YR.	Yes	EQUIP. CONDENSED WATER DRAIN
3	1887	3-1887-OPN-4	DAYLIGHT	N/A	N/A	ROOF		6 MONTHS/YR.	Yes	EQUIP. CONDENSED WATER DRAIN
3	1887	3-1887-OPN-5	DAYLIGHT	N/A	N/A	OFFICE		NO FLOW	No	PIPE STUB-OUT (ABANDONED)
3	1888	3-1888-OPN-1	01S/SWSC	1LV1	120	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	1888	3-1888-OPN-1	01S/SWSC	1LV2	114	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	1888	3-1888-OPN-1	01S/SWSC	1SD1	100	CORRIDOR		5 DAYS/WEEK	No	COUNTERTOP SINK
3	1888	3-1888-OPN-1	01S/SWSC	1SD2	116	JANITOR'S CLOSET		5 DAYS/WEEK	No	SERVICE SINK
3	1888	3-1888-OPN-1	01S/SWSC	1SD3	N/A	WORKROOM		5 DAYS/WEEK	No	HAND WASHING
3	1888	3-1888-OPN-1	01S/SWSC	1TL1	120	RESTROOM		5 DAYS/WEEK	No	TOILET
3	1888	3-1888-OPN-1	01S/SWSC	1TL2	114	RESTROOM		5 DAYS/WEEK	No	TOILET
3	1888	3-1888-OPN-1	01S/SWSC	1WF1	100	CORRIDOR		5 DAYS/WEEK	No	DRINKING FOUNTAIN
3	1888	3-1888-OPN-2	DAYLIGHT	1WH1	118	WATER HEATER CLOSET		FLOW IS NIL	No	WATER HEATER DRAIN
3	1888	3-1888-OPN-3	DAYLIGHT	N/A	N/A	ROOF		6 MONTHS/YR.	Yes	EQUIP. CONDENSED WATER DRAIN
3	1888	3-1888-OPN-4	DAYLIGHT	N/A	N/A	ROOF		6 MONTHS/YR.	Yes	EQUIP. CONDENSED WATER DRAIN
3	1903	3-1903-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		6 MONTHS/YR.	Yes	EQUIP. CONDENSED WATER DRAIN
3	1903	3-1903-OPN-2	NONE	1LV1	101	RESTROOM		NO FLOW	No	NONE
3	1903	3-1903-OPN-2	NONE	1TL1	101	RESTROOM		NO FLOW	No	NONE
3	1912	3-1912-OPN-1	01S/SWSC	1LV1	107	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	1912	3-1912-OPN-1	01S/SWSC	1LV2	105	RESTROOM		5 DAYS/WEEK	No	LAVATORY
3	1912	3-1912-OPN-1	01S/SWSC	1SD1	100	CORRIDOR		5 DAYS/WEEK	No	COUNTERTOP SINK
3	1912	3-1912-OPN-1	01S/SWSC	1SD2	103	JANITOR'S CLOSET		5 DAYS/WEEK	No	SERVICE SINK
3	1912	3-1912-OPN-1	01S/SWSC	1TL1	107	RESTROOM		5 DAYS/WEEK	No	TOILET
3	1912	3-1912-OPN-1	01S/SWSC	1TL2	105	RESTROOM		5 DAYS/WEEK	No	TOILET
3	1912	3-1912-OPN-2	DAYLIGHT	1WH1	106	WATER HEATER CLOSET		FLOW IS NIL	No	WATER HEATER DRAIN
3	1912	3-1912-OPN-3	DAYLIGHT	N/A	ROOF	CONDENS. WATER		FLOW IS NIL	No	EQUIP. CONDENSED WATER DRAIN
3	1933	TA-3-1933	ND	N/A	N/A	TRANSPORTAINER		NO FLOW	No	NONE
3	1950	TA-3-1950	ND	N/A	N/A	TRANSPORTAINER		NO FLOW	No	NONE
3	1986	TA-3-1986	ND	N/A	N/A	STORAGE SHED		NO FLOW	No	NONE
3	2028	TA-3-2028	ND	N/A	N/A	TRANSPORTAINER		NO FLOW	No	NONE
3	2043	TA-3-2043	ND	N/A	N/A	SEMI-TRAILER		NO FLOW	No	NONE

REPORT # 44

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	2133	TA-3-2133	ND	N/A	N/A	TRANSPORTAINER		NO FLOW	No	NONE
3	2139	TA-3-2139	ND	N/A	N/A	TRANSPORTAINER		NO FLOW	No	NONE



B. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item III-A. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

C. Except for storm runoff, leaks, or spills, will any of the discharges described in item III-A be intermittent or seasonal?

Yes (complete the following table)       No (go to item IV)

Outfall Number	1. Frequency		2. Flow		c. Duration (in days)
	a. Days Per Week (specify average)	b. Months Per Year (specify average)	a. Maximum Daily Flow Rate (in mgd)	b. Maximum Total Volume (specify with units)	
3-218-OPN-6	5	12	.000005	5 GPD	260

**IV. Production**

If there is an applicable production-based effluent guideline or NSPS, for each outfall list the estimated level of production (projection of actual production level, not design), expressed in the terms and units used in the applicable effluent guideline or NSPS, for each of the first 3 years of operation. If production is likely to vary, you may also submit alternative estimates (attach a separate sheet).

Year	a. Quantity Per Day	b. Units of Measure	c. Operation, Product, Material, etc (specify)
			N/A



C. Use the space below to list any of the pollutants listed in Table 2D-3 of the instructions which you know or have reason to believe will be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it will be present.

1. Pollutant	2. Reason for Discharge
N/A	

**VI. Engineering Report on Wastewater Treatment**

A. If there is any technical evaluation concerning your wastewater treatment, including engineering reports or pilot plant studies, check the appropriate box below.

Report Available

No Report

Waste Stream Characterization Report #44

B. Provide the name and location of any existing plant(s) which, to the best of your knowledge, resembles this production facility with respect to production processes, wastewater constituents, or wastewater treatments.

Name	Location
N/A	

**VII. Other Information (Optional)**

Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information you feel should be considered in establishing permit limitations for the proposed facility. Attach additional sheets if necessary.

See attached 04A datasheets and line drawing. Floor drain discharges are consistent with industrial water.

**VIII. Certification**

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

**A. Name and Official Title (type or print)**

JERRY L. BELLOWES, AREA MANAGER, DOE  
ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS

**B. Phone No.**

505-667-5105  
505-667-9390

**C. Signature**

**D. Date Signed**

FLOOR DRAINS (10)  
(FLOOR WASHINGS)



OUTFALL DISCHARGES TO  
THE STORM SEWER WHICH  
DISCHARGES INTO"  
'TWO MILE CANYON'  
(INTERMITTENT FLOW)

OUTFALL 3-218-OPN-6 DISCHARGE

Data from worst case composite.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

NM0890010515

Form Approved.  
OMB No. 2040-0086  
Approval expires 7-31-88

OUTFALL NO.  
04A

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						d. NO. OF ANALYSES	3. UNITS (specify if blank)		4. INTAKE (optional)		b. NO. OF ANALYSES
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	< 2.0	< 37.9						mg/l	g/d			
b. Chemical Oxygen Demand (COD)	< 10.0	< 0.2						mg/l	g/d			
c. Total Organic Carbon (TOC)	0.6	11.2						mg/l	g/d			
d. Total Suspended Solids (TSS)	18.0	0.3						mg/l	g/d			
e. Ammonia (as N)	< 0.1	< 1.893						mg/l	g/d			
f. Flow	VALUE 5		VALUE		VALUE			gal/day		VALUE		
g. Temperature (winter)	VALUE 13.9		VALUE		VALUE			°C		VALUE		
h. Temperature (summer)	VALUE N/A		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 8.45	MAXIMUM 8.80	MINIMUM	MAXIMUM	X			STANDARD UNITS		X		

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)		b. NO. OF ANALYSES	
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION		(2) MASS
a. Bromide (24959-67-9)			< 0.5	< 9.5						mg/l	g/d			
b. Chlorine, Total Residual	X		0.05	0.0						mg/l	mg/d			
c. Color	X		7.0							units				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		0.21	4.0						mg/l	g/d			
f. Nitrate-Nitrite (as N)	X		0.304	5.8						mg/l	g/d			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	b. MAXIMUM DAILY VALUE		d. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	b. CONCENTRATION	b. MASS	e. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)		X	< 0.5	< 9.5						mg/l	mg/d			
h. Oil and Grease		X	< 1.05	< 19.9						mg/l	mg/d			
i. Phosphorus (as P), Total (7723-14-0)	X		0.05	0.9						mg/l	mg/d			
j. Radioactivity														
(1) Alpha, Total	X		0.1	1.9						pCi/l	pCi/d			
(2) Beta, Total	X		6.6	0.1						pCi/l	nCi/d			
(3) Radium, Total	X													
(4) Radium 226, Total	X		0.06	1.1						pCi/l	pCi/d			
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)	X		3.16	59.8						mg/l	mg/d			
l. Sulfide (as S)		X		0.0						mg/l	mg/d			
m. Sulfite (as SO <sub>3</sub> ) (14266-46-3)		X	< 0.05	< 0.9						mg/l	mg/d			
n. Surfactants		X	< 0.1	< 1.9						mg/l	mg/d			
o. Aluminum, Total (7429-90-6)		X	< 0.04	< 0.8						mg/l	mg/d			
p. Barium, Total (7440-39-3)	X		0.03	0.6						mg/l	mg/d			
q. Boron, Total (7440-42-8)	X		0.02	0.4						mg/l	mg/d			
r. Cobalt, Total (7440-48-4)		X	< 0.1	< 1.9						mg/l	mg/d			
s. Iron, Total (7439-89-6)	X		0.41	7.8						mg/l	mg/d			
t. Magnesium, Total (7439-96-4)	X		2.5	47.3						mg/l	mg/d			
u. Molybdenum, Total (7439-96-7)		X	< 0.02	< 0.4						mg/l	mg/d			
v. Manganese, Total (7439-96-5)	X		0.01	0.2						mg/l	mg/d			
w. Tin, Total (7440-31-6)		X	< 0.050	< 0.9						mg/l	mg/d			
x. Titanium, Total (7440-32-6)		X	< 0.004	< 0.1						mg/l	mg/d			

NM0890010515

04A

Form Approved.  
OMB No. 2040-0086  
Approval expires 7-31-88

CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C** - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	e. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-36-0)			X	< 0.050	< 0.9						mg/l	mg/d			
2M. Arsenic, Total (7440-38-2)		X		0.002	0.0						mg/l	mg/d			
3M. Beryllium, Total, 7440-41-7)			X	< 0.001	< 0.0						mg/l	mg/d			
4M. Cadmium, Total (7440-43-9)			X	< 0.010	< 0.2						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		0.040	0.8						mg/l	mg/d			
6M. Copper, Total (7440-50-8)		X		0.031	0.6						mg/l	mg/d			
7M. Lead, Total (7439-92-1)			X	< 0.050	< 0.9						mg/l	mg/d			
8M. Mercury, Total (7439-97-6)			X	< 0.0002	< 0.00						mg/l	mg/d			
9M. Nickel, Total (7440-02-0)		X		0.06	1.1						mg/l	mg/d			
10M. Selenium, Total (7782-49-2)			X	< 0.001	< 0.0						mg/l	mg/d			
11M. Silver, Total (7440-22-4)			X	< 0.010	< 0.2						mg/l	mg/d			
12M. Thallium, Total (7440-28-0)			X	< 0.4	< 7.6						mg/l	mg/d			
13M. Zinc, Total (7440-68-6)		X		0.043	0.8						mg/l	mg/d			
14M. Cyanide, Total (57-12-8)			X	0.01	0.2						mg/l	mg/d			
15M. Phenols, Total			X	< 0.01	< 0.2						mg/l	mg/d			
<b>DIOXIN</b>															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1784-01-6)			X	DESCRIBE RESULTS											

