

**W. O. HEYN**  
256 Woodbine Place  
Barrington, IL 60010  
Phone 708-381-6743

July 7, 1992

Safety Kleen Corp.  
129 S. Kentucky Avenue  
Suite 701  
Lakeland, FL 33801

Attention: Victor San Agustin

Subject: Safety-Kleen Corp. *FLD 9841-67791*  
Medley Branch Construction Certification  
Part B Permit HC-13-175466

Dear Mr. San Agustin:

The attached certification report is an update of the report submitted by the writer on June 8, 1992. Also included are updated as-built prints which were prepared after the earlier submittal.

Only minor changes were made in the report such as changing some statements from *will be* to *are* and a paragraph was added to page 5 describing the outside dock pad rainwater control. No other changes were made in the report.

Sincerely,

W. O. Heyn, P.E.  
Florida Cert. N. 45516

WOH: rlh

Enclosure: One set of full-size as built prints

cc: Jack Krivec - SK Atlanta Regional Office  
Cindy Norton - ERM South

**RECEIVED**

**JUL 17 1992**

HAZARDOUS WASTE  
PERMITTING

**Professional Engineers Certification Report**  
**of**  
**Construction of the Safety-Kleen Medley, Florida**  
**Branch Service Center**

**By W. O. Heyn P.E.**  
**Florida Certificate**  
**No. 45516**

## CERTIFICATION

Florida Dept. of Environmental Regulation

Facility Name SAFETY-KLEEN CORP., MEDLEY, FLORIDA  
FDER Site Code FLD984167791  
Construction Permit Requiring Certification HC-13-175466  
Permit Issuance Date March 1, 1991

The Hazardous Waste Facilities have been constructed and tested in accordance with the specifications in the Part B construction permit with the exceptions noted in the attached report. Documentation that the construction was in accordance with the permit is contained in the enclosed report.

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 of 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 imprisonment for knowing violations.

Glenn R. Casbourne  
Signature of Owner/Operator

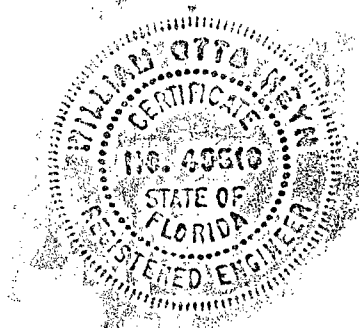
Glenn R. Casbourne, Vice-President, Engineering  
Name and Title

William O. Heyn  
Signature of Registered P.E.

William O. Heyn, 45516  
Name of Registered P.E. and Florida P.E. No.

7-7-92  
Date

(P.E. Seal)



**Construction Documentation Report for Construction of Hazardous Waste Facilities  
at the Safety-Kleen Corp. Branch Service Center  
Located at 8755 N.W. 95th Street, Medley, Florida**

## **Introduction**

Safety-Kleen Corp. constructed an office, warehouse building and tank farm with ancillary equipment in Medley, Florida in accordance with the requirements of the Part B construction permit that was issued by the Florida DER on March 1, 1991 and amended on December 9, 1991 and May 15, 1992 with deviations from the permit indicated in this report. Figure 11A.4(b)-3 indicates Sanford whereas it should be Medley. Also the tank farm as-built is in the "Future" location which is consistent with the rest of the permit.

## **Regulatory Requirements:**

### **40CFR264.192(a)**

The tanks for storage of hazardous waste were constructed in accordance with Underwriters Laboratories Inc., "Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids." The tank shell thickness is 1/4" from 0 to 18 feet, and 3/16" from 18 to 24 feet. The tank bottom is 1/4" thick and the tank top is 3/16" thick steel. The waste ethylene glycol and waste mineral spirits tanks are identical.

All tanks are coated with white acrylic base paint. All pipes and threads are painted to protect them from corrosion. Each tank is protected by a high level alarm which will sound and activate an alarm and a strobe light when the tank level reaches 95% of capacity. The alarm on the waste solvent tank will also deactivate the waste solvent pump at the return and fill. The high level alarm system was changed from a float activated switch to a sonar based tank gauge and high level alarm system called "Level Devil" provided by Electronic Sensors, Inc. of Wichita, Kansas.

All connections to the tanks are equipped with a spring loaded safety valve held in the open position by a fusible link that will melt and allow the valve to close in the event of a fire.

40CFR 264.192(b)

Each tank was inspected after installation for weld breaks, punctures, scrapes of protective coatings, cracks, corrosion and other structural damage or inadequate construction/installation.

All discrepancies found were corrected and the tanks are suitable for use.

40CFR264.192(c) Not applicable

40CFR264.192(d)

The tanks, after installation, were filled over 95% of full with water and observed for 5 hours for leaks. No leaks were observed and the tanks are certified tight. All ancillary equipment was tested in conjunction with the tank tests and certified tight.

40CFR264.192(e)

All ancillary equipment has been properly mounted and installed. All lengths of piping are supported no less than every eight running feet.

40CFR264.192(f) Not applicable

40CFR264.192(g) See Certification Statement

40CFR264.193(a-e)

Tank secondary containment in the form of an open concrete dike vault has been constructed in accordance with prints No. 316301-5002-00 Sheet No. 8 and 316301-5015-00 Sheet No. 9. The floor and dike walls of the tank containment system contain no cracks. The slab has been sloped to drain all liquids that accumulate inside the containment system to a

stainless steel sump which can be readily pumped out to a holding tank to remove the accumulated liquids. The sump is located adjacent to the south wall of the vault per Figure II C2-1.

The interior of the dike walls and slab are coated with an epoxy material (Semstone 140) to prevent permeation through the concrete.

#### 40CFR264.193(f)

Some piping inside the dike vault is threaded. Secondary containment for this piping is provided by the vault. All piping outside the concrete dike vault has fully welded connections. The clean solvent pump has been installed inside the concrete dike vault as is the spill container for hookup to tank trucks. Note: Although the permit specified that six tanks would be installed in the tank farm, only 3 tanks have been installed: one dirty mineral spirits tank, one clean mineral spirits tank and one waste glycol tank. The two waste oil tanks and the perchloroethylene tank were not installed but may be at a later date. Also the permit showed the tank truck connections outside the diked area and a change was made to move them inside the diked area. Refer to print No. 316301-2000-00 sheet No. 45.

With reference to Fig. II C.2-1 Tank Farm; The location of the tanks was changed to accommodate the use of one truck connection container. As-built, the used mineral spirits tank is located in the southwest corner of the vault whereas the permit shows it in the southeast corner of the vault. The fresh mineral spirits tank as-built is located in the northwest corner of the vault vs. the northeast location per the permit. The used ethylene glycol tank as-built is located in the south central position of the tank farm vs. the permit location in the northwest position. The tanks were mounted on stainless steel sheets, 13 ft. 8 in. by 13 ft. 8 in. which were bolted to the concrete housekeeping pads.

The dimensions of the vault, as-built, varies from the permit dimensions as follows; length 58 ft. 0 in. vs. 56 ft. 0 in. in the permit, width 40 ft. 0 in. vs. 40 ft. 0 in. in the permit. The height of the dike wall varies from 36-1/4 in. to 38 in. due to the sloped floor of the vault

vs. 36 in. in the permit. Three monitoring wells have been installed about 10 ft. from the north, east and west sides of the vault.

### **Tank Truck Loading Area**

The permit application shows an 80 ft. by 25 ft. tank truck loading area constructed of 6 in. thick reinforced concrete sloping 2 inches to a 2 ft. diameter by 2 ft. deep stainless steel sump with no outlet. A change was made to increase the slope to 9 inches to increase the containment capacity of the pad to 2917 gallons. Refer to print No. 316301-5003-00 sheet No. 10. The containment volume of the truck loading area was measured by filling with water. The actual volume measured was 2432 gallons which is significantly less than the design volume.

### **Tank Farm Shelter**

Provisions were made during construction to provide foundations for a proposed tank farm shelter which will be installed at a later date. This proposed shelter will cover the entire tank farm and tank truck loading pad with an overhang of 10 ft. at each end of the tank farm (east and west) and a 2 ft. overhang on the front and rear (south and north) of the tank farm and tank truck loading slab. This shelter will prevent a major portion of rainfall from entering the containment areas. No side walls will be installed so that access for fire fighting is not impaired. Refer to print Sheet No. ST-1 Tank Farm Canopy.

### **Warehouse Containment Area**

The Warehouse containment area was constructed in accordance with print 316301-7005-00 Sheet No. 26. The sloped floor containment area is free of cracks and has been sealed with an epoxy sealant (Semstone 245) that is chemically resistant to the products to be stored in the warehouse. The sloped floors of the warehouse drain into a 12 ft. x 2 ft. stainless steel sump that has no outlet. Any spills collected in the sump will be pumped out and properly disposed. The containment volume of the warehouse was measured by filling with water. The actual

volumetric measure was 2996 gallons which is equal to or greater than the design volume of 2940 gallons.

