

WASTEWATER STREAM CHARACTERIZATION FOR TA-60

at
Los Alamos National Laboratory

ENVIRONMENTAL STUDY

CHARACTERIZATION REPORT # 55

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WASTEWATER STREAM
CHARACTERIZATION FOR
TA-60

ENVIRONMENTAL STUDY

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

under subcontract 9-XG8-2874P-1

by:
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EXECUTIVE SUMMARY

Buildings 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 35, 36, 41, 42, 43, 45, 53, 66, 67, 68, 69, 70, 71, 72, 75, 76, 79, 84, 85, 86, 87, 88, 89, 90, 91, 99 and 111 in TA-60 were visited to document all drain piping and to make permitting recommendations. The pipes exiting the building are as follows:

- 1) from building 60-1: one discharge to the sanitary sewer, two discharges of fire water, eight roof drains and one air compressor drain,
- 2) from building 60-2: one discharge to the sanitary sewer, nine roof drains, two boiler vents and three discharges of fire water,
- 4) from buildings 60-3, 60-7, 60-8, 60-9, 60-10, 60-11, 60-12, 60-13, 60-15, 60-18, 60-20, 60-21, 60-22, 60-23, 60-24, 60-25, 60-26, 60-27, 60-28, 60-32, 60-33, 60-35, 60-36, 60-41, 60-45, 60-53, 60-66, 60-67, 60-68, 60-69, 60-70, 60-71, 60-72, 60-75, 60-76, 60-79, 60-84, 60-85, 60-86, 60-87, 60-99 and 60-111: no drains,
- 5) from building 60-4: one discharge to the sanitary sewer,
- 6) from building 60-6: one discharge to the sanitary sewer,
- 7) from building 60-14: one air compressor drain,
- 8) from building 60-17: one discharge to the sanitary sewer, fourteen roof drains, two discharges of fire water and one fan exhaust,
- 9) from building 60-19: one discharge to the sanitary sewer, three roof drains, three discharges of fire water and three fan exhausts,
- 10) from building 60-29: two roof drains and one drain from a back flow preventer,
- 11) from buildings 60-42, 60-43, 60-88, 60-89 and 60-90: buildings removed from site and
- 12) from building 60-91: one discharge to the sanitary sewer, three roof drains and one discharge of fire water.

No revised EPA Forms 2C are included. Recommendations for repiping are provided to permit outfall consolidation to minimize permit maintenance requirements. Floor drain

plugging is recommended where potential for discharge of pollutants exists.

A waste stream database has been prepared listing wastewater type and flow rate for each outfall.

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1.0 INTRODUCTION

During January, 1993, Patrick E. Binkley of Santa Fe Engineering (SFE) toured buildings 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 35, 36, 41, 42, 43, 45, 53, 66, 67, 68, 69, 70, 71, 72, 75, 76, 79, 84, 85, 86, 87, 88, 89, 90, 91, 99 and 111 in TA-60. Figure 1 is a site plan of the buildings visited. The purpose of this study is to identify building drain piping and to characterize the wastewater flows and sources at the time of the visit. This report will not reflect any subsequent changes in piping or operation. The Wastewater Stream 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 buildings were identified and laid out in schematic form;
2. Wastewater sources were identified at each drain and the wastewater was characterized according to flow rate and quality. The location of outfalls and their potential sources of discharge 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 2 through 10) from drawings provided by Los Alamos National Laboratory (LANL) Facilities Engineering Division. The other

buildings were visited to insure that no drains exist in 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 also reviewed. The National Pollutant Discharge System (NPDES) Permit, the 1990 NPDES Permit Application submitted by Los Alamos National Laboratory (LANL) in September, 1990 and 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 VI-92-1306 issued by EPA to the University of California were used for reference;
2. SFE verified drain piping by dye checking and
3. A site visit was performed to verify the SFE drain schematic 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.

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 1). 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 is listed in Appendix 1 in Tables 2 through 10 with an abbreviations list in Table 1 and non-drain recommendations in Table 11.. Appendix 2 contains the waste stream characterization database output, listing wastewater sources, flow rates and periodicity information for each outfall drain. No EPA forms were included in Appendix 3. Appendix 4 provides information about the dye study of building drains. Flow schematics of the drains from each building are attached in Appendix 5 as Figures 2 through 10.

3.0 RECOMMENDATIONS FOR BUILDING 60-1

Table 2 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 discussion below gives the reasoning for the recommendations.

3.1 Outfall 60-1-OPN-1

This outfall to the sanitary sewer receives flow from sanitary facilities and from the vehicle and heavy equipment repair areas. Care should be taken in the repair areas not to drain oil to the sewer. The sand traps should be cleaned out regularly. Oil was seen in trap 1ST1. It is recommended that oil interceptors be installed in the sewer lines from the maintenance bays. Two (2) interceptors could be used for the entire building; one large and one small. Recommended locations for the new oil interceptors are shown on Figure 2. This recommendation is in accordance with current Laboratory policy and requirements of the Uniform Plumbing Code. No permitting is recommended. No EPA forms were prepared.

3.2 Outfalls 60-1-OPN-2 and 60-1-OPN-12

These two outfalls to daylight are drains from the fire water system. These outfalls should be included in a Notice of Intent (NOI) to Discharge. No changes are recommended. No EPA forms were prepared.

3.3 Outfalls 60-1-OPN-3, 60-1-OPN-4, 60-1-OPN-5, 60-1-OPN-6, 60-1-OPN-7, 60-1-OPN-8, 60-1-OPN-9 and 60-1-OPN-11

These outfalls to daylight are from storm water drains. No changes or permitting are recommended. No EPA forms were prepared.

3.4 Outfall 60-1-OPN-10

This outfall to daylight is a drain from an air compressor. The liquid should be contained. No permitting is recommended. No EPA forms were prepared.

4.0 RECOMMENDATIONS FOR BUILDING 60-2

Table 3 is a list of the drains to the building outfalls and Figure 3 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.

4.1 Outfall 60-2-OPN-1

This outfall to the sanitary sewer receives flow from floor drains (6), lavatories (5), sinks (2), toilets (6), one urinal, water fountains (3) and area drains at the loading docks. The area drains receive rain water and snow melt. These drains should be repiped so the rain water will not flow to the sanitary sewer. It is also recommended that all floor drains in the warehouse area be permanently plugged and sink drains 1SD1 and 1SD2 be labeled "SANITARY WASTE ONLY - NO CHEMICAL DISPOSAL". No permitting is recommended. No EPA forms were prepared.

4.2 Outfalls 60-2-OPN-2, 60-2-OPN-8, 60-2-OPN-9, 60-2-OPN-10, 60-2-OPN-11, 60-2-OPN-12, 60-2-OPN-13, 60-2-OPN-14 and 60-2-OPN-15

These outfalls to daylight are from storm water drains. No changes or permitting are recommended. No EPA forms were prepared.

4.3 Outfalls 60-2-OPN-3 and 60-2-OPN-4

These outfalls to atmosphere are vapor vents from a boiler. No changes or permitting are recommended. No EPA forms were prepared.

4.4 Outfalls 60-2-OPN-5, 60-2-OPN-6 and 60-2-OPN-7

These outfalls to daylight are drains from the fire water system. These outfalls should be included in an NOI. No changes are recommended. No EPA forms were prepared.

5.0 RECOMMENDATIONS FOR BUILDINGS 60-3, 60-7, 60-8, 60-9, 60-10, 60-11, 60-12, 60-13, 60-15, 60-18, 60-20, 60-21, 60-22, 60-23, 60-24, 60-25, 60-26, 60-27, 60-28, 60-32, 60-33, 60-35, 60-36, 60-41, 60-45, 60-53, 60-66, 60-67, 60-68, 60-69, 60-70, 60-71, 60-72, 60-75, 60-76, 60-79, 60-84, 60-85, 60-86, 60-87, 60-99 AND 60-111

These buildings have no drains and no sources of water. No changes or permitting are recommended. No EPA forms were prepared.

6.0 RECOMMENDATIONS FOR BUILDING 60-4

Table 4 is a list of the drains to the building outfall and Figure 4 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 building outfall receives flow from two toilets and two lavatories and discharges to the sanitary sewer system. No changes or permitting are recommended. No EPA forms were prepared.

7.0 RECOMMENDATIONS FOR BUILDING 60-6

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 building outfall receives flow from one toilet and one lavatory and discharges to the sanitary sewer system. No changes or permitting are recommended. No EPA forms were prepared.

8.0 RECOMMENDATIONS FOR BUILDING 60-14

Table 6 lists the drain to the building outfall and Figure 6 is a schematic of the piping. The table includes recommendations for changes to the drain piping. The one building outfall is a drain from an air compressor. The liquid should be contained. No permitting is recommended. No EPA forms were prepared.

9.0 RECOMMENDATIONS FOR BUILDING 60-17

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 recommendations. It should be noted that this building previously discharged to septic system SF 89035R and now goes to the OIS collection system. The septic system should be decommissioned.

9.1 Outfall 60-17-OPN-1

This outfall to the sanitary sewer receives flow from floor drains (7), lavatories (2), sinks (4), toilets (2) and one water fountain. It is recommended that floor drains 1FD1 and 1FD3 be permanently plugged and sink drains 1SD1, 1SD2 and 1SD3 be labeled "SANITARY WASTE ONLY - NO CHEMICAL DISPOSAL". No changes or permitting are recommended. No EPA forms were prepared.

9.2 Outfalls 60-17-OPN-2, 60-17-OPN-3, 60-17-OPN-4, 60-17-OPN-5, 60-17-OPN-6, 60-17-OPN-7, 60-17-OPN-8, 60-17-OPN-9, 60-17-OPN-10, 60-17-OPN-12, 60-17-OPN-13, 60-17-OPN-14, 60-17-OPN-15 and 60-17-OPN-16

These outfalls to daylight are from storm water drains. No changes or permitting are recommended. No EPA forms were prepared.

9.3 Outfall 60-17-OPN-11

This outfall to atmosphere is from an exhaust fan. No changes or permitting are recommended. No EPA forms were prepared.

9.4 Outfalls 60-17-OPN-17 and 60-17-OPN-18

These outfalls to daylight are drains from the fire water system. These outfalls should be included in an NOI. No changes are recommended. No EPA forms were prepared.

10.0 RECOMMENDATIONS FOR BUILDING 60-19

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.

10.1 Outfall 60-19-OPN-1

This outfall to the sanitary sewer receives flow from floor drains (6), lavatories (3), sinks (2), toilets (2), one urinal and one water fountain. It is recommended that floor drains 1FD1, 1FD2 and 1FD5 in the Assembly Areas be permanently plugged and the two sinks be labeled "SANITARY WASTE ONLY - NO CHEMICAL DISPOSAL". No permitting is recommended and no EPA forms were prepared.

10.2 Outfalls 60-19-OPN-2, 60-19-OPN-5 and 60-19-OPN-7

These outfalls to daylight are from roof drains. No changes or permitting are recommended. No EPA forms were prepared.

10.3 Outfalls 60-19-OPN-3, 60-19-OPN-4 and 60-19-OPN-6

These outfalls to atmosphere are from exhaust fans. No changes or permitting are recommended. No EPA forms were prepared.

10.4 Outfalls 60-19-OPN-8, 60-19-OPN-9 and 60-19-OPN-10

These outfalls to daylight are drains from the fire water system. These outfalls should be included in an NOI. No changes are recommended. No EPA forms were prepared.

11.0 RECOMMENDATIONS FOR BUILDING 60-29

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.

11.1 Outfalls 60-29-OPN-1 and 60-29-OPN-3

These outfalls to daylight are from storm water drains. No changes or permitting are recommended. No EPA forms were prepared.

11.2 Outfall 60-29-OPN-2

This outfall to daylight is from a potable water back flow preventer. This outfall should be included in an NOI. No changes are recommended. No EPA forms were prepared.

12.0 RECOMMENDATIONS FOR BUILDINGS 60-42, 60-43, 60-88, 60-89 AND 60-90

These buildings have been removed. No changes or permitting are recommended. No EPA forms were prepared.