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TEST INC. RE-QUIRE	b. BE-LIEVED PRE-SENT	c. BE-LIEVED SE-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL-YSES	a. CONCENTRATION	b. MASS	e. LONG TERM AVERAGE VALUE		d. NO. OF ANAL-YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - VOLATILE COMPOUNDS</b>															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X	< 0.005	< 0.1						mg/l	mg/d			
4V. Bis (Chloro-methyl) Ether (542-88-1)			X												
5V. Bromoform (75-26-2)			X	< 0.005	< 0.1						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< 0.005	< 0.1						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< 0.005	< 0.1						mg/l	mg/d			
8V. Chloro-dibromomethane (124-48-1)			X	< 0.005	< 0.1						mg/l	mg/d			
9V. Chloroethane (75-00-3)			X	< 0.010	< 0.000						mg/l	mg/d			
10V. 2-Chloro-ethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X	< 0.005	< 0.1						mg/l	mg/d			
12V. Dichloro-bromomethane (75-27-4)			X	< 0.005	< 0.1						mg/l	mg/d			
13V. Dichloro-difluoromethane (75-71-8)			X												
14V. 1,1-Dichloro-ethane (75-34-3)			X	< 0.005	< 0.1						mg/l	mg/d			
15V. 1,2-Dichloro-ethane (107-06-2)			X	< 0.005	< 0.1						mg/l	mg/d			
16V. 1,1-Dichloro-ethylene (75-35-4)			X	< 0.005	< 0.1						mg/l	mg/d			
17V. 1,2-Dichloro-propane (78-87-5)			X	< 0.005	< 0.1						mg/l	kg/d			
18V. 1,3-Dichloro-propylene (542-75-6)			X	<	< 0.0						mg/l	mg/d			
19V. Ethylbenzene (100-41-4)			X	< 0.005	< 0.1						mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< 0.010	< 0.2						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED EXCEEDS	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (If available)		c. LONG TERM AVG. VALUE (If available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION -- VOLATILE COMPOUNDS (continued)</b>															
22V. Methylene Chloride (75-09-2)			X	< 0.005	< 0.1						mg/l	mg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< 0.005	< 0.1						mg/l	mg/d			
24V. Tetrachloroethylene (127-18-4)			X	< 0.005	< 0.1						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< 0.005	< 0.1						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	< 0.005	< 0.1						mg/l	mg/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	< 0.005	< 0.1						mg/l	mg/d			
28V. 1,1,2-Trichloroethane (79-00-6)			X	< 0.005	< 0.1						mg/l	mg/d			
29V. Trichloroethylene (79-01-6)			X	< 0.005	< 0.1						mg/l	mg/d			
30V. Trichlorofluoromethane (75-69-4)			X	< 0.005	< 0.1						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< 0.010	< 0.2						mg/l	mg/d			
<b>GC/MS FRACTION -- ACID COMPOUNDS</b>															
1A. 2-Chlorophenol (95-57-8)			X	< 0.010	< 0.2						mg/l	mg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< 0.010	< 0.2						mg/l	mg/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	< 0.010	< 0.2						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (834-52-1)			X	< 0.010	< 0.2						mg/l	mg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< 0.010	< 0.2						mg/l	mg/d			
6A. 2-Nitrophenol (88-75-5)			X	< 0.010	< 0.2						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< 0.010	< 0.2						mg/l	mg/d			
8A. p-Chloro-M-Cresol (89-50-7)			X	< 0.010	< 0.2						mg/l	mg/d			
9A. Pentachlorophenol (87-86-5)			X	< 0.010	< 0.2						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< 0.010	< 0.2						mg/l	mg/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING EQUIP.	B. DE-LEVEL PRESENT	C. BE-LEVEL ASSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVER. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	e. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS</b>															
18. Acenaphthene (83-32-9)			X	< 0.010	< 0.2						mg/l	mg/d			
28. Acenaphthylene (208-96-6)			X	< 0.010	< 0.2						mg/l	mg/d			
38. Anthracene (120-12-7)			X	< 0.010	< 0.2						mg/l	mg/d			
48. Benzidine (92-87-5)			X	< 0.010	< 0.2						mg/l	mg/d			
58. Benzo (a) Anthracene (56-55-3)			X	< 0.010	< 0.2						mg/l	mg/d			
68. Benzo (a) Pyrene (50-32-8)			X	< 0.010	< 0.2						mg/l	mg/d			
78. 3,4-Benzo-fluoranthene (208-99-2)			X	< 0.010	< 0.2						mg/l	mg/d			
88. Benzo (ghi) Perylene (191-24-2)			X	< 0.010	< 0.2						mg/l	mg/d			
98. Benzo (k) Fluoranthene (207-08-9)			X	< 0.010	< 0.2						mg/l	mg/d			
108. Bis (2-Chloroethoxy) Methane (111-91-1)			X	< 0.010	< 0.2						mg/l	mg/d			
118. Bis (2-Chloroethyl) Ether (111-44-4)			X	< 0.010	< 0.2						mg/l	mg/d			
128. Bis (2-Chloropropyl) Ether (102-60-1)			X	< 0.010	< 0.2						mg/l	mg/d			
138. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X	< 0.010	< 0.2						mg/l	mg/d			
148. 4-Bromophenyl Phenyl Ether (101-55-3)			X	< 0.010	< 0.2						mg/l	mg/d			
158. Butyl Benzyl Phthalate (85-66-7)			X	< 0.010	< 0.2						mg/l	mg/d			
168. 2-Chloronaphthalene (91-58-7)			X	< 0.010	< 0.2						mg/l	mg/d			
178. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X	< 0.010	< 0.2						mg/l	mg/d			
188. Chrysene (218-01-9)			X	< 0.010	< 0.2						mg/l	mg/d			
198. Dibenzo (a,h) Anthracene (53-70-3)			X	< 0.010	< 0.2						mg/l	mg/d			
208. 1,2-Dichlorobenzene (95-50-1)			X	< 0.010	< 0.2						mg/l	mg/d			
218. 1,3-Dichlorobenzene (541-73-1)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TEST NO. RE-QUIN-ED	B. DE-CLINED PRE-SENT	C. ES-PEL-LENT AB-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANAL-YSES	e. CONCENTRATION	f. MASS	g. LONG TERM AVERAGE VALUE		h. NO. OF ANAL-YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)</b>															
22B. 1,4-Dichlorobenzene (106-46-7)			X	< 0.010	< 0.2						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< 0.010	< 0.2						mg/l	mg/d			
24B. Diethyl Phthalate (84-86-2)			X	< 0.010	< 0.2						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< 0.010	< 0.2						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< 0.010	< 0.2						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< 0.010	< 0.2						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (806-20-2)			X	< 0.010	< 0.2						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< 0.010	< 0.2						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X	< 0.010	< 0.2						mg/l	mg/d			
31B. Fluoranthene (206-44-0)			X	< 0.010	< 0.2						mg/l	mg/d			
32B. Fluorene (86-73-7)			X	< 0.010	< 0.2						mg/l	mg/d			
33B. Hexachlorobenzene (118-74-1)			X	< 0.010	< 0.2						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< 0.010	< 0.2						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< 0.010	< 0.2						mg/l	mg/d			
36B. Hexachloroethane (67-72-1)			X	< 0.010	< 0.2						mg/l	mg/d			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	< 0.010	< 0.2						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< 0.010	< 0.2						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< 0.010	< 0.2						mg/l	mg/d			
40B. Nitrobenzene (98-96-3)			X	< 0.010	< 0.2						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< 0.010	< 0.2						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (821-84-7)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	A. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< 0.010	< 1.9						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< 0.010	< 1.9						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< 0.010	< 1.9						mg/l	mg/d			
46B. 1,2,4-Trichlorobenzene (120-82-1)			X	< 0.010	< 1.9						mg/l	mg/d			
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X	< 0.06	< 11.4						ug/l	ug/d			
2P. $\alpha$ -BHC (319-84-6)			X	< 0.02	< 3.8						ug/l	ug/d			
3P. $\beta$ -BHC (319-86-7)			X	< 0.1	< 18.9						ug/l	ug/d			
4P. $\gamma$ -BHC (68-89-8)			X	< 0.03	< 5.7						ug/l	ug/d			
5P. $\delta$ -BHC (319-86-8)			X	< 0.12	< 22.7						ug/l	ug/d			
6P. Chlordane (57-74-9)			X	< 0.25	< 47.3						ug/l	ug/d			
7P. 4,4'-DDT (50-29-3)			X	< 0.06	< 11.4						ug/l	ug/d			
8P. 4,4'-DDE (72-65-9)			X	< 0.08	< 15.1						ug/l	ug/d			
9P. 4,4'-DDD (72-64-8)			X	< 0.08	< 15.1						ug/l	ug/d			
10P. Dieldrin (60-57-1)			X	< 0.08	< 15.1						ug/l	ug/d			
11P. $\alpha$ -Endosulfan (115-29-7)			X	< 0.05	< 9.5						ug/l	ug/d			
12P. $\beta$ -Endosulfan (115-29-7)			X	< 0.08	< 15.1						ug/l	ug/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< 0.09	< 17.0						ug/l	ug/d			
14P. Endrin (72-20-8)			X	< 0.06	< 11.4						ug/l	ug/d			
15P. Endrin Aldehyde (7421-93-4)			X	< 0.62	< 0.1						ug/l	ug/d			
16P. Heptachlor (76-44-8)			X	< 0.3	< 56.8						ug/l	ug/d			

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1) **NM0890010515**      OUTFALL NUMBER **04A**

Form Approved.  
OMB No. 2040-0086  
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING RE-QUIRED	B. DE- LIEVED PRE- SENT	C. DE- LIEVED AB- SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL- YSES	e. CONCEN- TRATION	f. MASS	g. LONG TERM AVERAGE VALUE		h. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - PESTICIDES (continued)</b>															
17P. Heptachlor Epoxide (1024-57-3)			X	< 0.04	< 7.6						ug/l	ug/d			
18P. PCB-1242 (53469-21-9)			X	< 0.68	< 0.1						ug/l	ug/d			
19P. PCB-1254 (11097-69-1)			X	< 0.68	< 0.1						ug/l	ug/d			
20P. PCB-1221 (11104-28-2)			X	N.D.											
21P. PCB-1232 (11141-16-5)			X	N.D.											
22P. PCB-1248 (12672-29-6)			X	N.D.											
23P. PCB-1260 (11098-82-5)			X	< 0.68	< 0.1						ug/l	ug/d			
24P. PCB-1016 (12674-11-2)			X	N.D.											
25P. Toxaphene (8001-35-2)			X	< 2.5	< 0.5						ug/l	mg/d			



B. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item III-A. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

C. Except for storm runoff, leaks, or spills, will any of the discharges described in item III-A be intermittent or seasonal?

Yes (complete the following table)       No (go to item IV)

Outfall Number	1. Frequency		2. Flow		
	a. Days Per Week (specify average)	b. Months Per Year (specify average)	a. Maximum Daily Flow Rate (in mgd)	b. Maximum Total Volume (specify with units)	c. Duration (in days)
3-228-OPN-2	5	12	.000690	690 GPD	260

**IV. Production**

If there is an applicable production-based effluent guideline or NSPS, for each outfall list the estimated level of production (projection of actual production level, not design), expressed in the terms and units used in the applicable effluent guideline or NSPS, for each of the first 3 years of operation. If production is likely to vary, you may also submit alternative estimates (attach a separate sheet).

Year	a. Quantity Per Day	b. Units of Measure	c. Operation, Product, Material, etc (specify)
			N/A



C. Use the space below to list any of the pollutants listed in Table 2D-3 of the instructions which you know or have reason to believe will be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it will be present.

1. Pollutant	2. Reason for Discharge
N/A	

**VI. Engineering Report on Wastewater Treatment**

A. If there is any technical evaluation concerning your wastewater treatment, including engineering reports or pilot plant studies, check the appropriate box below.

Report Available

No Report

Waste Stream Characterization Report #44

B. Provide the name and location of any existing plant(s) which, to the best of your knowledge, resembles this production facility with respect to production processes, wastewater constituents, or wastewater treatments.

Name	Location
N/A	

**VII. Other Information (Optional)**

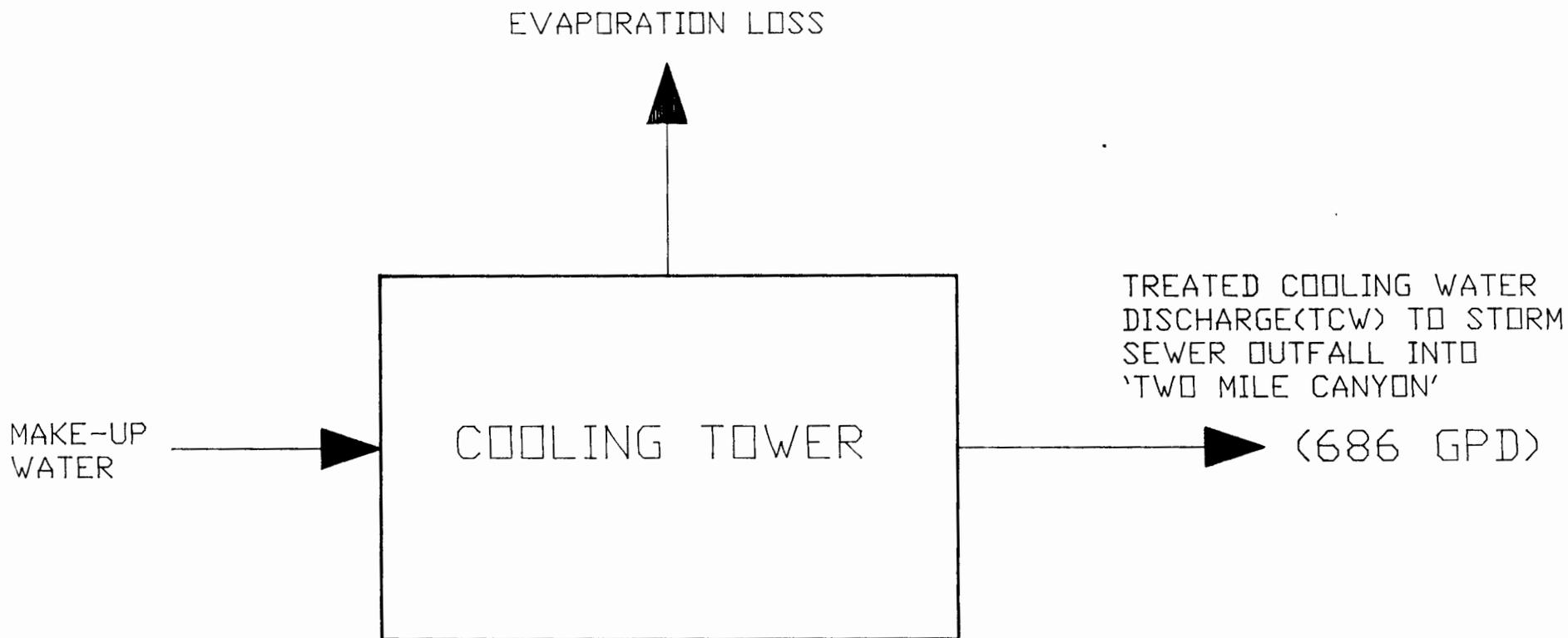
Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information you feel should be considered in establishing permit limitations for the proposed facility. Attach additional sheets if necessary.

See attached 03A datasheets and line drawing.

**VIII. Certification**

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

<b>A. Name and Official Title (type or print)</b> JERRY L. BELLOWS, AREA MANAGER, DOE ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS	<b>B. Phone No.</b> 505-667-5105 505-667-9390
<b>C. Signature</b>	<b>D. Date Signed</b>



TA-3-228  
COOLING WATER DISCHARGE

Data from worst case composite.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
**NM0890010515**

Form Approved  
 OMB No. 2040-0086  
 Approval expires 7-31-88

**V. INTAKE AND EFFLUENT CHARACTERISTICS** (continued from page 3 of Form 2-C) OUTFALL NO. **03A**

**PART A -** You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

I. POLLUTANT	2. EFFLUENT						d. NO. OF ANALYSES	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	2.0	5.2						mg/l	g/d			
b. Chemical Oxygen Demand (COD)	42.0	109.7						mg/l	g/d			
c. Total Organic Carbon (TOC)	7.4	19.3						mg/l	g/d			
d. Total Suspended Solids (TSS)	7.0	18.3						mg/l	g/d			
e. Ammonia (as N)	< .01	< 26.117						mg/l	mg/d			
f. Flow	VALUE 690		VALUE		VALUE			gal/day		VALUE		
g. Temperature (winter)	VALUE 36.9 C		VALUE		VALUE			°C		VALUE		
h. Temperature (summer)	VALUE		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 6.8	MAXIMUM 8.8	MINIMUM 6.0	MAXIMUM 9.0	X			STANDARD UNITS		X		

**PART B -** Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

I. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-57-9)	X		3.24	8.5						mg/l	g/d			
b. Chlorine, Total Residual		X	0.0	0.0						mg/l	mg/d			
c. Color	X		10							units				
d. Fecal Coliform		X												
e. Fluoride (18984-48-8)	X		0.52	1.4						mg/l	g/d			
f. Nitrate-Nitrite (as N)	X		1.13	3.0						mg/l	g/d			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. RE-CEIVED PRE-SENT	b. RECEIVED AS-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	e. CONCENTRATION	f. MASS	g. LONG TERM AVERAGE VALUE		h. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X		2.3	6.0						mg/l	g/d			
h. Oil and Grease		X	< 1.2	< 3.1						mg/l	g/d			
i. Phosphorus (as P), Total (7723-14-0)	X		.306	0.8						mg/l	g/d			
J. Radioactivity														
(1) Alpha, Total	X		14	36.6						pCi/l	nCi/d			
(2) Beta, Total	X		6.6	17.2						pCi/l	nCi/d			
(3) Radium, Total	X													
(4) Radium 226, Total	X		0.07	0.2						pCi/l	nCi/d			
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)	X		143	373.5						mg/l	g/d			
l. Sulfide (as S)	X		70.2	183.3						mg/l	g/d			
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)	X		18.8	49.1						mg/l	g/d			
n. Surfactants	X		0.11	0.3						mg/l	g/d			
o. Aluminum, Total (7429-90-5)	X		0.06	0.2						mg/l	g/d			
p. Barium, Total (7440-39-3)	X		0.11	0.3						mg/l	g/d			
q. Boron, Total (7440-42-8)	X		0.33	0.9						mg/l	g/d			
r. Cobalt, Total (7440-48-4)		X	0.07	0.2						mg/l	g/d			
s. Iron, Total (7439-89-6)	X		1.1	2.9						mg/l	g/d			
t. Magnesium, Total (7439-98-4)	X		5.8	15.1						mg/l	g/d			
u. Molybdenum, Total (7439-98-7)	X		1.7	4.4						mg/l	g/d			
v. Manganese, Total (7439-98-5)	X		0.05	0.1						mg/l	g/d			
w. Tin, Total (7440-31-5)		X	< 0.050	< 0.1						mg/l	g/d			
x. Titanium, Total (7440-32-8)		X	< 0.004	< 10.4						mg/l	mg/d			