With reference to Fig. II B.1-1 Container Storage Location; The rollup door and personnel door in the northeast location in the east wall of the warehouse were moved to a southeast location in the east wall. A personnel door was added to the north wall. The security fence in the warehouse was relocated and two 6 ft. wide by 8 ft. high sliding gates were added to the fence.

The truck loading dock will contain one dock leveler and provisions for a second leveler and is covered by a metal roof. Any spills that occur on the loading dock will be collected in a 24 ft. x 2 ft. stainless steel trench located at the foot of the dock. This trench, covered by a steel grating, has no outlet and any spills must be pumped out by use of a portable pump.

Rainwater which falls on the outside truck loading pad is collected in a sump which drains into the stormwater system. A small <sup>CURB</sup> ~~berm~~ separates this sump from the stainless steel spill collecting sump at the foot of the dock to prevent rainwater from entering the stainless steel sump.

### **Return and Fill**

The return and fill containment is made up of concrete floors sloped to two 2 ft. diameter by 2 ft. deep stainless steel sumps that have no outlets. The concrete containment areas are sealed by an epoxy sealant (Semstone 140) that is compatible with and resistant to the solvents that will be handled in the facility. The steel loading dock, sized to handle 8 trucks, is covered by heavy duty grating that can support all anticipated loads including forklifts. Openings in the gratings contain two drum washers for dumping and washing solvent drums. The dock is equipped with dock plates to provide safe access to the trucks. Hose trees are located at the edge of the dock to provide valves and hose mountings for filling drums.

Two as-built, wet dumpster/barrel washers were installed adjacent to each other near the positions indicated in Fig. II C.7-3 Return and Fill Shelter.

The containment volume of the return and fill area was measured by filling with water that was used in the hydrostatic test of the tanks. The actual volume measured was 3693 gallons which compares favorably with the design volume of 3680 gallons. After the test the



water was pumped into the storm sewer.

The permit application showed a single 20 ft. by 2 ft. rectangular stainless steel sump in the return and fill. A change was made to two round sumps with changes in the floor slopes to accommodate them and to achieve the same overall containment volume. Refer to print no. 316301-7004-00 sheet No. 24.

### **Fire Suppression System**

The fire sprinkler system for the warehouse, Return and Fill area and the office area has been designed and installed by Kannapolis Fire Sprinklers. The piping system with sprinkler heads for the warehouse and Return and Fill areas have been completed and are operational. The available water flow has been tested by the City of Medley. The available flow has been found to be inadequate as required by NFPA for a water system. Flow *is* adequate for a foam system which has been installed. The foam bladder tank has been installed in the southeast corner of the warehouse with the required controls. The foam sprinkler system has been tested by the installer and approved by the Medley Fire Department prior to issuance of the Certificate of Occupancy.

### **Other Emergency Equipment**

Fire Extinguishers - The warehouse and Return and Fill are equipped with eight 20 lb. ABC fire extinguishers wall bracket mounted and labeled in accordance with the approved design.

Eye Washer/Showers - one eyewash/shower is located on the west wall of the warehouse adjacent to the doorway to the Return and Fill. A second eyewash/shower is located on the west side of the steel loading dock in the Return and Fill area. A third eyewash/shower is located adjacent to the tank farm.

Exit Signs - All doorways opening to the outside are identified by a lighted "Exit" sign.

Personal Protective Equipment - All employees working in the Warehouse and the Return and Fill will be required to wear safety glasses with side shields, hard hats and safety shoes.

## **Branch Security**

The working areas of the Medley facility are enclosed by a 6 foot high chain link fence with a one foot extension containing 3 strands of barbed wire. Access and exit is through two 30 ft. sliding gates which are motor operated. Entrance is achieved by a keypunch pad located adjacent to the entrance drive. The gate opening can also be achieved by a push button located in the office. Gate closing is controlled by a timer and an electric eye. All gates are required to be kept closed at all times except for passage of vehicles.

Access into the office is controlled by a door equipped with an electrically operated lock activated from inside the office. Two doors exiting from the office area will be equipped with an emergency bar on the inside. These doors can only be opened from inside the building.

Signs designating "no smoking", "fire extinguisher", etc. have been mounted in locations shown on drawing No. 316301-9000-00 Sheet No. 28.

## **Site Storm Water Control**

The City of Medley has no stormwater drainage system available for this site. In order to provide for stormwater control and disposal, the areas to be paved have been equipped with 6 catch basins each of which are connected to an underground collection system. The collection system consists of 15 in. diameter perforated corrugated metal pipes laid horizontally 3 ft. underground in 15 ft. deep by 36 in. wide trenches filled with pervious material. The capacity of these structures is adequate to store a rainfall of 6.7 inches over a 1 hour period. The water collected in the structure will drain by seepage into the surrounding soil.

## **Electrical**

All electrically operated equipment was tested with a temporary electrical supply. Florida Power and Light will hook up permanent power after the Certificate of Occupancy is issued by the City of Medley.

## **Strategy for measuring volume of Containment Areas and Testing Tanks and Piping Systems**

Since the tanks are to be tested by filling with water and observing for leaks, 20,000 gallons of water will be available for filling the various containment systems, i.e: Return and Fill (3680 gal. reqd.) and the warehouse (2940 gal. reqd.) and the tank truck loading/unloading pad (2917 gal. reqd.)

One option to determine volumes is to measure the physical dimensions of each containment area and calculate the actual volume each would contain.

A second option would be to fill each containment volume with water from the tank test and measure the amount of water used by means of the tank gauge after the tanks are tested.

The high level alarms for the tanks should be operational when the tanks are filled to provide a test of the high level alarm system for each tank.

At the completion of the tests the water will be drained into the stormwater drainage system onsite.

### **Procedure**

1. Fill used Mineral Spirits tank with water from the domestic supply until the high level alarm sounds. Record the number of gallons indicated by the tank gauge. Continue to fill an additional 500 gal. taking care *not* to overfill the tank. Observe the tank system for 5 hours for leaks. Note any leakage that must be repaired before placing tank in service.
2. Hook up an auxiliary pump to the drain line of the used Mineral Spirits tank and connect the discharge to the fill line of the Used Glycol Tank. Transfer the water to the Used Glycol tank. Note: The residual water in the bottom of the used Mineral Spirits tank is not available for this part of the test. Add additional water to the Used Ethylene Glycol of 500 gallons over the point at which the high level alarm sounds. Record the tank gauge reading when the high level alarm sounds. After the tank is filled observe the tank system for 5 hours and note any points of leakage. Repair all leaks before terminating the tests on both tanks.
3. Fill out certification forms indicating tanks and ancillary piping are tight.
4. Drain water from the filled tank into the truck loading area. Note gauge readings on the tank gauge before filling and at the point that the loading area is completely filled. Record gallons. Pump the water from the truck loading area into the storm drain.
5. Drain water from the filled tank into the warehouse containment area. Note tank gauge readings before and at the point the containment area is completely filled. Record gallons. Pump the water from the containment area into the storm drain.
6. Repeat the above procedure for the return and fill containment area.
7. Fill out certification forms for all 3 areas.
8. Drain remaining water from the filled tank into the storm drain. Note: each tank tested will contain several hundred gallons of water in the bottom of the dish that cannot be pumped out through the discharge ports. To remove this residual water, remove one 4" plug at the bottom of the tank and siphon or pump the residual water from the bottom of the dish. After draining replace plug using approved thread sealer.

W. O. Heyn  
2010 Imperial G.C. Boulevard  
Naples, FL 33942  
813-566-2326

### TEST CERTIFICATION FORM

Date 6-6-92

Project SAFETY-KLEEN CORP

Location MEDLEY, FLORIDA

System TANK #1 WASTE MINERAL SPIRITS

Type of Test \_\_\_\_\_

Hydrostatic

Air

Other \_\_\_\_\_

Test Pressure ATMOSPHERIC

Duration of Test 5 HOURS

Test Witnessed By [Signature]

Test Supervised By W.O. HEYN

RESULTS - TANK AND ANCILLARY EQUIPMENT TIGHT

By: [Signature]

Title: PE FLORIDA CERT. 45516

Date: 6-6-92

W. O. Heyn  
2010 Imperial G.C. Boulevard  
Naples, FL 33942  
813-566-2326

### TEST CERTIFICATION FORM

Date 6-6-92

Project SAFETY-KLEEN CORP.

