
Hazardous Waste Facility Operating Permit Renewal Application

**Safety-Kleen Systems, Inc.
5610 Alpha Drive
Boynton Beach, Florida**

FLD 984167791

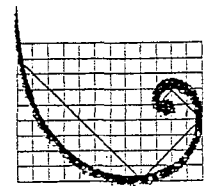
Prepared For:

**Safety-Kleen Systems, Inc.
Boynton Beach, Florida**



Prepared By:

**ERM
Tampa, Florida**



ERM®

September 2001

PERMIT APPLICATION

RECEIVED
RCRA

OCT 22 2001

Hazardous Waste Regulation

**RCRA OPERATING PERMIT
RENEWAL APPLICATION**

*Safety-Kleen Systems, Inc.
Boynton Beach Branch Service Center
5610 Alpha Drive
Boynton Beach, Florida*

September 2001

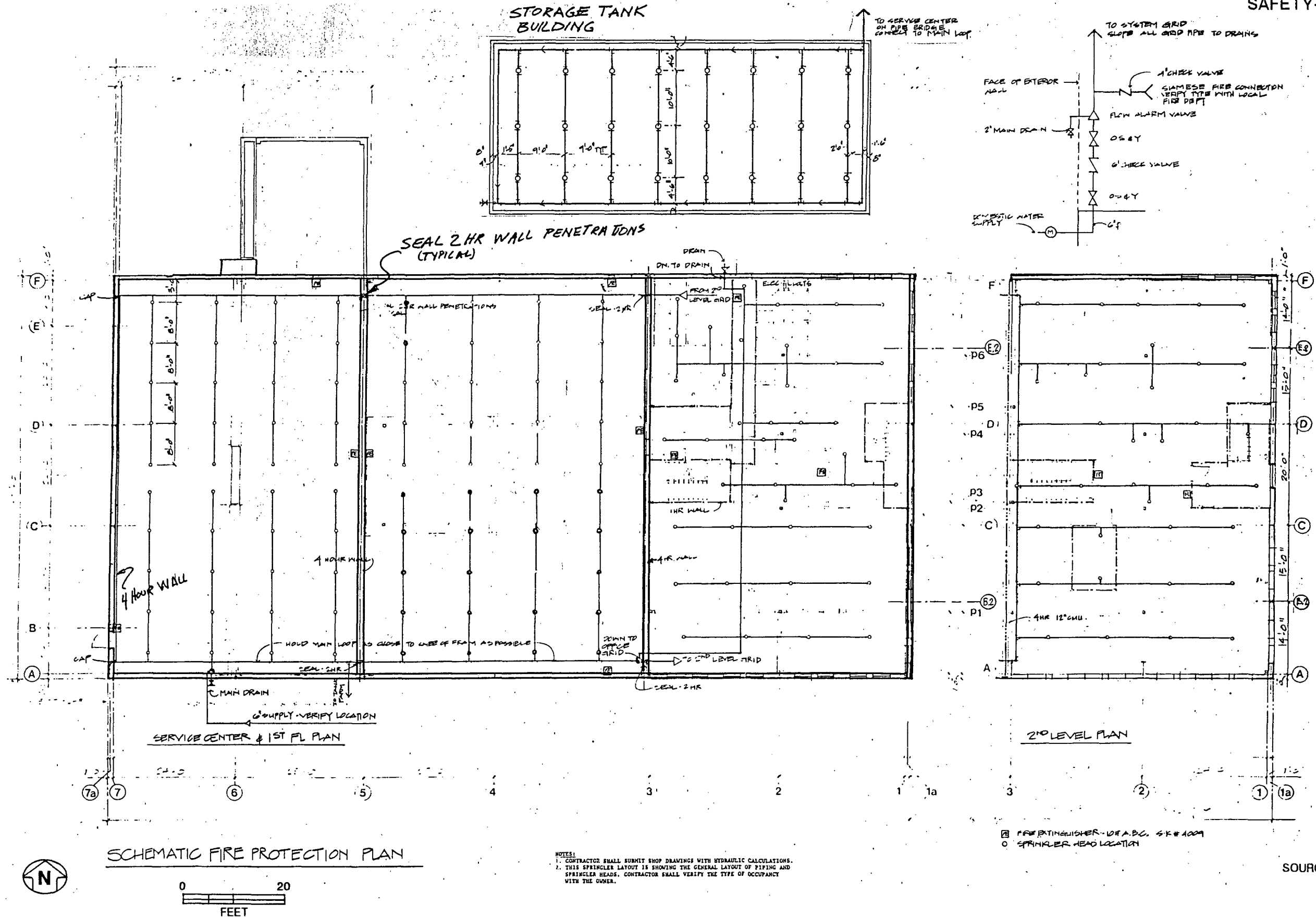
Prepared for:

Safety-Kleen Systems, Inc.
1301 Gervais Street
Columbia, South Carolina 29201

Environmental Resources Management
3913 Riga Boulevard
Tampa, Florida 33619-1345

FIGURE 2.2-6

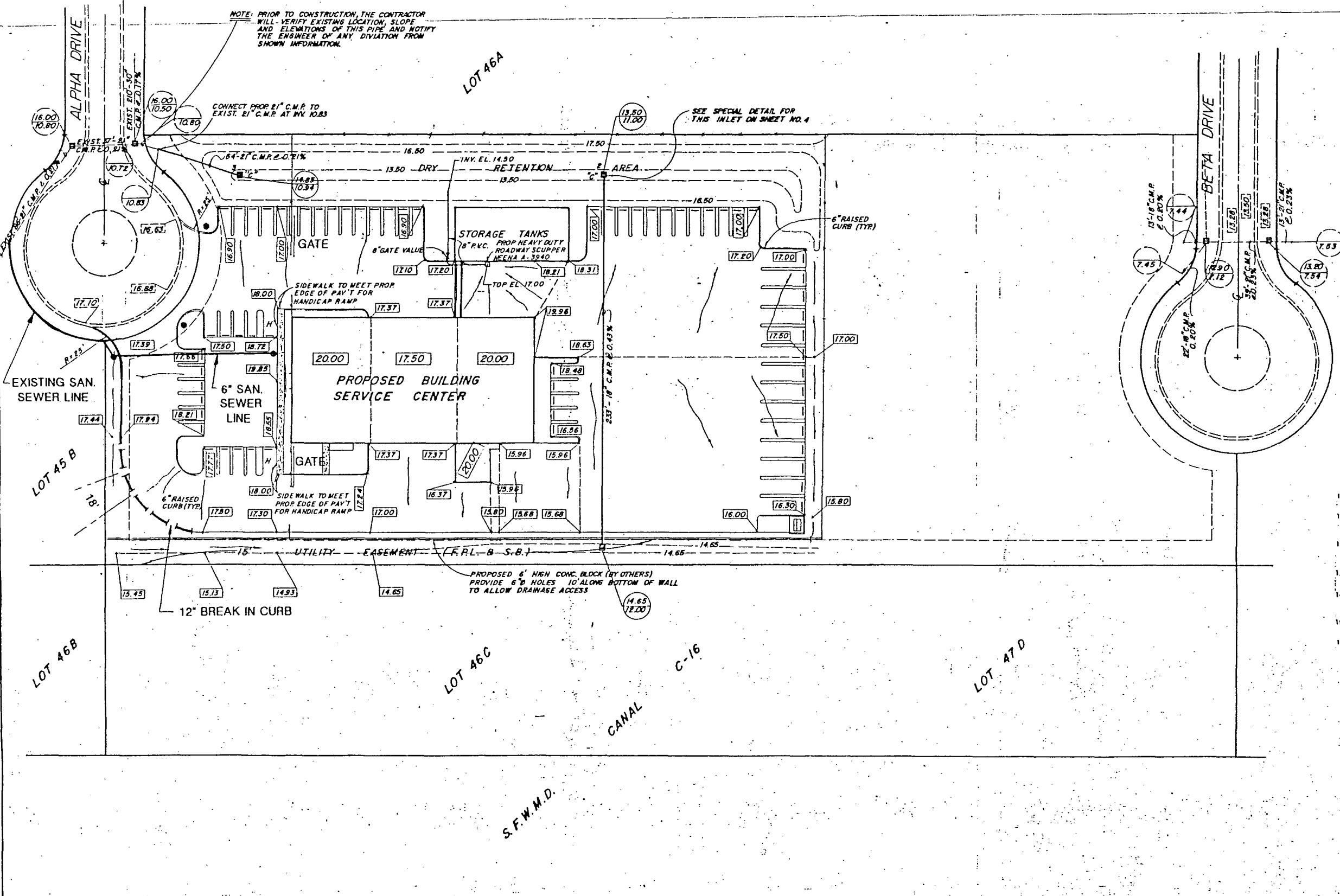
Fire Fighting Sprinkler System
SAFETY-KLEEN SYSTEMS, INC. FACILITY
Boynton Beach, Florida



SOURCE: PAUL LINNEY AND ASSOCIATES, 10/18/89



FIGURE 2.2-5
Stormwater Run-off Controls
SAFETY-KLEEN SYSTEMS, INC. FACILITY
Boynton Beach, Florida



- NOTES:
1. THE MINIMUM FINISH FLOOR ELEVATION FOR ANY RESIDENTIAL STRUCTURE SHALL BE SET 1' OR ABOVE ELEVATION 20.00 M.S.L. WHICH IS ABOVE THE PROJECTED FLOOD STAGE FROM THE ONE IN ONE HUNDRED YEAR FREQUENCY STORM. (SEE DRAINAGE MAP).
 2. ALL DIMENSIONS SHOWN ON THESE DRAWINGS ARE SCALED DISTANCES. THE CONTRACTOR SHALL CORRELATE ALL MEASUREMENTS IN THE FIELD AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCY WITH THE DRAWINGS PRIOR TO PERFORMING THE WORK. ALL DIMENSIONS SHALL BE PAID ON THE BASIS OF FIELD MEASUREMENTS OF COMPLETED WORK.
 3. C.M.P. MEANS CORRUGATED STEEL PIPE BITUMASTIC COATED.
 4. ALL METAL PIPE TO BE INSTALLED JOINT FREE. ANY NECESSARY JOINTS ARE TO BE MADE USING A 12" WIDE BAND WITH MASTIC OR NEOPRENE GASKET PROVIDING WATER TIGHT JOINT.
 5. ALL PAVING AND DRAINAGE WORK TO BE CONSTRUCTED IN FULL ACCORDANCE WITH CITY OF BOYNTON BEACH SUBDIVISION AND PLATTING REGULATION ORD. NO. 77-36.
 6. ALL LOTS, ROADWAYS AND BODILY AREAS SHALL BE STRIPPED OF ALL DELETERIOUS (UNWASHABLE) MATERIALS AND MATERIALS SHALL BE DISPOSED WITHIN THE SITE.
 7. ALL GRADING OF STREETS, INCLUDING THE REMOVAL OF ALL MATERIALS, AND THE FINISHING OF ALL SHOULDERS, SUB-GRADE PREPARATION, SHOULDER AND BACKSLOPES, IN ACCORDANCE WITH THE TYPICAL SECTIONS SHOWN HEREON SHALL BE INCLUDED IN THE BID PRICE FOR PAVING.
 8. ANY EXISTING ROADWAY AND/OR UTILITY THAT IS DAMAGED BY THE CONTRACTOR SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.
 9. ANY MUCK POCKET IS TO BE REMOVED COMPLETELY FROM THE CENTERLINE TO 10' BEYOND THE PAVEMENT ON EACH SIDE.
 10. ANY CURB ENCOUNTERED TO BE REMOVED WITHIN THE ROADWAY 1.0' BELOW SUBGRADE TO EXISTING SIDE EDGE OF SHOULDERS.
 11. THE CITY OF BOYNTON BEACH SUBDIVISION AND PLATTING REGULATION ORD. NO. 77-36 AS AMENDED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF BOYNTON BEACH SHALL GOVERN EXCEPT AS NOTED ON THESE PLANS.
 12. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATION OF EVERY KIND THAT WILL BE BENEFIT THE PAVEMENT CURRENTLY TO BE CONSTRUCTED SHALL BE INSTALLED PRIOR TO THE COMPLETION OF SUBGRADE.
 13. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PIPE, PIPE BANDS, DRAINAGE STRUCTURES, GRATES, FRAMES AND COVERS.
 14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF EXISTING UTILITIES WHETHER SHOWN ON OR NOT SHOWN ON THESE DRAWINGS AND SHALL VERIFY ALL ELEVATIONS BEFORE STARTING CONSTRUCTION.
 15. STOP SIGNS AND STREET SIGNS SHALL BE PROVIDED AT ALL INTERSECTIONS TO CONFORM TO CITY OF BOYNTON BEACH STANDARDS.
 16. STREET MARKINGS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE REQUIREMENTS OF THE CITY OF BOYNTON BEACH.

