



DEPARTMENT OF THE NAVY
NAVAL TRAINING CENTER
2701 SHERIDAN ROAD
GREAT LAKES, ILLINOIS 60088-5001

N TCGLAKESINST 5090.13
N45

AUG 05 1997

NTC GREAT LAKES (COMPLEX²) INSTRUCTION 5090.13

From: Commander, Naval Training Center, Great Lakes

Subj: ABOVEGROUND STORAGE TANK (AST) MANAGEMENT PLAN

- Ref: (a) OPNAVINST 5090.1B
(b) Code of Federal Regulations, Title 40, Parts 280, and 281.
(c) Hazardous Waste and Solid Waste Amendments (HWSA) of 1984, Subtitle I, to the Solid Waste Disposal Act (SWDA) of 1965.
(d) Code of Federal Regulations, Title 29, Parts 1910, Section 106; Flammable and Combustible Liquids.
(e) Code of Federal Regulations, Title 40, Part 110, Section 5.
(f) Code of Federal Regulations, Title 40, Part 112, Section 7.
(g) State of Illinois, Office of State Fire Marshall, TITLE 41, Fire Protection, Parts 170, 180, and 200.
(h) Illinois Environmental Protection Agency, Environmental Protection Act, Title V, Land Pollution and Refuse Disposal; Sections 20 through 22.
(I) Spill Prevention Control and Countermeasures, NTC Inst. 5090.8A.

Encl: (1) Aboveground Storage Tank (AST) Management Plan 1997.

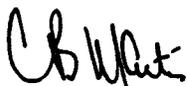
1. **Purpose.** To promulgate and establish local procedures for managing the operation, maintenance and future programming requirements for all existing and new aboveground storage tanks (AST) located at all Commands and activities within the Naval Training Center (NTC) Great Lakes Complex.

2. **Background.** Reference (a) requires Commanders and Commanding Officers to comply with United States Environmental Protection Agency (USEPA), as well as State of Illinois and local regulations while operating ASTs at NTC Great Lakes. References (b) through (I) enforce requirements governing ASTs.

3. **Policy.** NTC Great Lakes has the responsibility to actively protect and enhance the quality of the environment through the adherence with all applicable regulatory requirements. This includes initiating actions to promote the prevention of soil and groundwater contamination and evaluation of any potential for leaks from the ASTs and its ancillary equipment.

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4. Action. Actions required by all NTC Great Lakes Complex Staff, Component Commands and Tenant activities are detailed in enclosure (1).



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Distribution:

NTCGLAKESINST 5216.5M

Lists II (Case B), III-A, C

~~AUG 05 1997~~

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101. MISSION STATEMENTS

a. NAVAL TRAINING CENTER, GREAT LAKES - The mission of the Naval Training Center Great Lakes is to exercise command over, and coordinate the efforts of the assigned subordinate activities in effecting basic indoctrination for enlisted personnel and initial skill, advanced and/or specialized training for officer and enlisted personnel of the Navy.

b. RECRUIT TRAINING COMMAND, GREAT LAKES - To conduct a training program which will effect a smooth transition from civilian to Navy life, provide the recruit with knowledge and skills basic to all Naval personnel and to provide the Department of the Navy with personnel possessing an effective level of physical fitness.

c. SERVICE SCHOOL COMMAND, GREAT LAKES - To provide training for officer and enlisted personnel to prepare them for usefulness in their designated specialties and to supplement training afloat by providing personnel advanced and/or specialized training when such training can be more advantageously given ashore.

d. NAVY PUBLIC WORKS CENTER, GREAT LAKES - The mission of the Navy Public Works Center Great Lakes, is to provide public works, utilities, housing, transportation support and engineering logistic support of a public works nature required by the operating forces dependent activities and other Commands served by the Navy Public Works Center.

e. NAVAL HOSPITAL, GREAT LAKES - The Naval Hospital provides comprehensive inpatient, outpatient and emergency services. The Naval Hospital ensures proper contingency training for the hospital staff and maintains personnel and material readiness. The Command also maintains disaster standards preparedness.

f. NAVAL RESERVE CENTER, GREAT LAKES - The mission of the Naval Reserve Center is to manage assigned resources, to advise and assist all Selected Reserve and active forces when authorized and directed, to cultivate and maintain friendly and cooperative community relations.

102. SCOPE: This plan identifies resource needs in terms of equipment, facilities, and personnel and provides operational procedures for implementing a compliance-oriented Aboveground Storage Tank Management Plan for all commands and activities within the NTC Great Lakes Complex. See "Appendices A and D" and Secondary Containments.

103. AUTHORITY: The Aboveground Storage Tank Management Plan for NTC Great Lakes Complex is prepared using Environmental Protection Agency Regulations and OPNAV 5090.1B.

104. SPECIFIC RESPONSIBILITIES: Responsibilities for the AST Management Program within NTC Great lakes are:

a. Commander, Naval Training Center

(1) Maintain AST operating records from tenants and component commands and reports required by the USEPA and IEPA and other agencies and Navy Reporting chain of command.

(2) Maintains liaison with Illinois Environmental Protection Agency and Office of the State Fire Marshal on all matters concerning environmental protection of ASTs.

(3) Assists in AST inspection programs for commands at NTC Great Lakes Complex.

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(4) Maintains liaisons with the Navy Public Works Center (PWC) Great Lakes in accomplishing joint AST taskings.

(5) Oversees tenant and component commands in AST training for managers and operators of AST and ancillary equipment.

b. NTC Great Lakes Safety Manager

(1) Assists in AST inspection program for commands at NTC Great Lakes Complex.

(2) Maintains liaisons and assists PWC Great Lakes in accomplishing AST taskings.

(3) Assists component commands and tenant activities in AST safety training for operators.

c. Commanding Officers of Commands operating and Maintaining AST Systems

(1) Assigns Activity Commands' Environmental Coordinators the responsibility of conducting monthly storage tank survey, maintaining operating records and associated documentation and forwards copies to Great Lakes Environmental Department for required reporting actions.

(2) Ensures ongoing training for personnel operating, managing and maintaining ASTs.

d. Command Environmental Coordinators

(1) Periodically inspects buildings and associated exterior sites for AST system spills, leaks and associated deterioration and forwards required reporting actions to Great Lakes Environmental Department.

(2) Provides assistance and ongoing training, both classroom and on-the-job, for personnel operating and maintaining ASTs. Maintains records and reports completed training to Great Lakes Environmental Department.

(3) Acts as point of contact for AST inspections from regulatory agencies, and Great Lakes Environmental Department providing data as requested and/or required.

105. GLOSSARY OF TERMINOLOGY

(1) Aboveground Release - Any release to the surface of the land or water, including releases from the AST system associated with overfills and transfer operation as the regulated substance moves to or from an AST system.

(2) Ancillary Equipment - Any devices, including but not limited to, fittings, flanges, valves and pumps, used to distribute, meter or control the flow of regulated substances to and from the AST system.

(3) Belowground Releases - Any release to the subsurface of the land or groundwater, including releases from the belowground portion of an AST system and associated overfills and transfer operations as the regulated substance is in transit to or from an AST.

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- (4) Cathodic Protection - Technique to prevent corrosion of a metal surface through the application of either galvanic anodes or impressed circuit.
- (5) Cathodic Protection Tester - Person who understands the principles and measurement methods of cathodic protection systems as applied to buried or submerged metal piping and tank systems. At a minimum, such persons must have education and experience in soil resistivity, stray current, structure to soil potential and component electrical isolation measurement of buried piping and tank structure.
- (6) CERCLA - Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended.
- (7) Compatible - The ability of two or more substances to maintain their respective physical and chemical properties upon contact with one another for the design life of the tank system under conditions likely to be encountered in the AST.
- (8) Connected Piping - All piping including valves, elbows, joints, flanges, and flexible connectors attached to the tank system, through which regulated substances flow. For the purpose of determining how much piping is connected to any individual AST system, the piping that joins two or more AST systems should be allocated equally between them.
- (9) Consumptive Use - Consumed on the premises.
- (10) Corrosion Expert - An accredited or certified person or registered engineer who has a certificate or license, qualified to engage in the practice of corrosion control on metal piping system and metal tanks.
- (11) Existing Tank System - A tank system used to contain an accumulation of regulated substances which was in active service or under construction on 22 Dec 1988.
- (12) Flow-Through Process Tank - A tank that forms an integral part of a production process through which there is a steady, variable, recurring or intermittent flow of materials during the operation of the process. Flow-through process tanks do not include tanks used for the storage of materials prior to the introduction into the production process or for the storage of finished products or by products from the production process.
- (13) Free Product - A regulated substance that is present as a non-aqueous phase liquid (e.g., liquid not dissolved in water.)
- (14) Heating Oil - Petroleum that is No. 1, No. 2, No. 4-Light, No. 4-Heavy, No. 5-Light, No. 5-Heavy, and No. 6 Technical grades of fuel oil; other residual fuel oils (including Navy Special Fuel Oil and Bunker C); and other fuels when used as substitutes for one of these fuel oils. Heating oil is typically used in the operation of heating equipment, boilers or furnaces.
- (15) Implementing Agency - Environmental Protection Agency, or in the case of the State of Illinois, with a program approved under Section 9004 (or pursuant to a memorandum of agreement with EPA), the designated state or local agency responsible for implementing an approved AST program.
- (16) Motor Fuel - Petroleum or petroleum-based substance that is motor gasoline, aviation gasoline, No. 1 or No. 2 diesel fuel, or any grade of gasohol, and is typically used in the operation of a motor vehicle.

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- (17) New Tank System - A tank system containing regulated substance and installed after 22 December 1988.
- (18) Oil - Defined in 40 CFR 112.2 (Oil Pollution Prevention) as oil of any kind or in any form, including but not limited to, petroleum, fuel oil, sludge or oil refuse.
- (19) On The Premises Where Stored - AST system located on the same property where the heating oil is used.
- (20) Operational Life - Period beginning when installation of the tank system has commenced until the time the tank is properly closed per requirements of all federal, state and local codes.
- (21) Operator - Individual in control of or having responsibility for the daily operation of AST system.
- (22) Overfill Release - Release occurring when the tank is filled beyond capacity, resulting in discharge of the regulated substance into the environment.
- (23) Owner - Any person who owns an AST system used for storage, dispensing of a regulated substances, or has discontinued its use.
- (24) Petroleum AST System - AST system that contains petroleum or a mixture of petroleum, with minimum quantities of any other regulated substances including motor fuels, jet fuels, distillate fuel oils, lubricants, petroleum solvents and used oils.
- (25) Recoverable Product - A product which has served its intended purpose or contains foreign matter which renders it unfit for original or alternate use, but through processing or refining can be reclaimed for alternate use by the Navy or commercial industry.
- (26) Regulated Substance - Any substance defined in Section 101, (14) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) 1980 (but not including any substance regulated as a hazardous waste under Subtitle C) and petroleum products as defined in 40 CFR 280.12.
- (27) Release - Any spilling, leaking, emitting, discharging, escaping, leaching, or disposing from an AST system into groundwater, surface water or sub-surface soils.
- (28) Release Detection - Determining whether a release of a regulated substance has occurred from the AST system into the environment or into an interstitial space between the AST and its secondary containment.
- (29) SARA - Superfund Amendments and Reauthorization Act of 1986.
- (30) Tank - A stationary device, designed to contain an accumulation of regulated substance and constructed of non-earthen materials (e.g., concrete, steel, plastic) that provide structural support.
- (31) Underground Area - Underground room, such as a basement, cellar, shaft, or vault providing enough space for physical/visual inspection of the exterior of the tank situated on or above the surface of the floor.