**NM0890010515**

**03A**

Form Approved.  
OMB No. 2040-0086  
Approval expires 7-31-88

CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C** - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	b. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-36-0)			X	< 0.050	< 0.1						mg/l	g/d			
2M. Arsenic, Total (7440-38-2)		X		0.04	0.1						mg/l	g/d			
3M. Beryllium, Total, 7440-41-7)			X	< 0.1	< 0.3						mg/l	g/d			
4M. Cadmium, Total (7440-43-9)		X		.004	10.4						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		.260	0.7						mg/l	g/d			
6M. Copper, Total (7440-50-8)		X		0.1	0.3						mg/l	g/d			
7M. Lead, Total (7439-92-1)		X		.050	0.1						mg/l	g/d			
8M. Mercury, Total (7439-97-6)			X	< .0002	< 0.5						mg/l	mg/d			
9M. Nickel, Total (7440-02-0)		X		.28	0.7						mg/l	g/d			
10M. Selenium, Total (7782-49-2)			X	< .001	< 2.6						mg/l	mg/d			
11M. Silver, Total (7440-22-4)			X	< 0.01	< 26.1						mg/l	mg/d			
12M. Thallium, Total (7440-28-0)		X		0.51	1.3						mg/l	g/d			
13M. Zinc, Total (7440-66-6)		X		.071	0.2						mg/l	g/d			
14M. Cyanide, Total (57-12-8)		X		.033	86.2						mg/l	mg/d			
15M. Phenols, Total			X	< .01	< 26.1						mg/l	mg/d			

**DIOXIN**

2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1784-01-6)			X	DESCRIBE RESULTS										
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING RE-QUIRE-MENTS	b. BE-LIEVED PRE-SENT	c. BE-LIEVED AB-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANAL- YSES	a. CONCEN- TRATION	b. MASS	b. LONG TERM AVERAGE VALUE		d. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - VOLATILE COMPOUNDS</b>															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X	< 0.005	< 13.1						mg/l	mg/d			
4V. Bis (Chloro- methyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X	< 0.005	< 13.1						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< 0.005	< 13.1						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< 0.005	< 13.1						mg/l	mg/d			
8V. Chlorodi- bromomethane (124-48-1)			X	< 0.005	< 13.1						mg/l	mg/d			
9V. Chloroethane (75-00-3)			X	< 0.010	< 0.0						mg/l	mg/d			
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X	< 0.005	< 13.1						mg/l	mg/d			
12V. Dichloro- bromomethane (75-27-4)			X	< 0.005	< 13.1						mg/l	mg/d			
13V. Dichloro- difluoromethane (75-71-8)			X												
14V. 1,1-Dichloro- ethane (75-34-3)			X	< 0.005	< 13.1						mg/l	mg/d			
15V. 1,2-Dichloro- ethane (107-06-2)			X	< 0.005	< 13.1						mg/l	mg/d			
16V. 1,1-Dichloro- ethylene (75-35-4)			X	< 0.005	< 13.1						mg/l	mg/d			
17V. 1,2-Dichloro- propane (78-87-5)			X	< 0.005	< 13.1						mg/l	kg/d			
18V. 1,3-Dichloro- propylene (542-75-6)			X	< 0.005	< 13.1						mg/l	mg/d			
19V. Ethylbenzene (100-41-4)			X	< 0.005	< 13.1						mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< 0.010	< 26.1						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< 0.010	< 26.1						mg/l	mg/d			

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	B. TEST-ING RE-QUIR-ED	D. DE-LIEVED PRE-SENT	C. DE-LIEVED AB-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANAL-YSES	e. CONCENT-RATION	f. MASS	g. LONG TERM AVERAGE VALUE		h. NO. OF ANAL-YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENT-RATION	(2) MASS	
<b>GC/MS FRACTION - VOLATILE COMPOUNDS (continued)</b>															
22V. Methylene Chloride (75-09-2)			X	< 0.005	< 0.1						mg/l	mg/d			
23V. 1,1,2,2-Tetra-chloroethane (79-34-5)			X	< 0.005	< 0.1						mg/l	mg/d			
24V. Tetrachloro-ethylene (127-18-4)			X	< 0.005	< 0.1						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< 0.005	< 0.1						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-6)			X	< 0.005	< 0.1						mg/l	mg/d			
27V. 1,1,1-Tri-chloroethane (71-55-6)			X	< 0.005	< 0.1						mg/l	mg/d			
28V. 1,1,2-Tri-chloroethane (79-00-5)			X	< 0.005	< 0.1						mg/l	mg/d			
29V. Trichloro-ethylene (79-01-6)			X	< 0.005	< 0.1						mg/l	mg/d			
30V. Trichloro-fluoromethane (75-69-4)			X	< 0.005	< 0.1						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< 0.010	< 0.2						mg/l	mg/d			
<b>GC/MS FRACTION - ACID COMPOUNDS</b>															
1A. 2-Chlorophenol (98-57-8)			X	< 0.010	< 0.2						mg/l	mg/d			
2A. 2,4-Dichloro-phenol (120-83-2)			X	< 0.010	< 0.2						mg/l	mg/d			
3A. 2,4-Dimethyl-phenol (105-67-9)			X	< 0.010	< 0.2						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (834-52-1)			X	< 0.010	< 0.2						mg/l	mg/d			
5A. 2,4-Dinitro-phenol (51-28-5)			X	< 0.010	< 0.2						mg/l	mg/d			
6A. 2-Nitrophenol (88-75-5)			X	< 0.010	< 0.2						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< 0.010	< 0.2						mg/l	mg/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	< 0.010	< 0.2						mg/l	mg/d			
9A. Pentachloro-phenol (87-86-5)			X	< 0.010	< 0.2						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< 0.010	< 0.2						mg/l	mg/d			
11A. 2,4,6-Tri-chlorophenol (88-06-2)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	e. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS</b>															
1B. Acenaphthene (83-32-9)			X	< 0.010	< 0.2						mg/l	mg/d			
2B. Acenaphthylene (208-96-8)			X	< 0.010	< 0.2						mg/l	mg/d			
3B. Anthracene (120-12-7)			X	< 0.010	< 0.2						mg/l	mg/d			
4B. Benzidine (92-87-5)			X	< 0.010	< 0.2						mg/l	mg/d			
5B. Benzo (a) Anthracene (56-55-3)			X	< 0.010	< 0.2						mg/l	mg/d			
6B. Benzo (a) Pyrene (50-32-8)			X	< 0.010	< 0.2						mg/l	mg/d			
7B. 3,4-Benzo-fluoranthene (206-99-2)			X	< 0.010	< 0.2						mg/l	mg/d			
8B. Benzo (ghi) Perylene (191-24-2)			X	< 0.010	< 0.2						mg/l	mg/d			
9B. Benzo (h) Fluoranthene (207-08-9)			X	< 0.010	< 0.2						mg/l	mg/d			
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X	< 0.010	< 0.2						mg/l	mg/d			
11B. Bis (2-Chloroethyl) Ether (111-44-4)			X	< 0.010	< 0.2						mg/l	mg/d			
12B. Bis (2-Chloropropyl) Ether (102-80-1)			X	< 0.010	< 0.2						mg/l	mg/d			
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X	< 0.010	< 0.2						mg/l	mg/d			
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	< 0.010	< 0.2						mg/l	mg/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< 0.010	< 0.2						mg/l	mg/d			
16B. 2-Chloronaphthalene (91-58-7)			X	< 0.010	< 0.2						mg/l	mg/d			
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X	< 0.010	< 0.2						mg/l	mg/d			
18B. Chrysene (218-01-9)			X	< 0.010	< 0.2						mg/l	mg/d			
19B. Dibenzo (a,h) Anthracene (63-70-3)			X	< 0.010	< 0.2						mg/l	mg/d			
20B. 1,2-Dichlorobenzene (95-50-1)			X	< 0.010	< 0.2						mg/l	mg/d			
21B. 1,3-Dichlorobenzene (541-73-1)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	e. CONCENTRATION	f. MASS	g. LONG TERM AVERAGE VALUE		h. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)</b>															
22B. 1,4-Dichlorobenzene (106-46-7)			X	< 0.010	< 0.2						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< 0.010	< 0.2						mg/l	mg/d			
24B. Diethyl Phthalate (84-86-2)			X	< 0.010	< 0.2						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< 0.010	< 0.2						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< 0.010	< 0.2						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< 0.010	< 0.2						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (806-20-2)			X	< 0.010	< 0.2						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< 0.010	< 0.2						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X	< 0.010	< 0.2						mg/l	mg/d			
31B. Fluorethane (206-44-0)			X	< 0.010	< 0.2						mg/l	mg/d			
32B. Fluorene (86-73-7)			X	< 0.010	< 0.2						mg/l	mg/d			
33B. Hexachlorobenzene (118-74-1)			X	< 0.010	< 0.2						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< 0.010	< 0.2						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< 0.010	< 0.2						mg/l	mg/d			
36B. Hexachloroethene (87-72-1)			X	< 0.010	< 0.2						mg/l	mg/d			
37B. Indeno (1,2,3-cd) Pyrene (193-39-6)			X	< 0.010	< 0.2						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< 0.010	< 0.2						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< 0.010	< 0.2						mg/l	mg/d			
40B. Nitrobenzene (98-96-3)			X	< 0.010	< 0.2						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< 0.010	< 0.2						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (821-64-7)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)</b>															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< 0.010	< 7.6						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< 0.010	< 7.6						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< 0.010	< 7.6						mg/l	mg/d			
46B. 1,2,4-Trichlorobenzene (120-82-1)			X	< 0.010	< 7.6						mg/l	mg/d			
<b>GC/MS FRACTION - PESTICIDES</b>															
1P. Aldrin (309-00-2)			X	< 0.06	< 45.4						ug/l	ug/d			
2P. α-BHC (319-84-6)			X	< 0.04	< 30.3						ug/l	ug/d			
3P. β-BHC (319-86-7)			X	< 0.1	< 75.7						ug/l	ug/d			
4P. γ-BHC (58-89-9)			X	< 0.03	< 22.7						ug/l	ug/d			
5P. δ-BHC (319-86-8)			X	< 0.12	< 90.8						ug/l	ug/d			
6P. Chlordane (57-74-9)			X	< 0.25	< 0.2						ug/l	mg/d			
7P. 4,4'-DDT (50-29-3)			X	< 0.06	< 45.4						ug/l	ug/d			
8P. 4,4'-DDE (72-65-9)			X	< 0.08	< 60.6						ug/l	ug/d			
9P. 4,4'-DDD (72-54-8)			X	< 0.08	< 60.6						ug/l	ug/d			
10P. Dieldrin (60-57-1)			X	< 0.08	< 60.6						ug/l	ug/d			
11P. α-Endosulfan (115-29-7)			X	< 0.05	< 37.9						ug/l	ug/d			
12P. β-Endosulfan (115-29-7)			X	< 0.08	< 60.6						ug/l	ug/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< 0.09	< 68.1						ug/l	ug/d			
14P. Endrin (72-20-8)			X	< 0.06	< 45.4						ug/l	ug/d			
15P. Endrin Aldehyde (7421-93-4)			X	< 0.62	< 0.5						ug/l	mg/d			
16P. Heptachlor (76-44-8)			X	< 0.03	< 22.7						ug/l	ug/d			

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TEST-ING RE-QUIR-ED	b. BE-LIEVED PRE-SENT	c. BE-LIEVED AB-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANAL-YSES	a. CONCEN-TRATION	b. MASS	e. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - PESTICIDES (continued)</b>															
17P. Heptachlor Epoxide (1024-57-3)			X	< 0.08	< 60.6						ug/l	ug/d			
18P. PCB-1242 (53469-21-9)			X	< 0.71	< 0.5						ug/l	mg/d			
19P. PCB-1254 (11097-69-1)			X	< 0.71	< 0.5						ug/l	mg/d			
20P. PCB-1221 (11104-28-2)			X	N.D.											
21P. PCB-1232 (11141-16-5)			X	N.D.											
22P. PCB-1248 (12672-29-8)			X	N.D.											
23P. PCB-1260 (11096-82-6)			X	< 0.71	< 0.5						ug/l	mg/d			
24P. PCB-1016 (12674-11-2)			X	N.D.											
25P. Toxaphene (8001-35-2)			X	< 2.5	< 1.9						ug/l	mg/d			

## DYE STUDY INFORMATION

BUILDING NUMBER	DRAIN NUMBER	DID DYE REACH EXPECTED DESTINATION?	COMMENTS
3-215	BAD1	NO	DRAINS TO SANITARY SEWER
3-215	BFD2	YES	
3-215	1LV5	YES	
3-215	1SD2	YES	
3-215	2LV3	YES	
3-215	2SD1	YES	
3-215	2SD2	YES	
3-218	1FD2	YES	
3-218	1LV1	YES	
3-218	1SD1	YES	
3-218	1SD2	YES	
3-227	1TD1	YES	
3-228	1CD1	NO	DRAINS TO STORM SEWER
3-228	1ED2	NO	UNPERMITTED TCW DISCHARG
3-406	1TL1	YES	
3-406	1TL2	YES	
3-494	1FS1	YES	
3-494	1LV1	YES	
3-494	1SD1	YES	
3-494	1SD6	YES	
3-494	1SD7	YES	
3-502	1FS5	YES	
3-502	1LV3	YES	
3-502	1SD1	YES	
3-502	1SD2	YES	
3-502	1SD3	YES	
3-502	1SD5	YES	
3-502	2TL3	YES	
3-1887	1SD1	YES	
3-1887	1TL2	YES	
3-1888	1SD1	YES	
3-1888	1SD2	YES	
3-1888	1SD3	YES	
3-1888	1TL1	YES	

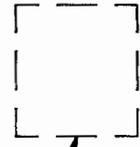
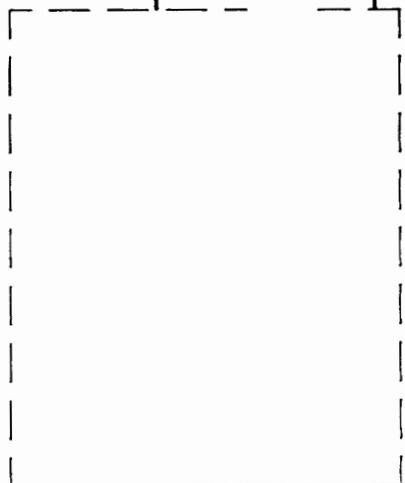
# DYE STUDY INFORMATION

BUILDING NUMBER	DRAIN NUMBER	DID DYE REACH EXPECTED DESTINATION?	COMMENTS
3-1912	1LV1	YES	
3-1912	1SD2	YES	
3-1912	1TL2	YES	



3-206-OPN-1  
HOOD EXH.