LEGEND

- 6" RAISED CURB
- STORM INLET & LOCATION
- 24" C.M.P. @ 0.20% SLOPE
- TOP ELEVATION
INVERT ELEVATION
- PROPOSED PAVEMENT
- PROPOSED ELEVATION
- EXISTING ELEVATION
- DIRECTION OF FLOW
- STOP SIGN LOCATION
- FINISH FLOOR ELEVATION
- NOT PART OF THIS CONTRACT

ROSSI AND MALAVASI ENGINEERS, INC. WEST PALM BEACH, FLORIDA		SAFETY-KLEEN SERVICE CENTER AT BOYNTON BEACH FOR SAFETY-KLEEN CORPORATION	
Date: AUGUST 1989	Designed: S. WEISS	Scale: 1" = 30'	Sheet: 2 of 6
Approved:	Drawn: S. HARTUNG	Job No: 3366-89	
	Checked:	File No: S-1405 (A)	

FIGURE 11.1-2
SAFETY-KLEEN CORP. - Branch # 3-097-01 BOYNTON BEACH, FLORIDA
Daily Inspection of TANK EQUIPMENT

INSPECTOR'S NAME/TITLE: K. Brown, Lead Warehouseman J. Monterroso, Warehouseman

INSPECTOR'S SIGNATURE:

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

DATE (MM/DD/YY)