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(32) Aboveground Storage Tank (AST) - Any one or combination of tanks to include all above or below ground piping that is used to contain an accumulation of regulated substances.

(33) Upgrade - The addition of or retrofit of systems such as cathodic protection, lining, or spill/overflow controls to improve the ability of an AST system to prevent release of the product.

(34) AST System - Aboveground storage tank, and all ancillary equipment including piping, pumps and all necessary pollution control equipment.

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CHAPTER 2

201. **Aboveground Storage Tank (AST) Regulations:** In accordance with OPNAVINST 5090.1B, the management of the aboveground tanks and ancillary equipment must comply with all federal, state, and local regulations as follows:

a. FEDERAL REGULATIONS

(1) Hazardous Waste and Solid Waste Amendments (HSWA) of 1984, Subtitle 1, to the Solid Waste Disposal Act (SWDA) of 1965. These amendments establish a national regulatory program for managing ASTs containing hazardous materials, including petroleum products.

(2) USEPA, Code of Federal Regulations, Title 40, Part 112. Technical Standards and Corrective Action Requirements for Owners and Operators of ASTs. This regulation establishes standards for installation and certification of all new and existing AST and ancillary systems.

(3) USEPA, Code of Federal Regulations, Title 40, Part 281: Approval of State AST programs. This regulation establishes requirements the state of Illinois must meet to have a federally approved program.

(4) Occupational Safety and Health Standards (OSHA), Code of Federal Regulations Title 29, Part 1910. Section 106: Flammable and Combustible Liquids. Section 106 (b) (7) (iii) requires hydrostatic testing of all AST's connections before using the system for storage of flammable or combustible liquids.

(5) USEPA, Code of Federal Regulations, Title 40, Part 110, Section 5. Section 5 prohibits discharge of any old and/or hazardous substance into the navigable waters of the United States. A leak from a AST will violate this regulation.

(6) Hazardous Waste and Solid Waste Amendments (HSWA) of 1984, Subtitle I, to the Solid Waste Disposal Act (SWDA) of 1965 established a national regulatory program for managing ASTs containing hazardous materials, especially petroleum products.

(7) Superfund Amendment and Reauthorization Act (SARA), Section 205 of 1986 defines petroleum, storage tank inventories, financial responsibility for storage tank owners, EPA/IEPA authority for corrective actions, and state/political subdivision right to adopt/enforce more stringent requirements.

(8) Resource Conservation and Recovery Act (RCRA), Subtitle C, Section 9003 requires EPA/IEPA establish standards for release detection, prevention, corrective action and financial responsibility associated with releases from all storage tanks containing regulated substances.

(9) Resource Conservation and Recovery Act (RCRA), Subtitle C Section 9007 requires that all agencies of the Federal government that have jurisdiction over any storage tanks must comply with all Federal, State, Interstate and Local regulations. This means no agency is immune to the regulations set forth in RCRA.

b. STATE REGULATIONS

(1) State of Illinois, Office of the State Fire Marshall (OSFM), Title 41, Fire Protection, Parts 160, 170, and 180. Storage, Transportation, Sale, and Use of petroleum and other regulated substances. For installation of new Aboveground Storage Tanks, application to OSFM is required. See Appendices B-1 through B-4.

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(2) IEPA, Environmental Protection Act, Title V; Land Pollution and Refuse Disposal; Sections 20 and 22. This Act incorporates state regulations for permitting, notification and operation of storage tanks.

202. NTC GREAT LAKES REQUIREMENTS

a. Great Lakes Environmental Department, shall assign facility numbers and maintain an inventory database of all AST systems and coordinate with PWC Great Lakes and other tank property owners.

(1) Tank property owners shall provide tank status updates of upgrades, removals, new installations, and change of service for operated tanks to the Great Lakes Environmental Department.

(2) AST operators shall:

(a) Provide a quarterly update of information in the AST inventory and AST Plan of Action to the Great Lakes Environmental Department.

(b) Prepare and submit Pollution Control Reports to Great Lakes Environmental Department for AST upgrades, removal, and site remediation projects.

(3) Operators and Contractors, shall provide copies of all construction and removal permits, change-in-service notifications, suspected release reports, corrective action field correspondence, and construction drawings and specifications to Great Lakes Environmental Department for inclusion into the Command database records.

(4) Great Lakes Environmental Department shall maintain drawings and specifications for tank installation and removal designs.

(5) Users of AST systems owned by NTC Great Lakes shall coordinate retrofit, replacement and new tank requirements, AST systems testing, maintenance, repair, and replacement with Great Lakes Environmental Department.

203. Registration Requirements (to be added at a later date)

204. Release Detection Requirements

a. The current EPA regulations include requirements for monitoring regulated ASTs and piping for releases. Various options are available including both automatic and manual methods. Release detection is not required for emergency generators.

b. Automatic release detection methods are preferred in order to avoid extensive labor costs and human error inherent to manual methods. New ASTs are normally equipped with automatic release detection equipment. Until all tanks are upgraded or replaced manual leak detection methods must continue.

c. Manual release detection methods include Manual Tank Gauging and Inventory Control.

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(1) Manual Tank Gauging must meet the following requirements:

(a) Tank liquid level measurements are taken at the beginning and ending of a period of at least 36 hours during which no liquids are added to or removed from the tank(s).

(b) The equipment using either site glass, or dip stick must be capable of measuring liquid to the nearest 1/8 of an inch.

(c) Manual tank gauging should be performed in accordance with Appendix C, American Petroleum Institute Publication 1621, "Recommended Practice for Bulk Liquid Stock Control at Retail Outlets," (API 1621).

(2) Inventory Control must be conducted monthly and be able to detect a release of at least 1% of the flow-through plus 130 gallons on a monthly basis in the following manner:

(a) Inventory volume measurements for deliveries, withdrawals, and the amount still remaining in the tank are recorded each operating day;

(b) The equipment used is capable of measuring the level of the product over the full range of the tank's height to the nearest 1/8 of an inch;

(c) The deliveries are reconciled with the delivery receipts and the measurement of the tank inventory before and after delivery.

(d) Product dispensing is metered and recorded with local standards for meter calibration, or an accuracy of 6 cubic inches for every 5 gallons of product withdrawn.

205. Corrosion Protection Requirements. The current EPA regulations require that ASTs and their ancillary aboveground piping be protected against corrosion. This may be accomplished by cathodic protection, or the use of non-corrosive material. (40 CFR 280.31, IL. OFSM 160.70)

206. Spill Protection. Current EPA, OSFM, and IEPA regulations require that all regulated ASTs have spill protection. This includes the use of double-wall tanks of both steel or manmade materials, the use of diking or berms constructed of earthen material, or concrete. All concrete structures shall have footings that extend below the frost line. All new installations shall comply with all current regulations for materials, overflow & overfill protection, this may include the use of double wall piping with interstitial sensors to detect any leaks within the piping system. (IL. OSFM 160.200)

207. Overfill Protection. In addition to spill protection, the EPA, OFSM, and IEPA regulations also require that all regulated ASTs have overfill protection. This includes the use of automatic overflow shutoff, and overflow alarms. All new or renovated tanks must comply with all current regulations.

208. Repair of ASTs. Repairs to ASTs must be in compliance with the following requirements:

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- a. Repairs to ASTs must be properly conducted in accordance with a code of practice developed by a nationally recognized association or an independent testing laboratory, Underwriters Laboratory/Steel Tank Institute (UL/STI).
- b. Repairs to fiberglass-reinforced plastic tanks may be made by the manufacturer's authorized representative or a trained and certified contractor who meets the manufacturer's standards.
- c. Metal pipe sections and fittings that have released product as a result of corrosion or other damage must be replaced. Fiberglass pipes and fittings may be repaired in accordance with manufacturer's specifications.
- d. Repaired tanks and piping must be tightness tested in accordance with all EPA, OSFM, and IEPA within 30 days of repair unless the repaired portion is internally inspected or equipped with an automatic monitoring system.
- e. The owner/operator must maintain records of each repair for the remaining operating life of the tank system to insure compliance with existing regulations at time of repair or update. All records must be forwarded to Great Lakes Environmental Department.

209. Change In Service of AST Systems. Changing the use of the tank to store different materials, abandonment, or removal of the tank etc., constitutes a change in service for the tank system. Using the tank system to store even a non-regulated substance (so that it is no longer classified as an AST system) is also considered a change in service. Before a change in service may occur the tank must be emptied, cleaned, and a site assessment must be completed. The change in service may only occur during the first two years of service commencing from the first date of installation. The Great Lakes Environmental Department, Illinois EPA (IEPA), and the Office of the State Fire Marshal (OSFM) must be notified of all changes in service.

210. Release Response.

- a. Release Reporting - the following conditions must be reported within 24 hours of the occurrence and indicated actions taken in the time frames specified:
 - (1) Suspected Reporting - a release is suspected if any of the following conditions occur:
 - (a) Evidence of a release is found at the AST site or in the surrounding area (such as the presence of free product or vapors in the soil, basements, sewers, or utility lines, or nearby surface waters);
 - (b) Unusual operating conditions are observed (such as loss of product from the AST system, or an unexplained presence of water in the AST), unless system equipment is found defective but not leaking, and is immediately repaired or replaced.
 - (2) Corrective Action - Owners and operators of petroleum or hazardous substance AST systems must, in response to a confirmed release from the AST system, comply with the following requirements:
 - (a) Initial Response - Within 24 hours perform the following:
 1. Report the release to the IEPA, telephonically and by message.

2. Take action to prevent further release of the regulated substance into the atmosphere.

3. Identify and mitigate fire, explosion and vapor hazards. Notify NTC Great Lakes Fire Department.

(b) Initial Abatement Measures and Site Check - As soon as practicable, perform the following:

1. Remove as much of the regulated substance from the storage tank as possible to prevent further release to the environment.