13.0 RECOMMENDATIONS FOR BUILDING 60-91

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 60-91-OPN-1

This outfall to the sanitary sewer receives flow from a floor drain, lavatories (3), sinks (2), one trench drain in a truck bay, toilets (2) and urinals (2). It is recommended that the oil interceptor be checked. No permitting is recommended. No EPA forms were prepared.

13.2 Outfalls 60-91-OPN-2, 60-91-OPN-4 and 60-91-OPN-5

These outfalls to daylight are from storm water drains. No changes or permitting are recommended. No EPA forms were prepared.

13.3 Outfall 60-91-OPN-3

This outfall to daylight is a drain from the fire water system. This outfall should be included in an NOI. No changes are recommended. No EPA forms were prepared.

14.0 CONCLUSION

This document provides the information to characterize buildings 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 35, 36, 41, 42, 43, 45, 53, 66, 67, 68, 69, 70, 71, 72, 75, 76, 79, 84, 85, 86, 87, 88, 89, 90, 91, 99 and 111 in TA-60. No permit application forms were completed for any of the outfalls.

Permitting is not recommended for the outfalls, as itemized below:

Areas that do not have any drains:

- | | | | |
|-----------|------------|-----------|-----------|
| 1. 60-3 | 2. 60-7 | 3. 60-8 | 4. 60-9 |
| 5. 60-10 | 6. 60-11 | 7. 60-12 | 8. 60-13 |
| 9. 60-15 | 10. 60-18 | 11. 60-20 | 12. 60-21 |
| 13. 60-22 | 14. 60-23 | 15. 60-24 | 16. 60-25 |
| 17. 60-26 | 18. 60-27 | 19. 60-28 | 20. 60-32 |
| 21. 60-33 | 22. 60-35 | 23. 60-36 | 24. 60-41 |
| 25. 60-45 | 26. 60-53 | 27. 60-66 | 28. 60-67 |
| 29. 60-68 | 30. 60-69 | 31. 60-70 | 32. 60-71 |
| 33. 60-72 | 34. 60-75 | 35. 60-76 | 36. 60-79 |
| 37. 60-84 | 38. 60-85 | 39. 60-86 | 40. 60-87 |
| 41. 60-99 | 42. 60-111 | | |

Buildings removed:

- | | | |
|----------|----------|----------|
| 1. 60-42 | 2. 60-42 | 3. 60-88 |
| 4. 60-89 | 5. 60-90 | |

Discharges to the sanitary sewer:

- | | | |
|----------------|----------------|----------------|
| 1. 60-1-OPN-1 | 2. 60-2-OPN-1 | 3. 60-4-OPN-1 |
| 4. 60-6-OPN-1 | 5. 60-17-OPN-1 | 6. 60-19-OPN-1 |
| 7. 60-91-OPN-1 | | |

Discharges from the fire water system:

- | | | |
|------------------|-----------------|-----------------|
| 1. 60-1-OPN-2 | 2. 60-1-OPN-12 | 3. 60-2-OPN-5 |
| 4. 60-2-OPN-6 | 5. 60-2-OPN-7 | 6. 60-17-OPN-17 |
| 7. 60-17-OPN-18 | 8. 60-19-OPN-8 | 9. 60-19-OPN-9 |
| 10. 60-19-OPN-10 | 11. 60-91-OPN-3 | |

Vapor vents:

- | | | |
|----------------|----------------|-----------------|
| 1. 60-2-OPN-3 | 2. 60-2-OPN-4 | 3. 60-17-OPN-11 |
| 4. 60-19-OPN-3 | 5. 60-19-OPN-4 | 6. 60-19-OPN-6 |

Back flow preventer drain:

1. 60-29-OPN-2

Storm water discharges:

- | | | |
|------------------|------------------|------------------|
| 1. 60-1-OPN-3 | 2. 60-1-OPN-4 | 3. 60-1-OPN-5 |
| 4. 60-1-OPN-6 | 5. 60-1-OPN-7 | 6. 60-1-OPN-8 |
| 7. 60-1-OPN-9 | 8. 60-1-OPN-11 | 9. 60-2-OPN-2 |
| 10. 60-2-OPN-8 | 11. 60-2-OPN-9 | 12. 60-2-OPN-10 |
| 13. 60-2-OPN-11 | 14. 60-2-OPN-12 | 15. 60-2-OPN-13 |
| 16. 60-2-OPN-14 | 17. 60-2-OPN-15 | 18. 60-17-OPN-2 |
| 19. 60-17-OPN-3 | 20. 60-17-OPN-4 | 21. 60-17-OPN-5 |
| 22. 60-17-OPN-6 | 23. 60-17-OPN-7 | 24. 60-17-OPN-8 |
| 25. 60-17-OPN-9 | 26. 60-17-OPN-10 | 27. 60-17-OPN-12 |
| 28. 60-17-OPN-13 | 29. 60-17-OPN-14 | 30. 60-17-OPN-15 |
| 31. 60-17-OPN-16 | 32. 60-19-OPN-2 | 33. 60-19-OPN-5 |
| 34. 60-19-OPN-7 | 35. 60-29-OPN-1 | 36. 60-29-OPN-3 |
| 37. 60-91-OPN-2 | 38. 60-91-OPN-4 | 39. 60-91-OPN-5 |

Air compressor drains:

1. 60-1-OPN-10
2. 60-14-OPN-1

Recommended permitting and corrective actions are outlined in Tables 2 through 11 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:
SUMMARY OF
ABBREVIATIONS**

ABBREVIATION	MEANING
AD	Area Drain
FD	Floor Drain
LV	Lavatory
RD	Roof Drain
SD	Sink
SH	Safety Shower
ST	Sand Trap
TD	Trench Drain
TL	Toilet
UR	Urinal
WF	Water Fountain

TABLE 2: TA 60-1 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	RECOMMENDATIONS	EPA FORM PREPARED
60-1-OPN-1 SANITARY SEWER	1FD1	VEHICLE REPAIR	134	OIL INTERCEPTOR	NO
	1FD2	VEHICLE REPAIR	134	OIL INTERCEPTOR	
	1FD3	VEHICLE REPAIR	134	OIL INTERCEPTOR	
	1FD4	VEHICLE REPAIR	134	OIL INTERCEPTOR	
	1FD5	VEHICLE REPAIR	134	OIL INTERCEPTOR	
	1FD6	VEHICLE REPAIR	134	OIL INTERCEPTOR	
	1FD7	VEHICLE REPAIR	134	OIL INTERCEPTOR	
	1FD8	REST ROOM	112	NO CHANGE	
	1FD9	REST ROOM	118	NO CHANGE	
	1FD10	REST ROOM	117	NO CHANGE	
	1FD11	REST ROOM	116	NO CHANGE	
	1FD12	REST ROOM	119	NO CHANGE	
	1FD13	HVY EQUIP REPAIR	122	OIL INTERCEPTOR	
	1FD14	HVY EQUIP REPAIR	122	OIL INTERCEPTOR	
	1FD15	HVY EQUIP REPAIR	122	OIL INTERCEPTOR	
	1FD16	STORAGE	122A	PLUG	
	1FD17	HVY EQUIP REPAIR	122	OIL INTERCEPTOR	
	1FD18	HVY EQUIP REPAIR	122	OIL INTERCEPTOR	
	1FD19	HVY EQUIP REPAIR	122	OIL INTERCEPTOR	
	1FD20	STORAGE	122B	PLUG	
	1FD21	STORAGE	122C	PLUG	
	1FD22	HVY EQUIP REPAIR	122	OIL INTERCEPTOR	
	1FD23	HVY EQUIP REPAIR	122	OIL INTERCEPTOR	
	1LV1	REST ROOM	112	NO CHANGE	
	1LV2	REST ROOM	112	NO CHANGE	
	1LV3	REST ROOM	116	NO CHANGE	
	1LV4	REST ROOM	116	NO CHANGE	
	1LV5	REST ROOM	116	NO CHANGE	
	1LV6	REST ROOM	116	NO CHANGE	
	1SD1	KITCHEN	105	LABEL	
	1SD2	JANITOR'S CLOSET	119	LABEL	
	1SH1	VEHICLE REPAIR	134	NO CHANGE	
	1SH2	VEHICLE REPAIR	134	NO CHANGE	
	1SH3	HVY EQUIP REPAIR	122	NO CHANGE	
1ST1	VEHICLE REPAIR	134	CLEAN		
1ST2	HVY EQUIP REPAIR	122	CLEAN		

TABLE 2: TA 60-1 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	RECOMMENDATIONS	EPA FORM PREPARED
60-1-OPN-1 (CONT)	1ST3	HVY EQUIP REPAIR	122	CLEAN	
	1ST4	HVY EQUIP REPAIR	122	CLEAN	
	1TD1	HVY EQUIP REPAIR	122	OIL INTERCEPTOR	
	1TD2	HVY EQUIP REPAIR	122	OIL INTERCEPTOR	
	1TD3	HVY EQUIP REPAIR	122	OIL INTERCEPTOR	
	1TD4	HVY EQUIP REPAIR	122	OIL INTERCEPTOR	
	1TL1	REST ROOM	112	NO CHANGE	
	1TL2	REST ROOM	112	NO CHANGE	
	1TL3	REST ROOM	118	NO CHANGE	
	1TL4	REST ROOM	118	NO CHANGE	
	1TL5	REST ROOM	118	NO CHANGE	
	1TL6	REST ROOM	118	NO CHANGE	
	1UR1	REST ROOM	118	NO CHANGE	
	1UR2	REST ROOM	118	NO CHANGE	
	1UR3	REST ROOM	118	NO CHANGE	
	1UR4	REST ROOM	118	NO CHANGE	
	1UR5	REST ROOM	118	NO CHANGE	
1UR6	REST ROOM	118	NO CHANGE		
1WF1	HALLWAY	110	NO CHANGE		
60-1-OPN-2	N/A	FIRE WATER	N/A	NOI	NO
60-1-OPN-3	N/A	STORM WATER	EXT	NO CHANGE	NO
60-1-OPN-4	N/A	STORM WATER	EXT	NO CHANGE	NO
60-1-OPN-5	N/A	STORM WATER	EXT	NO CHANGE	NO
60-1-OPN-6	N/A	STORM WATER	EXT	NO CHANGE	NO
60-1-OPN-7	N/A	STORM WATER	EXT	NO CHANGE	NO
60-1-OPN-8	N/A	STORM WATER	EXT	NO CHANGE	NO
60-1-OPN-9	N/A	STORM WATER	EXT	NO CHANGE	NO
60-1-OPN-10	N/A	AIR COMPRESSOR	N/A	CONTAIN	NO
60-1-OPN-11	N/A	STORM WATER	EXT	NO CHANGE	NO
60-1-OPN-12	N/A	FIRE WATER	N/A	NOI	NO