Location MEDLEY, FLORIDA

System TANK #3 WASTE ETHYLENE GLYCOL

Type of Test \_\_\_\_\_

Hydrostatic

Air

Other \_\_\_\_\_

Test Pressure ATMOSPHERIC

Duration of Test 5 HOURS

Test Witnessed By Jackie Jones

Test Supervised By W.O. HEYN

RESULTS - TANK AND ANCILLARY EQUIPMENT TIGHT

By: W.O. Heyn

Title: P.E. FLORIDA CERT 45516

Date: 6-6-92

II.B.1-1  
 Container Storage Location  
 Safety-Kleen Corp. Facility  
 Medley, Florida

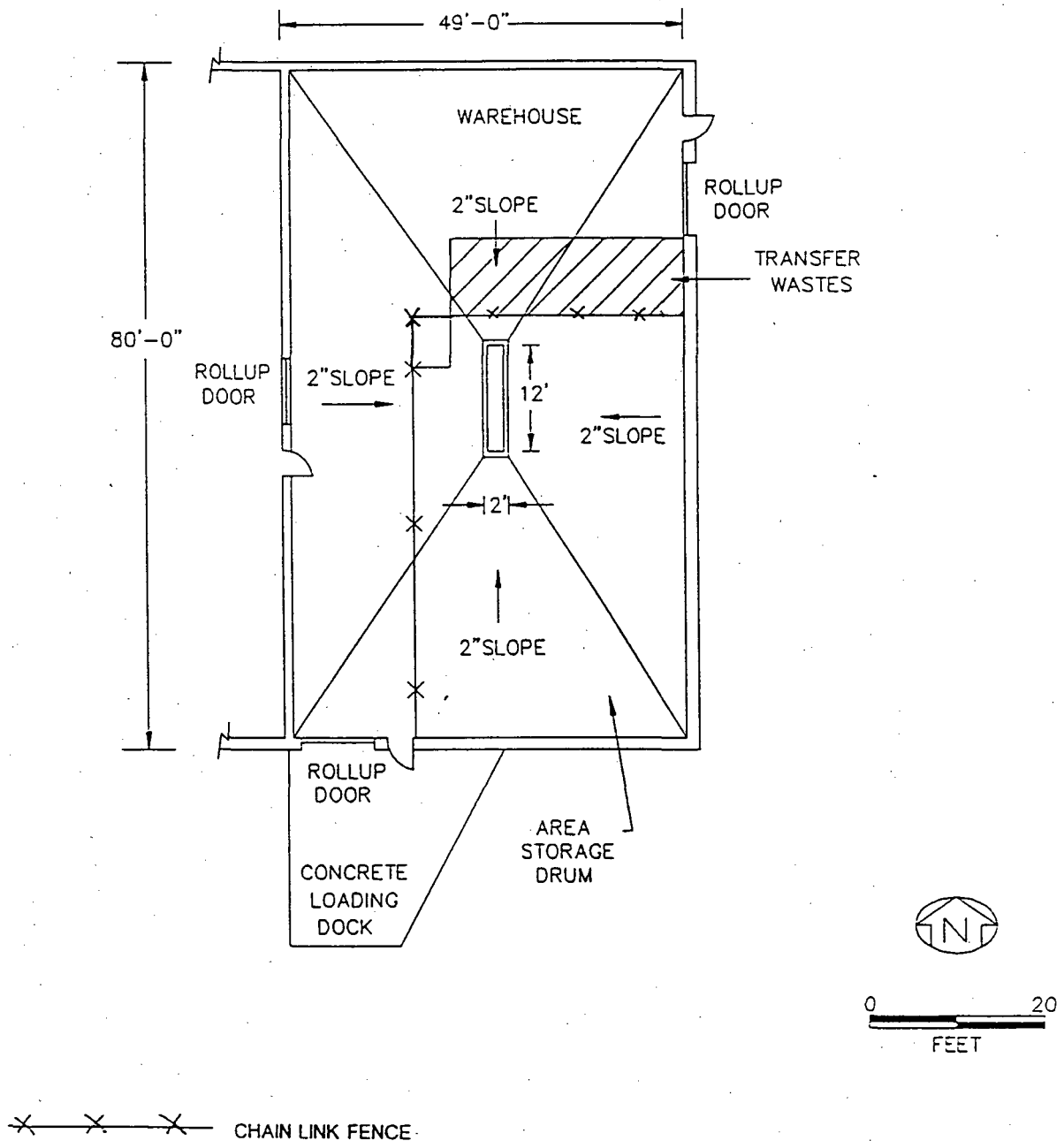


Figure II.C.2-1  
 Tank Farm  
 Safety-Kleen Corp. Facility  
 Medley, Florida

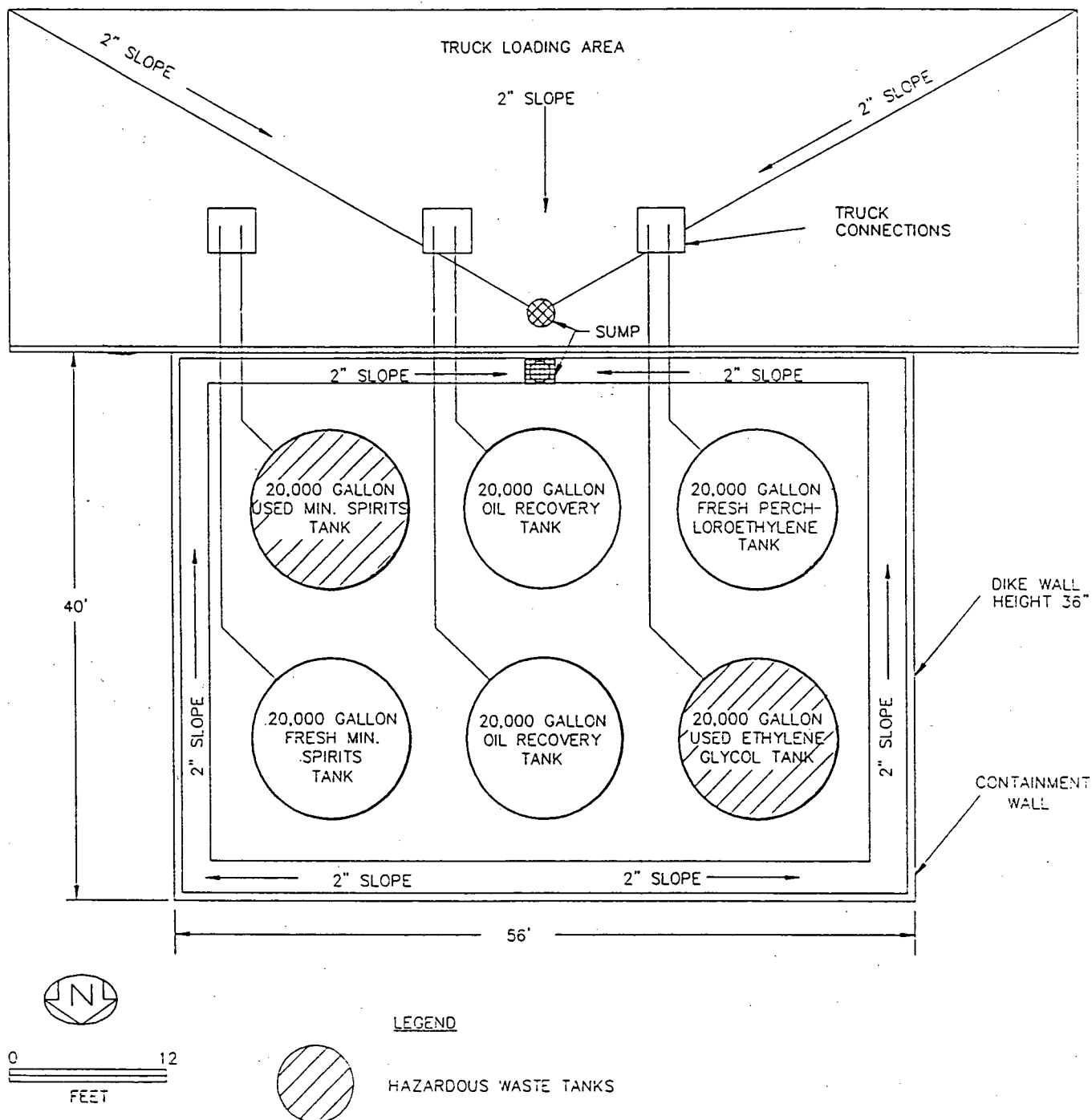
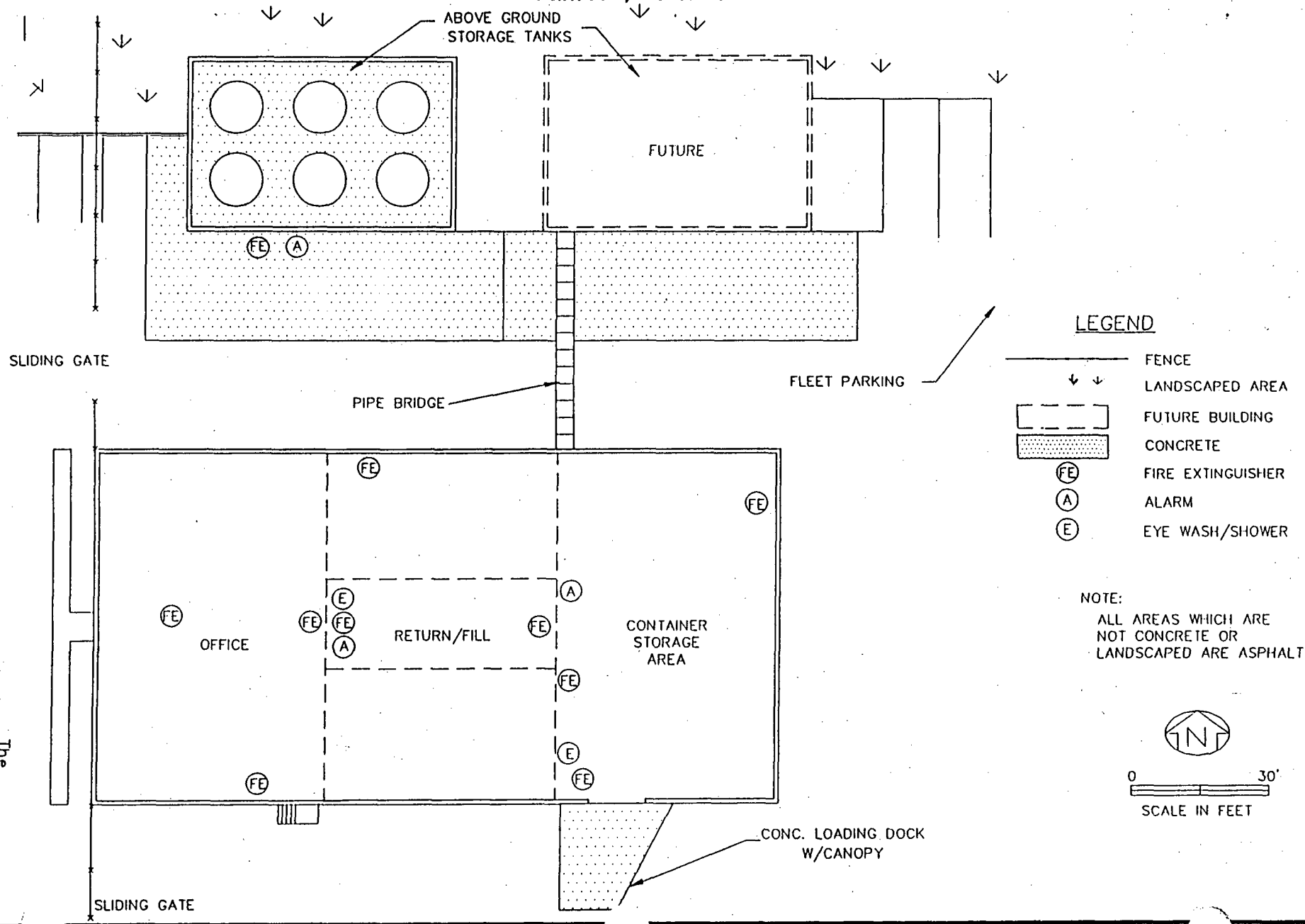