2. Visually inspect the area to ensure that all hazardous material is contained to prevent further environmental contamination.

3. Monitor and mitigate all free product and vapor hazards especially utility races and building basements.

4. Contain and control all hazards caused by excavation of contaminated soil as a result of the release.

5. Prior to 20 days after the event, submit all proper reports to IEPA, OSFM, and EPA. This must include all abatement of free product, initial soil remediation and containment of any other surface and sub-surface contaminants.

6. Site clean-up - after initial response, the owner/operator must remediate the site in accordance with 40 CFR 280.63 - 280.66

211. Security of Aboveground Storage Tanks.

a. All ASTs should be fenced and entrance gates locked while the Facility is unattended.

b. The master flow and the drain valves or any other valve that will permit direct outward flow of the tank's contents shall be locked or otherwise secured when not operating or in a non-standby position.

c. The AST shall be adequately illuminated to insure the area is secure from vandalism and to insure that any discharge/spill may be detected by both operating personnel or the general population.

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ABOVEGROUND STORAGE TANK MANAGEMENT PLAN

NAVAL TRAINING CENTER

GREAT LAKES, ILLINOIS

CONTACT

COMMANDER, NAVAL TRAINING CENTER

ENVIRONMENTAL DEPARTMENT

TELEPHONE NO. (847) 688-4197/4693

1997

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ABOVEGROUND STORAGE TANK WEEKLY INSPECTION

BLDG. NO.: _____
 DATE: _____
 TANK NO.: _____
 NAME OF INSPECTOR: _____

	O.K.	PROBLEM	N/A	Remarks
1. TANK CONDITION:				
A. Surface corroded or rusted				
B. Stress marks				
C. Chipping paint				
D. Cracks				
E. Discoloration of Tank				
F. Leaking				
G. Vapor recovery				
H. Leak detector				
I. Overfill or overflow protection				
2. FOUNDATION:				
A. Cracks				
B. Discoloration				
C. Settling				
D. Gaps between tank and foundation				
E. Damaged caused by vegetation roots				
3. DOUBLE - WALLED :				
A. Leak or interstitial detector				
4. SECONDARY CONTAINMENT :				
A. Cracks / vegetation in cracks or expansion joints				
B. Is provided for the entire contents of the largest single tank plus sufficient freeboard				
C. Drain valves shut and locked				
D. Contaminated or visible signs of oil				
E. Properly drained or rainwater accumulation				
F. No opening for pipe				
G. Impervious to spill				
5. PIPING / PUMPS / VALVES:				
A. Corroded or rusted				
B. Bowing of pipe between supports				
C. Leaking				
D. Cathodic protected or any protection				
6. INTEGRITY TESTING : (Expiration Date: _____)				
A. Hydrostatic testing				
B. Visual inspection				
C. Non-destructive shell thickness testing				

7. OTHER OBSERVATIONS:
 Note anything that is out of the ordinary: _____

8. COMMENTS (Discuss "Problems" and any corrective action taken): _____

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APPENDICES

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TABLE FRP 3.1: ABOVEGROUND OIL STORAGE TANKS

TANK NO.	BUILDING AREA	OIL/HAZARDOUS SUBSTANCE STORED	OPERATIONAL MAXIMUM CAPACITY (gal)	DAILY AVERAGE STORED (gal)	TANK TYPE	TANK MATERIAL	INSTALLATION (YEAR)	FAILURE CAUSE & DATE (if applicable)
1H-NA1	1H	#2DF	100	90	AST, RECT	WS	UNK	
200-NA1	200H	#2DF	100	75	BST, RECT	WS	1976	No data
200-NA2	200H	#2DF	100	75	BST, RECT	WS	1976	No data
200-NA3	200H	#2DF	200	200	BST, VCYL	WS	1978	No data
11 NA1	11	#2DF	275	225	AST, HOVL	WS	UNK	
11 NA2	11	#2DF	275	225	AST, HOVL	WS	UNK	
11 NA3	11	Empty	20,000	0	AST, HCYL	DU	UNK	
11E	11	#6FO	400,000	320,000	AST, VCYL	WS	UNK	Overflow in '94
11F	11	#6FO	400,000	320,000	AST, VCYL	WS	UNK	None
11K	11	#6FO	1,000,000	700,000	AST, VCYL	WS	UNK	Overflow in '94
11L	11	#6FO	1,000,000	700,000	AST, VCYL	WS	UNK	None
11-T-11	11	GAS	200	175	AST, HOVL	WS	UNK	
11-T-12	11	#6FO	1,500	1,275	AST, HCYL	WS	1985	
11-T-13	11	#6FO	1,500	1,275	AST, HCYL	WS	1985	
1-13-GAS	13	GAS	500	1,375	AST, HCYL	WS	1993	None
21-T-15	130	#2DF	150	120	AST, HCYL	WS	UNK	None
T-94-144-2	144	LO	170	100	AST, RECT	WS	1994	None
T-94-144-3	144	LO	240	150	AST, RECT	WS	1994	None
23-T-13	229	WO	700	NOT USED	AST, HCYL	WS	UNK	
23-T-14	229	WO	460	NOT USED	AST, HCYL	WS	UNK	
23-T-15	229	WO	1,000	750	AST, HCYL	WS	UNK	
23-T-16	229	LO	500	375	AST, RECT	WS	UNK	
23-T-17	229	LO	1,400	1,000	AST, HOVL	WS	UNK	
158-1-F	236	LO	317	259	AST, HCYL	WS	1975	None
158-2-F	236	LO	317	259	AST, HCYL	WS	1975	None
158-3-F	236	LO	317	259	AST, HCYL	WS	1975	None
159-1-F	236	LO	317	259	AST, HCYL	WS	1975	None
159-2-F	236	LO	317	259	AST, HCYL	WS	1975	None
159-3-F	236	LO	317	259	AST, HCYL	WS	1975	None
238-1-F	238	#2DF	400	318	AST, HCYL	WS	1978	
238-1-LO	238	LO	600	564	AST, HCYL	WS	1978	
238-2-LO	238	LO	700	658	AST, HCYL	WS	1978	
1000 CONT	239	WO	1,000	750	BST	WS	1973	
23-T-1A	239	#2DF	12,000	9,000	BST, RECT	WS	UNK	
23-T-1B	239	#2DF	12,000	9,000	BST, RECT	WS	UNK	
23-T-6	239	WO	517	400	AST	WS	UNK	
3-103-1-F	239	LO	1,000	750	BST	WS	UNK	
3-105-1-F	239	LO	1,000	750	BST	WS	UNK	
4-101-2-F	239	#2DF	500	400	BST	WS	UNK	
4-112-1-F	239	LO	1,000	750	BST	WS	UNK	

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TABLE FRP 3-1: ABOVEGROUND OIL STORAGE TANKS								
TANK NO	BUILDING AREA	OIL/HAZARDOUS SUBSTANCE STORED	OPERATIONAL MAXIMUM CAPACITY (gal)	DAILY AVERAGE STORED (gal)	TANK TYPE	TANK MATERIAL	INSTALLATION (YEAR)	FAILURE CAUSE & DATE (If applicable)
4-96-2-F	239	#2DF	1,000	750	BST	WS	UNK	
23-T-22	325	LO	500	400	BST	WS	UNK	
23-T-23	325	LO	500	400	BST	WS	UNK	
23-T-25	325	O/W	500	400	BST	WS	UNK	
23-T-26	325	O/W	500	400	BST	WS	UNK	
23-T-27	325	INH8	500	400	BST	FG	UNK	
2-276-2-J	325	#2DF	350	250	BST	WS	UNK	
2-316-2-F	325	LO	883	700	BST	WS	UNK	
2-316-4-F	325	LO	883	700	BST	WS	UNK	
2-316-6-F	325	LO	883	700	BST	WS	UNK	
2-323-2-F	325	LO	1,215	1,000	BST	WS	UNK	
2-323-4-F	325	LO	1,215	1,000	BST	WS	UNK	
2-344-2-F	325	#2DF	447	350	BST	WS	UNK	
2-381-1-F	325	#2DF	447	350	BST	WS	UNK	
2-384-2-F	325	#2DF	447	350	BST	WS	UNK	
3-236-1-F	325	LO	272	200	BST	WS	UNK	
3-236-2-F	325	LO	272	200	BST	WS	UNK	
3-240-1-F	325	#2DF	747	550	BST	WS	UNK	
3-240-2-F	325	#2DF	747	550	BST	WS	UNK	
3-272-2-F	325	LO	1,217	1,000	BST	WS	UNK	
3-278-2-F	325	LO	1,501	1,200	BST	WS	UNK	
3-286-2-F	325	LO	1,163	900	BST	WS	UNK	
47GTM	325	WO	435	350	BST	WS	UNK	
5	325	WO	1,247	950	BST	WS	UNK	
5	325	WO	1,649	1,200	BST	WS	UNK	
5	325	WO	295	250	BST	WS	UNK	
5	325	WO	447	350	BST	WS	UNK	
5-204-1-F	325	#2DF	16,990	12,000	AST, RECT	WS	UNK	
5-204-2-F	325	#2DF	16,890	12,000	AST, RECT	WS	UNK	
5-222-0-F	325	WO	457	350	BST	WS	UNK	
5-260-1-F	325	#2DF	25,629	20,000	AST, RECT	WS	UNK	
5-260-2-F	325	#2DF	25,629	20,000	AST, RECT	WS	UNK	
5-290-2-F	325	WO	111	80	BST	WS	UNK	
7MRC	325	WO	360	275	BST	WS	UNK	
8326TK	326	#2DF	211,507	150,000	AST, VCYL	WS	UNK	
1-493-1-A	329	#2DF	500	400	AST, VCYL	WS	1985	None
1-493-1-B	329	#2DF	500	400	AST, VCYL	WS	1983	None
1-493-1-C	329	#2DF	500	400	AST, VCYL	WS	1985	None
1-76-1-F	329	WO	250	150	AST, HOVL	WS	1986	None
1-76-2-F	329	WO	250	150	AST, HOVL	WS	1986	None
1-99-1-F	329	WO	50	40	AST	DU	1985	