TABLE 3: TA 60-2 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	RECOMMENDATIONS	EPA FORM PREPARED
60-2-OPN-1 SANITARY SEWER	1AD1	LOADING DOCK	EXT	REPIPE	NO
	1AD2	LOADING DOCK	EXT	REPIPE	
	1AD3	LOADING DOCK	EXT	REPIPE	
	1AD4	LOADING DOCK	EXT	REPIPE	
	1FD1	WAREHOUSE	130	PLUG	
	1FD2	WAREHOUSE	130B	PLUG	
	1FD3	WAREHOUSE	130B	PLUG	
	1FD4	WAREHOUSE	130B	PLUG	
	1FD5	REST ROOM	107	NO CHANGE	
	1FD6	REST ROOM	110	NO CHANGE	
	1LV1	REST ROOM	107	NO CHANGE	
	1LV2	REST ROOM	107	NO CHANGE	
	1LV3	REST ROOM	110	NO CHANGE	
	1LV4	REST ROOM	110	NO CHANGE	
	1LV5	REST ROOM	130F	NO CHANGE	
	1SD1	JANITOR'S CLOSET	108	LABEL	
	1SD2	KITCHEN	123	LABEL	
	1TL1	REST ROOM	107	NO CHANGE	
	1TL2	REST ROOM	107	NO CHANGE	
	1TL3	REST ROOM	110	NO CHANGE	
	1TL4	REST ROOM	110	NO CHANGE	
	1TL5	REST ROOM	110	NO CHANGE	
	1TL6	REST ROOM	130F	NO CHANGE	
	1UR1	REST ROOM	107	NO CHANGE	
	1WF1	BREAK ROOM	130C	NO CHANGE	
	1WF2	HALLWAY	111	NO CHANGE	
	1WF3	WAREHOUSE	130	NO CHANGE	
60-2-OPN-2	N/A	STORM WATER	EXT	NO CHANGE	NO
60-2-OPN-3	N/A	BOILER VENT	N/A	NO CHANGE	NO
60-2-OPN-4	N/A	BOILER VENT	N/A	NO CHANGE	NO
60-2-OPN-5	N/A	FIRE WATER	N/A	NOI	NO
60-2-OPN-6	N/A	FIRE WATER	N/A	NOI	NO
60-2-OPN-7	N/A	FIRE WATER	N/A	NOI	NO
60-2-OPN-8	N/A	STORM WATER	EXT	NO CHANGE	NO
60-2-OPN-9	N/A	STORM WATER	EXT	NO CHANGE	NO

TABLE 3: TA 60-2 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	RECOMMENDATIONS	EPA FORM PREPARED
60-2-OPN-10	N/A	STORM WATER	EXT	NO CHANGE	NO
60-2-OPN-11	N/A	STORM WATER	EXT	NO CHANGE	NO
60-2-OPN-12	N/A	STORM WATER	EXT	NO CHANGE	NO
60-2-OPN-13	N/A	STORM WATER	EXT	NO CHANGE	NO
60-2-OPN-14	N/A	STORM WATER	EXT	NO CHANGE	NO
60-2-OPN-15	N/A	STORM WATER	EXT	NO CHANGE	NO

TABLE 4: TA 60-4 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	RECOMMENDATIONS	EPA FORM PREPARED
60-4-OPN-1 SANITARY SEWER	1LV1	REST ROOM	108A	NO CHANGE	NO
	1LV2	REST ROOM	106	NO CHANGE	
	1TL1	REST ROOM	108A	NO CHANGE	
	1TL2	REST ROOM	106	NO CHANGE	

TABLE 5: TA 60-6 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	RECOMMENDATIONS	EPA FORM PREPARED
60-6-OPN-1 SANITARY SEWER	1LV1	REST ROOM	N/A	NO CHANGE	NO
	1TL1	REST ROOM	N/A	NO CHANGE	

TABLE 6: TA 60-14 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	RECOMMENDATIONS	EPA FORM PREPARED
60-14-OPN-1 DAYLIGHT	N/A	AIR COMPRESSOR	N/A	CONTAIN	NO

TABLE 7: TA 60-17 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	RECOMMENDATIONS	EPA FORM PREPARED
60-17-OPN-1 SANITARY SEWER	1FD1	ASSEMBLY BAY	N/A	PLUG	NO
	1FD2	ASSEMBLY BAY	N/A	NO CHANGE	
	1FD3	HALLWAY	N/A	PLUG	
	1FD4	REST ROOM	105	NO CHANGE	
	1FD5	REST ROOM	104	NO CHANGE	
	1FD6	EQUIPMENT ROOM	N/A	NO CHANGE	
	1FD7	EQUIPMENT ROOM	N/A	NO CHANGE	
	1LV1	REST ROOM	105	NO CHANGE	
	1LV2	REST ROOM	104	NO CHANGE	
	1SD1	JANITOR'S CLOSET	103	LABEL	
	1SD2	PAINTING AREA	N/A	LABEL	
	1SD3	ASSEMBLY BAY	N/A	LABEL	
	1TL1	REST ROOM	105	NO CHANGE	
	1TL2	REST ROOM	104	NO CHANGE	
	1WF1	HALLWAY	N/A	NO CHANGE	
2SD1	KITCHEN	200	NO CHANGE		
60-17-OPN-2	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-3	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-4	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-5	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-6	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-7	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-8	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-9	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-10	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-11	N/A	EXHAUST FAN	EXT	NO CHANGE	NO
60-17-OPN-12	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-13	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-14	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-15	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-16	N/A	STORM WATER	EXT	NO CHANGE	NO
60-17-OPN-17	N/A	FIRE WATER	N/A	NOI	NO
60-17-OPN-18	N/A	FIRE WATER	N/A	NOI	NO

TABLE 8: TA 60-19 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	RECOMMENDATIONS	EPA FORM PREPARED
60-19-OPN-1 SANITARY SEWER	1FD1	ASSEMBLY AREA	106	PLUG	NO
	1FD2	ASSEMBLY AREA	103	PLUG	
	1FD3	REST ROOM	102	NO CHANGE	
	1FD4	REST ROOM	101	NO CHANGE	
	1FD5	ASSEMBLY AREA	103	PLUG	
	1FD6	EQUIPMENT ROOM	107	NO CHANGE	
	1LV1	REST ROOM	102	NO CHANGE	
	1LV2	REST ROOM	102	NO CHANGE	
	1LV3	REST ROOM	101	NO CHANGE	
	1SD1	JANITOR'S CLOSET	104	LABEL	
	1SD2	OFFICE	100	LABEL	
	1TL1	REST ROOM	102	NO CHANGE	
	1TL2	REST ROOM	101	NO CHANGE	
	1UR1	REST ROOM	101	NO CHANGE	
	1WF1	ASSEMBLY AREA	103	NO CHANGE	
60-19-OPN-2	RD1	ROOF	EXT	NO CHANGE	NO
	RD2	ROOF	EXT	NO CHANGE	
60-19-OPN-3	N/A	EXHAUST FAN	N/A	NO CHANGE	NO
60-19-OPN-4	N/A	EXHAUST FAN	N/A	NO CHANGE	NO
60-19-OPN-5	N/A	STORM WATER	EXT	NO CHANGE	NO
60-19-OPN-6	N/A	EXHAUST FAN	N/A	NO CHANGE	NO
60-19-OPN-7	N/A	STORM WATER	EXT	NO CHANGE	NO
60-19-OPN-8	N/A	FIRE WATER	N/A	NOI	NO
60-19-OPN-9	N/A	FIRE WATER	N/A	NOI	NO
60-19-OPN-10	N/A	FIRE WATER	N/A	NOI	NO

TABLE 9: TA 60-29 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	RECOMMENDATIONS	EPA FORM PREPARED
60-29-OPN-1	N/A	STORM WATER	EXT	NO CHANGE	NO
60-29-OPN-2	N/A	BACK FLOW PREV	N/A	NOI	NO
60-29-OPN-3	N/A	STORM WATER	EXT	NO CHANGE	NO

TABLE 10: TA 60-91 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	RECOMMENDATIONS	EPA FORM PREPARED
60-91-OPN-1 SANITARY SEWER	1FD1	EQUIPMENT ROOM	110	NO CHANGE	NO
	1LV1	REST ROOM	103	NO CHANGE	
	1LV2	REST ROOM	103	NO CHANGE	
	1LV3	REST ROOM	102	NO CHANGE	
	1SD1	JANITOR'S CLOSET	104	LABEL	
	1SD2	OFFICE	105	LABEL	
	1TD1	GARAGE		CHECK OIL INT	
	1TL1	REST ROOM	103	NO CHANGE	
	1TL2	REST ROOM	102	NO CHANGE	
	1UR1	REST ROOM	103	NO CHANGE	
	1UR2	REST ROOM	103	NO CHANGE	
60-91-OPN-2	N/A	STORM WATER	EXT	NO CHANGE	NO
60-91-OPN-3	N/A	FIRE WATER	N/A	NOI	NO
60-91-OPN-4	N/A	STORM WATER	EXT	NO CHANGE	NO
60-91-OPN-5	N/A	STORM WATER	EXT	NO CHANGE	NO

TABLE 11

NON DRAIN RECOMMENDATIONS

TECHNICAL AREA	BUILDING NUMBER	ROOM OR LOCATION	RECOMMENDATION
60	1	BAYS	INSTALL OIL INTERCEPTORS
60	17	SEPTIC SYSTEM	DECOMMISSION SEPTIC SYSTEM SF 89035R

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
60	1	60-1-OPN-01	01S/SWSC	1FD01	134	VEHICLE REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD02	134	VEHICLE REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD03	134	VEHICLE REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD04	134	VEHICLE REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD05	134	VEHICLE REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD06	134	VEHICLE REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD07	134	VEHICLE REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD08	112	REST ROOM		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD09	118	REST ROOM		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD10	117	REST ROOM		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD11	116	REST ROOM		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD12	119	REST ROOM		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD13	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD14	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD15	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD16	122A	STORAGE		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD17	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD18	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD19	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD20	122B	STORAGE		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD21	122C	STORAGE		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD22	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1FD23	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1LV1	112	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1LV2	112	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1LV3	116	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1LV4	116	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1LV5	116	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1LV6	116	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1SD1	105	KITCHEN		5 DAYS PER WEEK	No	DISH WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1SD2	119	JANITOR'S CLOSET		5 DAYS PER WEEK	No	MOP WATER
60	1	60-1-OPN-01	01S/SWSC	1SH1	134	VEHICLE REPAIR		DURING EMERGENCI	No	SAFETY SHOWER
60	1	60-1-OPN-01	01S/SWSC	1SH2	134	VEHICLE REPAIR		DURING EMERGENCI	No	SAFETY SHOWER

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
60	1	60-1-OPN-01	01S/SWSC	1SH3	122	HEAVY EQUIPMENT REPAIR		DURING EMERGENCI	No	SAFETY SHOWER
60	1	60-1-OPN-01	01S/SWSC	1ST1	134	VEHICLE REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1ST2	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1ST3	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1ST4	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1TD1	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1TD2	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1TD3	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1TD4	122	HEAVY EQUIPMENT REPAIR		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	1	60-1-OPN-01	01S/SWSC	1TL1	112	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	1	60-1-OPN-01	01S/SWSC	1TL2	112	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	1	60-1-OPN-01	01S/SWSC	1TL3	118	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	1	60-1-OPN-01	01S/SWSC	1TL4	118	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	1	60-1-OPN-01	01S/SWSC	1TL5	118	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	1	60-1-OPN-01	01S/SWSC	1TL6	118	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	1	60-1-OPN-01	01S/SWSC	1UR1	118	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	1	60-1-OPN-01	01S/SWSC	1UR2	118	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	1	60-1-OPN-01	01S/SWSC	1UR3	118	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	1	60-1-OPN-01	01S/SWSC	1UR4	118	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	1	60-1-OPN-01	01S/SWSC	1UR5	118	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	1	60-1-OPN-01	01S/SWSC	1UR6	118	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	1	60-1-OPN-01	01S/SWSC	1WF1	110	HALLWAY		5 DAYS PER WEEK	No	DRINKING WATER
60	1	60-1-OPN-02	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN		ANNUAL TESTING	No	FIRE WATER
60	1	60-1-OPN-03	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMERS	Yes	STORM WATER
60	1	60-1-OPN-04	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMERS	Yes	STORM WATER
60	1	60-1-OPN-05	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMERS	Yes	STORM WATER
60	1	60-1-OPN-06	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMERS	Yes	STORM WATER
60	1	60-1-OPN-07	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMERS	Yes	STORM WATER
60	1	60-1-OPN-08	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMERS	Yes	STORM WATER
60	1	60-1-OPN-09	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMERS	Yes	STORM WATER
60	1	60-1-OPN-10	DAYLIGHT	N/A	N/A	AIR COMPRESSOR DRAIN		5 DAYS PER WEEK	No	OIL AND WATER
60	1	60-1-OPN-11	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMERS	Yes	STORM WATER
60	1	60-1-OPN-12	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN		ANNUAL TESTING	No	FIRE WATER