TIME

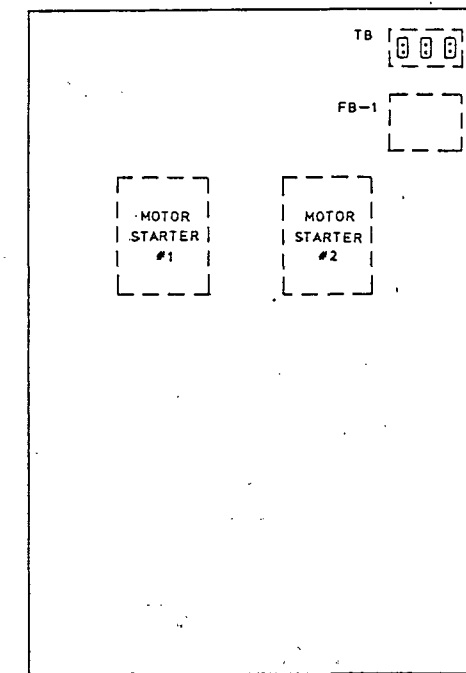
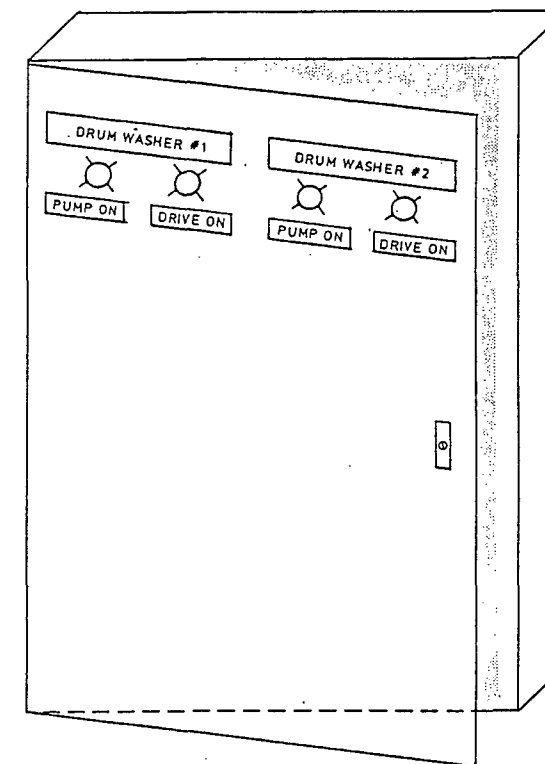
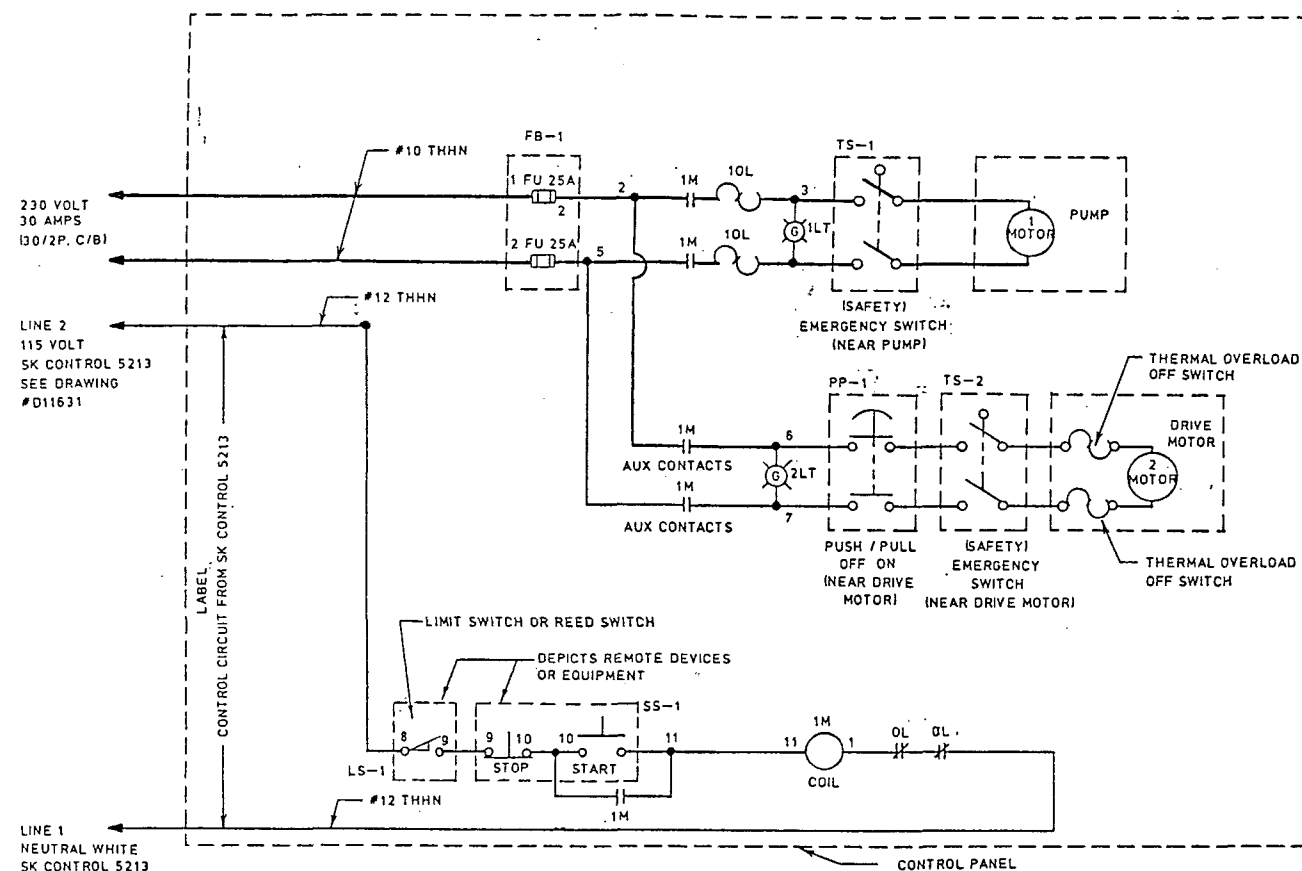
Pump, Flange, or Valve Number	MON	TUES	WED	THURS	FRI
1. <u>1 1/4" Threaded Ball Valve</u>	A N	A N	A N	A N	A N
2. <u>1 1/2" Threaded Ball Valve</u>	A N	A N	A N	A N	A N
3. <u>2" Threaded Gate Valve</u>	A N	A N	A N	A N	A N
4. <u>Waste Mineral Spirits Recirc. Pump</u>	A N	A N	A N	A N	A N
5. <u>1 1/4" Threaded Ball Valve</u>	A N	A N	A N	A N	A N
6. <u>2" Threaded Gate Valve</u>	A N	A N	A N	A N	A N
7. <u>1 1/2" Threaded Ball Valve</u>	A N	A N	A N	A N	A N
<u>Waste Mineral Spirits Recirc. Pump</u>	A N	A N	A N	A N	A N
9. <u>2" Threaded Check Valve</u>	A N	A N	A N	A N	A N
10. <u>Waste Mineral Spirits Pump</u>	A N	A N	A N	A N	A N
11. <u>2" Threaded Ball Valve</u>	A N	A N	A N	A N	A N
12. <u>3" Threaded Internal Emergency Valve</u>	A N	A N	A N	A N	A N
13. <u>3" Flanged Connection</u>	A N	A N	A N	A N	A N
14. <u>3" Flanged Gate Valve</u>	A N	A N	A N	A N	A N
15. <u>3" Flanged Connection</u>	A N	A N	A N	A N	A N
16. <u>3" Threaded Check Valve</u>	A N	A N	A N	A N	A N
17. <u>3" Threaded Gate Valve</u>	A N	A N	A N	A N	A N
18. <u>Camlock Fitting</u>	A N	A N	A N	A N	A N
19. _____	A N	A N	A N	A N	A N
20. _____	A N	A N	A N	A N	A N
21. _____	A N	A N	A N	A N	A N

If 'N', enter pump or valve # _____ and circle appropriate problem: potential leak, active leak sticking, wear, does not operate smoothly, or other _____