Figure II.A.4(b)-3  
Location of Emergency Equipment  
Safety-Kleen Corp. Facility  
Sanford, Florida

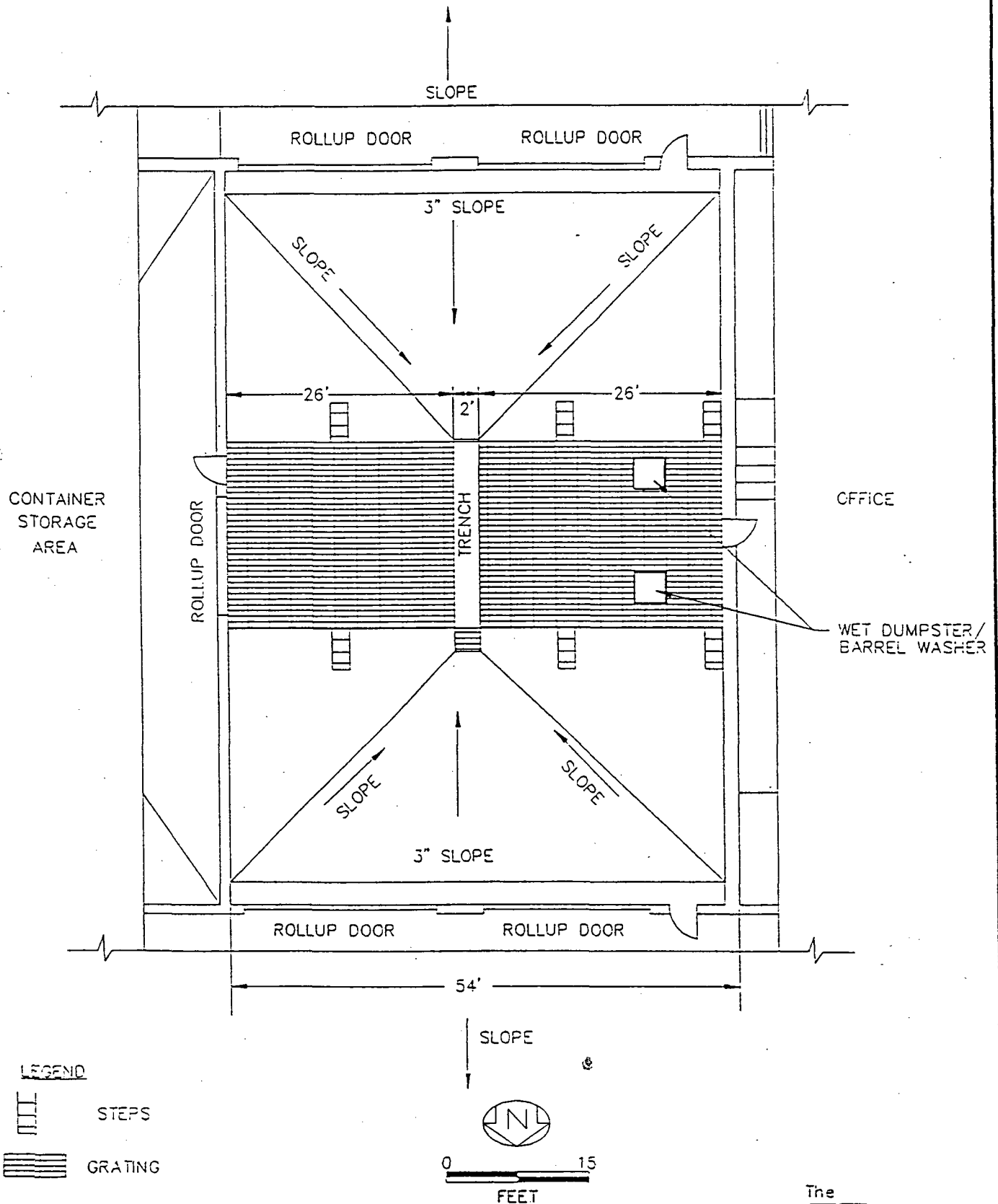


13112.22/31122LEE/061491

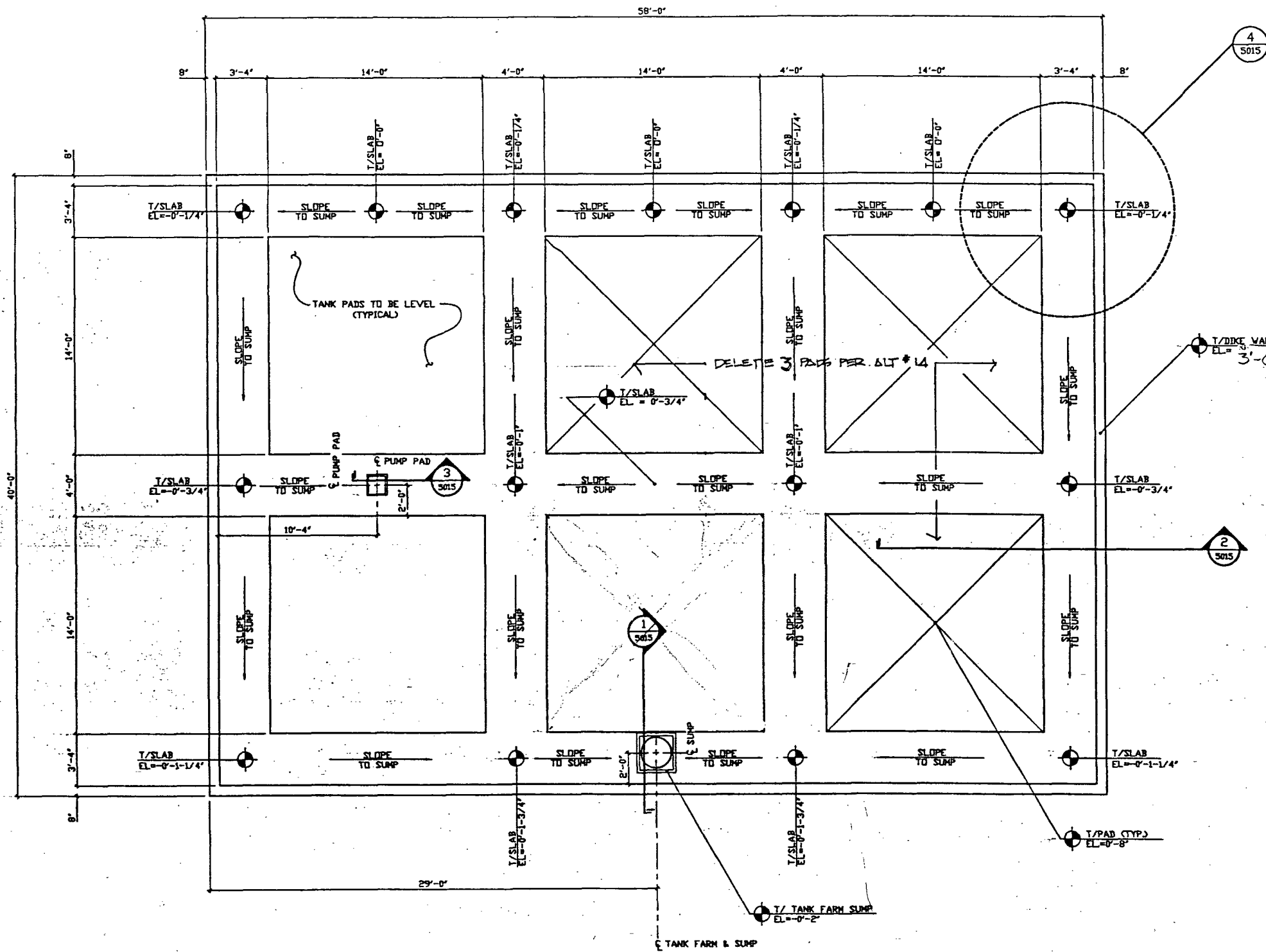
II.A.4(b)-11A



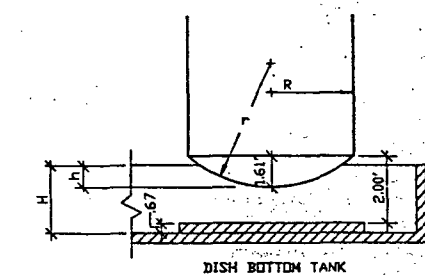
Figure II. C.7-3  
Return/Fill Shelter  
Safety-Kleen Corp. Facility  
Medley, Florida







# CONTAINMENT CALCULATIONS



TANK FARM (20,000 GAL DISH BOTTOM VERTICAL STORAGE TANK) -  
 NOTE: SUMP AND SLOPED CONCRETE SLAB CONTAINMENT NEGLIGIBLE  
 FORMULAS USED:  

$$\left[ \left( \frac{1}{3} \right) (P) (h^2) (3r-h) \right] (7.48 \text{ GAL/CF}) (\# \text{ OF UNITS}) = \text{TANK DISPLACEMENT VOLUME (GAL)}$$

$$(L)(W)(H) (7.48 \text{ GAL/CF}) (\# \text{ OF UNITS}) = \text{OTHER DISPLACEMENT VOLUMES (GAL)}$$

$$(L)(W)(H) (7.48 \text{ GAL/CF}) = \text{DIKE CONTAINMENT VOLUME (GAL)}$$

R (TANK RADIUS) = 6.00 FT  
 L (DIKE LENGTH) = 56.67 FT  
 W (DIKE WIDTH) = 38.67 FT  
 H (DIKE HEIGHT) = 2.75 FT  
 r (DISH RADIUS) = 12.00 FT  
 h (DISH HEIGHT) = 1.69 FT  
 P1 = 3.141

DIKE CONTAINMENT VOLUME:  
 $(56.67)(38.67)(2.75)(7.48 \text{ GAL/CF}) = 45,078 \text{ GAL (+)}$   
 VOLUME OF LARGEST TANK WITHIN DIKED AREA:  
 $(14.00)(8.67)(7.48 \text{ GAL/CF})(6 \text{ PADS}) = 5,894 \text{ GAL (-)}$   
 TANK PAD DISPLACEMENT VOLUME:  
 $\left[ \left( \frac{1}{3} \right) (P) (1.69^2) (3)(12.00-1.69) \right] (7.48 \text{ GAL/CF}) (5 \text{ TANKS}) = 3,838 \text{ GAL (-)}$   
 LOCAL RAINFALL ALLOWANCE:  
 25 YEAR FREQUENCY/24 HOUR DURATION  
 RAINFALL = 11 INCHES  
 $(56.67)(38.67)(11/12)(7.48 \text{ GAL/CF}) = 15,026 \text{ GAL (-)}$   
 TOTAL DISPLACEMENT VOLUME:  
 $(20,000 + 5,894 + 3,838 + 15,026) = 44,758 \text{ GAL (-)}$   
 NET CONTAINMENT (EXCESS CAPACITY):  
 $(45,078 - 44,758) = 320 \text{ GAL}$