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
60	2	60-2-OPN-01	01S/SWSC	1AD1	N/A	LOADING DOCK		MOSTLY SUMMER	Yes	STORM WATER
60	2	60-2-OPN-01	01S/SWSC	1AD2	N/A	LOADING DOCK		MOSTLY SUMMER	Yes	STORM WATER
60	2	60-2-OPN-01	01S/SWSC	1AD3	N/A	LOADING DOCK		MOSTLY SUMMER	Yes	STORM WATER
60	2	60-2-OPN-01	01S/SWSC	1AD4	N/A	LOADING DOCK		MOSTLY SUMMER	Yes	STORM WATER
60	2	60-2-OPN-01	01S/SWSC	1FD1	130	WAREHOUSE		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	2	60-2-OPN-01	01S/SWSC	1FD2	130B	WAREHOUSE		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	2	60-2-OPN-01	01S/SWSC	1FD3	130B	WAREHOUSE		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	2	60-2-OPN-01	01S/SWSC	1FD4	130B	WAREHOUSE		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	2	60-2-OPN-01	01S/SWSC	1FD5	107	REST ROOM		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	2	60-2-OPN-01	01S/SWSC	1FD6	110	REST ROOM		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	2	60-2-OPN-01	01S/SWSC	1LV1	107	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	2	60-2-OPN-01	01S/SWSC	1LV2	107	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	2	60-2-OPN-01	01S/SWSC	1LV3	110	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	2	60-2-OPN-01	01S/SWSC	1LV4	110	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	2	60-2-OPN-01	01S/SWSC	1LV5	110	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	2	60-2-OPN-01	01S/SWSC	1SD1	108	JANITOR'S CLOSET		5 DAYS PER WEEK	No	MOP WATER
60	2	60-2-OPN-01	01S/SWSC	1SD2	123	KITCHEN		5 DAYS PER WEEK	No	DISH WASHINGS
60	2	60-2-OPN-01	01S/SWSC	1TL1	107	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	2	60-2-OPN-01	01S/SWSC	1TL2	107	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	2	60-2-OPN-01	01S/SWSC	1TL3	130F	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	2	60-2-OPN-01	01S/SWSC	1TL3	110	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	2	60-2-OPN-01	01S/SWSC	1TL4	110	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	2	60-2-OPN-01	01S/SWSC	1TL5	110	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	2	60-2-OPN-01	01S/SWSC	1UR1	107	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	2	60-2-OPN-01	01S/SWSC	1WF1	130C	BREAK ROOM		5 DAYS PER WEEK	No	DRINKING WATER
60	2	60-2-OPN-01	01S/SWSC	1WF2	111	HALLWAY		5 DAYS PER WEEK	No	DRINKING WATER
60	2	60-2-OPN-01	01S/SWSC	1WF3	130	WAREHOUSE		5 DAYS PER WEEK	No	DRINKING WATER
60	2	60-2-OPN-02	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	2	60-2-OPN-03	ATMOSPHERE	N/A	N/A	BOILER VENT		NO LIQUID	No	VAPOR
60	2	60-2-OPN-04	ATMOSPHERE	N/A	N/A	BOILER VENT		NO LIQUID	No	VAPOR
60	2	60-2-OPN-05	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN		ANNUAL TESTING	No	FIRE WATER
60	2	60-2-OPN-06	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN		ANNUAL TESTING	No	FIRE WATER
60	2	60-2-OPN-07	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN		ANNUAL TESTING	No	FIRE WATER

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
60	2	60-2-OPN-08	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	2	60-2-OPN-09	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	2	60-2-OPN-10	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	2	60-2-OPN-11	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	2	60-2-OPN-12	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	2	60-2-OPN-13	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	2	60-2-OPN-14	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	2	60-2-OPN-15	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	3	60-3	ND	N/A	N/A	STORAGE SHED		NO DRAINS	No	NONE
60	4	60-4-OPN-1	01S/SWSC	1LV1	108A	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	4	60-4-OPN-1	01S/SWSC	1LV2	106	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	4	60-4-OPN-1	01S/SWSC	1TL1	108A	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	4	60-4-OPN-1	01S/SWSC	1TL2	106	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	6	60-6-OPN-1	01S/SWSC	1LV1	N/A	REST ROOM		5 DAYS PER WEEK	No	HAND WASHING
60	6	60-6-OPN-1	01S/SWSC	1TL1	N/A	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	7	60-7	ND	N/A	N/A	OFFICE TRAILER		NO DRAINS	No	NONE
60	8	60-8	ND	N/A	N/A	OFFICE TRAILER		NO DRAINS	No	NONE
60	9	60-9	ND	N/A	N/A	OFFICE TRAILER		NO DRAINS	No	NONE
60	10	60-10	ND	N/A	N/A	STORAGE SHED		NO DRAINS	No	NONE
60	11	60-11	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	12	60-12	ND	N/A	N/A	STORAGE SHED		NO DRAINS	No	NONE
60	13	60-13	ND	N/A	N/A	FUEL PUMPING STATION		NO DRAINS	No	NONE
60	14	60-14-OPN-1	DAYLIGHT	N/A	N/A	AIR COMPRESSOR SHED		5 DAYS PER WEEK	No	OIL AND WATER FROM COMPRESSOR
60	15	60-15	ND	N/A	N/A	STORAGE SHED		NO DRAINS	No	NONE
60	17	60-17-OPN-01	01S/SWSC	1FD1	N/A	ASSEMBLY BAY		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	17	60-17-OPN-01	01S/SWSC	1FD2	N/A	ASSEMBLY BAY		DURING EMERGENCI	No	SAFETY SHOWER
60	17	60-17-OPN-01	01S/SWSC	1FD3	N/A	HALLWAY		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	17	60-17-OPN-01	01S/SWSC	1FD4	105	REST ROOM		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	17	60-17-OPN-01	01S/SWSC	1FD5	104	REST ROOM		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	17	60-17-OPN-01	01S/SWSC	1FD6	N/A	EQUIPMENT ROOM		5 DAYS PER WEEK	No	BACK FLOW PREVENTER
60	17	60-17-OPN-01	01S/SWSC	1FD7	N/A	EQUIPMENT ROOM		5 DAYS PER WEEK	No	HOT WATER HEATER
60	17	60-17-OPN-01	01S/SWSC	1LV1	N/A	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	17	60-17-OPN-01	01S/SWSC	1LV2	N/A	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
60	17	60-17-OPN-01	01S/SWSC	1SD1	103	JANITOR'S CLOSET		5 DAYS PER WEEK	No	MOP WATER
60	17	60-17-OPN-01	01S/SWSC	1SD2	N/A	PAINTING BAY		5 DAYS PER WEEK	No	HAND WASHINGS
60	17	60-17-OPN-01	01S/SWSC	1SD3	N/A	ASSEMBLY BAY		5 DAYS PER WEEK	No	HAND WASHING
60	17	60-17-OPN-01	01S/SWSC	1TL1	105	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	17	60-17-OPN-01	01S/SWSC	1TL2	104	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	17	60-17-OPN-01	01S/SWSC	1WF1	N/A	HALLWAY		5 DAYS PER WEEK	No	DRINKING WATER
60	17	60-17-OPN-01	01S/SWSC	2SD1	200	KITCHEN		5 DAYS PER WEEK	No	DISH WASHINGS
60	17	60-17-OPN-02	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-03	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-04	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-05	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-06	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-07	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-08	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-09	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-10	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-11	ATMOSPHERE	N/A	N/A	EXHAUST FAN		NO LIQUIDS	No	VAPORS
60	17	60-17-OPN-12	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-13	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-14	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-15	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-16	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLY SUMMER	Yes	STORM WATER
60	17	60-17-OPN-17	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN		ANNUAL TESTING	No	FIRE WATER
60	17	60-17-OPN-18	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN		ANNUAL TESTING	No	FIRE WATER
60	18	60-18	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	19	60-19-OPN-01	01S/SWSC	1FD1	106	ASSEMBLY AREA		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	19	60-19-OPN-01	01S/SWSC	1FD2	103	ASSEMBLY AREA		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	19	60-19-OPN-01	01S/SWSC	1FD3	102	REST ROOM		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	19	60-19-OPN-01	01S/SWSC	1FD4	101	REST ROOM		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	19	60-19-OPN-01	01S/SWSC	1FD5	103	ASSEMBLY AREA		5 DAYS PER WEEK	No	FLOOR WASHINGS
60	19	60-19-OPN-01	01S/SWSC	1FD6	107	EQUIPMENT ROOM		5 DAYS PER WEEK	No	BACK FLOW PREVENTER
60	19	60-19-OPN-01	01S/SWSC	1LV1	102	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	19	60-19-OPN-01	01S/SWSC	1LV2	102	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
60	19	60-19-OPN-01	01S/SWSC	1LV3	101	REST ROOM		5 DAYS PER WEEK	No	HAND WASHINGS
60	19	60-19-OPN-01	01S/SWSC	1SD1	104	JANITOR'S CLOSET		5 DAYS PER WEEK	No	MOP WATER
60	19	60-19-OPN-01	01S/SWSC	1SD2	100	OFFICE		5 DAYS PER WEEK	No	DISH WASHINGS
60	19	60-19-OPN-01	01S/SWSC	1TL1	102	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	19	60-19-OPN-01	01S/SWSC	1TL2	101	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	19	60-19-OPN-01	01S/SWSC	1UR1	101	REST ROOM		5 DAYS PER WEEK	No	SANITARY WASTE
60	19	60-19-OPN-01	01S/SWSC	1WF1	103	ASSEMBLY AREA		5 DAYS PER WEEK	No	DRINKING WATER
60	19	60-19-OPN-02	DAYLIGHT	RD1	ROOF	ROOF DRAIN		MOSTLYSUMMER	Yes	STORM WATER
60	19	60-19-OPN-02	DAYLIGHT	RD2	ROOF	ROOF DRAIN		MOSTLYSUMMER	Yes	STORM WATER
60	19	60-19-OPN-03	ATMOSPHERE	N/A	N/A	EXHAUST FAN		NO LIQUIDS	No	VAPORS
60	19	60-19-OPN-04	ATMOSPHERE	N/A	N/A	EXHAUST FAN		NO LIQUIDS	No	VAPORS
60	19	60-19-OPN-05	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLYSUMMER	Yes	STORM WATER
60	19	60-19-OPN-06	ATMOSPHERE	N/A	N/A	EXHAUST FAN		NO LIQUIDS	No	VAPORS
60	19	60-19-OPN-07	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLYSUMMER	Yes	STORM WATER
60	19	60-19-OPN-08	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN		ANNUAL TESTING	No	FIRE WATER
60	19	60-19-OPN-09	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN		ANNUAL TESTING	No	FIRE WATER
60	19	60-19-OPN-10	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN		ANNUAL TESTING	No	FIRE WATER
60	20	60-20	ND	N/A	N/A	OFFICE TRAILER		NO DRAINS	No	NONE
60	21	60-21	ND	N/A	N/A	TRANSPORTABLE OFFICE		NO DRAINS	No	NONE
60	22	60-22	ND	N/A	N/A	TRANSPORTABLE OFFICE		NO DRAINS	No	NONE
60	23	60-23	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	24	60-24	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	25	60-25	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	26	60-26	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	27	60-27	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	28	60-28	ND	N/A	N/A	STORAGE SHED		NO DRAINS	No	NONE
60	29	60-29-OPN-1	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLYSUMMER	Yes	FIRE WATER
60	29	60-29-OPN-2	DAYLIGHT	N/A	N/A	BACK FLOW PREVENTER		FLOW IS NIL	No	POTABLE WATER
60	29	60-29-OPN-3	DAYLIGHT	N/A	ROOF	ROOF DRAIN		MOSTLYSUMMER	Yes	FIRE WATER
60	32	60-32	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	33	60-33	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	35	60-35	ND	N/A	N/A	STORAGE SHED		NO DRAINS	No	NONE
60	36	60-36	ND	N/A	N/A	STORAGE SHED		NO DRAINS	No	NONE