3-206-OPN-2  
HOOD EXH.

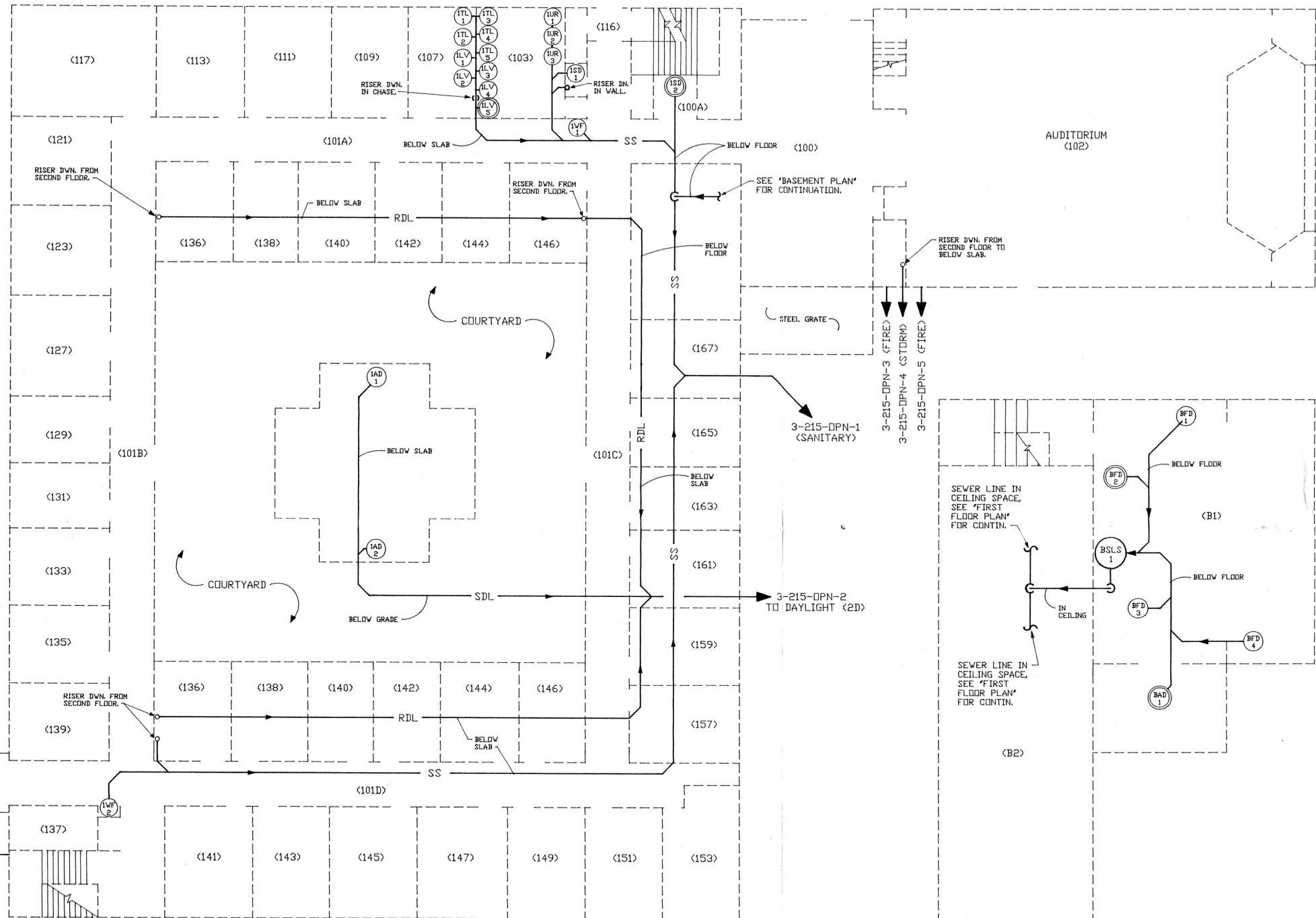


OIL-FILLED ELECTRICAL  
TRANSFORMER CONTAINING  
'PCB'S'.  
(PROVIDE SECONDARY CONTAINMENT)



NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED  
FROM SITE VISITS.

<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-206 DRAIN SCHEMATIC</b>	DRAWN	M.E.W.	
	DESIGN	M.E.W.	
	CHECKED	P.E.B.	
	DATE	9-4-92	
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>	Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET 1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-44	FIGURE 2	



**FIRST FLOOR PLAN**

**BASEMENT PLAN**

**SYMBOL LEGEND**

AD	AREA DRAIN
FD	FLOOR DRAIN
LV	LAVATORY
SD	SINK DRAIN
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
SDL	STORM DRAIN LEADER
SLS	SEWAGE LIFT STATION
SS	SANITARY SEWER
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN

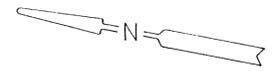
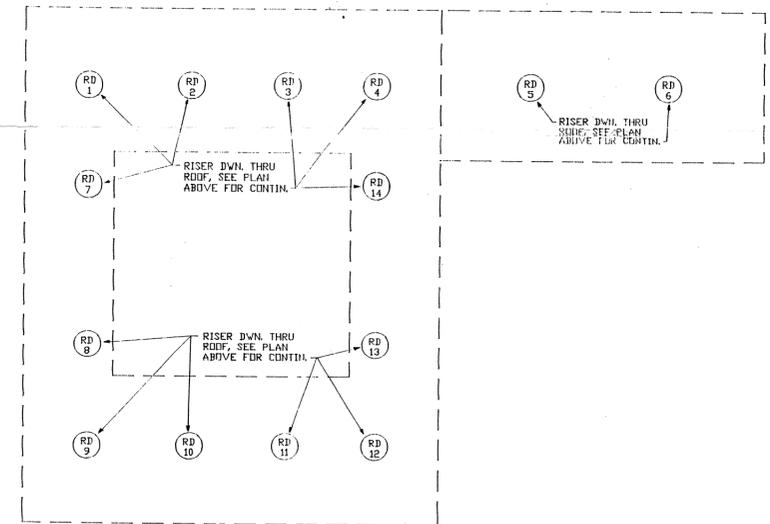
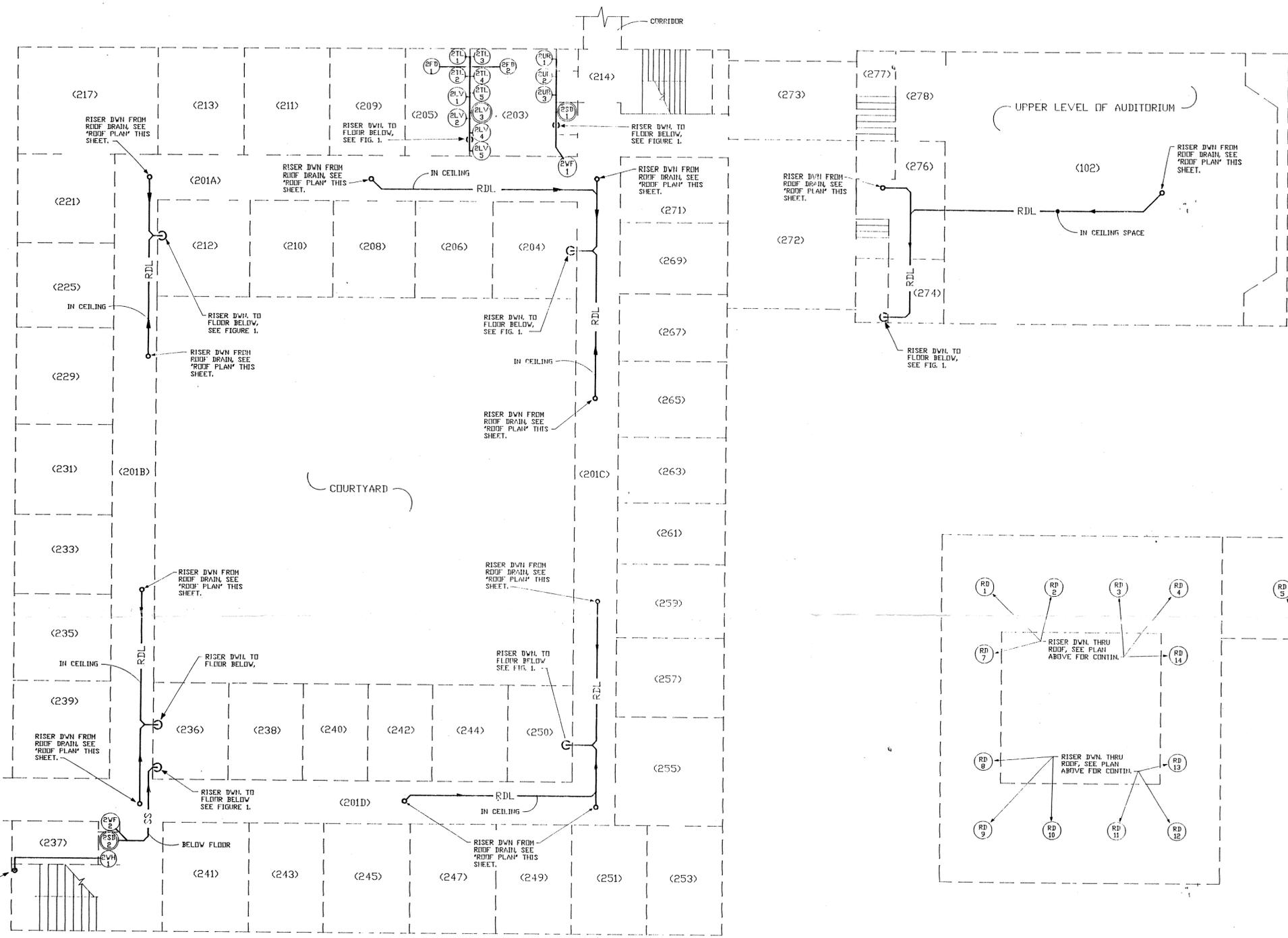
○ DYE TESTED DRAIN

NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM LANL DRAWINGS C-36826, C-36827, C-36829, C-36844, C-36845, C-36846 AND SITE VISIT.

SUBMITTED		RECOMMENDED	APPROVED
Los Alamos		Los Alamos National Laboratory	Los Alamos, New Mexico 87545
CLASSIFICATION	REVIEWER	DATE	SHEET 1 OF 2
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP	11056-44	FIGURE 3	

15252-B

BUILDING TA-3-40



SYMBOL LEGEND	
FD	FLOOR DRAIN
LV	LAVATORY
RD	ROOF DRAIN
RDL	ROOF DRAIN PIPE
SD	SINK DRAIN
SS	SANITARY SEWER PIPE
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN
WH	WATER HEATER

○ DYE TESTED DRAIN

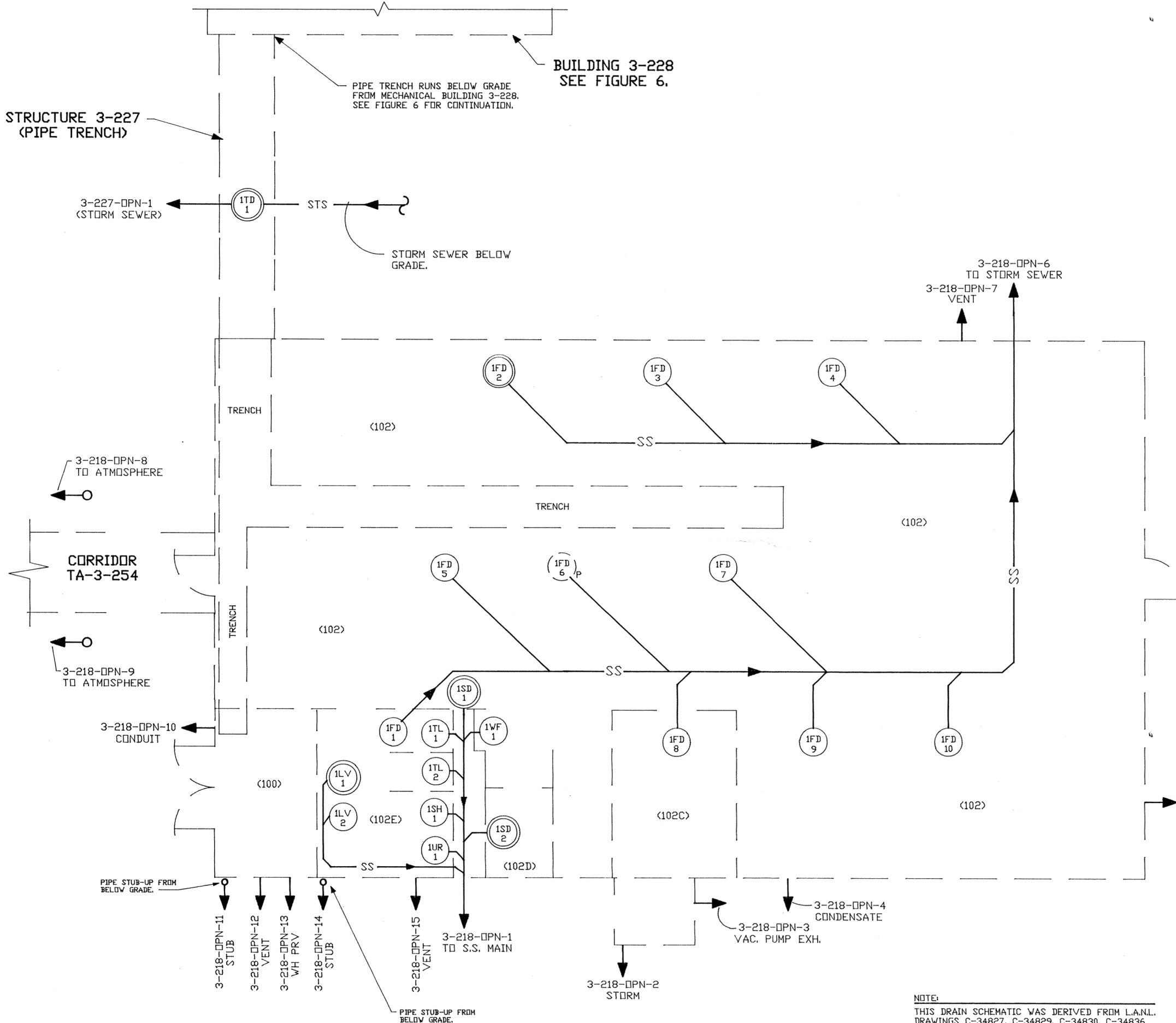
**SECOND FLOOR PLAN**  
NOT TO SCALE

**ROOF PLAN**  
NOT TO SCALE

NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-36827, C-36844, C-36845 AND SITE VISIT.