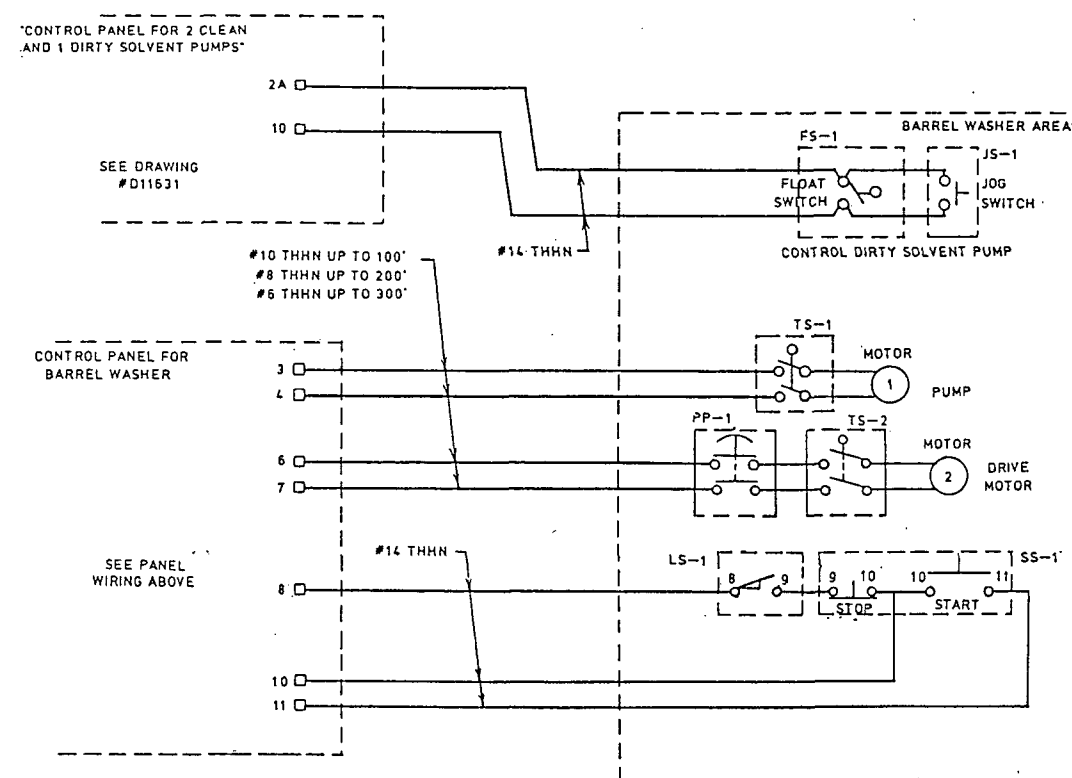
For all leaks and potential leaks, the Leak Detection and Repair Record must be completed.

A* = Acceptable N = Not Acceptable

Draw a line through valve and pump I.D. numbers which do not apply.



CONTROL PANEL MAKE-UP



BILL OF MATERIAL		
<u>TAG</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
FB-1	1	FUSE BLOCK WITH FRN FUSES LITTLE FUSE LH 250 30 2P FUSES.FLNR.25.
STARTER	2	NEMA SIZE #1 MAGNETIC STARTER SQ D 8536-SB0.15
1LT	2	PUMP PILOT LIGHT - GREEN - 240 VOLT SQ D 9001 KP7R2 WITH TRANSFORMER.
2LT	2	DRIVE MOTOR PILOT LIGHT-GREEN - 240 VOLT.SQ D 9001 KP7R9 WITH TRANSFORMER
PANEL	1	UNIVERSAL BOX WITH PIANO HINGE, SINGLE POINT L HANDLE. LOCK, 8" DEEP, 36" HIGH, 24" WIDE

<u>REMOTE ITEMS</u>		
SS-1	1	START-STOP STATION 9001 BR205
TS-1,2	2	2-POLE TOGGLE SWITCH, 20A RATED SQ.D.2510 KRU
JS-1	1	JOG SWITCH, 1-POLE., 20A RATED
FS-1	1	FLOAT SWITCH, 1-POLE, 10A RATED
LS-1	1	LIMIT SWITCH OR REED SWITCH MAKES WHEN BARREL IS IN PLACE 9007 CL61JJ
PP-1	1	2 POLE TOGGLE SWITCH, START STOP STATION 2HP CONTACT RATING

NO.	DESCRIPTION	BY	CHECKED	APPR	DATE
REVISIONS					

TITLE

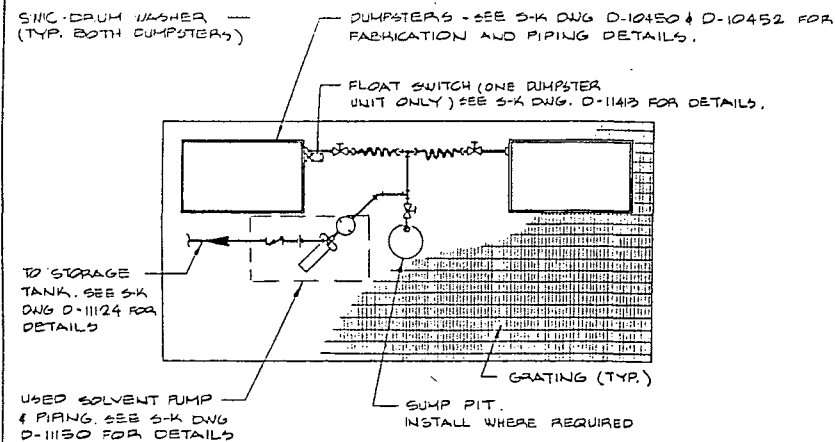
ELECTRICAL CONTROL PANEL FOR DRUM WASHER "90"