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
60	41	60-41	ND	N/A	N/A	STORAGE BUILDING		NO DRAINS	No	NONE
60	42	60-42	N/A	N/A	N/A	STORAGE BUILDING		BUILDING REMOVED	No	NONE
60	43	60-43	N/A	N/A	N/A	STORAGE BUILDING		BUILDING REMOVED	No	NONE
60	45	60-45	ND	N/A	N/A	ELECTRICAL SHOP		NO DRAINS	No	NONE
60	53	60-53	ND	N/A	N/A	FOREMAN SHACK		NO DRAINS	No	NONE
60	66	60-66	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	67	60-67	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	68	60-68	ND	N/A	N/A	MORGAN SHED		NO DRAINS	No	NONE
60	69	60-69	ND	N/A	N/A	MORGAN SHED		NO DRAINS	No	NONE
60	70	60-70	ND	N/A	N/A	MORGAN SHED		NO DRAINS	No	NONE
60	71	60-71	ND	N/A	N/A	MORGAN SHED		NO DRAINS	No	NONE
60	72	60-72	ND	N/A	N/A	WOOD SHED		NO DRAINS	No	NONE
60	75	60-75	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	76	60-76	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	79	60-79	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	84	60-84	ND	N/A	N/A	TRANSPORTAINER		NO DRAINS	No	NONE
60	85	60-85	ND	N/A	N/A	TENSION SUPPORT BUILDIN		NO DRAINS	No	NONE
60	86	60-86	ND	N/A	N/A	SOCKET STORAGE BUILDIN		NO DRAINS	No	NONE
60	87	60-87	ND	N/A	N/A	STORAGE SHED		NO DRAINS	No	NONE
60	88	60-88	N/A	N/A	N/A	TRANSPORTAINER		BUILDING REMOVED	No	NONE
60	89	60-89	N/A	N/A	N/A	TRANSPORTAINER		BUILDING REMOVED	No	NONE
60	90	60-90	N/A	N/A	N/A	SEMI-TRAILER		BUILDING REMOVED	No	NONE
60	91	60-91-OPN-1	01S/SWSC	1FD1	110	EQUIPMENT ROOM		FLOW IS NIL	No	BACK FLOW PREVENTER
60	91	60-91-OPN-1	01S/SWSC	1LV1	103	REST ROOM		BUILDING IS NOT YE	No	HAND WASHINGS
60	91	60-91-OPN-1	01S/SWSC	1LV2	103	REST ROOM		BUILDING IS NOT YE	No	HAND WASHINGS
60	91	60-91-OPN-1	01S/SWSC	1LV3	102	REST ROOM		BUILDING IS NOT YE	No	HAND WASHINGS
60	91	60-91-OPN-1	01S/SWSC	1SD1	104	JANITOR'S CLOSET		BUILDING IS NOT YE	No	MOP WATER
60	91	60-91-OPN-1	01S/SWSC	1SD2	105	BREAK AREA		BUILDING IS NOT YE	No	DISH WASHINGS
60	91	60-91-OPN-1	01S/SWSC	1TD1	N/A	GARAGE		BUILDING IS NOT YE	No	FLOOR WASHINGS
60	91	60-91-OPN-1	01S/SWSC	1TL1	103	REST ROOM		BUILDING IS NOT YE	No	SANITARY WASTE
60	91	60-91-OPN-1	01S/SWSC	1TL2	102	REST ROOM		BUILDING IS NOT YE	No	SANITARY WASTE
60	91	60-91-OPN-1	01S/SWSC	1UR1	103	REST ROOM		BUILDING IS NOT YE	No	SANITARY WASTE
60	91	60-91-OPN-1	01S/SWSC	1UR2	103	REST ROOM		BUILDING IS NOT YE	No	SANITARY WASTE

REPORT #

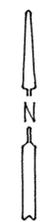
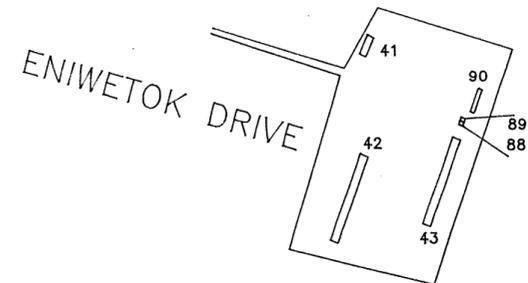
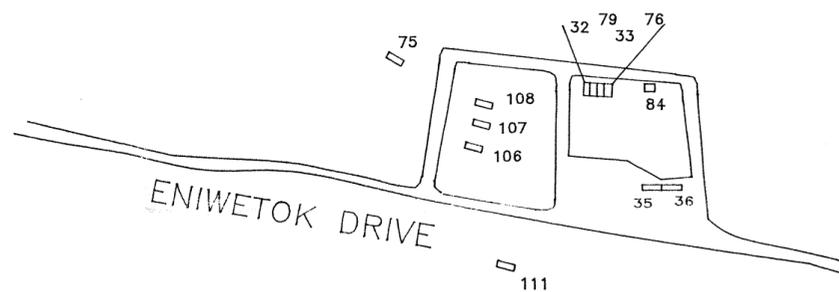
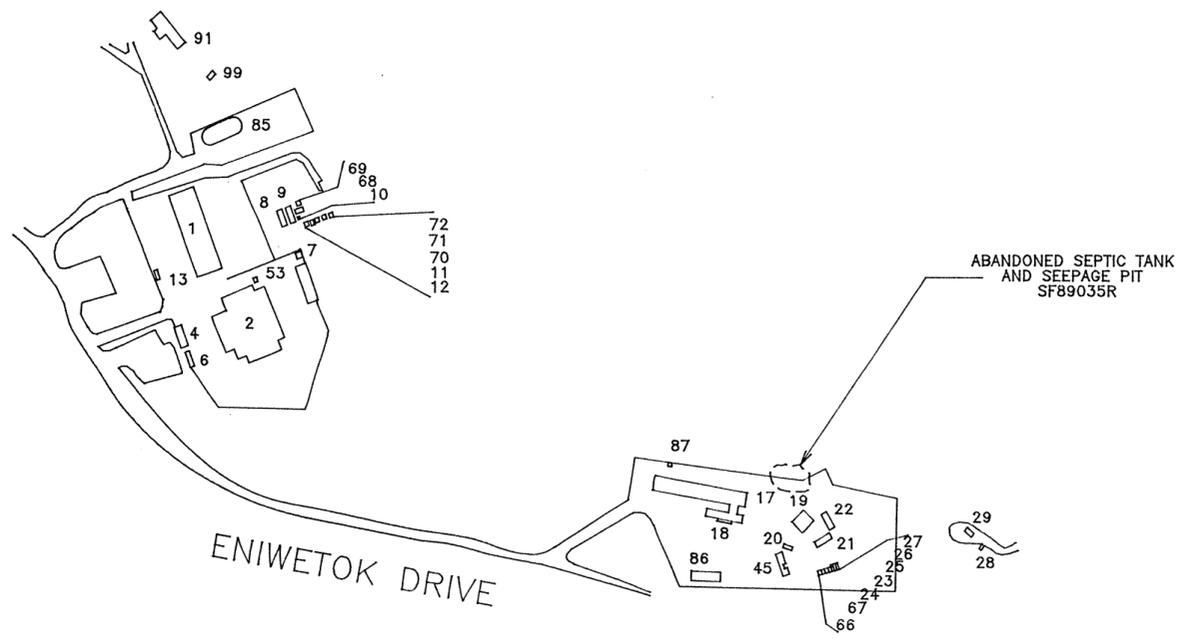
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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
60	91	60-91-OPN-2	DAYLIGHT	N/A	ROOF	ROOF DRAIN		BUILDING IS NOT YE	No	STORM WATER
60	91	60-91-OPN-3	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN		BUILDING IS NOT YE	No	FIRE WATER
60	91	60-91-OPN-4	DAYLIGHT	N/A	ROOF	ROOF DRAIN		BUILDING IS NOT YE	No	STORM WATER
60	91	60-91-OPN-5	DAYLIGHT	N/A	ROOF	ROOF DRAIN		BUILDING IS NOT YE	No	STORM WATER
60	99	60-99	ND	N/A	N/A	SHED		NO DRAINS	No	NONE
60	111	60-111	ND	N/A	N/A	TRAILER		NO DRAINS	No	NONE

NO EPA FORMS WERE PREPARED.

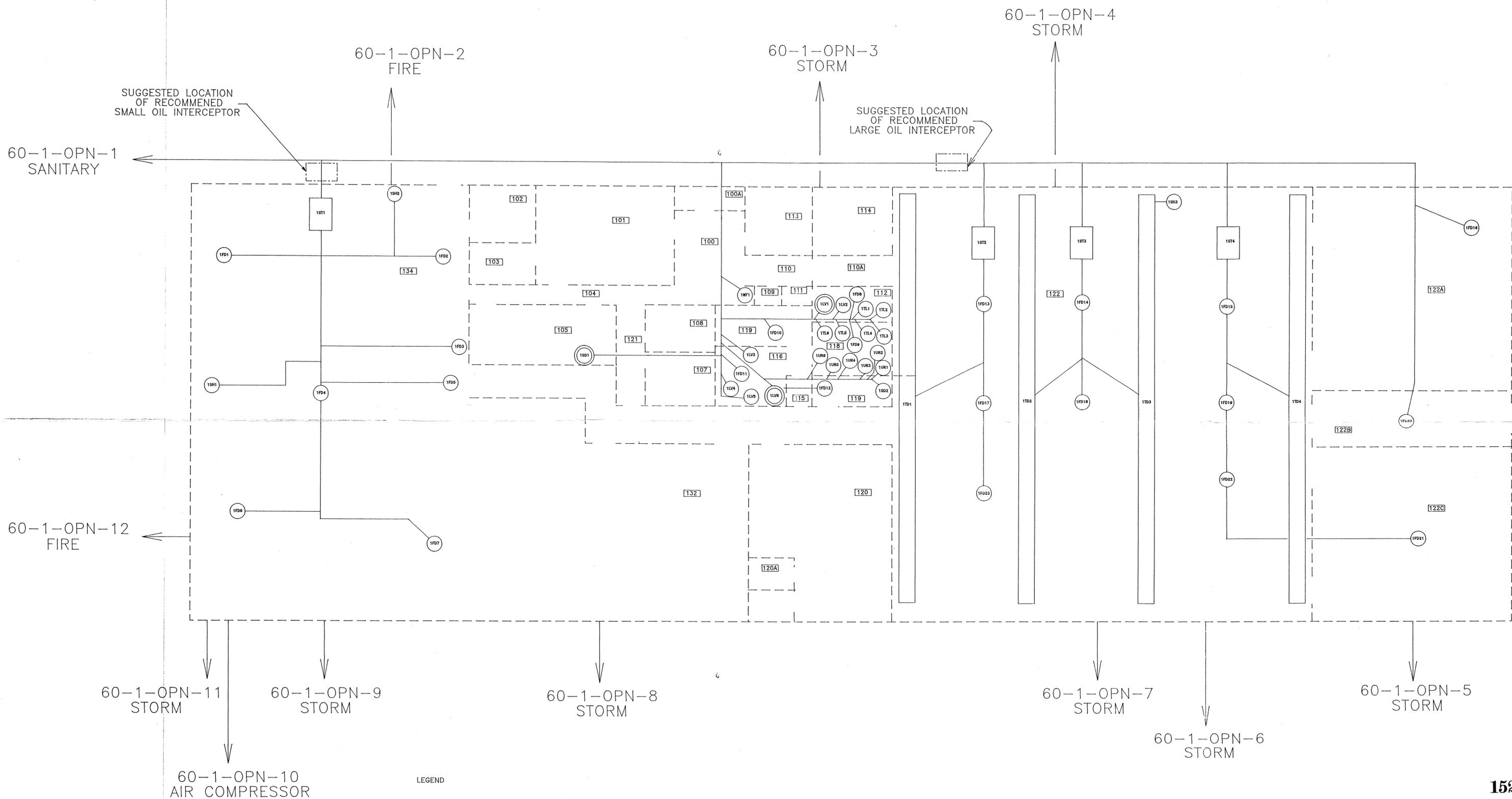
DYE STUDY INFORMATION

BUILDING NUMBER	DRAIN NUMBER	DID DYE REACH EXPECTED DESTINATION?	COMMENTS
60-1	1LV1	YES	TO SANITARY SEWER
	1LV6	YES	TO SANITARY SEWER
	1SD1	YES	TO SANITARY SEWER
	1SH2	YES	TO SANITARY SEWER
	1SH3	YES	TO SANITARY SEWER
60-2	1FD2	YES	TO SANITARY SEWER
	1LV1	YES	TO SANITARY SEWER
	1LV5	YES	TO SANITARY SEWER
	1SD2	YES	TO SANITARY SEWER
60-4	1LV1	YES	TO SANITARY SEWER
60-6	1LV1	YES	TO SANITARY SEWER
60-17	1LV1	YES	TO SANITARY SEWER
	1SD2	YES	TO SANITARY SEWER
	1SD3	YES	TO SANITARY SEWER
	1FD2	YES	TO SANITARY SEWER
60-19	1FD6	YES	TO SANITARY SEWER
	1LV2	YES	TO SANITARY SEWER
	1SD2	YES	TO SANITARY SEWER
60-91	1TD1	YES	TO SANITARY SEWER
	1TL1	YES	TO SANITARY SEWER