AUG 05 1991

TABLE FRP 3-1: ABOVEGROUND OIL STORAGE TANKS

TANK NO	BUILDING AREA	OIL/HAZARDOUS SUBSTANCE STORED	OPERATIONAL MAXIMUM CAPACITY (gal)	DAILY AVERAGE STORED (gal)	TANK TYPE	TANK MATERIAL	INSTALLATION (YEAR)	FAILURE CAUSE & DATE (if applicable)
D55-09	329	LO	750	550	AST, VCYL	WS	1986	
D55-10	329	LO	750	550	AST, VCYL	WS	1986	
912A	912	PER	8,679	6,500	AST	DU	UNK	
21-T-14	914	#2DF	200	200	AST, PARA	WS	UNK	None
914-NA1	914	#2DF	250	250	AST, HCYL	WS	UNK	None
22-T-1	933	#2DF	300	250	AST, HCYL	WS	UNK	None
22-T-2	933	GAS	300	250	AST, HCYL	WS	UNK	None
1410-1-WW	1410	WW	133,000	100,000	AST	DU	1990	
1410-2-WW	1410	WW	133,000	100,000	AST	DU	UNK	
1410-3-WW	1410	WW	133,000	100,000	AST	DU	UNK	
2110A	2110	WO	250	100	AST, HOLV	WS	1992	None
2110B	2110	WO	250	100	AST, HOLV	WS	1992	None
11-T-14	2216	#2DF	1,000	950	AST, RECT	WS	1991	None
3216-NA1	3216	GAS	275	200	AST, HCYL	WS	1984	DU
3305B	3304	GAS	4,000	NOT USED	AST, HCYL	WS	UNK	
3305C	3304	#2DF	9,000	NOT USED	AST, HCYL	WS	UNK	
3305D	3304	#2DF	3,000	NOT USED	AST, HCYL	WS	UNK	
29289	3311	GAS	300	225	AST, HOVL	WS	UNK	DU
29290	3311	#2DF	275	200	AST, HCYL	WS	UNK	DU
3402-NA1	3402	#2DF	500	450	AST, HCYL	WS	1978	DU
3402-NA2	3402	#2DF	250	NOT USED	AST, RECT	WS	UNK	DU
TOTAL MAXIMUM ABOVEGROUND OIL STORAGE CAPACITY (gal)								3,616,603

Key To Tank Codes

AST- Complete Aboveground Storage Tank	VCYL- Vertical Cylinder	WS- Welded Steel	ALK- Alkaline	OW- Oil/Water Mixture
PSST- Partially Bunded Storage Tank	HCYL- Horizontal Cylinder	RS- Riveted Steel	CO ₂ - Carbon Dioxide	PER- Perchloroethylene
BST- Bunkered Storage Tank	RECT- Rectangular	FG- Fiberglass	FW- Feed Water	PRO- Propane
VST- Vaulted Storage Tank	HOVL- Horizontal Oval	CC- Concrete	GAS- Gasoline	SPELL- Spill Contain Tank
	Other- Other types	All tanks are Fixed Roof	H ₂ O- Water	SW- Supply Water to FTFD
		UNK- Unknown	H ₂ SO ₄ - Sulfuric Acid	WG- Waste Oil
			INHIB- Corrosion Inhibitor	WW- Waste Water
			LO- Lube Oil	#2DF- No. 2 Diesel Fuel
			NaOH- Sodium Hydroxide	#6FD- No. 6 Fuel Oil

AUG 05 1997

TABLE FRP 3.3: SURFACE IMPOUNDMENTS (SI)						
SI NO	SUBSTANCE STORED	OPERATIONAL MAXIMUM CAPACITY (gal)	DAILY AVERAGE STORED (gal)	SURFACE AREA (ft ²)	INSTALLATION (YEAR)	FAILURE CAUSE & DATE
SI-1	Not used	Approx. 300,000	0	4,300	UNK	None
SI-2	Not used	Approx. 600,000	0	4,300	UNK	None
SI-3	Not used	Approx. 600,000	0	4,300	UNK	None
TOTAL SI MAXIMUM OIL STORAGE CAPACITY (gal)						N/A

AUG 05 1997

TABLE FRP 3.4: SECONDARY CONTAINMENT			
TANK NO OR TRANSFER FACILITY	SECONDARY CONTAINMENT ID	CAPACITY (gal)	CONTAINMENT TYPE
200-NA1/NA2/NA3	SC-200H	Approx. 1,250,000	Basement
11 NA1/2	SC-11-A	148	Metal Box
11E	SC-11-E	545,741	Concrete Walls
11F	SC-11-F	545,741	Concrete Walls
11K	SC-11-K	1,146,983	Concrete Walls
11L	SC-11-L	1,146,983	Concrete Walls
Powerhouse fuel oil unloading station	SC-11-H	Approx. 7,000	Concrete Curb
Fuel Oil Pumphouse	SC-11-G	700	Concrete Curb
11-T-11	SC-11-B	640	Concrete Curb
11-T-12	SC-11-C	1,675	Metal Box
11-T-13	SC-11-D	1,675	Metal Box
1-13-GAS	SC-13	Approx. 2,500	Above Ground Concrete Vault
23-T-13/T-14/T-16/T-17	SC-229B	Approx. 1,100	Floor Drain System
23-T-15	SC-229A	2,394	Indoor Containment Floor
158-1-F/158-2-F/158-3-F	SC-236-158	1,414	Metal Box
159-1-F	SC-236-159A	404	Metal Box
159-2-F/159-3-F	SC-236-159B	1,010	Metal Box
238-1-F/238-1-LO/238-2-LO	SC-238	25,928	Building Sump System.
23-T-1A, 23-T-1B, 23-T-6 1000 CONT. TK., 3-103-1-F, 3-105-1-F, 4-100-2, 4-101-2 4-112-1, 4-96-2	SC-239	Approx. 300,000	Ship Bulkheads
23-T-22, 23-T-23, 23-T-25, 23-T-26, 23-T-27, 2-276-2-J 2-316-2-F, 2-316-4-F, 2-316-2-F, 2-323-2-F, 2-323-4-F, 2-344-2-F, 2-381-1-F, 2-384-2-F, 3-236-1-F, 3-326-2-F, 3-240-1-F, 3-240-2-F, 3-272-2-F, 3-278-2-F, 3-286-2-F, 47GTM, 5-222-0-F, 5-290-2-F, 7MRC	SC-325C	Approx. 1,000,000	Ship Bulkheads
5-204-1-F/2-F	SC-325A	Approx. 3,700	Concrete Curbs (not sufficient)
5-280-1-F/2-F	SC-325B	Approx. 2,500	Concrete Curbs (not sufficient)
8326TK	SC-326	359,040	Earthen Berms
1-493-1-A/B/C	SC-329A	600	Indoor Containment Floor
1-76-1-F/2-F	SC-329B	67	Metal Box (not sufficient)
D55-09, D55-10, 99-1-F	SC-329C	Approx. 2,400	Concrete Pad and Curb
BLDG. 522	23-T-28	150	Tank
22-T-1/2	SC-1212	449	Concrete Pad and Curb
Containers only	SC-1712	100	Metal Berm
2110A, 2110B	SC-2110	250	Shop floor drain/pass through clarifier
11-T-14	SC-2216	3,421	Concrete Pad and Curb (not used or needed as tank is double walled)

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TABLE FRP 3.4: SECONDARY CONTAINMENT			
TANK NO. OR TRANSFER FACILITY	SECONDARY CONTAINMENT ID	CAPACITY (gal)	CONTAINMENT TYPE
3216-NA1	SC-3216	45	Concrete Curb (not sufficient)
BLDG. 3223	12M-T-4	10,000	Soil Containment Tank
3305B	SC-3304A	Approx. 2,524	Concrete Curb (not used)
3305C/D	SC-3304B	Approx. 4,208	Concrete Curb (not used)
19290	SC-3311-1	146	Concrete Curb (not sufficient)
19289	SC-3311-2	146	Concrete Curb (not sufficient)
TOTAL SECONDARY CONTAINMENT CAPACITY (gal)			Approx. 6,400,000
<i>Include tanks, sumps, drainage traps and panels</i>			



OFFICE OF THE ILLINOIS STATE FIRE MARSHAL
APPLICATION FOR NON-DISPENSING
ABOVE GROUND BULK STORAGE TANK INSTALLATION

SUBMIT THIS APPLICATION AND REQUIRED SITE DRAWINGS, BOTH IN TRIPPLICATE, TO:

OFFICE OF THE ILLINOIS STATE FIRE MARSHAL
FIRE PREVENTION DIVISION
100 WEST RANDOLPH STREET
SUITE 11-800
CHICAGO, IL 60601

FILE # (OSFM Office Use Only):

LOCATION OF TANK INSTALLATION

OWNER OF TANK/TANKS

BUSINESS NAME:
ADDRESS:
CITY/COUNTY:

NAME:
ADDRESS:
CITY: ZIP:

PERSON/COMPANY INSTALLING TANKS

REVIEW LETTER TO BE RETURNED TO:

NAME:
ADDRESS:
CITY: ZIP: PHONE:

NAME:
ADDRESS:
CITY: ZIP:

ARE OTHER EXISTING ABOVE GROUND STORAGE TANKS CURRENTLY LOCATED AT THIS SITE?

NUMBER OF TANKS TO BE INSTALLED AT THIS TIME:

SIZE OF TANKS TO BE INSTALLED (GALLONS)

CONTENTS OF TANKS TO BE INSTALLED

ARE THE TANKS TO BE INSTALLED: NEW OR USED

WILL DIKING OR SECONDARY CONTAINMENT BE PROVIDED? (Required)

METHOD OF SECONDARY CONTAINMENT

Earthen Dike Double Walled Tank Steel Catch-Pan
Concrete Dike Tank Vaulted in Concrete Other:

PURPOSE OF TANK INSTALLATION

(Tanks for dispensing fuel into motor vehicles require filing of different application)
Waste Oil Storage Emergency Generator Fuel Process Liquids
Auto Lube Oil Storage Heating Oil Bulk Petroleum Storage

SIZE OF EMERGENCY VENT TO BE PROVIDED FOR TANK/TANKS? (Required)

WILL TANK/TANKS BE ELECTRICALLY GROUNDED? (Required)

WHAT IS MATERIAL OF CONSTRUCTION OF TANK/TANKS?:

WILL TANK/TANKS BEAR THE LABEL OF U.L. _____ OR ANOTHER NATIONAL TESTING LAB? _____

IF TANKS DO NOT BEAR THE LABEL OF A RECOGNIZED LAB, TO WHAT SPECIFICATIONS ARE THEY CONSTRUCTED?: _____

WILL TANKS BE FABRICATED ON SITE?: _____ OR PURCHASED PREFABED? _____

WILL TANK/TANKS BE LOCATED "INDOORS"? _____
(If outdoor tanks only disregard this section of questions)

TYPE OF OCCUPANCY _____
(e.g. Hospital; Auto Dealer; Industrial Factory; Liquid Warehouse; Service Station)

IS THE TANK SEPARATED FROM OTHER AREAS OF THE BUILDING? _____
(2-hour fire-rated separation is required except for certain conditions)

METHOD OF SEPARATION FROM OTHER AREAS OF THE BUILDING:
_____ CONCRETE ENCASEMENT _____ FIRE RATED ROOM ENCLOSURE _____ OTHER: _____

IS THE TANK VENTED TO THE EXTERIOR? _____
(Exterior Venting Required Except for Class III-B Liquids)

IS A FIRE SUPPRESSION SYSTEM PRESENT? _____

WILL FIRE EXTINGUISHERS BE PROVIDED? _____
(A Class 4A:60BC rated extinguisher is required at minimum)

THE UNDERSIGNED DEPOSES AND SAYS THAT THE INFORMATION AND STATEMENTS CONTAINED IN THIS APPLICATION ARE TRUE AND CORRECT AND ARE MADE FOR THE PURPOSE OF OBTAINING AN APPROVAL FROM THE OFFICE OF THE STATE FIRE MARSHAL, DIVISION OF FIRE PREVENTION, FOR THE INSTALLATION OF ABOVE GROUND NON-DISPENSING STORAGE TANKS. THE INSTALLATION SHALL BE MADE IN FULL ACCORD WITH THE CONDITIONS SET FORTH IN THE SUBMITTED APPLICATION & SITE DRAWINGS.