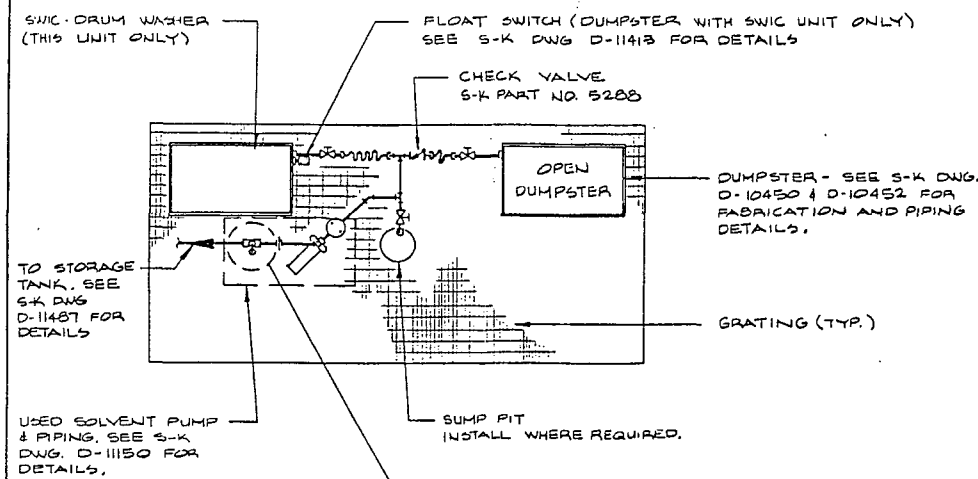
SAFETY-KLEEN CORP.

777 BIG TIMBER ROAD, ELGIN, ILLINOIS 60120 PHONE 312/597-8460

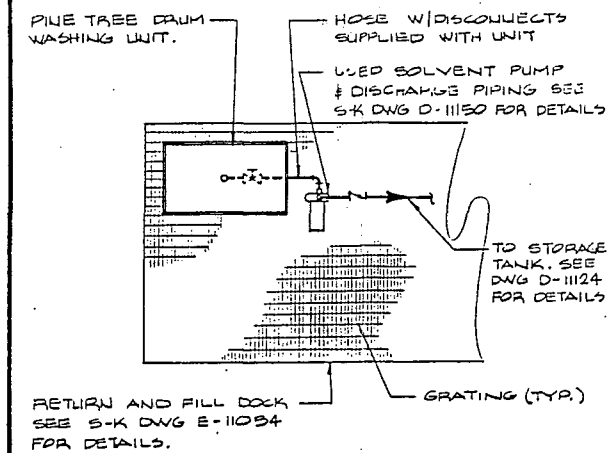
PICHL ENGR. APPR.	OPERATIONS APPR.	SCALE NONE	DRAWN DK	DATE
BRANCH		DRAWING NO. D-14289		REV.



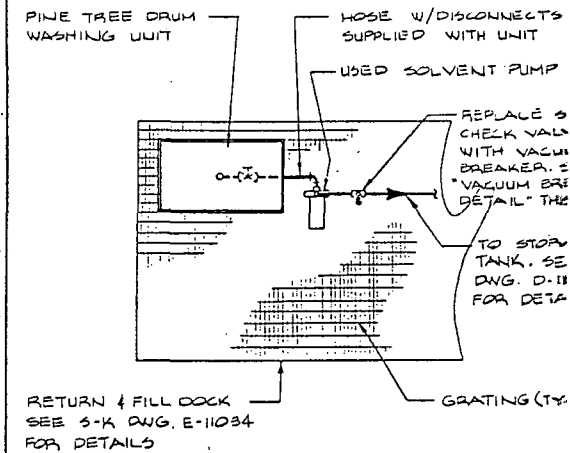
DOUBLE SWIC INSTALLATION
W/ ABOVE GROUND STORAGE



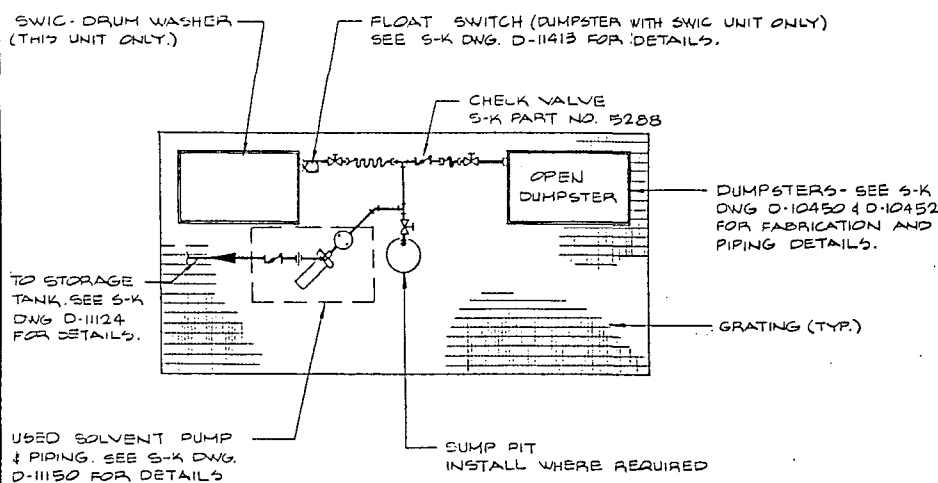
SINGLE SWIC INSTALLATION
W/ UNDERGROUND STORAGE