15293-A

SANTA FE ENGINEERING, LTD.			
TA-60 SITE PLAN		DRAWN	PEB
		DESIGN	PEB
		CHECKED	LBA
		DATE	2/1/93
SUBMITTED	RECOMMENDED	APPROVED	
Los Alamos		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-55	FIGURE 1	



SUGGESTED LOCATION OF RECOMMENDED SMALL OIL INTERCEPTOR

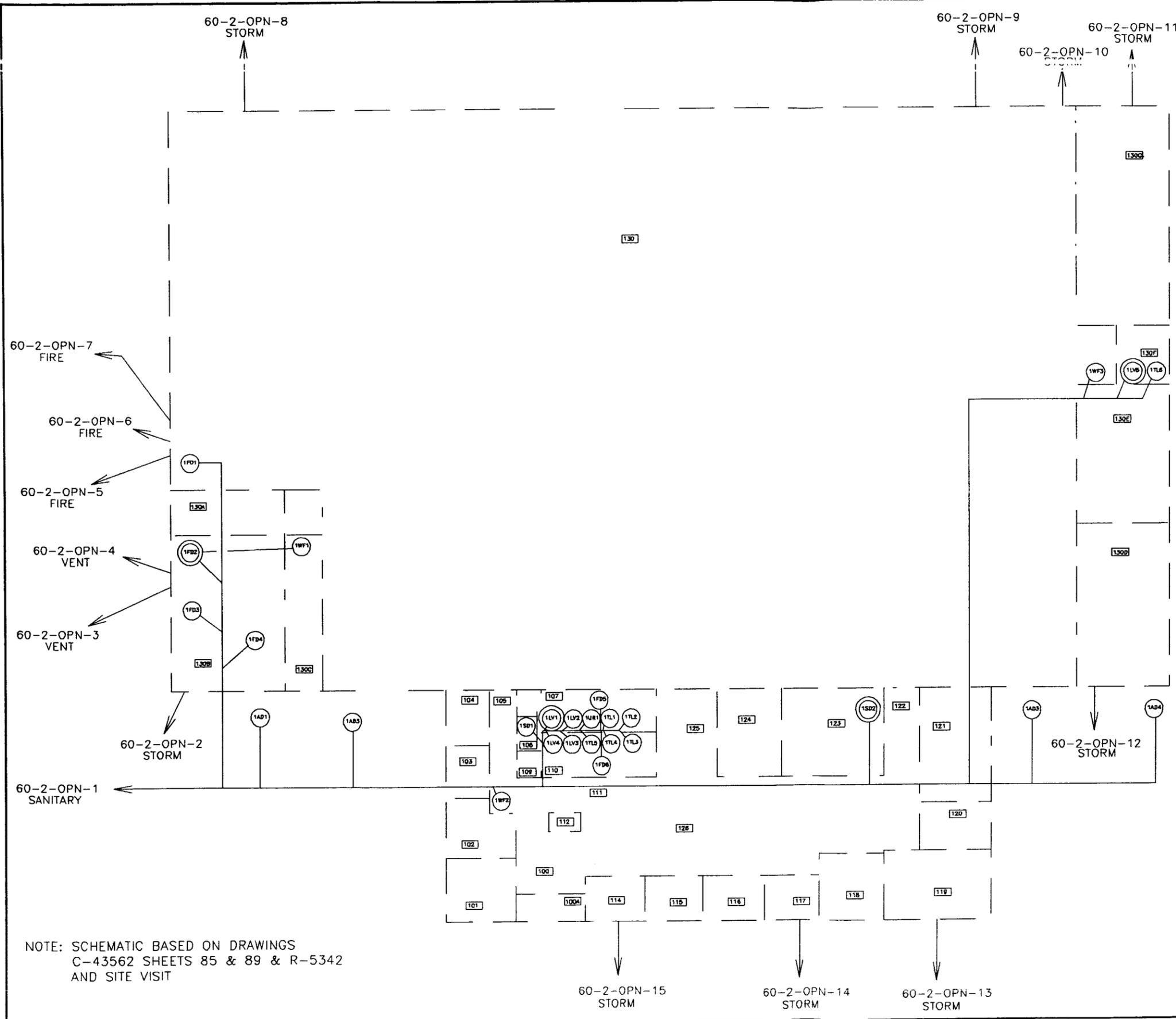
SUGGESTED LOCATION OF RECOMMENDED LARGE OIL INTERCEPTOR

- LEGEND
- FD - FLOOR DRAIN
 - LV - LAVATORY
 - SD - SINK
 - SH - SAFETY SHOWER
 - ST - SAND TRAP
 - TD - TRENCH DRAIN
 - TL - TOILET
 - UR - URINAL
 - (LW) - DYE TESTED DRAIN

NOTE: SCHEMATIC BASED ON DRAWINGS C-43562 SHEET 91 & R-5360 SHEET 1 AND SITE VISIT

15293-B

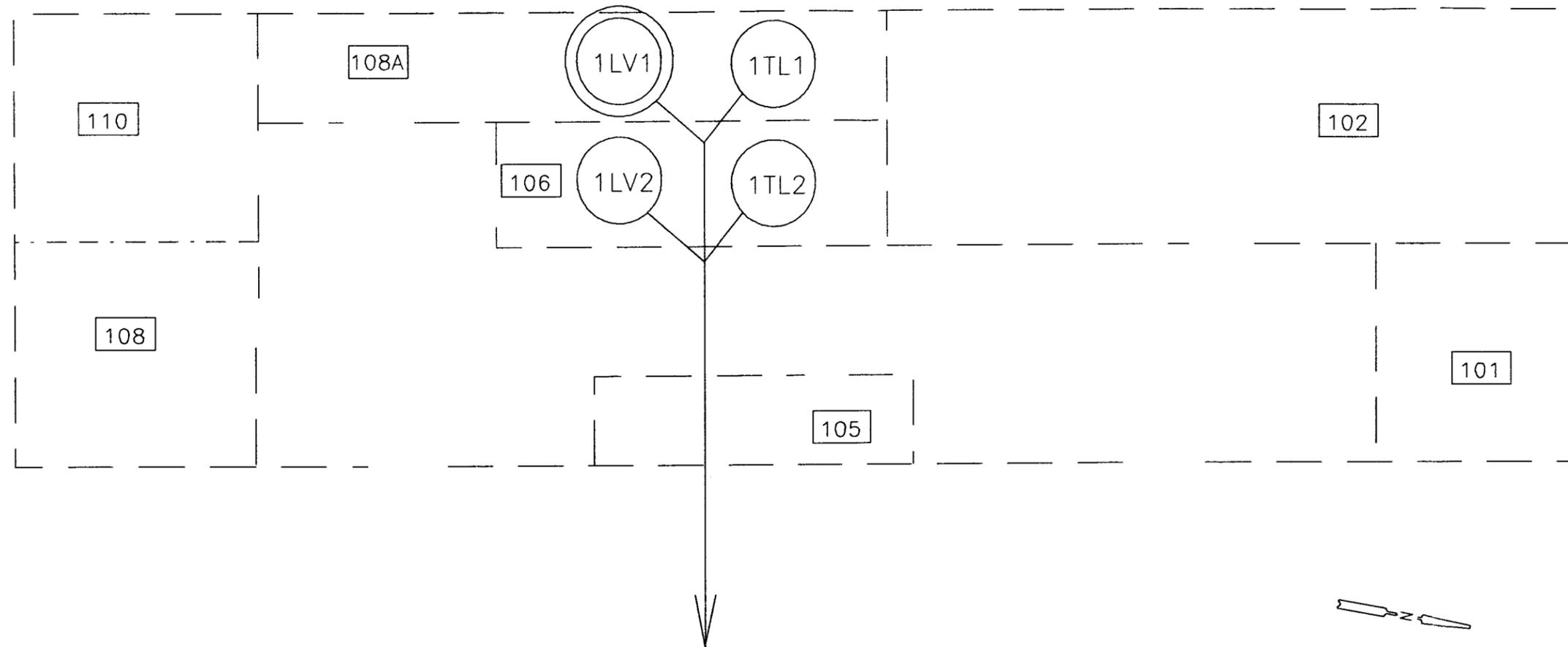
SANTA FE ENGINEERING, LTD.			
DRAWN	PEB	DESIGN	PEB
CHECKED	LBA	DATE	1/29/93
SUBMITTED		APPROVED	
Los Alamos		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	SHEET
REQUESTING GROUP	EM-6	11056-55	OF
		FIGURE 2	REV.



- LEGEND
- AD - AREA DRAIN
 - FD - FLOOR DRAIN
 - LV - LAVATORY
 - SD - SINK
 - TL - TOILET
 - UR - URINAL
 - WF - WATER FOUNTAIN
 - - DYE TESTED DRAIN

SANTA FE ENGINEERING, LTD.			
TA 60-2 BUILDING DRAIN SUMMARY		DRAWN	PEB
		DESIGN	PEB
		CHECKED	LBA
		RELEASED	
		DATE	1/25/93
SUBMITTED	RECOMMENDED	APPROVED	
Los Alamos		Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET OF
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-55	FIGURE 3	