## GENERAL NOTES

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SAFETY-KLEEN CORPORATION. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT BY SAFETY-KLEEN OR AS SAFETY-KLEEN MAY AGREE IN WRITING.

- REFER TO APPLICABLE GENERAL NOTES ON DRAWING SOIL.
- CONTRACTOR SHALL INSTALL OWNER FURNISHED S.S. FRAME AND LINER DESIGNATED FOR THE SUMP.
- SLOPE CONCRETE SLAB TO SUMP AS SHOWN ON PLAN. TANK PADS MUST BE PERFECTLY LEVEL.
- ALL REBAR SHALL BE GRADE 60 BILLET STEEL CONFORMING TO ASTM A-615. ALL REBAR SHALL BE EPOXY COATED.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3" FOR CONCRETE CAST AGAINST SOIL AND 2" FOR CONCRETE EXPOSED TO WEATHER.
- TOP OF ALL EXPOSED CONCRETE WALLS SHALL BE SCAFFOLD AND FINISHED PERFECTLY LEVEL FOR PROPER ARCHITECTURAL APPEARANCE.
- TANK FARM ELEVATIONS ARE RELATIVE FINAL NGVD ELEVATIONS TO BE COORDINATED WITH SITE DRAWINGS BY E.A. BROWNELL AND ASSOCIATES, INC.



MP-1

## TANK FARM PLAN

SCALE: 1/4" = 1'-0"

NO.	DESCRIPTION	BY	CHK	APPR	DATE

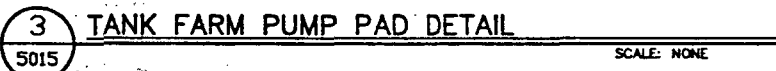
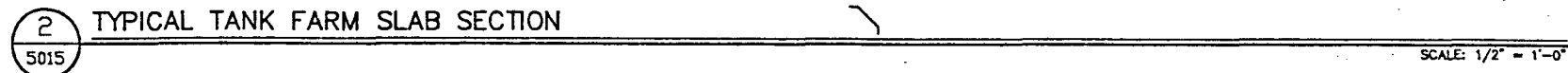
TITLE: TANK FARM FOUNDATION PLAN

SAFETY-KLEEN CORP.  
 7775 W. 10th Ave., Suite 100, Miami, FL 33146  
 PHONE: 781-577-5445

SCALE: 1/4" = 1'-0" BY: [Signature] CHK: [Signature] APPR: [Signature] DATE: 9-22-91

SERVICE CENTER LOCATION: MEDLEY, FL

SC-010-REV NO. 318301-5002-00 SHEET NO. 8



- THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SAFETY-KLEEN CORPORATION. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT BY SAFETY-KLEEN OR AS SAFETY-KLEEN MAY AGREE IN WRITING.

1. REFER TO APPLICABLE GENERAL NOTES ON DRAWINGS 5011 AND 5002.
2. TAKE FIRM ELEVATIONS ARE RELATIVE FINAL MOVD ELEVATIONS TO BE COORDINATED WITH SITE DRAWINGS BY E.R. BROWNELL AND ASSOCIATES, INC.
3. REFER TO SOILS REPORT BY SCHNEBKE-SHISON AND ASSOCIATES, INC. DATED 8/10/91 FOR RECOMMENDATIONS AND SPECIFICATIONS REGARDING STRUCTURAL FILL AND LIMEROCK BASE.