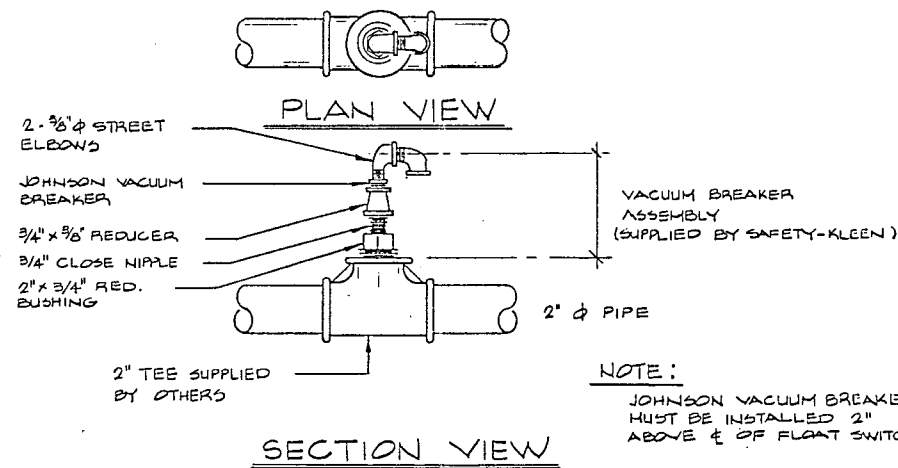
PINE TREE INSTALLATION
W/ ABOVE GROUND STORAGE



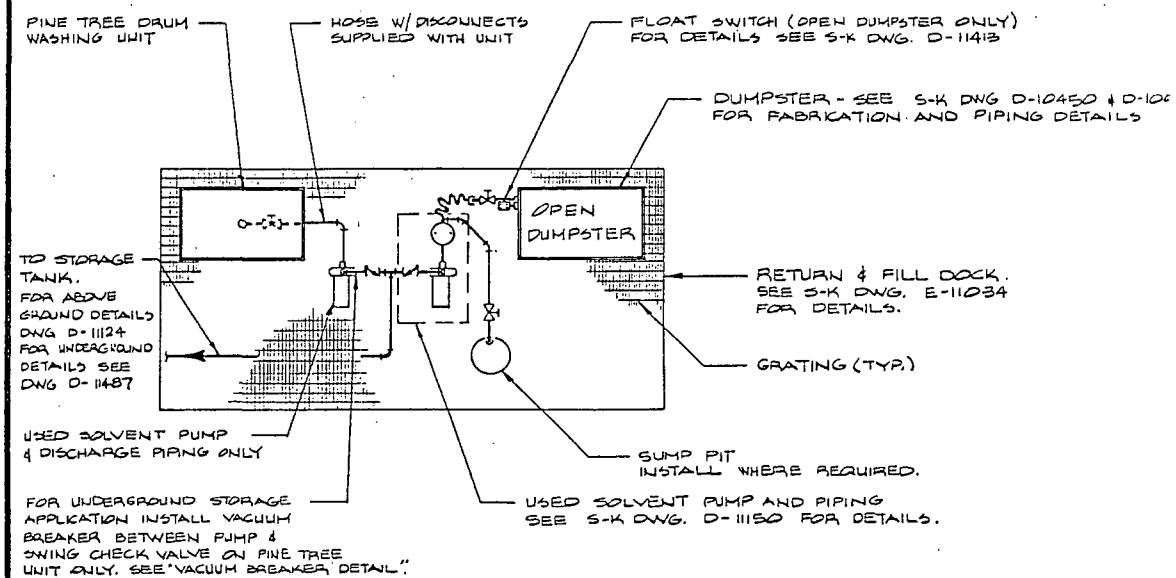
PINE TREE INSTALLATION
W/ UNDERGROUND STORAGE



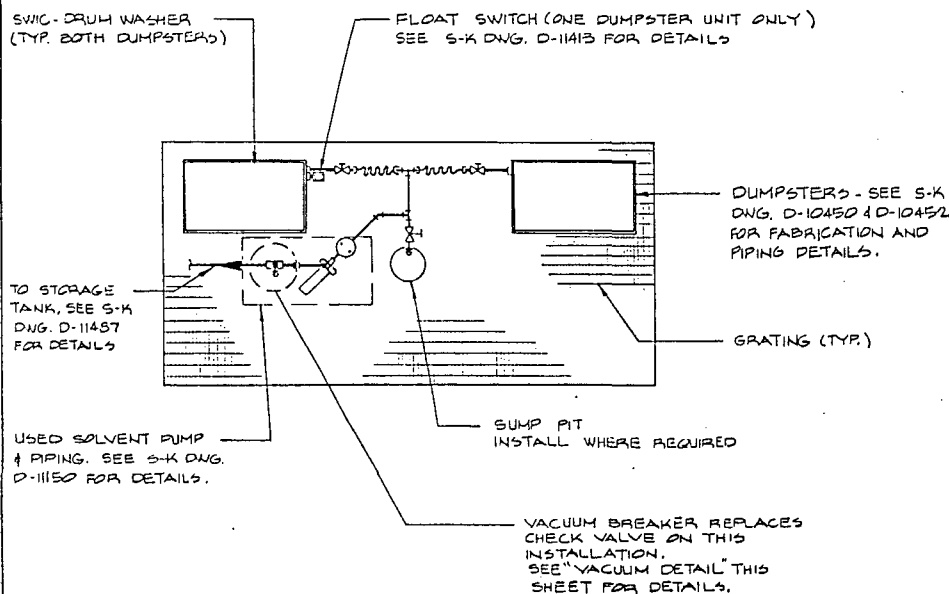
SINGLE SWIC INSTALLATION
W/ ABOVE GROUND STORAGE