SANTA FE ENGINEERING, LTD.			
TA3-214 and 215 DRAIN SCHEMATIC (2ND FLOOR and ROOF)		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	9-4-92
SUBMITTED	RECOMMENDED	APPROVED	
Los Alamos		Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET 2 OF 2
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-44	FIGURE 4	

15252-C



BUILDING 3-228  
SEE FIGURE 6.

PIPE TRENCH RUNS BELOW GRADE  
FROM MECHANICAL BUILDING 3-228.  
SEE FIGURE 6 FOR CONTINUATION.

STRUCTURE 3-227  
(PIPE TRENCH)

3-227-OPN-1  
(STORM SEWER)

STS

STORM SEWER BELOW  
GRADE.

3-218-OPN-6  
TO STORM SEWER  
3-218-OPN-7  
VENT

SYMBOL LEGEND	
FD	FLOOR DRAIN
LV	LAVATORY
SD	SINK DRAIN
SS	SANITARY SEWER
STS	STORM SEWER
TD	TRENCH DRAIN
TL	TOILET
UR	URINAL
SH	SHOWER
WF	WATER FOUNTAIN

○ DYE TESTED DRAIN

○<sub>P</sub> DRAIN HAS BEEN PLUGGED



3-218-OPN-5  
VENT STUB

3-218-OPN-10  
CONDUIT

CORRIDOR  
TA-3-254

3-218-OPN-9  
TO ATMOSPHERE

3-218-OPN-8  
TO ATMOSPHERE

PIPE STUB-UP FROM  
BELOW GRADE.

PIPE STUB-UP FROM  
BELOW GRADE.

3-218-OPN-4  
CONDENSATE  
3-218-OPN-3  
VAC. PUMP EXH.

3-218-OPN-1  
TO S.S. MAIN

3-218-OPN-2  
STORM

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L.  
DRAWINGS C-34827, C-34829, C-34830, C-34836,  
C-34840, C-34841 AND SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA3-218 and 227  
DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	P.E.B.
DATE	9-4-92

SUBMITTED	RECOMMENDED	APPROVED
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Los Alamos Los Alamos National Laboratory  
Los Alamos, New Mexico 87545

SHEET 1  
OF 1

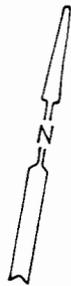
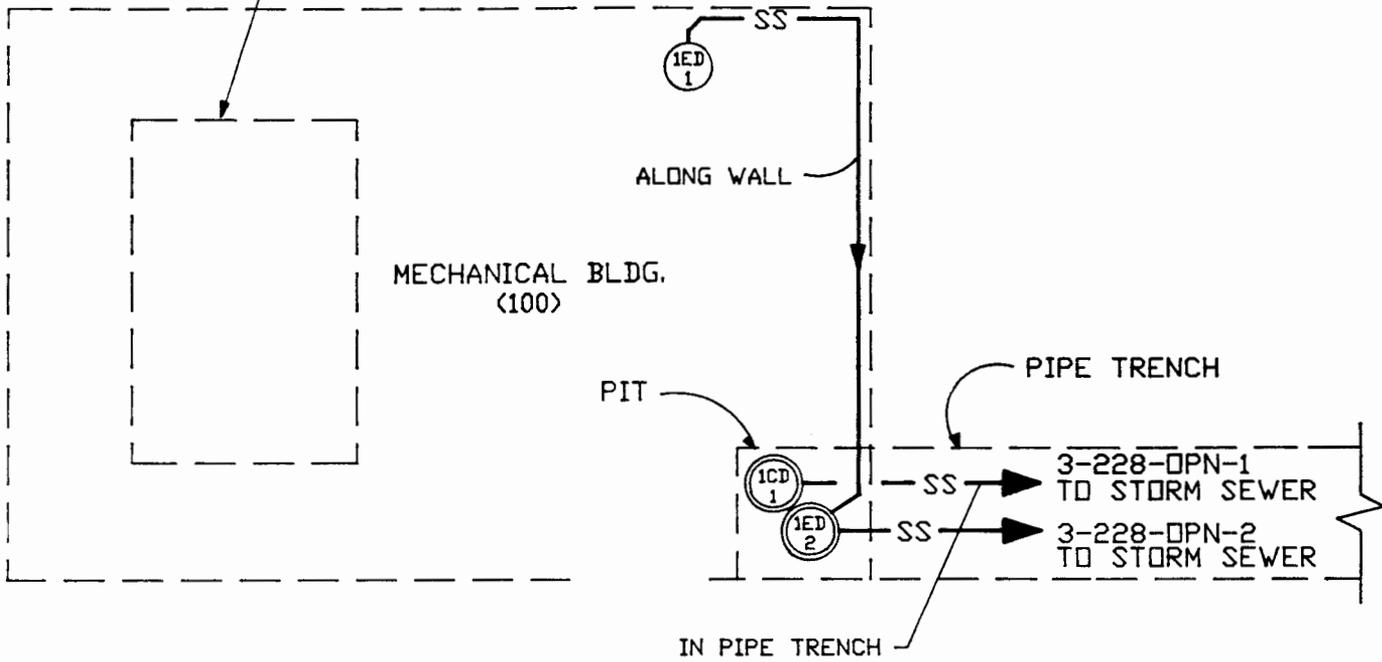
CLASSIFICATION	REVIEWER	DATE
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REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
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REQUESTING GROUP	11056-44	FIGURE 5
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15252-D

COOLING TOWER ON ROOF  
WITH BLOWDOWN TO CUP-  
DRAIN '1CD2'.



**NOTE:**

THIS DRAIN SCHEMATIC WAS DERIVED  
FROM SITE VISITS.

SYMBOL LEGEND	
CD	CUP DRAIN
ED	EQUIPMENT DRAIN
SS	SANITARY SEWER PIPE



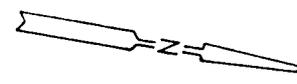
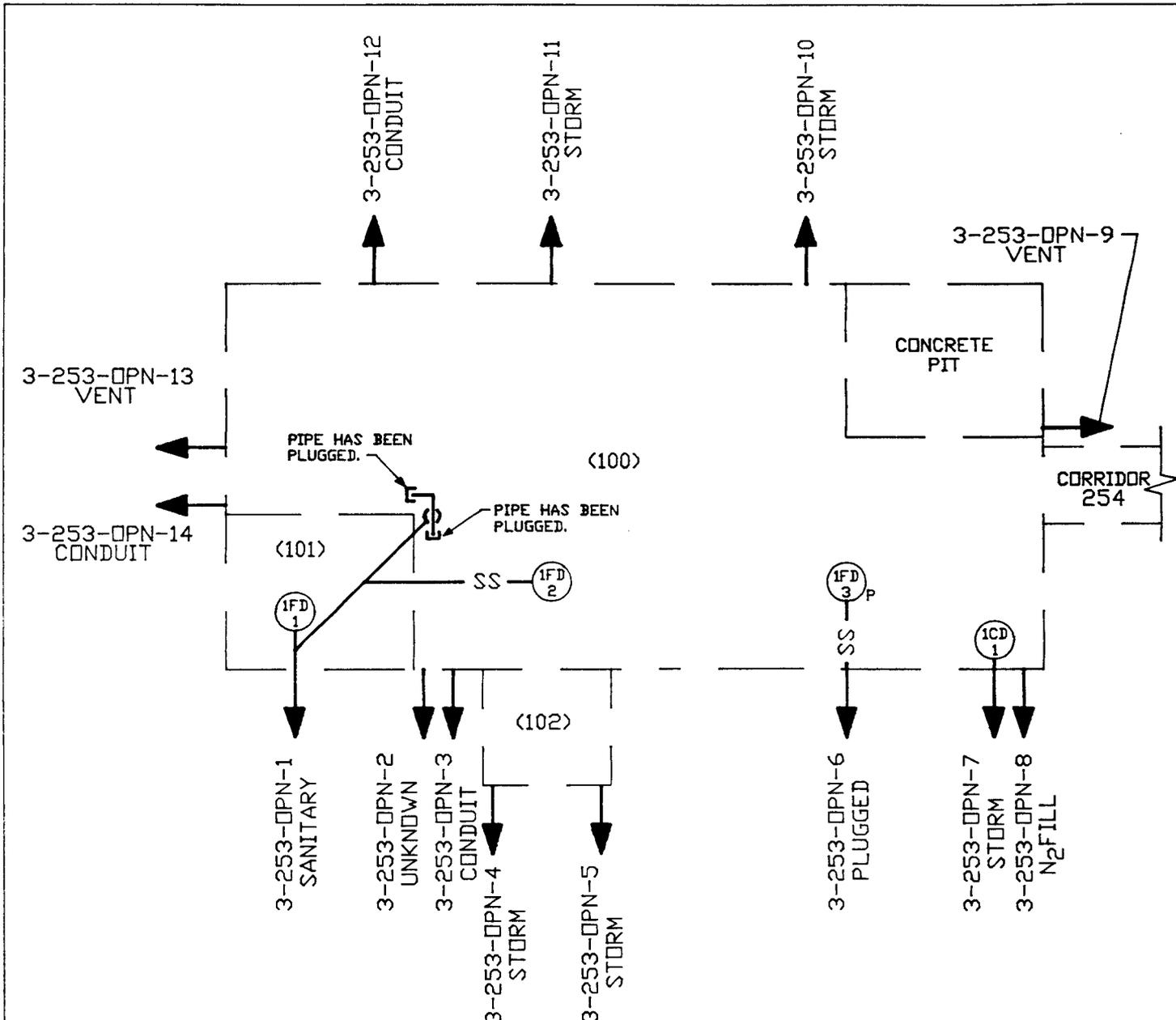
DYE TESTED DRAIN

**SANTA FE ENGINEERING, LTD.**

**TA3-228  
DRAIN SCHEMATIC**

DRAWN	M.E.W.
DESIGN	M.E.W.
CHECKED	P.E.B.
DATE	9-4-92

SUBMITTED	RECOMMENDED	APPROVED
<b>Los Alamos</b> Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET 1 OF 1
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.
REQUESTING GROUP EM-8	11056-44	FIGURE 6
		REV.



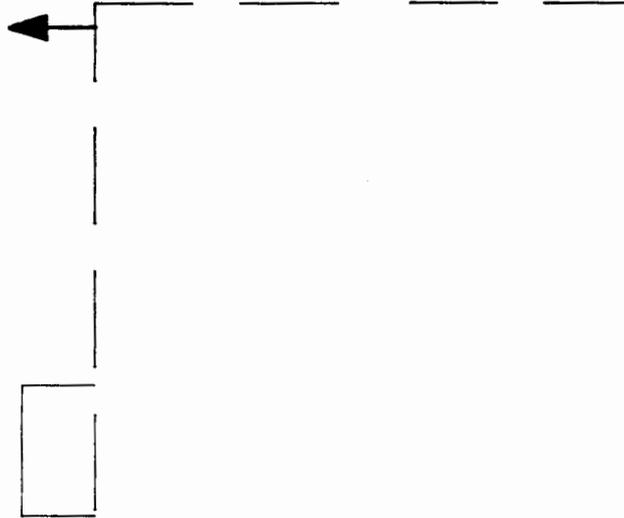
NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SYMBOL LEGEND	
CD	CUP DRAIN
FD	FLOOR DRAIN
SS	SANITARY SEWER PIPE

-  DYE TESTED DRAIN
-  DRAIN HAS BEEN PLUGGED

<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-253 DRAIN SCHEMATIC</b>		DRAWN M.E.W.	DESIGN M.E.W.
		CHECKED P.E.B.	DATE 9-4-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
		SHEET	1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-44	FIGURE 7	

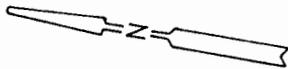
3-322-OPN-9  
(STORM)



3-322-OPN-1 (STORM)  
 3-322-OPN-2 (FIRE)  
 3-322-OPN-3 (FIRE)  
 3-322-OPN-4 (FIRE)  
 3-322-OPN-5 A/C DISCH.

3-322-OPN-8  
(STORM)

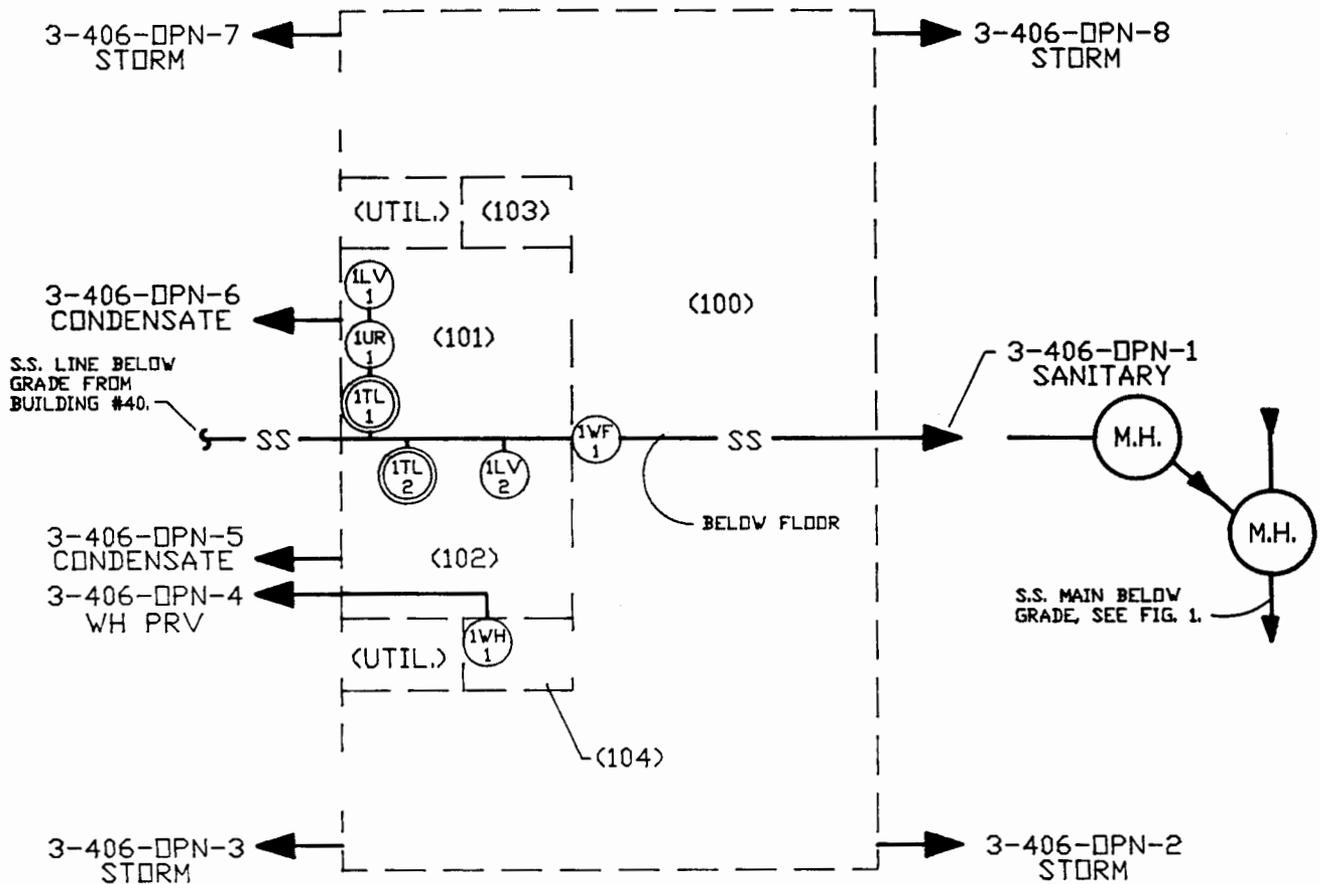
3-322-OPN-6 (STORM)  
 3-322-OPN-7 (FIRE)