NOTE: SCHEMATIC BASED ON DRAWINGS
C-43562 SHEETS 85 & 89 & R-5342
AND SITE VISIT

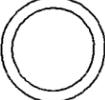


60-4-OPN-1
SANITARY

LEGEND

LV - LAVATORY

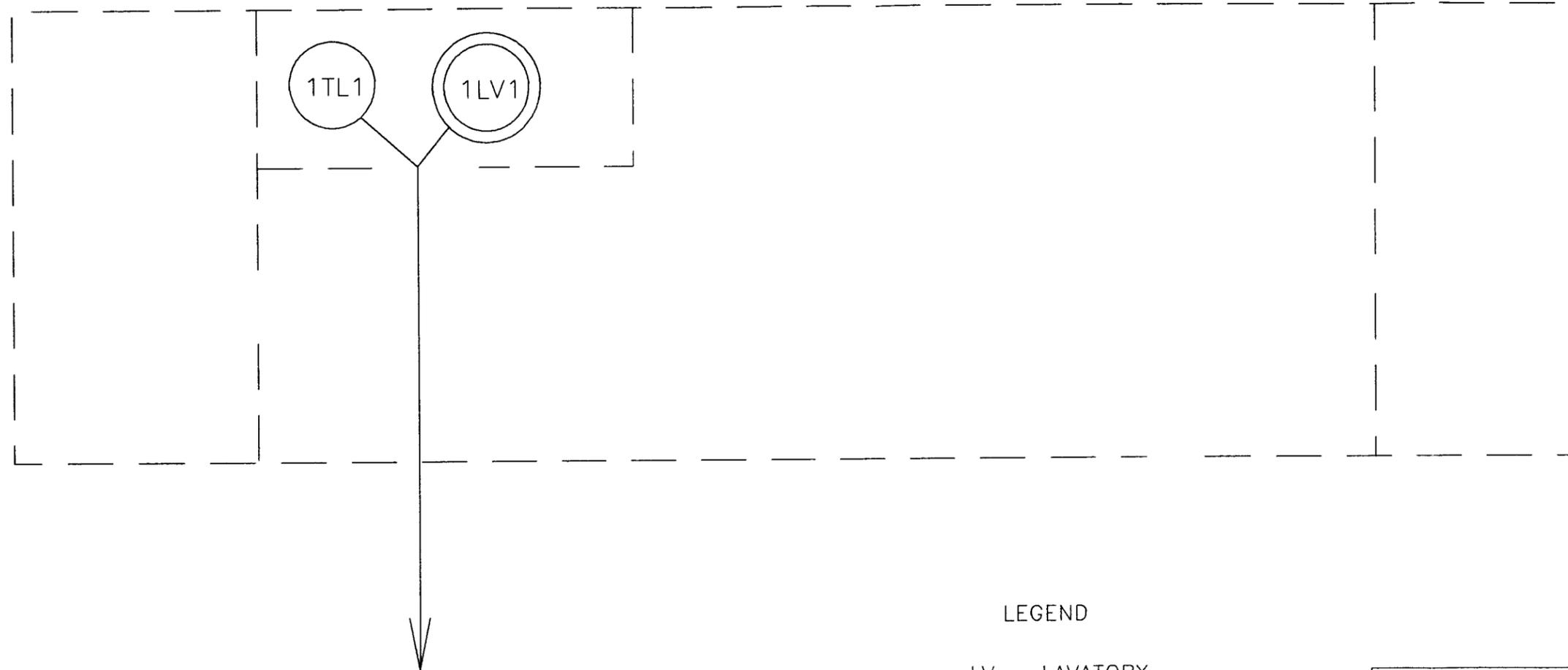
TL - TOILET

 - DYE TESTED DRAIN

NOTES

NOTE 1: SCHEMATIC BASED ON SITE VISIT.

SANTA FE ENGINEERING, LTD.			
TA 60-4 BUILDING DRAIN SCHEMATIC		DRAWN	PEB
		DESIGN	PEB
		CHECKED	LBA
		DATE	1/29/93
SUBMITTED	RECOMMENDED	APPROVED	
 Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET	OF
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-55	FIGURE 4	



60-6-OPN-1
SANITARY

LEGEND

LV - LAVATORY

TL - TOILET

⊙ - DYE TESTED DRAIN

NOTES

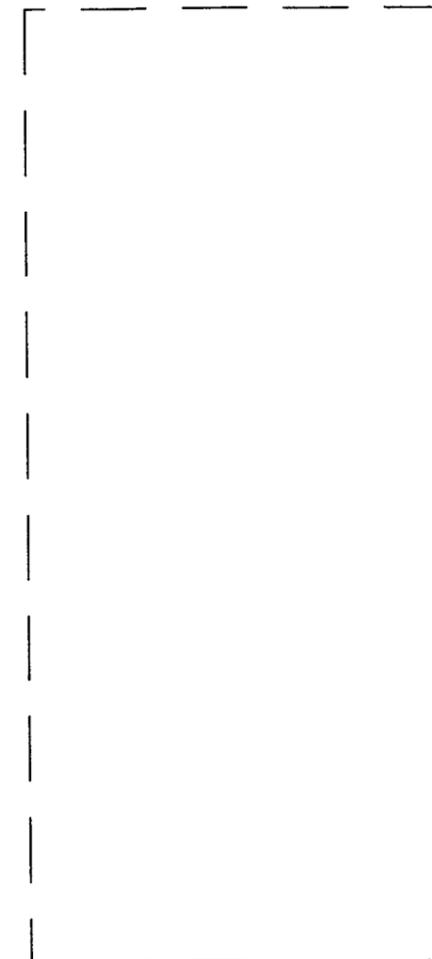
NOTE 1: SCHEMATIC BASED ON SITE VISIT.

SANTA FE ENGINEERING, LTD.

TA 60-6 BUILDING
DRAIN SCHEMATIC

DRAWN	PEB
DESIGN	PEB
CHECKED	LBA
DATE	1/29/93

SUBMITTED	RECOMMENDED	APPROVED	SHEET	OF
Los Alamos Los Alamos National Laboratory Los Alamos, New Mexico 87545			5	3
CLASSIFICATION	REVIEWER	DATE		
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.	
REQUESTING GROUP EM-8	11056-55	FIGURE 5		



60-14-OPN-1
AIR COMPRESSOR

NOTE: SCHEMATIC BASED ON DRAWING
C-45991 SHEET 4 & SITE VISIT



SANTA FE ENGINEERING, LTD.

TA 60-14 BUILDING
DRAIN SUMMARY

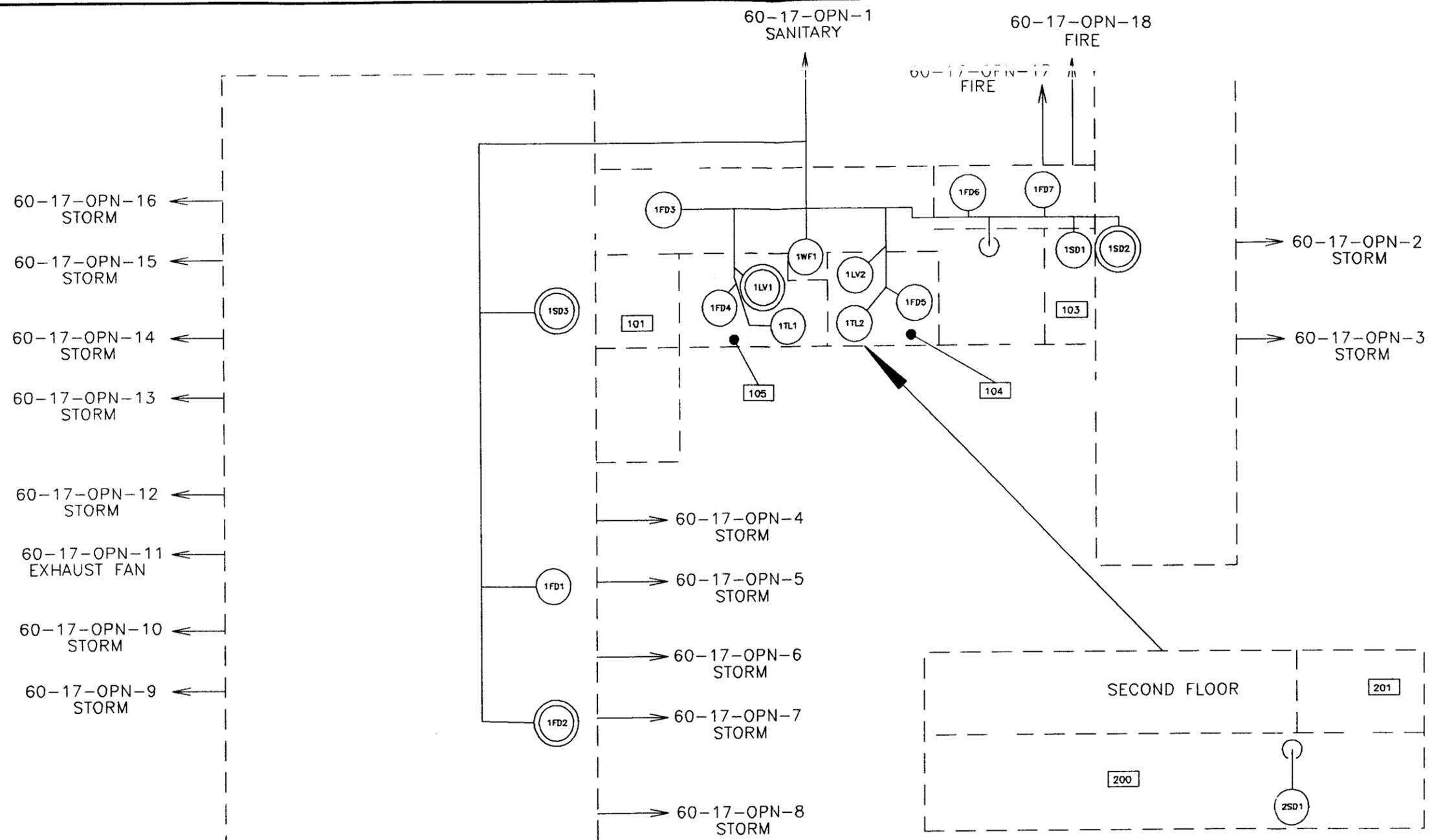
DRAWN	PEB
DESIGN	PEB
CHECKED	LBA
DATE	1/29/93

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

SHEET
OF

CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.
REQUESTING GROUP EM-8	11056-55	FIGURE 6
		REV.



NOTE: SCHEMATIC BASED ON DRAWING C-44854 SHEET 113 & SITE VISIT

SYMBOL LEGEND	
FD	FLOOR DRAIN
LV	LAVORATORY
SD	SINK DRAIN
TL	TOILET
WF	WATER FOUNTAIN
WH	WATER HEATER

 DYE TESTED DRAIN

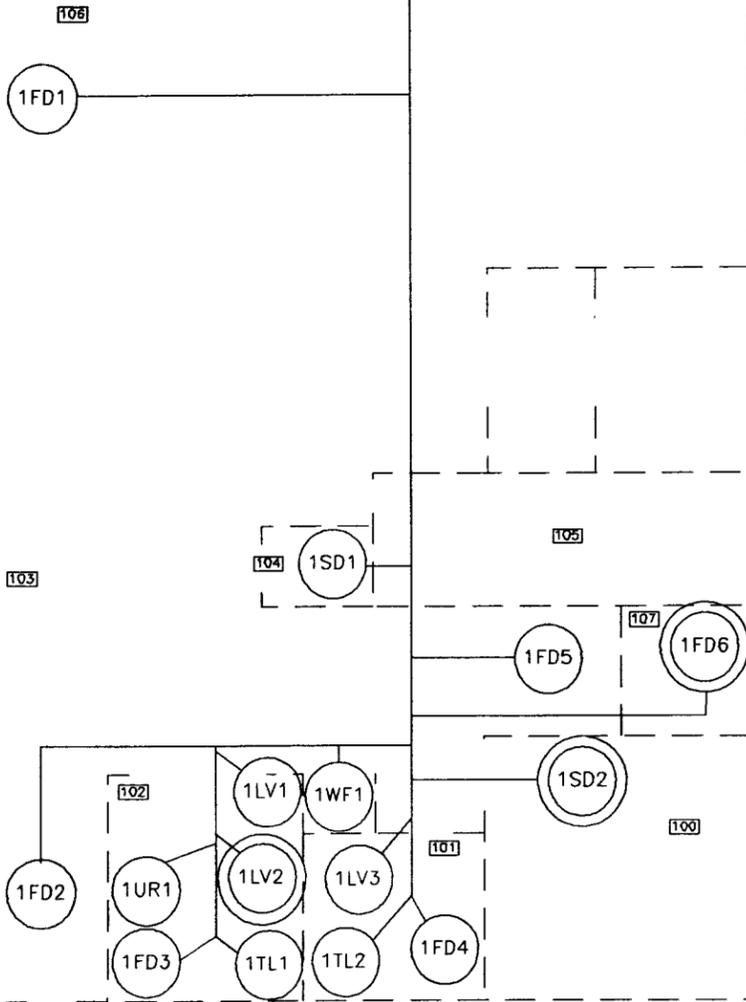
SANTA FE ENGINEERING, LTD.			
TA 60-17 BUILDING DRAIN SUMMARY		DRAWN	PEB
		DESIGN	PEB
		CHECKED	LBA
		DATE	2/1/93
SUBMITTED	RECOMMENDED	APPROVED	
		Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET OF
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-55	FIGURE 7	