**QUESTEC CORPORATION**  
CONSULTING ENGINEERS  
6812 Sylvania Circle • Columbus • MS 39205 • (204) 379-0300

MP-2

## TANK FARM FOUNDATION SECTIONS & DETAILS

 SAFETY-KLEEN CORP.

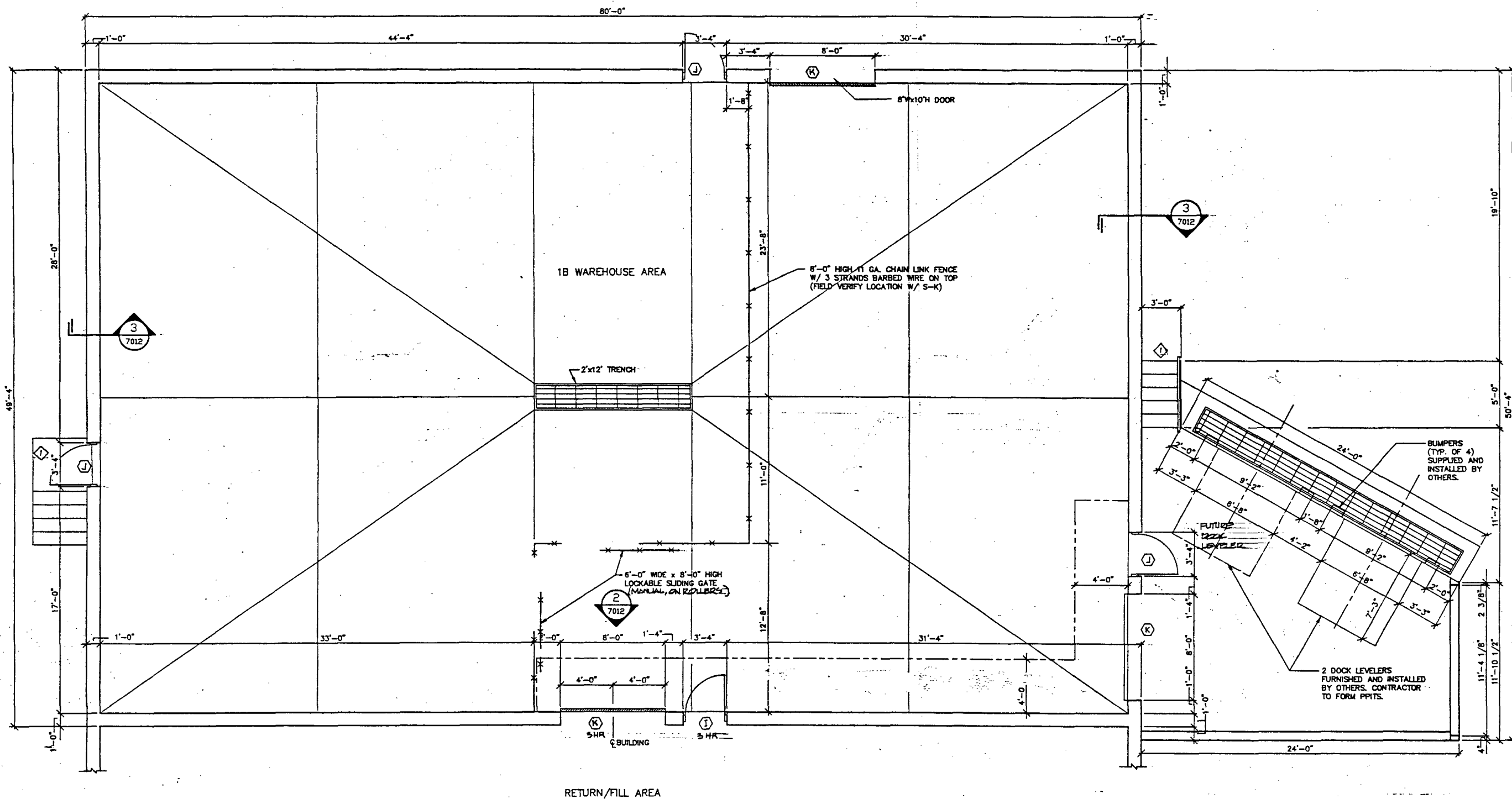
777 ONE TOWER ROAD ELGIN, ILLINOIS 60120 PHONE 708-230-0400

						SCALE		BY	CHKD	P.E. APPR	OP. APPR	DATE
						AS SHOWN		Quoted				6-27-91
NO.	DESCRIPTION	BY	CHK	APPR	DATE	SERVICE CENTER LOCATION		SC-DWG-REV NO.				SHEET NO.
REVISIONS						MEDLEY, FL		316.301-5015-00				9









### GENERAL NOTES

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SAFETY-KLEEN CORPORATION. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT BY SAFETY-KLEEN OR AS SAFETY-KLEEN MAY AGREE IN WRITING.

1. DIMENSIONING ON ALL PLANS IS TO FACE OF STUD, ACTUAL WIDTH, FACE OF MASONRY, NOMINAL WIDTH, OR FACE OF ROUGH OPENING.



A-8



### 1B WAREHOUSE AREA FLOOR PLAN

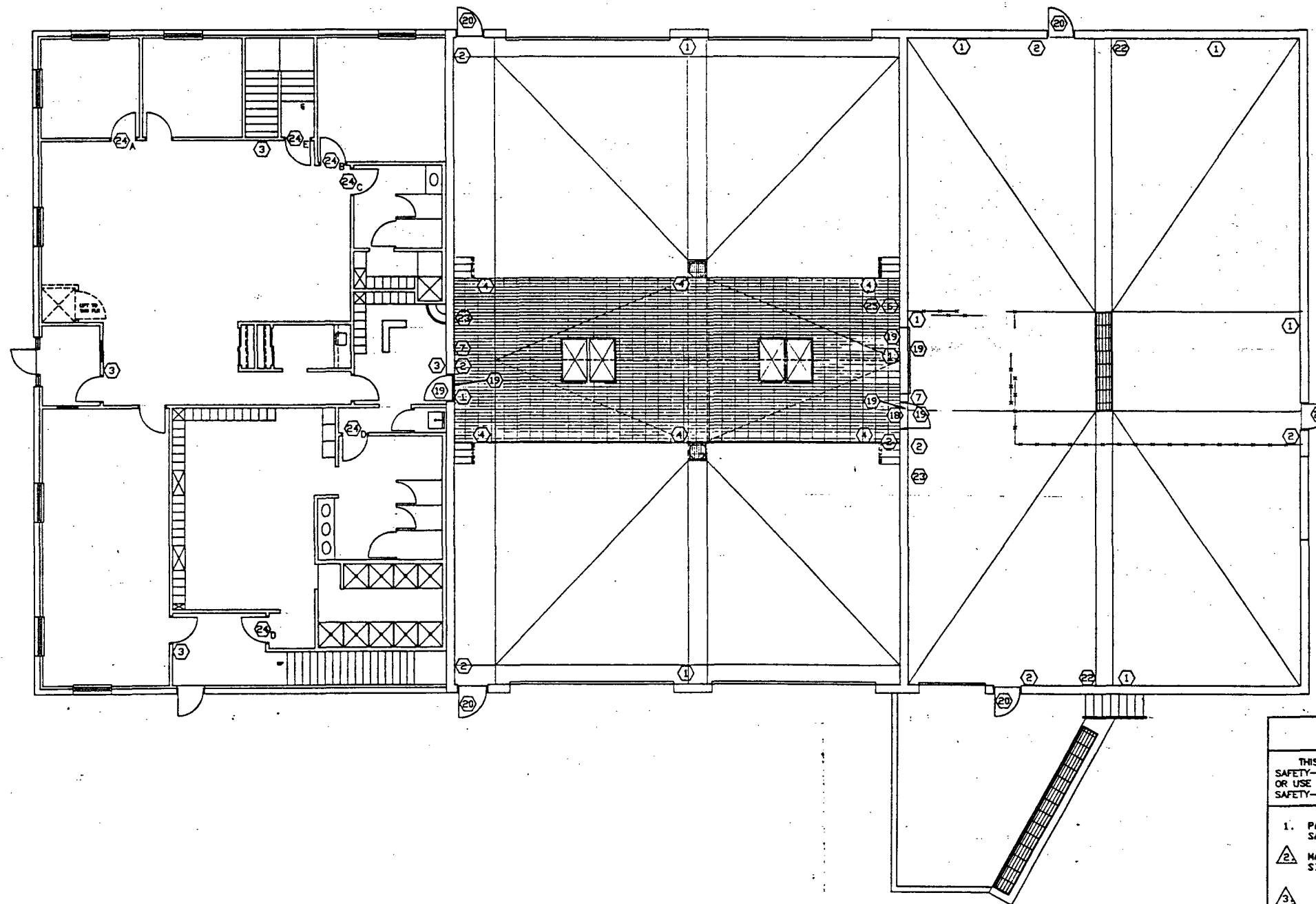
SCALE: 1/4" = 1'-0"