**NOTE:**

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

<b>SANTA FE ENGINEERING, LTD.</b>				
<b>TA3-322 DRAIN SCHEMATIC</b>			DRAWN	M.E.W.
			DESIGN	M.E.W.
			CHECKED	P.E.B.
			DATE	9-4-92
SUBMITTED		RECOMMENDED	APPROVED	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET 1 OF 1
CLASSIFICATION		REVIEWER		DATE
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.		REV.
REQUESTING GROUP EM-8	11056-44	<b>FIGURE 8</b>		

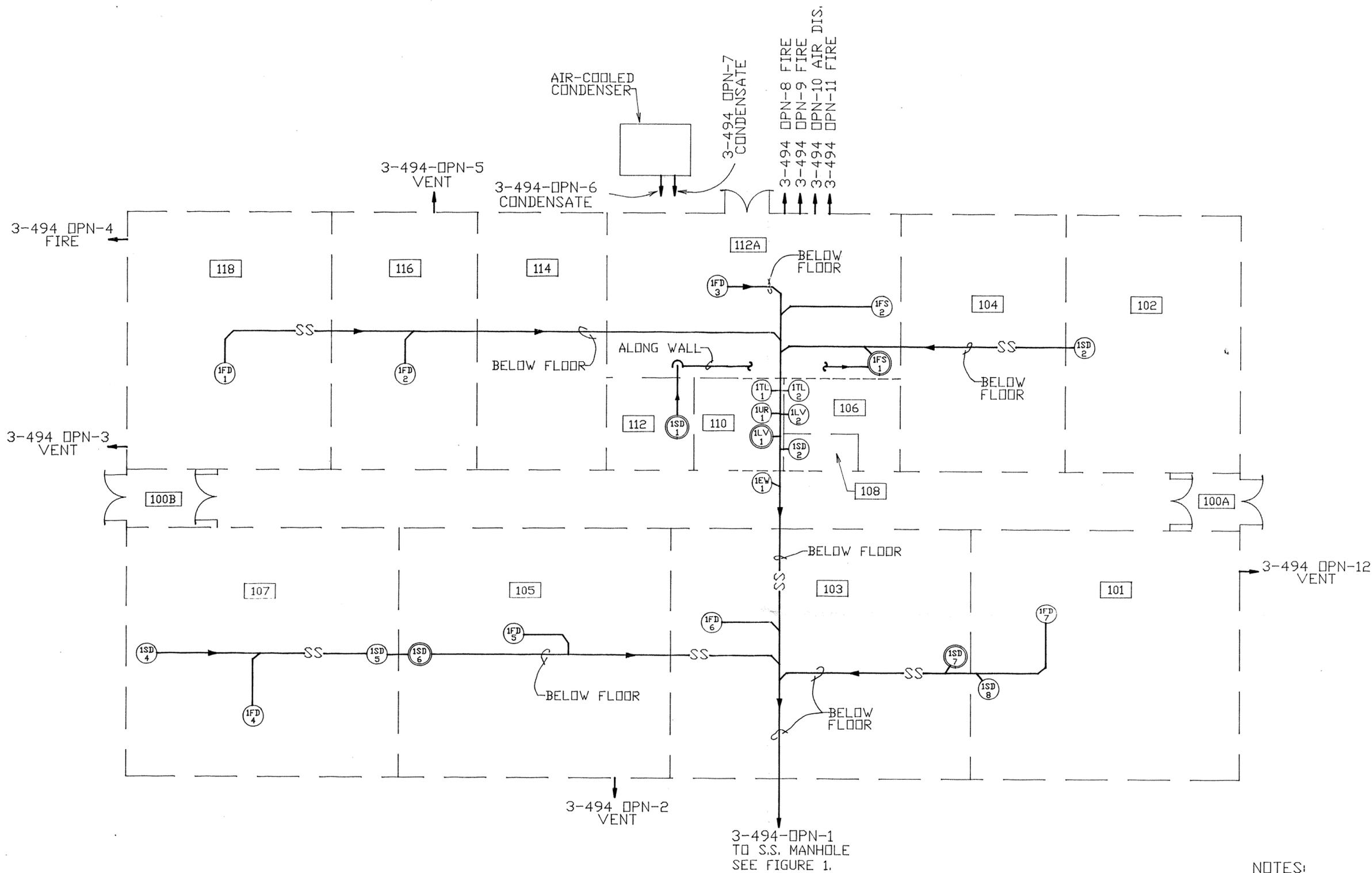


NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SYMBOL LEGEND	
LV	LAVATORY
M.H.	SAN. SEWER MANHOLE
SS	SANITARY SEWER PIPE
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN
○	DYE TESTED DRAIN

○ DYE TESTED DRAIN

<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-406</b>		DRAWN	M.E.W.
<b>DRAIN SCHEMATIC</b>		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	9-4-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET 1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-44	<b>FIGURE 9</b>	



NOTES:  
 THIS DRAIN SCHEMATIC IS DERIVED FROM L.A.N.L. DRAWINGS C-44692 AND SITE VISITS.

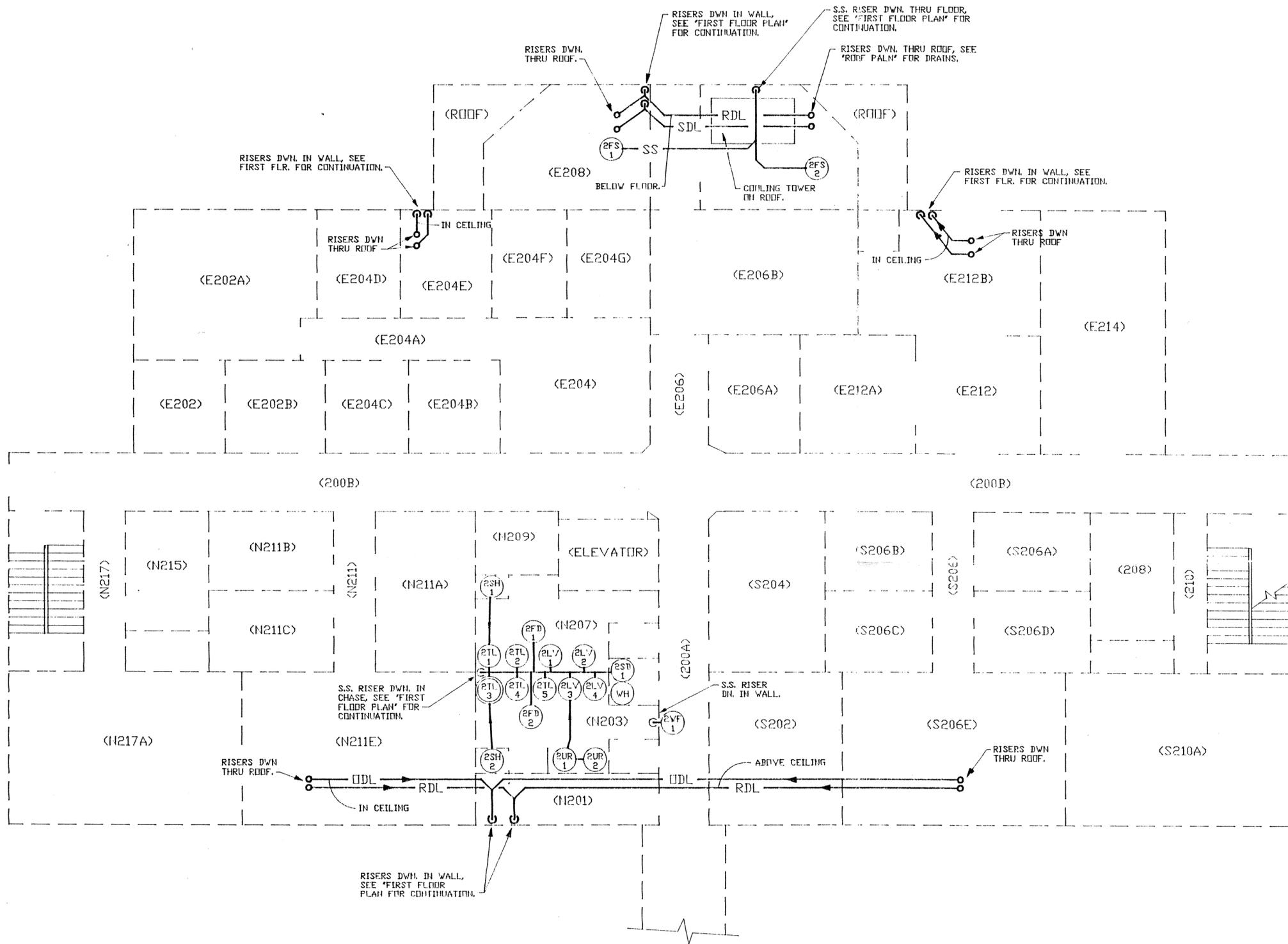
SYMBOL LEGEND	
EW	EMERGENCY EYE WASH DRAIN
FD	FLOOR DRAIN
FS	FLOOR SINK
LV	LAVATORY
SD	SINK DRAIN
SS	SANITARY SEWER PIPE
TL	TOILET
UR	URINAL

○ DYE TEST DRAIN

15252-E

SANTA FE ENGINEERING, LTD.			
<b>TA3-494 DRAIN SCHEMATIC</b>		DRAWN	G.S.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	9-4-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b> Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET	1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP	11056-44	FIGURE 10	





SYMBOL LEGEND	
FD	FLOOR DRAIN
LV	LAVATORY
ODL	OVERFLOW DRAIN PIPE
RDL	ROOF DRAIN PIPE
SD	SINK DRAIN
SH	SHOWER
SS	SANITARY SEWER PIPE
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN

○ DYE TESTED DRAIN

NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.M.L. DRAWINGS C-45144 AND SITE VISITS.

## SECOND FLOOR PLAN

NOT TO SCALE

SANTA FE ENGINEERING, LTD.

TA3-502  
DRAIN SCHEMATIC  
(SECOND FLOOR)

DRAWN	M.E.W.
DESIGN	M.E.W.
CHECKED	P.E.B.
DATE	9-4-92

SUBMITTED	RECOMMENDED	APPROVED
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Los Alamos Los Alamos National Laboratory  
Los Alamos, New Mexico 87545

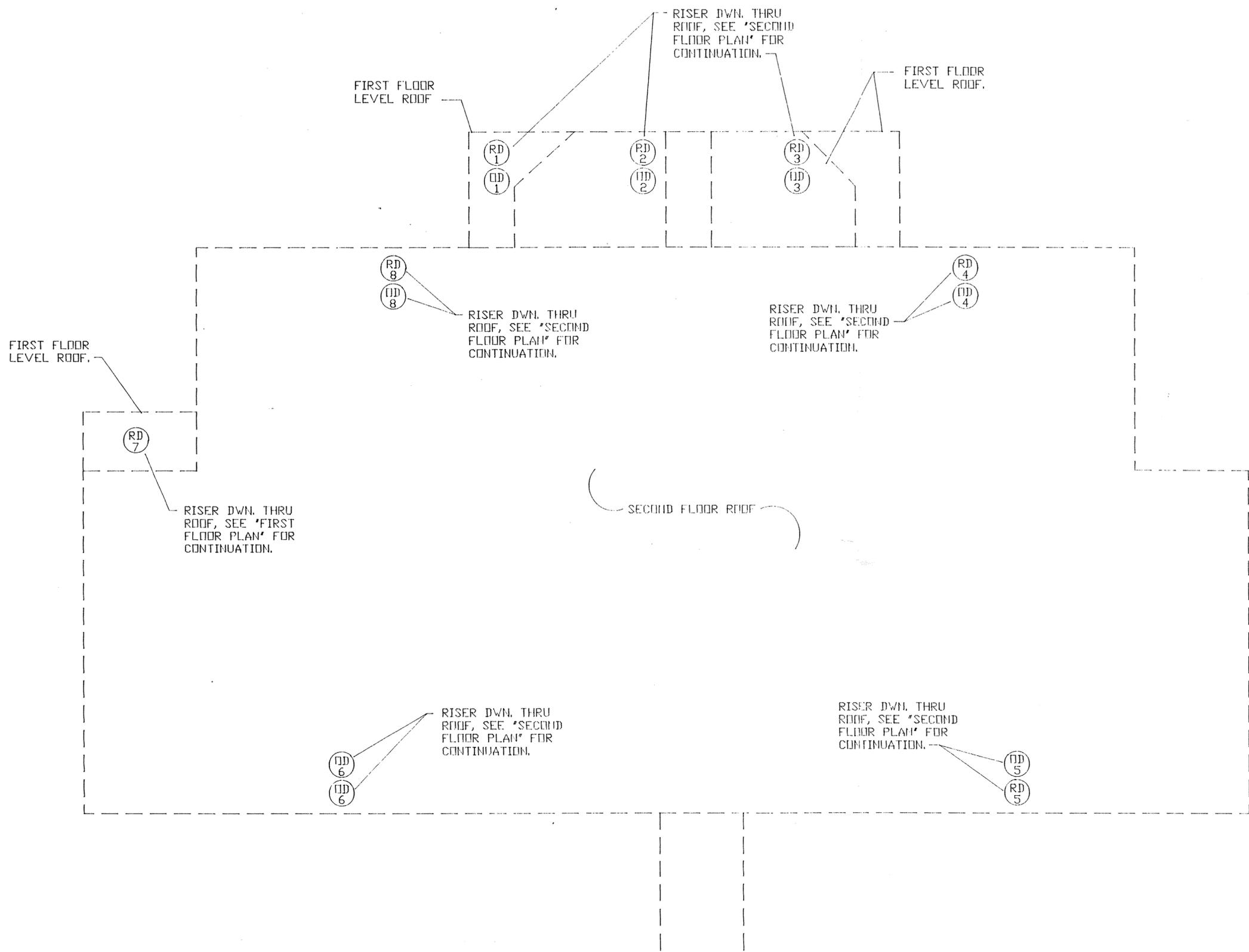
SHEET 2 OF 3

CLASSIFICATION	REVIEWER	DATE
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REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
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REQUESTING GROUP EM-8	11056-44	FIGURE 12	
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15252-G



# ROOF PLAN

NOT TO SCALE



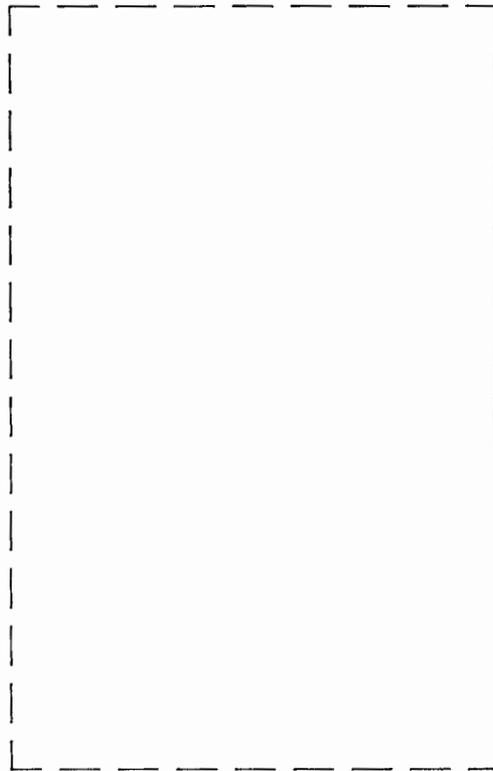
SYMBOL LEGEND	
OD	OVERFLOW DRAIN
RD	ROOF DRAIN

○ DYE TESTED DRAIN

NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-45144 AND SITE VISITS.