NAME OF APPLICANT: _____ SIGNATURE: _____

TITLE: _____ REPRESENTING: _____

DATE: _____

FOR OFFICE USE ONLY

DATE REVIEWED: _____ BY: _____ SIGNATURE: _____

DISPOSITION:

_____ REVIEW LETTER ISSUED/INSTALLATION MAY BEGIN
INSTALLATION TO BE INSPECTED BY OSFM INSPECTOR BEFORE TANK IS USED

_____ APPLICATION REJECTED/INSTALLATION MAY NOT BEGIN BECAUSE:

- _____ No Plans were submitted with application
- _____ Insufficient information has been supplied
- _____ Installation is in violation of regulations
- _____ Other: _____



**OFFICE OF THE ILLINOIS STATE FIRE MARSHAL
APPLICATION FOR ABOVE GROUND STORAGE TANK INSTALLATION
FOR MOTOR VEHICLE FUEL DISPENSING PURPOSES**

SUBMIT THIS APPLICATION AND REQUIRED SITE DRAWINGS, BOTH IN TRIPPLICATE, TO:

OFFICE OF THE ILLINOIS STATE FIRE MARSHAL
FIRE PREVENTION DIVISION
100 WEST RANDOLPH STREET
SUITE 11-800
CHICAGO, IL 60601

FILE # (OSFM Office Use Only): _____

LOCATION OF TANK INSTALLATION

OWNER OF TANK/TANKS

BUSINESS NAME: _____
ADDRESS: _____
CITY/COUNTY: _____/_____

NAME: _____
ADDRESS: _____
CITY: _____ ZIP: _____

PERSON/COMPANY INSTALLING TANKS

REVIEW LETTER TO BE RETURNED TO:

NAME: _____
ADDRESS: _____
CITY: _____ ZIP: _____ PHONE: _____

NAME: _____
ADDRESS: _____
CITY: _____ ZIP: _____

DOES THIS FACILITY QUALIFY FOR DISPENSING FROM ABOVE GROUND STORAGE PER SECTION 180.20(A) OF TITLE 41 ILLINOIS ADMINISTRATIVE CODE? _____

IS THE INSTALLATION BEING MADE FOR NON-RETAIL DISPENSING OF FUEL INTO THE FUEL TANKS OF MOTOR VEHICLES, OR CONSTRUCTION EQUIPMENT FOR THEIR CONSUMPTION AND NOT OPEN TO THE GENERAL PUBLIC? _____

ARE OTHER EXISTING ABOVE GROUND STORAGE TANKS CURRENTLY LOCATED AT THIS SITE? _____

NUMBER OF TANKS TO BE INSTALLED AT THIS TIME (MAX = 2- 2,500 GALLON): _____

SIZE OF TANKS TO BE INSTALLED (GALLONS) _____

CONTENTS OF TANKS TO BE INSTALLED _____

ARE THE TANKS TO BE INSTALLED: _____ NEW OR _____ USED

WILL DIKING OR SECONDARY CONTAINMENT BE PROVIDED? (Required) _____

METHOD OF SECONDARY CONTAINMENT

_____ Earthen Dike _____ Double Walled Tank _____ Steel Catch-Pan
_____ Concrete Dike _____ Tank Vaulted in Concrete _____ Other: _____

WILL DISPENSERS, IF SEPARATE FROM TANK, BE CONTAINED IN DIKED/CONTAINED AREA? _____

IS AN APPROVED, NORMAL VENT PIPE PROVIDED WHICH IS A MINIMUM 1-1/2" IN DIAMETER AND A MINIMUM OF 12 FT. ABOVE THE GROUND OR 4 FT. ABOVE THE FILL PIPE? _____

IS AN EMERGENCY VENT PROVIDED FOR TANK/TANKS? (Required) _____

WILL TANK/TANKS BE ELECTRICALLY GROUNDED? (Required) _____

WHAT IS MATERIAL OF CONSTRUCTION OF TANK/TANKS?: _____

WHAT IS MATERIAL OF CONSTRUCTION OF PIPING?: _____

WILL TANK/TANKS BEAR THE LABEL OF U.L. _____ OR ANOTHER NATIONAL TESTING LAB? _____

IF TANKS DO NOT BEAR THE LABEL OF A RECOGNIZED LAB, TO WHAT SPECIFICATIONS ARE THEY CONSTRUCTED?: _____

WILL TANKS BE FABRICATED ON SITE?: _____ OR PURCHASED PREFABED? _____

ARE TANKS EQUIPPED WITH A PERMANENTLY CONNECTED PUMPING DEVICE LISTED BY U.L. OR F.M. ENGINEERING? _____

ARE THE TANKS LABELED TO INCLUDE A WARNING & THE NAME OF THE PRODUCT THEY CONTAIN? _____

WILL PUMPS BE SECURED AND LOCKED DURING ALL PERIODS OF NON-USE? _____

ARE TANKS, PUMPS AND PIPING:

A) AT LEAST 300 FT. FROM ANY MINE SHAFT, OR AIR OR ESCAPE SHAFT FROM ANY MINE? _____

B) AT LEAST 85 FT. FROM ANY SCHOOLHOUSE, CHURCH, HOSPITAL OR PLACE OF PUBLIC ASSEMBLY? _____

C) AT LEAST 30 FT. FROM ANY BUILDING OR COMBUSTIBLE OR FLAMMABLE STORED LIQUID? _____

D) AT LEAST 30 FT. FROM ALL SEWERS, MANHOLES, CATCH-BASINS, CESSPOOLS, SEPTIC TANKS OR CISTERNS? _____

E) AT LEAST 30 FT. FROM ANY PROPERTY LINE? _____

ARE THERE SITE PLANS AND APPLICATION FORMS ENCLOSED IN TRIPLICATE, SHOWING TANKS, PIPING, BUILDINGS, SEWERS, WELLS AND PROPERTY LINES WITH ALL APPROPRIATE DISTANCES INDICATED ON THE PLANS? _____

THE UNDERSIGNED DEPOSES AND SAYS THAT THE INFORMATION AND STATEMENTS CONTAINED IN THIS APPLICATION ARE TRUE AND CORRECT AND ARE MADE FOR THE PURPOSE OF OBTAINING AN APPROVAL FROM THE OFFICE OF THE STATE FIRE MARSHAL, DIVISION OF FIRE PREVENTION, FOR THE INSTALLATION OF ABOVE GROUND DISPENSING STORAGE TANKS. THE INSTALLATION SHALL BE MADE IN FULL ACCORD WITH THE CONDITIONS SET FORTH IN THE SUBMITTED APPLICATION & SITE DRAWINGS.

NAME OF APPLICANT: _____ SIGNATURE: _____

TITLE: _____ REPRESENTING: _____

DATE: _____

FOR OFFICE USE ONLY

DATE REVIEWED: _____ BY: _____ SIGNATURE: _____

DISPOSITION:

_____ REVIEW LETTER ISSUED/INSTALLATION MAY BEGIN
INSTALLATION TO BE INSPECTED BY OSFM INSPECTOR BEFORE TANK IS USED

_____ APPLICATION REJECTED/INSTALLATION MAY NOT BEGIN BECAUSE:

_____ No Plans were submitted with application

_____ Insufficient information has been supplied

_____ Installation is in violation of regulations

Other: _____

ABOVEGROUND STORAGE TANK WEEKLY INSPECTION

BLDG. NO.: _____

DATE: _____

TANK NO.: _____

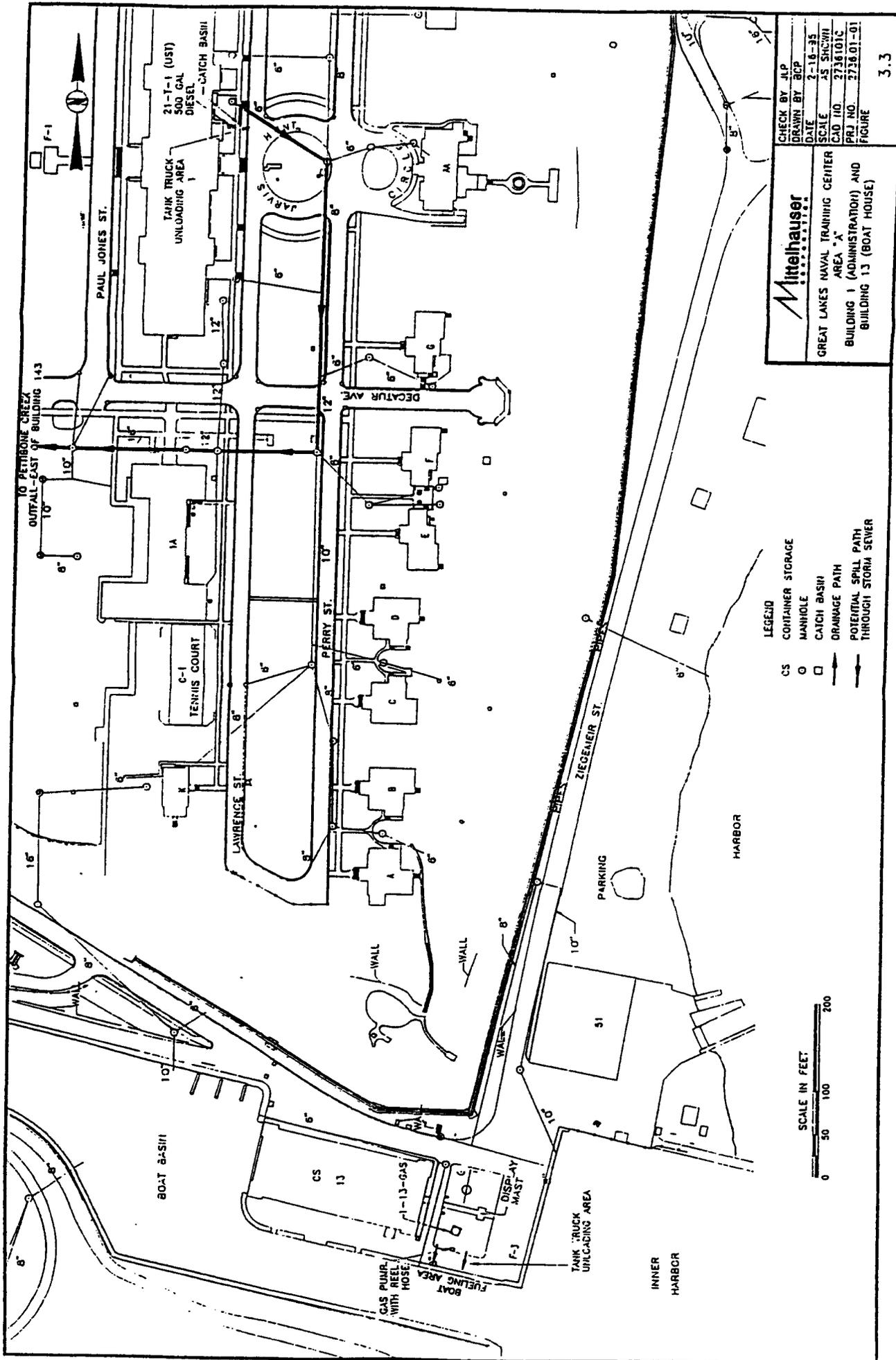
NAME OF INSPECTOR: _____

	O.K.	PROBLEM	N/A	Remarks
1. TANK CONDITION:				
A. Surface corroded or rusted				
B. Stress marks				
C. Chipping paint				
D. Cracks				
E. Discoloration of Tank				
F. Leaking				
G. Vapor recovery				
H. Leak detector				
I. Overfill or overflow protection				
2. FOUNDATION:				
A. Cracks				
B. Discoloration				
C. Settling				
D. Gaps between tank and foundation				
E. Damaged caused by vegetation roots				
3. DOUBLE - WALLED :				
A. Leak or interstitial detector				
4. SECONDARY CONTAINMENT :				
A. Cracks / vegetation in cracks or expansion joints				
B. Is provided for the entire contents of the largest single tank plus sufficient freeboard				
C. Drain valves shut and locked				
D. Contaminated or visible signs of oil				
E. Properly drained or rainwater accumulation				
F. No opening for pipe				
G. Impervious to spill				
5. PIPING / PUMPS / VALVES:				
A. Corroded or rusted				
B. Bowing of pipe between supports				
C. Leaking				
D. Cathodic protected or any protection				
6. INTEGRITY TESTING : (Expiration Date: _____)				
A. Hydrostatic testing				
B. Visual inspection				
C. Non-destructive shell thickness testing				

7. OTHER OBSERVATIONS:

Note anything that is out of the ordinary: _____

8. COMMENTS (Discuss "Problems" and any corrective action taken): _____



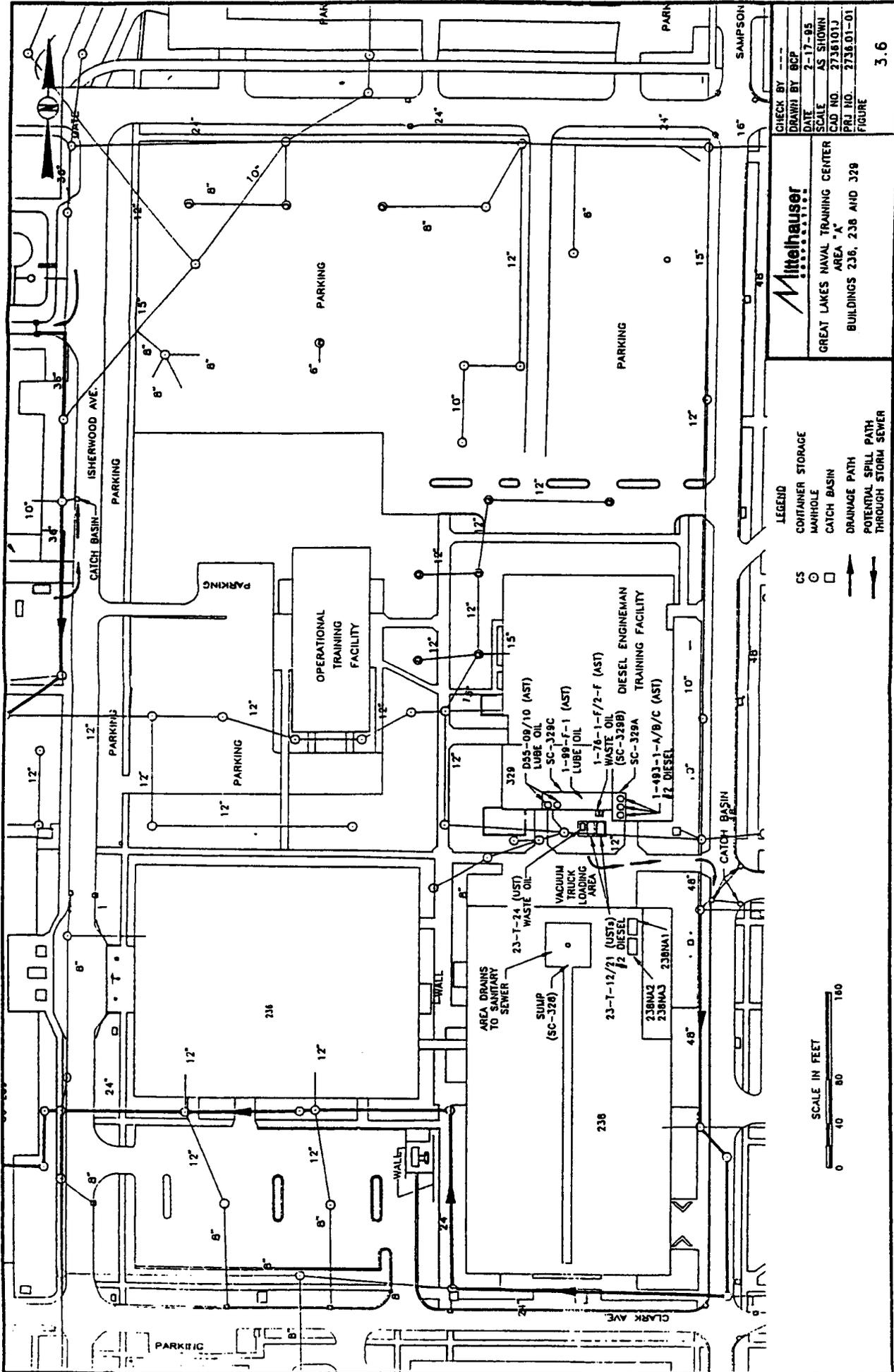
Mittelhauser
 222-5-1111

CHECK BY JLP
 DRAWN BY BCP
 DATE 2-16-35
 SCALE AS SHOWN
 CAD NO. 2736101C
 PRJ NO. 2736.01-01
 FIGURE 3.3

GREAT LAKES NAVAL TRAINING CENTER
 AREA "A"
 BUILDING 1 (ADMINISTRATION) AND
 BUILDING 13 (BOAT HOUSE)