60-19-OPN-1
SANITARY

60-19-OPN-7
STORM

60-19-OPN-6
EXHAUST FAN

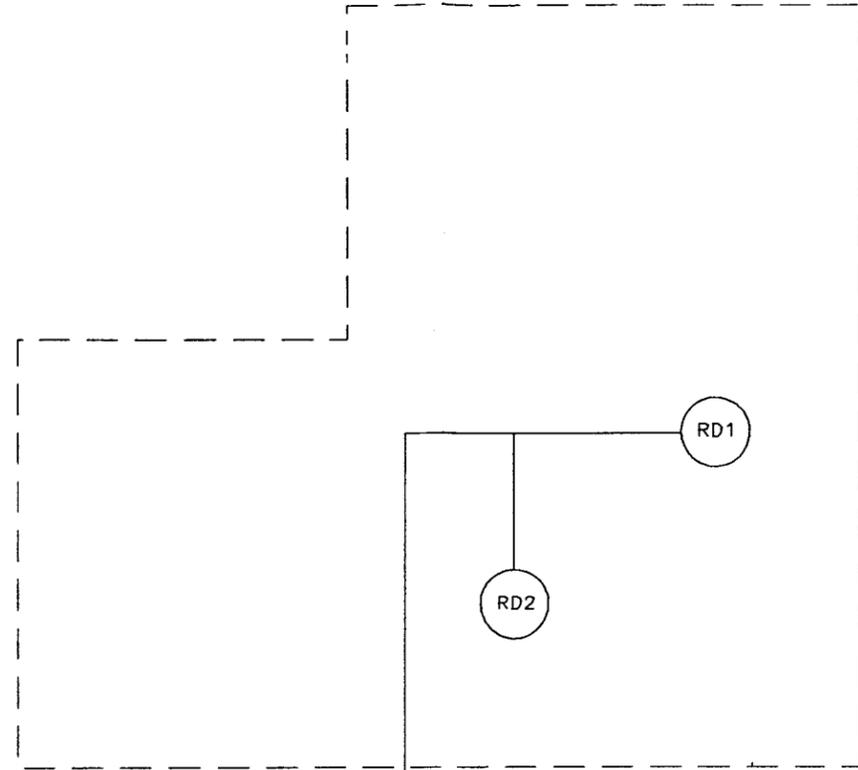
60-19-OPN-5
STORM



60-19-OPN-3 &
EXHAUSTFAN

60-19-OPN-8,
60-19-OPN-9 &
60-19-OPN-10 } FIRE

60-19-OPN-2
STORM



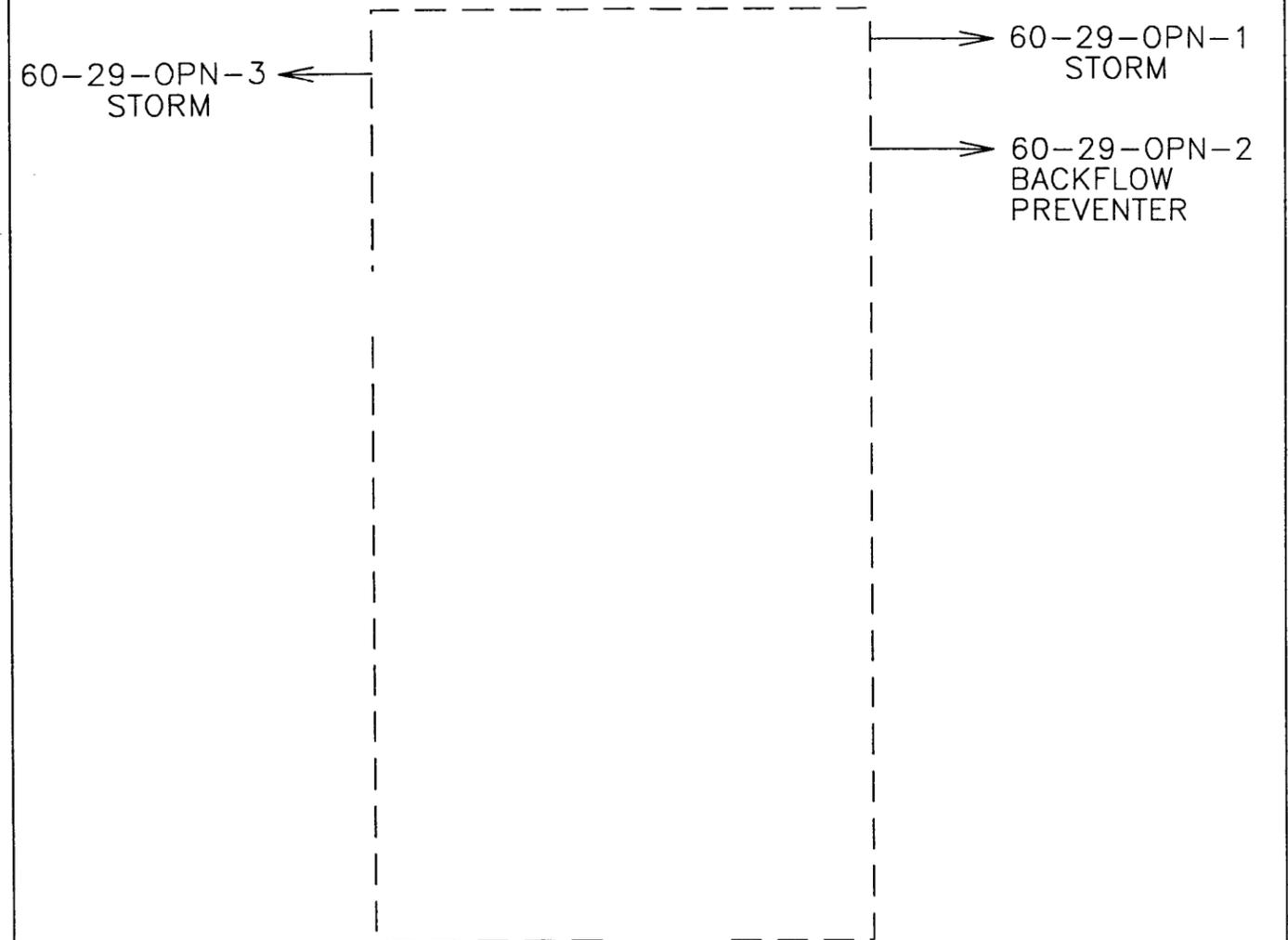
SYMBOL LEGEND	
LV	LAVATORY
FD	FLOOR DRAIN
SD	SINK DRAIN
TL	TOLIET
UR	URINAL
WF	WATER FOUNTAIN
WH	WATER HEATER

DYE TESTED DRAIN

NOTE: SCHEMATIC BASED ON DRAWING
R-7072 SHEET 1 & SITE VISIT



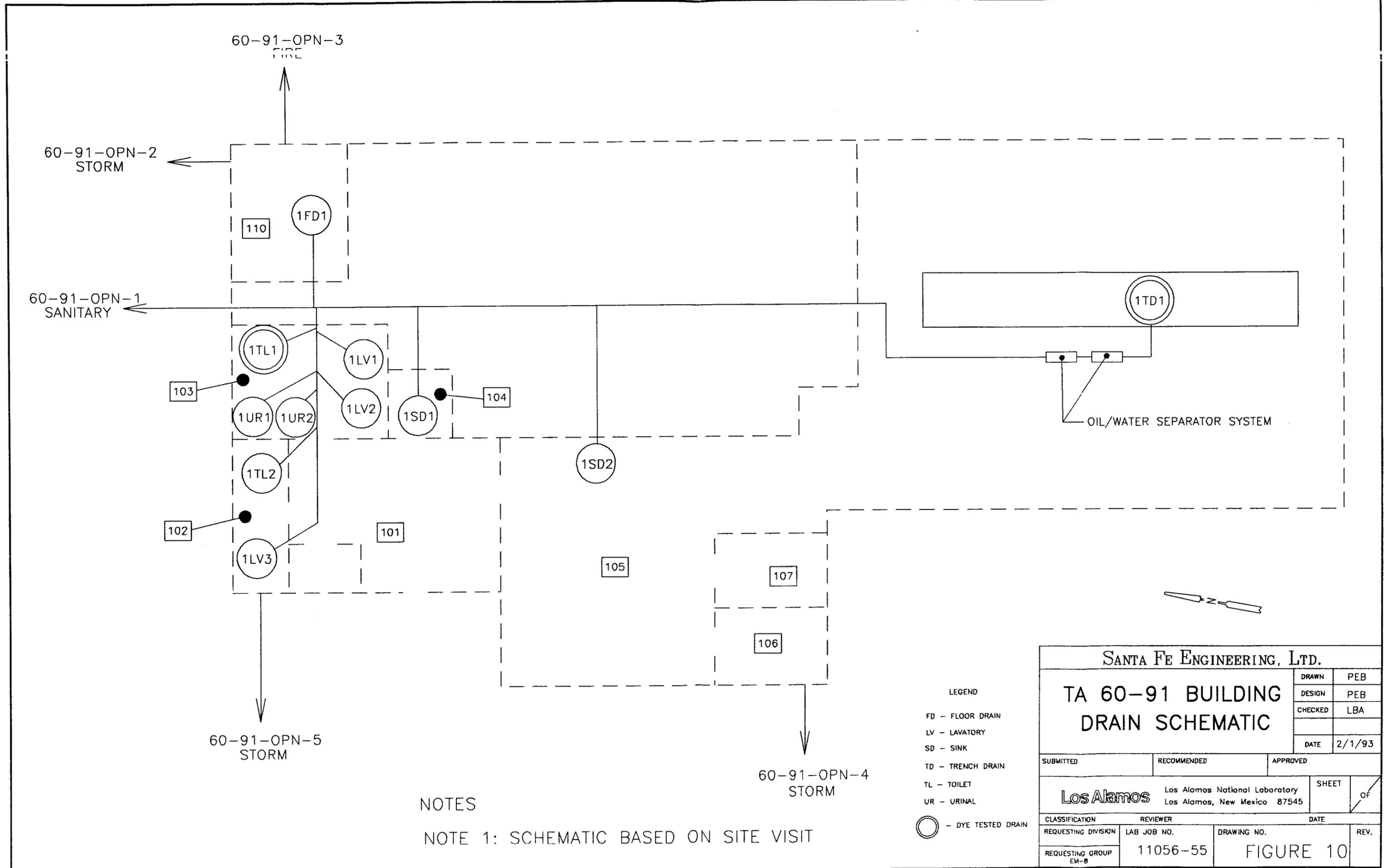
SANTA FE ENGINEERING, LTD.			
TA 60-19 BUILDING DRAIN SUMMARY		DRAWN	PEB
		DESIGN	PEB
		CHECKED	LBA
		DATE	2/1/93
SUBMITTED	RECOMMENDED	APPROVED	
		Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET OF
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-6	11056-55	FIGURE 8	



NOTE: SCHEMATIC BASED ON DRAWING
C-45151 & SITE VISIT



SANTA FE ENGINEERING, LTD.			
TA 60-29 BUILDING DRAIN SUMMARY	DRAWN	PEB	
	DESIGN	PEB	
	CHECKED	LBA	
	DATE	1/29/9	
SUBMITTED	RECOMMENDED	APPROVED	
Los Alamos Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET	OF
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-55	FIGURE 9	



NOTES

NOTE 1: SCHEMATIC BASED ON SITE VISIT

- LEGEND
- FD - FLOOR DRAIN
 - LV - LAVATORY
 - SD - SINK
 - TD - TRENCH DRAIN
 - TL - TOILET
 - UR - URINAL
 - - DYE TESTED DRAIN

SANTA FE ENGINEERING, LTD.			
TA 60-91 BUILDING DRAIN SCHEMATIC		DRAWN	PEB
		DESIGN	PEB
		CHECKED	LBA
		DATE	2/1/93
SUBMITTED	RECOMMENDED	APPROVED	
Los Alamos		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
CLASSIFICATION	REVIEWER	DATE	SHEET OF
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-55	FIGURE 10	