### 1B WAREHOUSE AREA FLOOR PLAN

**SAFETY-KLEEN CORP.**

777 855 TOWER ROAD ELGIN, ILLINOIS 60120 PHONE 708-497-8460

NO.	DESCRIPTION	BY	CHK	APPR	DATE	SCALE	BY	CHKD	P.E. APPR	OP. APPR	DATE	SHEET NO.
1	ADDED STOOD & REVISED STAIRS	CF	SD		10/2/91	1/4" = 1'-0"	Questec				9-30-91	26
REVISIONS						SERVICE CENTER LOCATION			SC-DWG-REV NO.			
						MEDLEY, FL			316301-7005-00			



SIGN SCHEDULE					
MARK NO.	DESCRIPTION	DETAIL	NUMBER REQUIRED	LOCATION	REMARKS
1	NO SMOKING	A	8	10' A.F.F.	■ DENOTES 10' ABOVE T/DOCK
2	'FIRE EXTINGUISHER'	B	7	6' ABOVE EXTINGUISHER	COORDINATE LOCATIONS V/ FIRE PROTECTION CONTR.
3	'FIRE EXTINGUISHER'	C	2	6' ABOVE EXTINGUISHER	COORDINATE LOCATIONS V/ FIRE PROTECTION CONTR.
4	'105' SOLVENT'	D	3		MOUNT TO SOLVENT TREE ANGLE UPRIGHT $\Delta$
6	'USED SOLVENT PUMP JOG SWITCH	D	1	3' ABOVE JOG SWITCH	
7	LIGHT & VENTILATION FAN	D	4	3' ABOVE SWITCH	
9	NPFA DESCRIPTION		2/ TANK	11' A.F.F.	S.K.# 2452 $\Delta$
10	'WASTE-ETHYLENE GLYCOL'	U	2/ WASTE OIL TANK	13' A.F.F.	
12	'105' SOLVENT'	V	2/ 105' SOLVENT TANK	13' A.F.F.	
13	'WASTE SOLVENT'	X	2/ WASTE SOLVENT TANK	13' A.F.F.	
14	'COMBUSTIBLE LIQUID'	Y	2/ TANK	15' A.F.F.	
15	'HAZARDOUS WASTE'	Z	2/ WASTE SOLVENT TANK	13' A.F.F.	S.K.# 1257
16	TANK CAPACITY (19,000 GAL)	K	1/ TANK	17' A.F.F.	
17	PIPELINE IDENTIFICATION	L	VARIES SEE DWG. 9005	6' ABOVE CONTAINER PENETRATION	SEE TANK ACCESS CONTAINER
18	OPEN DOOR SLOWLY	M	2	5 1/2' A.F.F.	
19	FIRE DOOR	N	4	6 1/2' A.F.F.	
20	NO ADMITTANCE	P	6	5 1/2' A.F.F.	
22	FLAMMABLE	R	2	6' A.F.F.	
23	EYE WASH	S		6' A.F.F.	
24	DOOR	T	SEE DWG. 9002	5 1/2' A.F.F.	A - BRANCH MANAGER B - CONFERENCE C - WOMEN D - MEN E - STAIRWAY
25	EMERGENCY SHUT-OFF WASTE SOLVENT	D	1	3' ABOVE DISCONNECT	
26	EMERGENCY SHUT-OFF 105' SOLVENT PUMP	D	1	3' ABOVE DISCONNECT	LOCATED AT TANKFARM

### GENERAL NOTES

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SAFETY-KLEEN CORPORATION. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT BY SAFETY-KLEEN OR AS SAFETY-KLEEN MAY AGREE IN WRITING.

1. PARTS W/ S-K PART #'S ARE SUPPLIED BY SAFETY KLEEN AND INSTALLED BY CONTRACTOR.

$\Delta$  MAKE MOUNTING BRACKET AS REQUIRED. MOUNT SIGN TO BE VISABLE FROM DOCK.

- $\Delta$  - WASTE SOLVENT
- $\Delta$  - WASTE OIL
- $\Delta$  - 105' SOLVENT
- $\Delta$  - WASTE ETHYLENE GLYCOL

$\Delta$  CONTRACTOR TO VERIFY ALL QUANTITIES REQUIRED.



A-11

TITLE  
155' BUILDING  
SIGN LOCATION PLAN

**SAFETY-KLEEN CORP.**  
777 BIG TIMBER ROAD ELGIN, ILLINOIS 60123 PHONE 708-697-8480

NO.	DESCRIPTION	BY	CHK	APPR	DATE	SCALE	BY	CHKD	P.E. APPR	OP. APPR	DATE
						1/8" = 1'-0"	Questec				9-27-91
REVISIONS						SERVICE CENTER LOCATION		SC-DWG-REV NO.		SHEET NO.	
						MEDLEY, FL		316301-9000-00		28	



155' BUILDING SIGN LOCATION PLAN

SCALE: 1/8" = 1'-0"