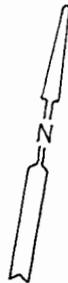
SANTA FE ENGINEERING, LTD.			
TA3-502 DRAIN SCHEMATIC (ROOF PLAN)		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	9-4-92
SUBMITTED	RECOMMENDED	APPROVED	
Los Alamos		Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET 3 OF 3
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP	11056-44	FIGURE 13	

15252-H



WALL MTD. AIR  
CONDITIONING  
UNIT.

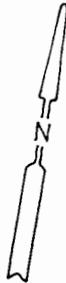
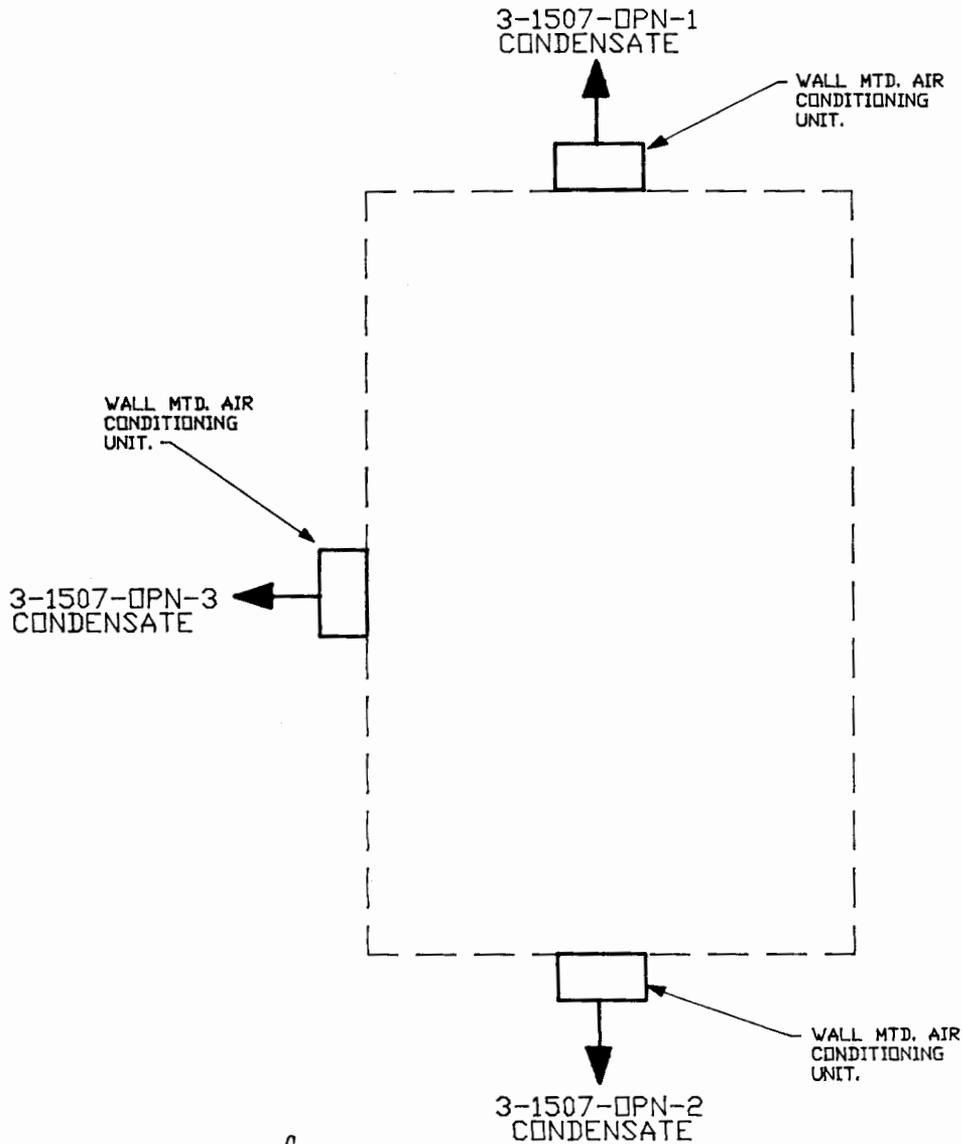
3-1506-OPN-1  
CONDENSATE



**NOTE:**

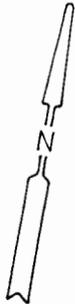
THIS DRAIN SCHEMATIC WAS DERIVED  
FROM SITE VISITS.

<b>SANTA FE ENGINEERING, LTD.</b>				
<b>TA3-1506 DRAIN SCHEMATIC</b>			DRAWN	M.E.W.
			DESIGN	M.E.W.
			CHECKED	P.E.B.
			DATE	9-4-92
SUBMITTED	RECOMMENDED	APPROVED		
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545		
CLASSIFICATION		REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.	
REQUESTING GROUP EM-8	11056-44	FIGURE 14		
			SHEET 1 OF 1	



NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-1507 DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	9-4-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
		SHEET	1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	
REQUESTING GROUP	11056-44	FIGURE 15	
EM-8		REV.	



**NOTE:**

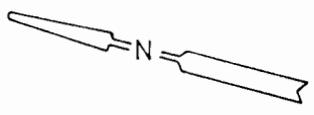
THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-1516 DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	9-4-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
		SHEET	1 OF 1
CLASSIFICATION		REVIEWER	
REQUESTING DIVISION	LAB JOB NO.	DATE	
REQUESTING GROUP EM-8	11056-44	DRAWING NO. <b>FIGURE 16</b>	
		REV.	



WALL MTD. AIR  
CONDITIONING  
UNIT.

3-1519-OPN-1  
CONDENSATE

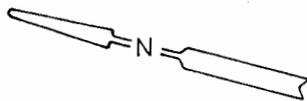


**NOTE:**  
THIS DRAIN SCHEMATIC WAS DERIVED  
FROM SITE VISITS.

<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-1519 DRAIN SCHEMATIC</b>		<b>DRAWN</b>	M.E.W.
		<b>DESIGN</b>	M.E.W.
		<b>CHECKED</b>	P.E.B.
		<b>DATE</b>	9-4-92
<b>SUBMITTED</b>		<b>RECOMMENDED</b>	
<b>APPROVED</b>			
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
		<b>SHEET</b>	1 OF 1
<b>CLASSIFICATION</b>		<b>REVIEWER</b>	
<b>REQUESTING DIVISION</b>		<b>DATE</b>	
<b>REQUESTING GROUP</b>		<b>LAB JOB NO.</b>	
EM-8		11056-44	
		<b>DRAWING NO.</b>	
		FIGURE 17	
		<b>REV.</b>	

WALL MTD. AIR  
CONDITIONING  
UNIT.

3-1596-DPN-1  
CONDENSATE



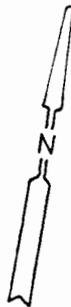
**NOTE:**

THIS DRAIN SCHEMATIC WAS DERIVED  
FROM SITE VISITS.

<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-1596 DRAIN SCHEMATIC</b>		<b>DRAWN</b>	M.E.W.
		<b>DESIGN</b>	M.E.W.
		<b>CHECKED</b>	P.E.B.
		<b>DATE</b>	9-4-92
<b>SUBMITTED</b>	<b>RECOMMENDED</b>	<b>APPROVED</b>	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
<b>CLASSIFICATION</b>		<b>REVIEWER</b>	<b>DATE</b>
<b>REQUESTING DIVISION</b>	<b>LAB JOB NO.</b>	<b>DRAWING NO.</b>	<b>REV.</b>
<b>REQUESTING GROUP</b> EM-8	11056-44	<b>FIGURE 18</b>	

WALL MTD. AIR  
CONDITIONING  
UNIT.

3-1702-OPN-1  
CONDENSATE



NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED  
FROM SITE VISITS.

**SANTA FE ENGINEERING, LTD.**

**TA3-1702  
DRAIN SCHEMATIC**

DRAWN	M.E.W.
DESIGN	M.E.W.
CHECKED	P.E.B.
DATE	9-4-92

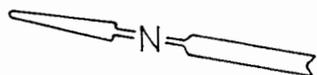
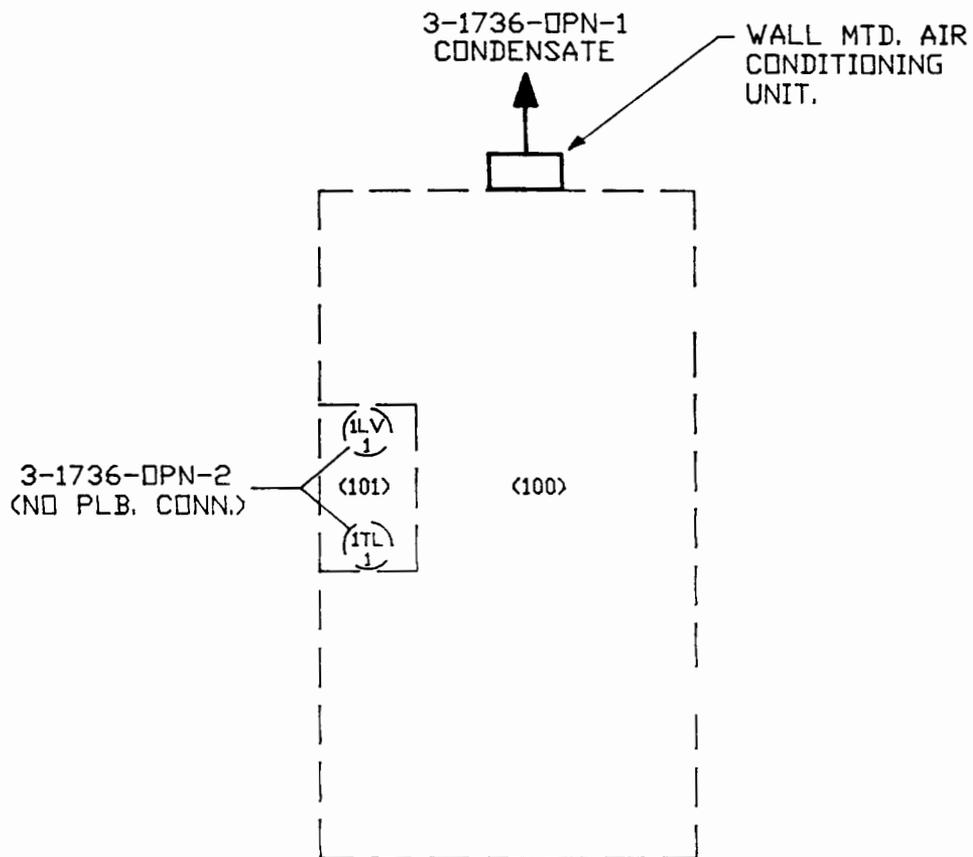
SUBMITTED	RECOMMENDED	APPROVED
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**Los Alamos**

Los Alamos National Laboratory  
Los Alamos, New Mexico 87545

SHEET 1  
OF 1

CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.
REQUESTING GROUP EM-8	11056-44	FIGURE 19
		REV.



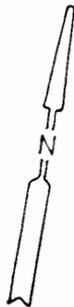
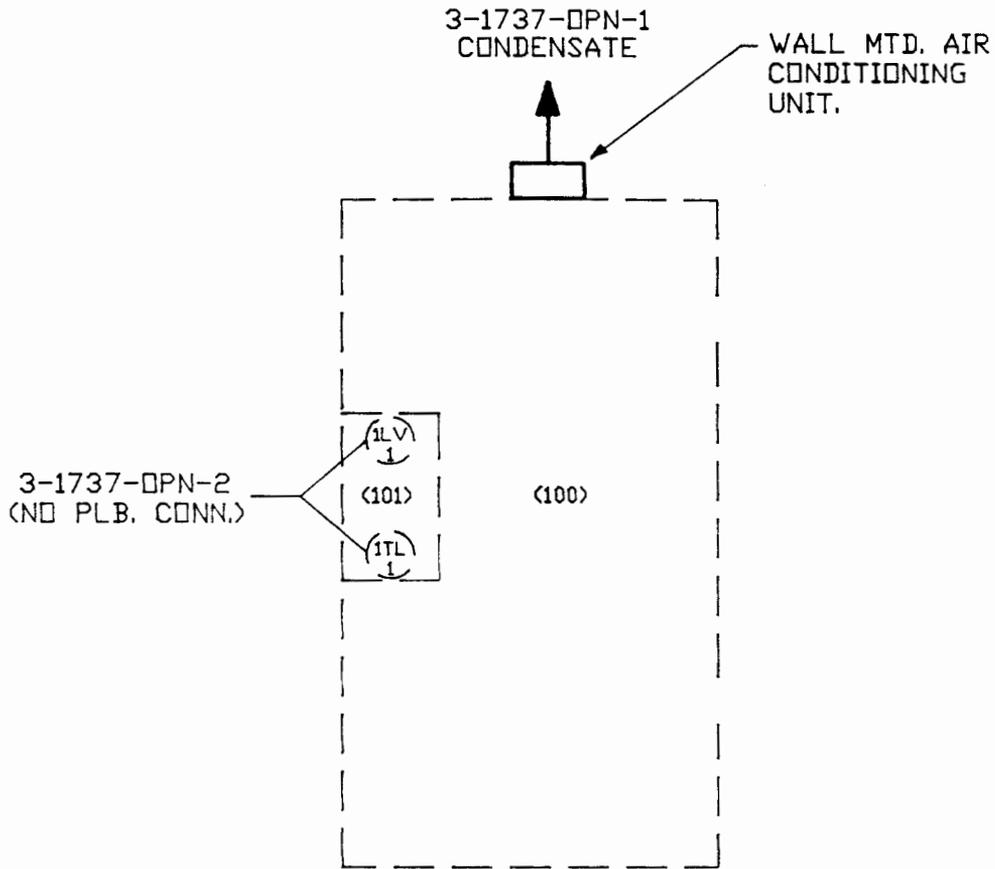
**NOTE:**

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SYMBOL LEGEND	
LV	LAVATORY
TL	TOILET

○ FIXTURES INSTALLED BUT NOT PLUMBED.