- LEGEND
- CS CONTAINER STORAGE
 - MANHOLE
 - CATCH BASIN
 - ORANGE PATH
 - POTENTIAL SPILL PATH
 - THROUGH STORM SEWER



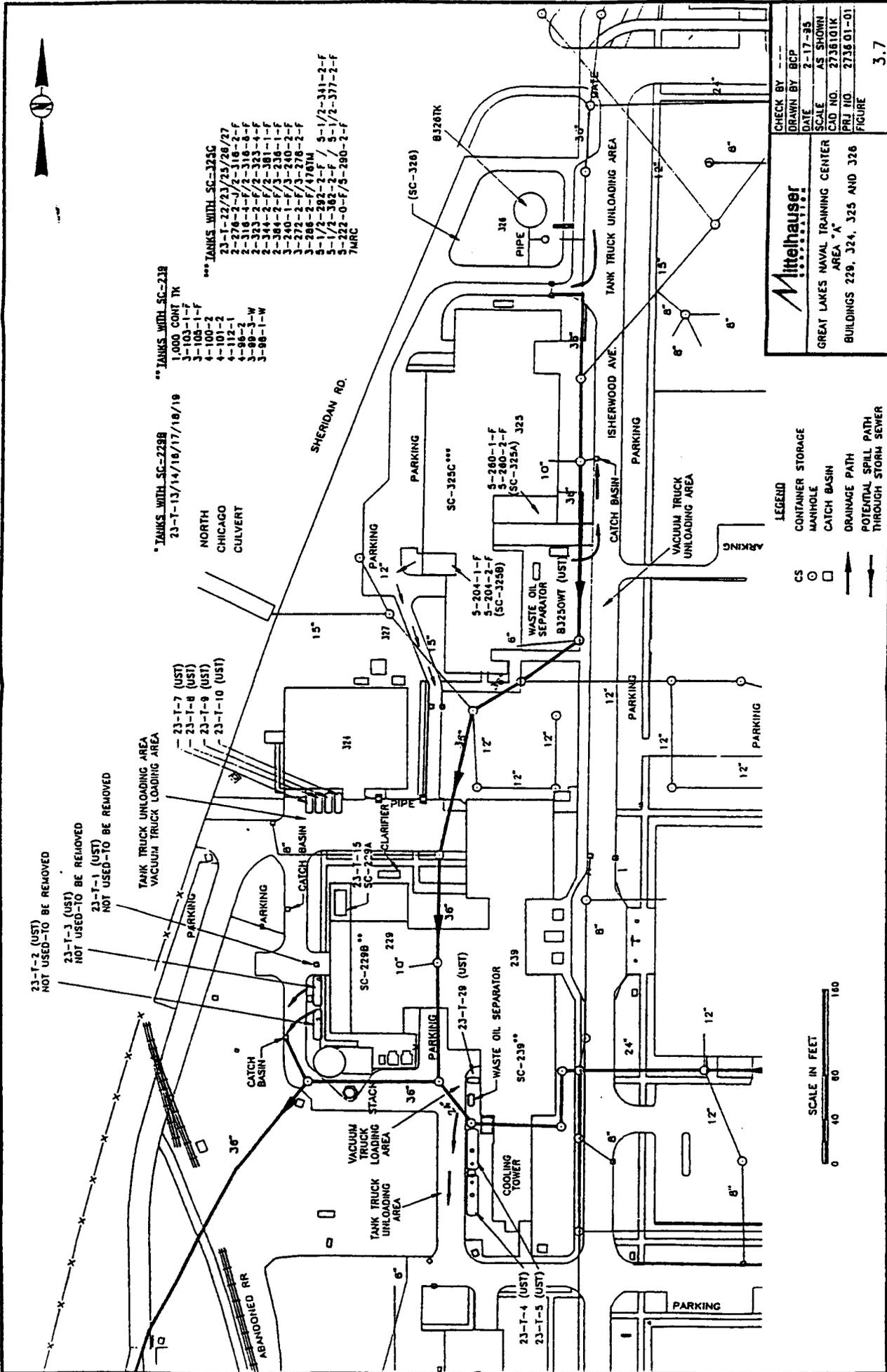


CHECK BY	---
DRAWN BY	BCP
DATE	2-17-85
SCALE	AS SHOWN
CAD NO.	2736101J
PRJ NO.	2736.01-01
FIGURE	3.6

Mitelhauser
 GREAT LAKES NAVAL TRAINING CENTER
 AREA "A"
 BUILDINGS 236, 238 AND 329

LEGEND
 CONTAINER STORAGE
 MANHOLE
 CATCH BASIN
 DRAINAGE PATH
 POTENTIAL SPILL PATH THROUGH STORM SEWER





23-T-2 (UST) NOT USED-TO BE REMOVED
 23-T-3 (UST) NOT USED-TO BE REMOVED
 23-T-1 (UST) NOT USED-TO BE REMOVED

TANK TRUCK UNLOADING AREA
 VACUUM TRUCK LOADING AREA

*JANKS WITH SC-2298
 23-T-13/14/16/17/18/19

**JANKS WITH SC-238
 1-000 CONT TK
 3-103-1-F
 4-100-2
 4-101-2
 4-112-1
 4-98-2
 3-89-3-W
 3-88-1-W

NORTH
 CHICAGO
 CULVERT

***JANKS WITH SC-325C

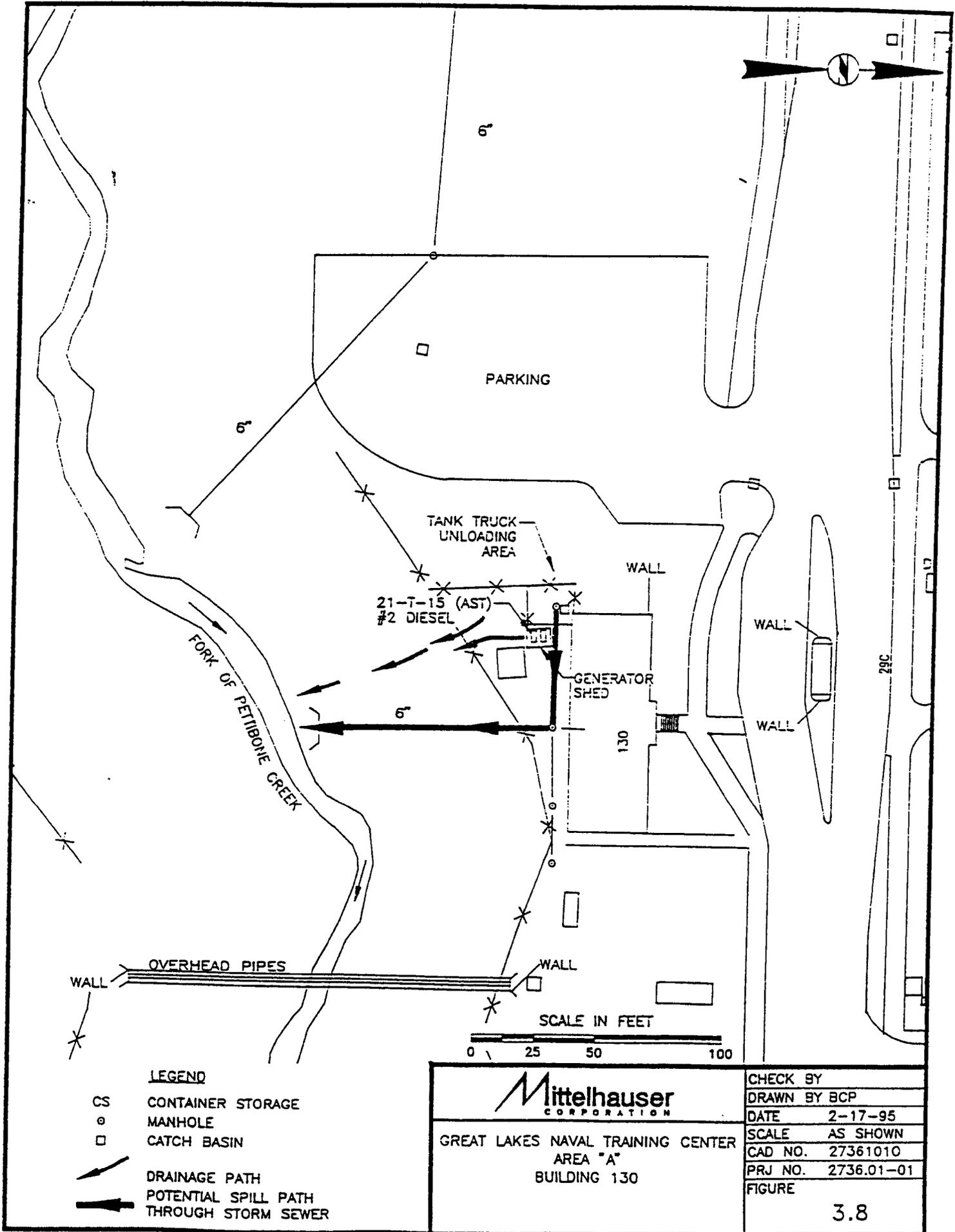
- 23-T-22/23/25/26/27
- 2-178-2-F / 2-178-2-F
- 2-373-2-F / 2-373-2-F
- 2-344-2-F / 2-344-2-F
- 2-384-2-F / 2-384-2-F
- 3-240-1-F / 3-240-2-F
- 3-272-2-F / 3-272-2-F
- 3-286-2-F / 4761M
- 5-1/2-292-2-F / 5-1/2-311-2-F
- 5-1/2-362-2-F / 5-1/2-377-2-F
- 5-222-0-F / 5-280-2-F
- 7MRC

Mittelhauser	
CHECK BY	---
DRAWN BY	BCP
DATE	2-17-85
SCALE	AS SHOWN
CAD NO.	2736101K
PRJ NO.	2736 01-01
FIGURE	3.7

LEGEND

CS	CONTAINER STORAGE
○	MANHOLE
□	CATCH BASIN
→	DRAINAGE PATH
→	POTENTIAL SPILL PATH THROUGH STORM SEWER



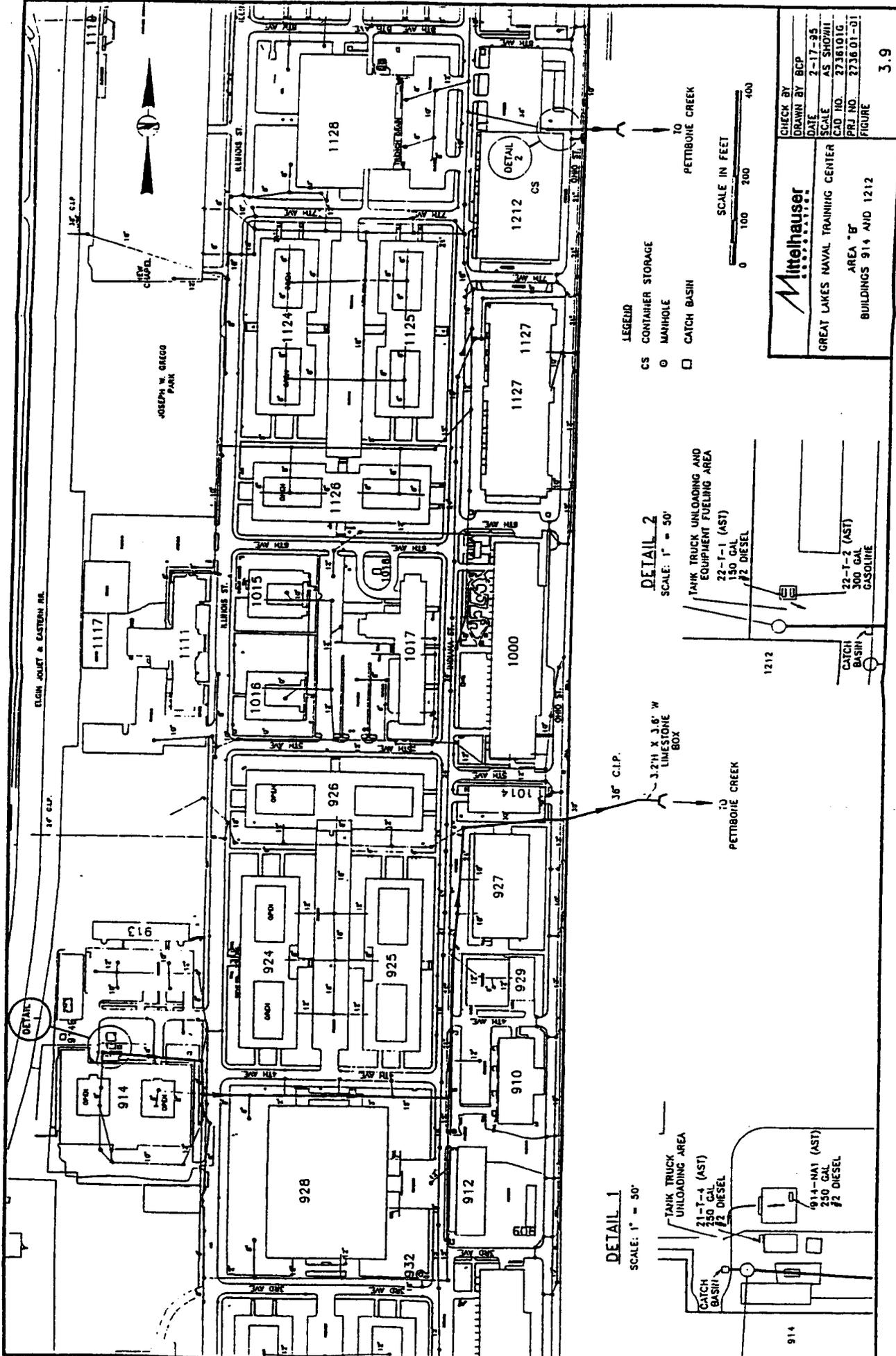


- LEGEND**
- CS CONTAINER STORAGE
 - MANHOLE
 - CATCH BASIN
 - ↘ DRAINAGE PATH
 - ➔ POTENTIAL SPILL PATH THROUGH STORM SEWER