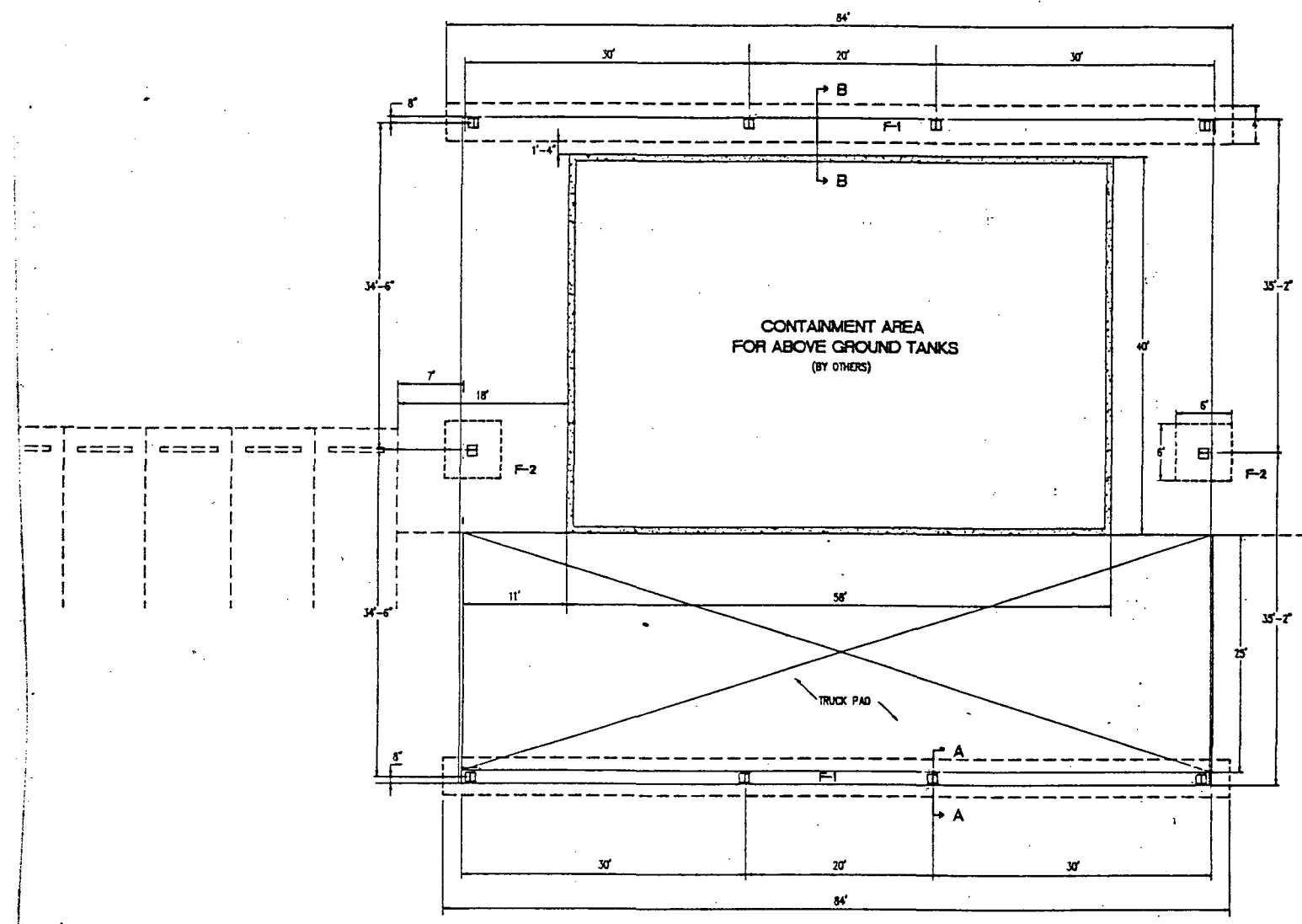





## FOUNDATIONS


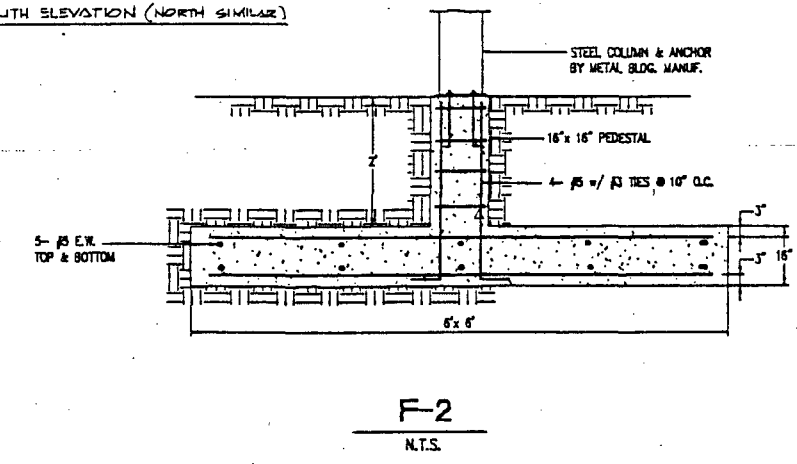
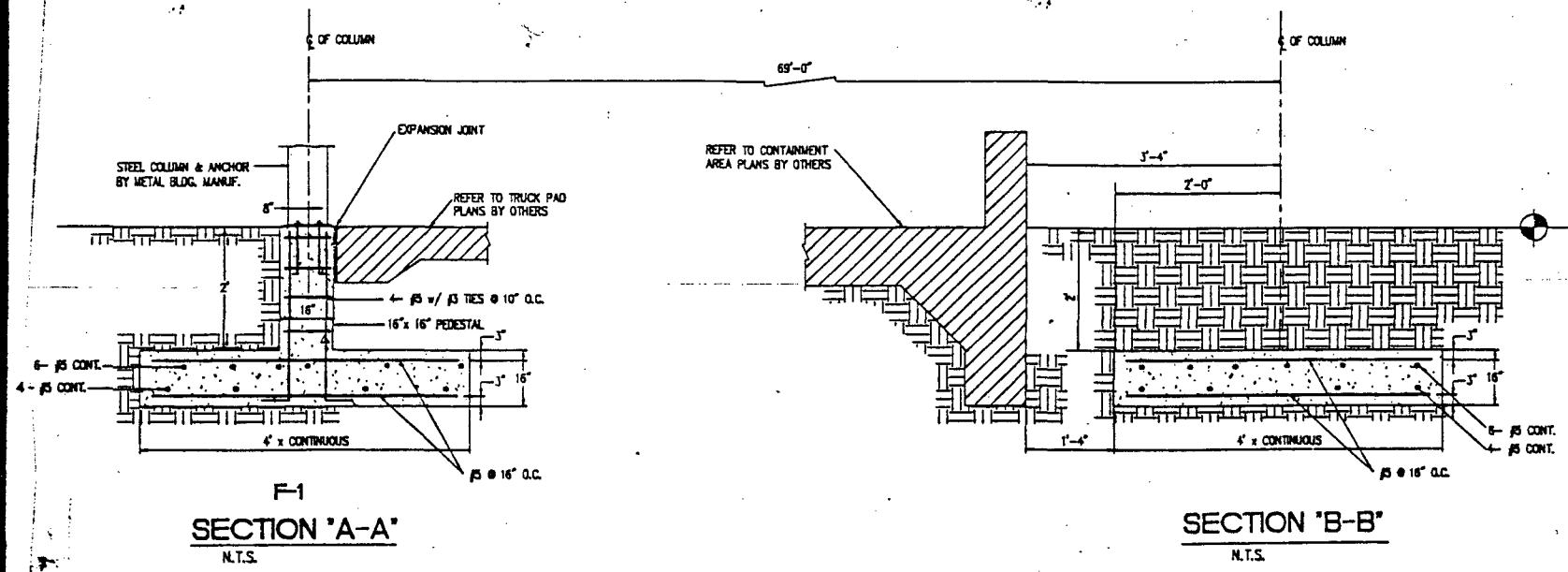
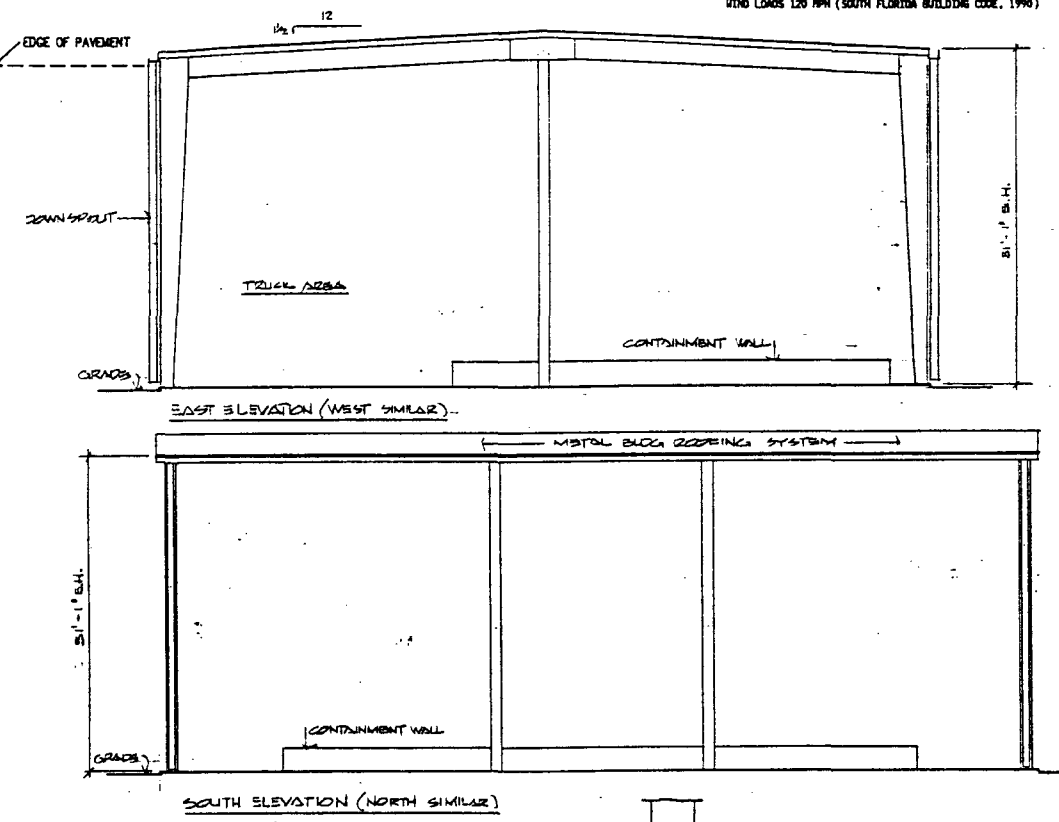
[illegible]

- GENERAL**
1. PRE-ENGINEERED METAL BUILDING COMPONENTS SHALL BE DESIGNED FOR ALL LOADS PRESCRIBED BY THE SOUTH FLORIDA BUILDING CODE, LATEST EFFECTIVE EDITION. SHOP DRAWINGS SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION OR ERECTION.
  2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL ANCHOR BOLT AND FOOTING LOCATIONS WITH METAL BUILDING MANUFACTURER'S SHOP DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
  3. DESIGN LOADS:  
  
ROOF LIVE LOAD = 30 PSF  
  
ROOF DEAD LOAD = STEEL LOAD + 3 PSF ADDITIONAL  
  
WIND LOADS 120 MPH (SOUTH FLORIDA BUILDING CODE, 1990)



 FOUNDATION PLAN

SCALE:  $1/8" = 1'-0"$



**Developers Choice, Inc.**

Commercial • Industrial • Architecture • Civil Engineering • Land Planning • Design Feasibility

SAFETY KLEEN  
MEDLEY FLORIDA.

TANK FARM CANOPY

Drawn	GS
Check	
Date	6-18-92
Scale	NO NOTED
Job No.	3291

Sheet:

ST- 1