SANTA FE ENGINEERING, LTD.			
<b>TA3-1736 DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	9-4-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET 1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-44	FIGURE 20	



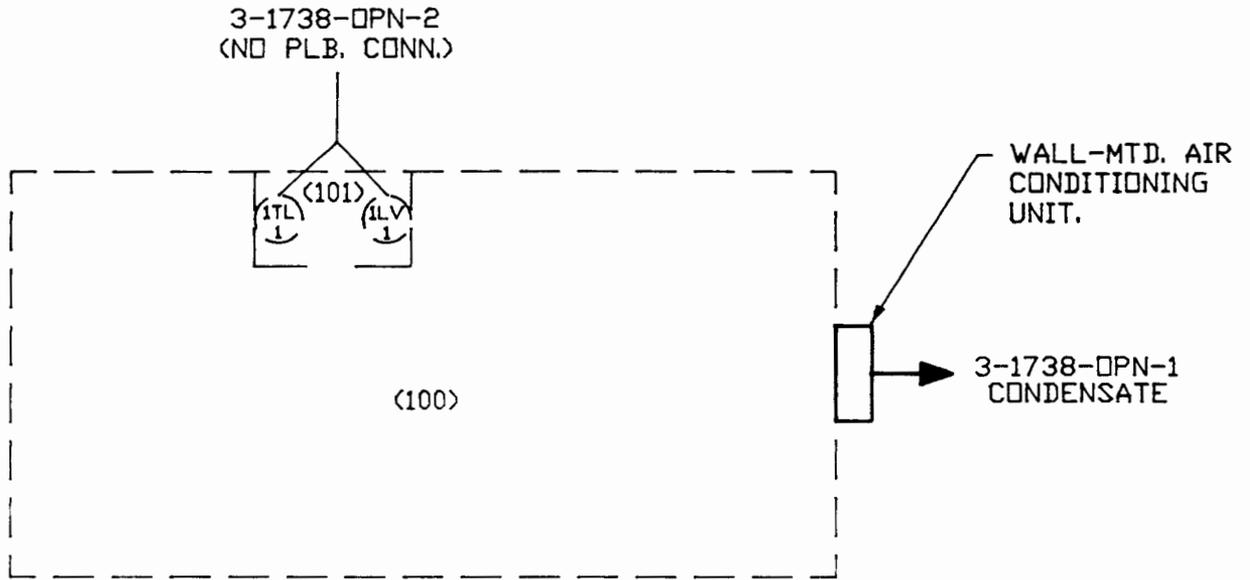
**NOTE:**

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SYMBOL LEGEND	
LV	LAVATORY
TL	TOILET

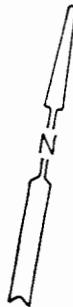
○ FIXTURES INSTALLED BUT NOT PLUMBED.

SANTA FE ENGINEERING, LTD.			
<b>TA3-1737 DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	9-4-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
CLASSIFICATION		REVIEWER	DATE
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP	11056-44	FIGURE 21	
EM-8			

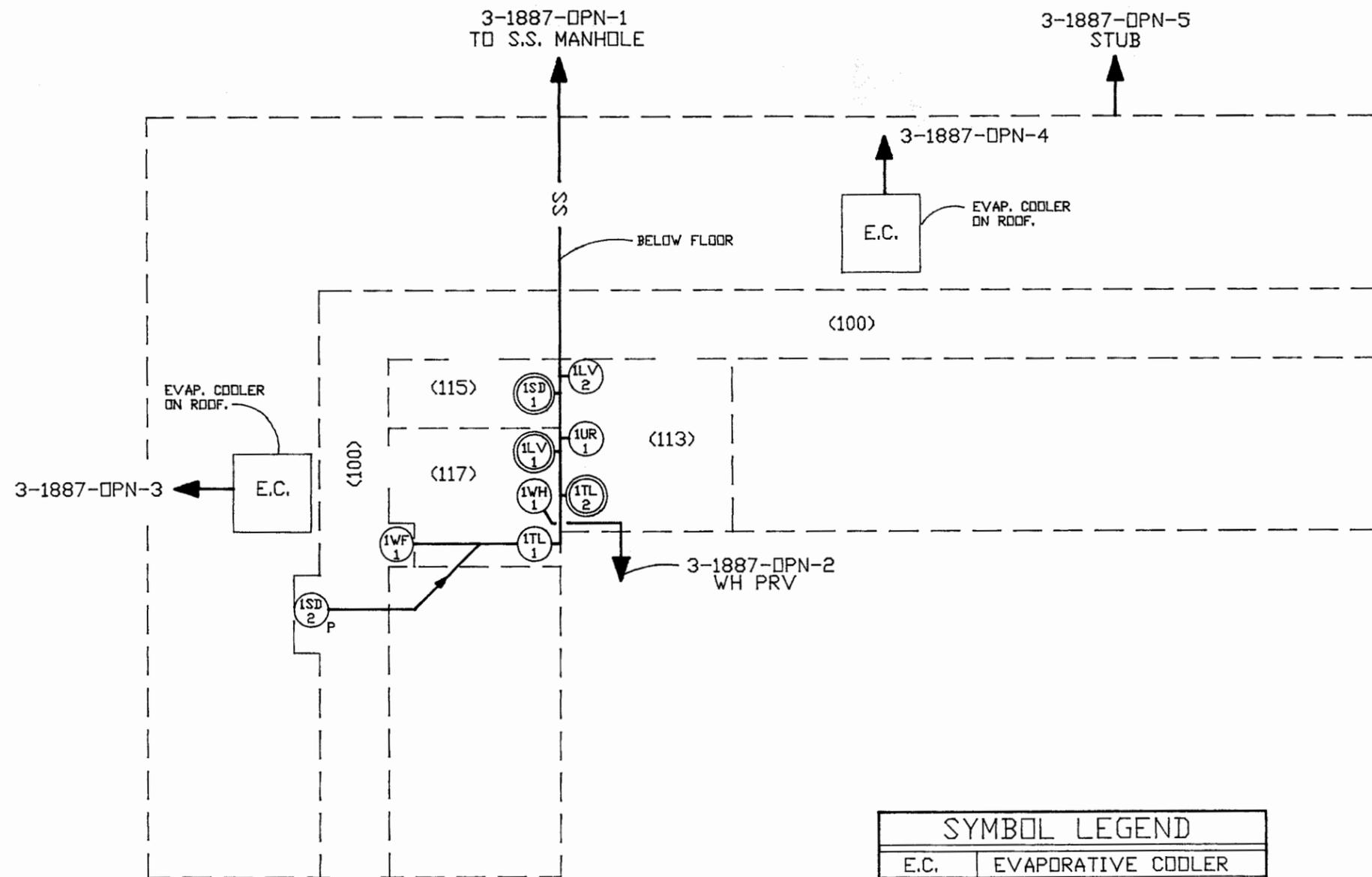


○ INDICATES A DRAIN WHICH HAS NOT BEEN PLUMBED.

NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.



<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-1738 DRAIN SCHEMATIC</b>	DRAWN	M.E.W.	
	DESIGN	M.E.W.	
	CHECKED	P.E.B.	
	DATE	9-4-92	
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>	Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET 1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-44	<b>FIGURE 22</b>	



NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED  
FROM SITE VISITS.

SYMBOL LEGEND	
E.C.	EVAPORATIVE COOLER
LV	LAVATORY
SD	SINK DRAIN
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN
WH	WATER HEATER

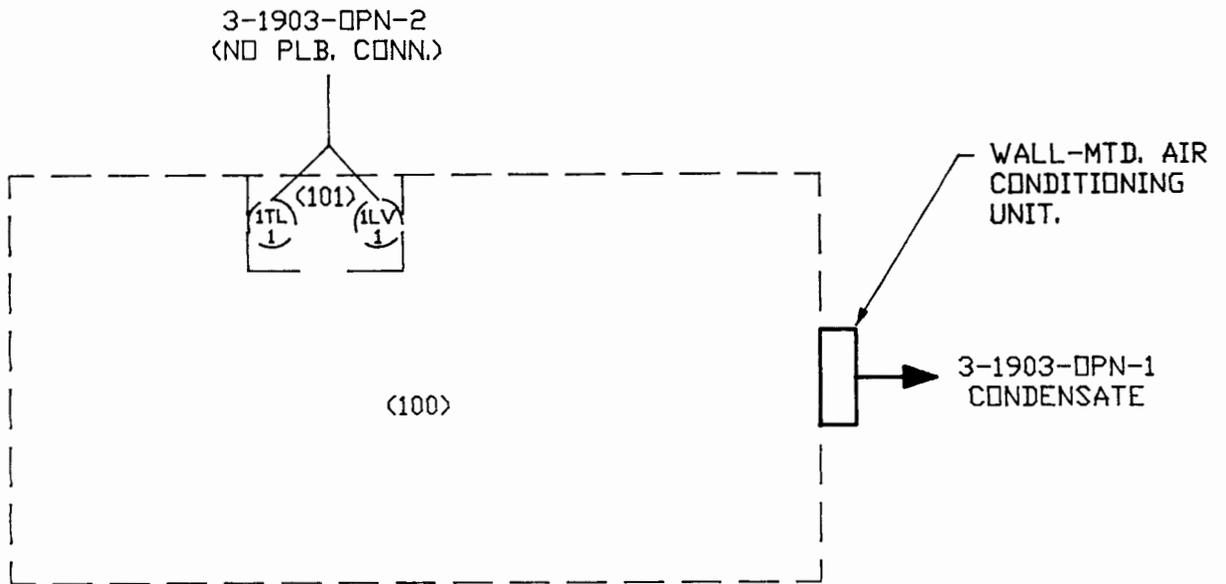
- DYE TESTED DRAIN
- DRAIN HAS BEEN PLUGGED

SANTA FE ENGINEERING, LTD.

### TA3-1887 DRAIN SCHEMATIC

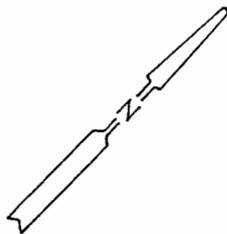
DRAWN	M.E.W.	
DESIGN	M.E.W.	
CHECKED	P.E.B.	
DATE	9-4-92	
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos		Los Alamos National Laboratory Los Alamos, New Mexico 87545
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.
REQUESTING GROUP	11056-44	FIGURE 23
EM-8		
SHEET	1 OF 1	REV.



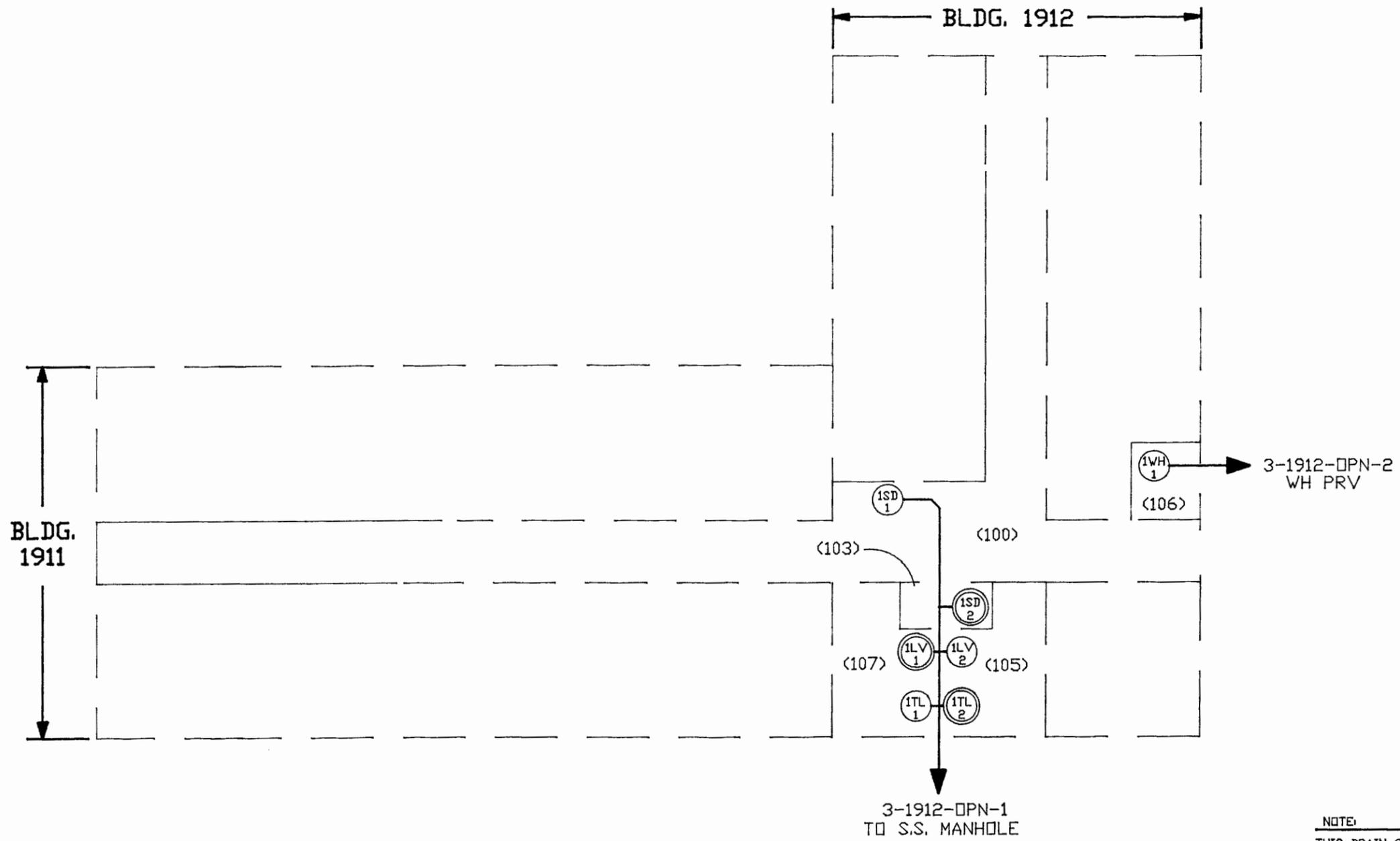


( ) INDICATES A DRAIN WHICH HAS NOT BEEN PLUMBED.

NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.



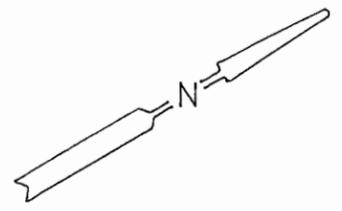
<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-1903 DRAIN SCHEMATIC</b>	DRAWN	M.E.W.	
	DESIGN	M.E.W.	
	CHECKED	P.E.B.	
	DATE	9-4-92	
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>	Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET 1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-44	FIGURE 25	



NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SYMBOL LEGEND	
LV	LAVATORY
SD	SINK DRAIN
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN
WH	WATER HEATER

○ DYE TESTED DRAIN



SANTA FE ENGINEERING, LTD.			
<b>TA3-1911 and 1912 DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	9-4-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET 1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-44	FIGURE 26	