Mittelhauser
CORPORATION

GREAT LAKES NAVAL TRAINING CENTER
AREA "A"
BUILDING 130

CHECK BY	
DRAWN BY	BCP
DATE	2-17-95
SCALE	AS SHOWN
CAD NO.	27361010
PRJ NO.	2736.01-01
FIGURE	3.8



Mittelhauser CORPORATION		CHECK BY	BCP
GREAT LAKES NAVAL TRAINING CENTER		DATE	2-17-95
AREA "B"		SCALE	AS SHOWN
BUILDINGS 914 AND 1212		CAD. NO.	2736101G
		PRJ. NO.	2736.01-01
		FIGURE	3.9

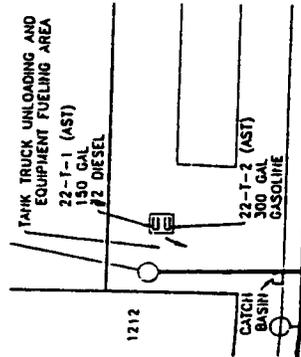
LEGEND

- CS CONTAINER STORAGE
- MANHOLE
- CATCH BASIN

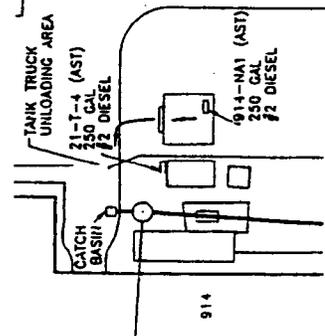
TO PETTIBONE CREEK

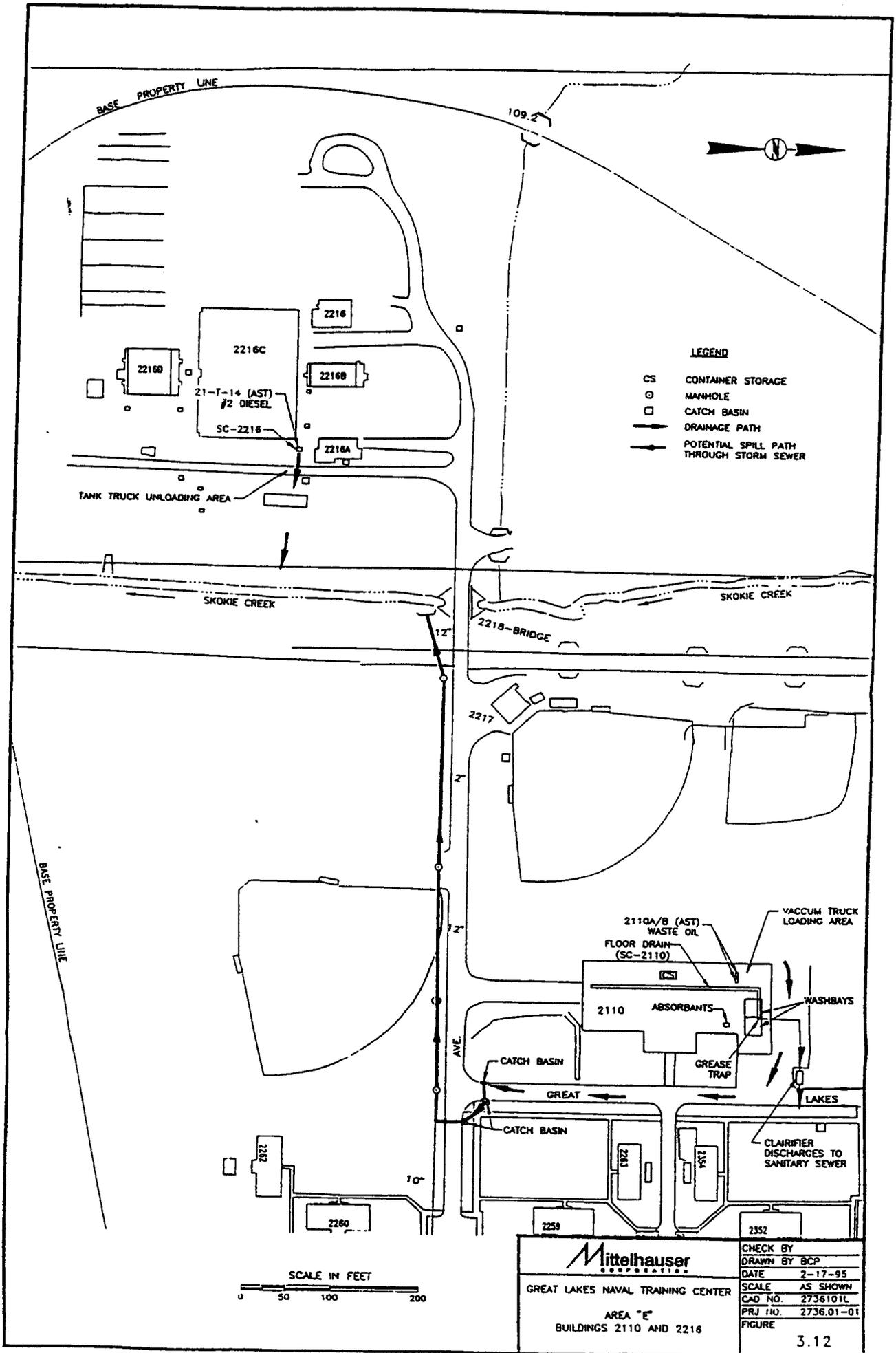


DETAIL 2
SCALE: 1" = 50'



DETAIL 1
SCALE: 1" = 50'

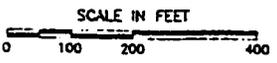
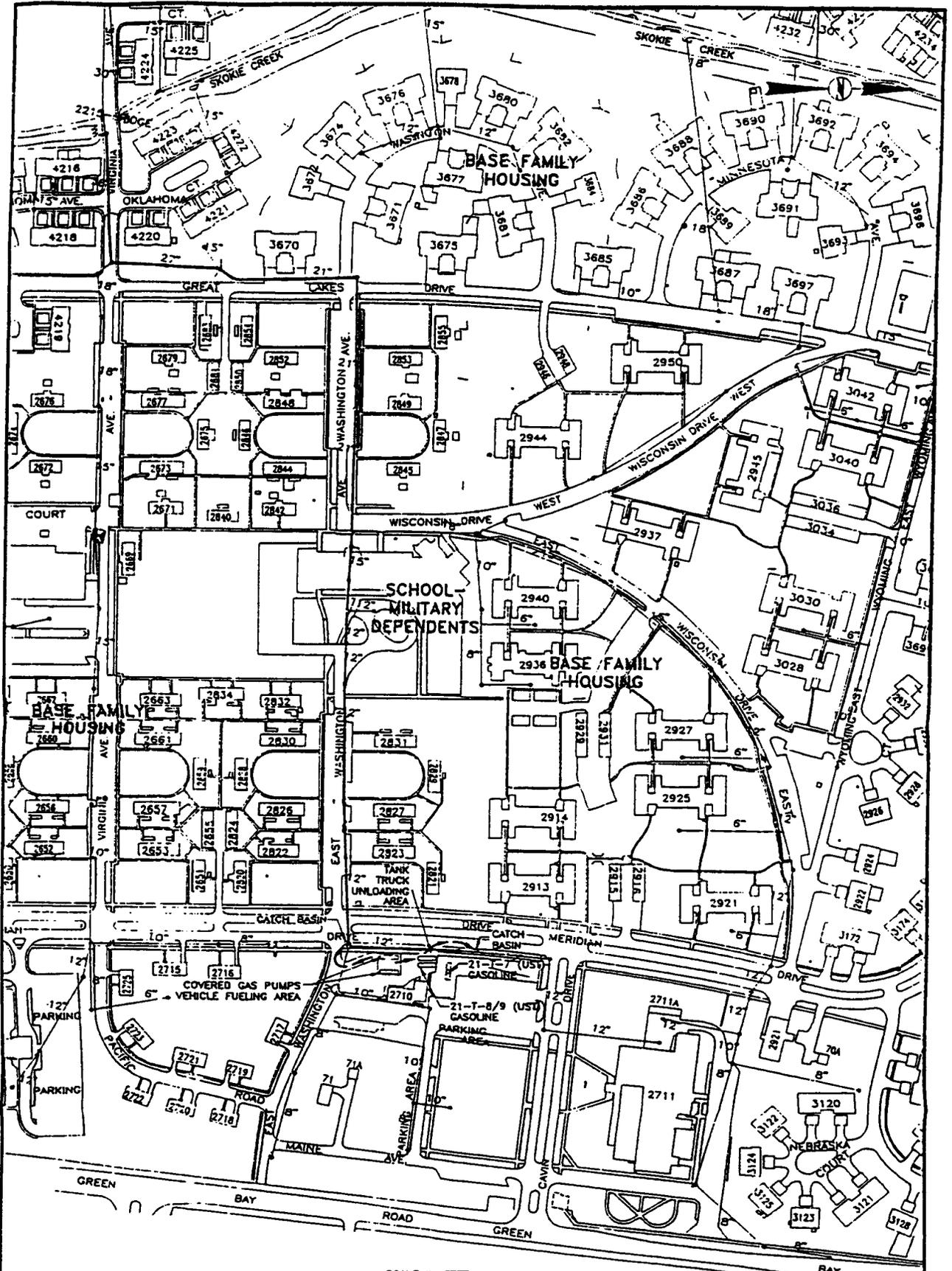




- LEGEND**
- CS CONTAINER STORAGE
 - MANHOLE
 - CATCH BASIN
 - DRAINAGE PATH
 - - - POTENTIAL SPILL PATH THROUGH STORM SEWER

Mittelhauser
 GREAT LAKES NAVAL TRAINING CENTER
 AREA "E"
 BUILDINGS 2110 AND 2216

CHECK BY	DRAWN BY BCP
DATE	2-17-95
SCALE	AS SHOWN
CAD NO.	2736101L
PRJ NO.	2736.01-01
FIGURE	3.12



- LEGEND**
- u CATCH BASIN
 - o MANHOLE
 - DRAINAGE PATH
 - POTENTIAL SPILL PATH THROUGH STORM SEWER

<p>GREAT LAKES NAVAL TRAINING CENTER</p> <p>AREA "E" BUILDING 2710</p>	CHECK BY	
	DRAWN BY	BCP
	DATE	2-17-95
	SCALE	AS SHOWN
	CAD NO.	2736101M
PRJ NO.	2736.01-01	
	FIGURE	3.13