VACUUM BREAKER DETAIL



PINE TREE AND OPEN DUMPSTER INSTALLATION
FOR ABOVE GROUND & UNDERGROUND STORAGE

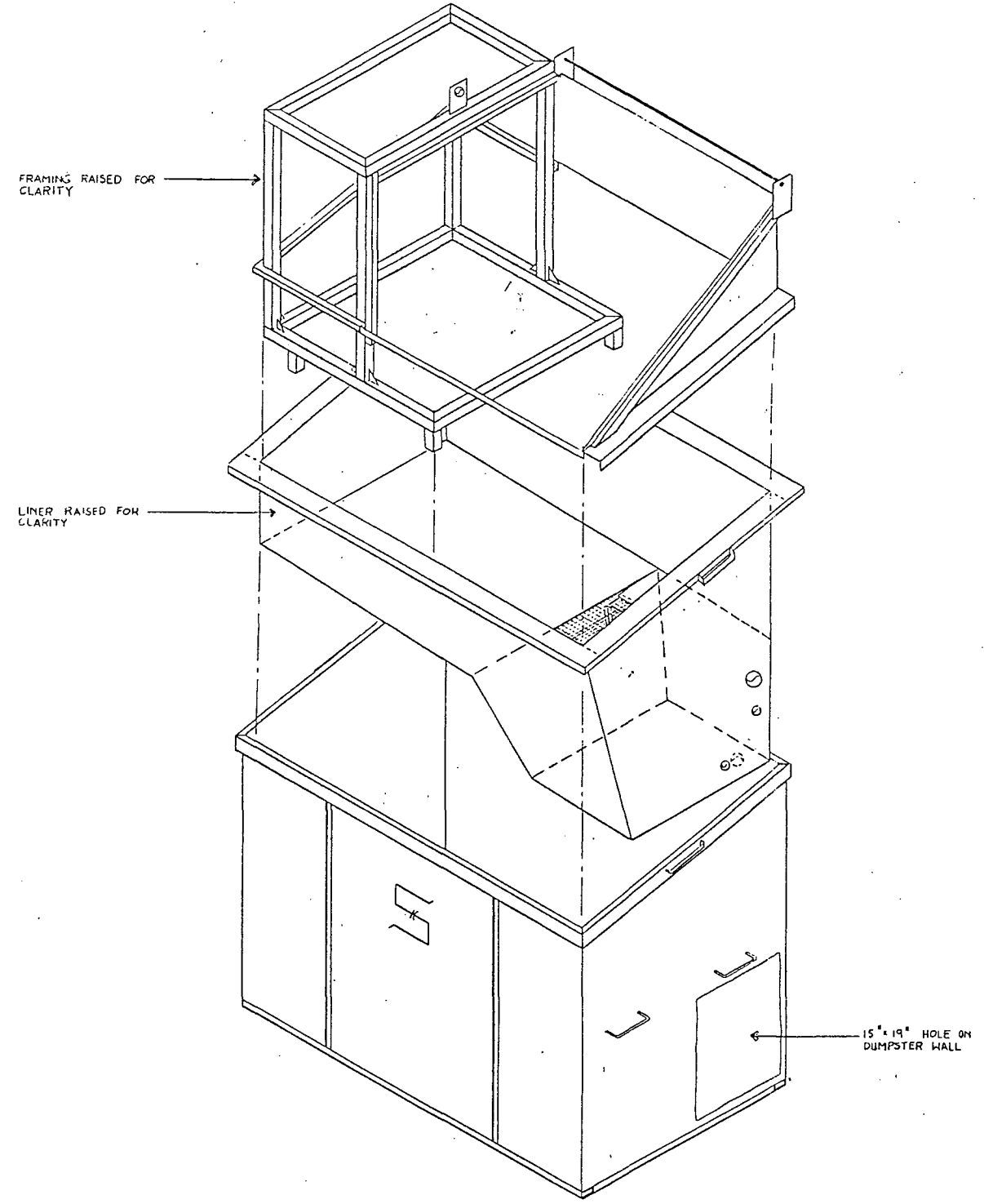


DOUBLE SWIC INSTALLATION
W/ UNDERGROUND STORAGE

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TITLE									
TYPICAL DRUM WASHER SCHEMATICS									
SAFETY-KLEEN CORP.									
777 BIG TIMBER ROAD • ELGIN, ILLINOIS 60123 PHONE 708/587-8450									
NO.	DESCRIPTION	BY	CHK	APPR	DATE	SCALE	DRAWN	CHECKED	ENGINEERING APPR.
						NONE	DS		
REVISIONS						OPERATION APPR.			
						DATE			
						12.2			
						FOR SERVICE CENTER			
						BRANCH:			
						DRAWING NO.			
						D-14288			

A B C D E F G H I J K L M N O



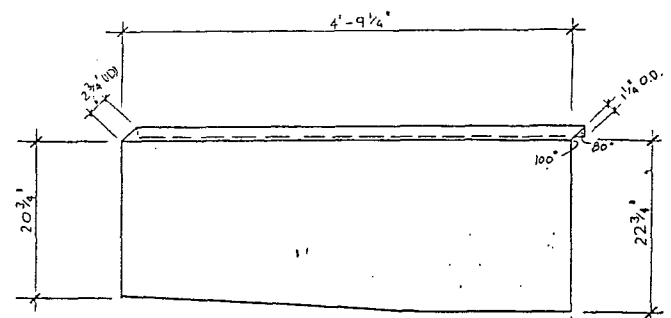
SOUTHWEST INDUSTRIAL
CONSTRUCTORS, INC.

DATE: 1/19/90
JOB NO:
DWN: ALI
CHK:

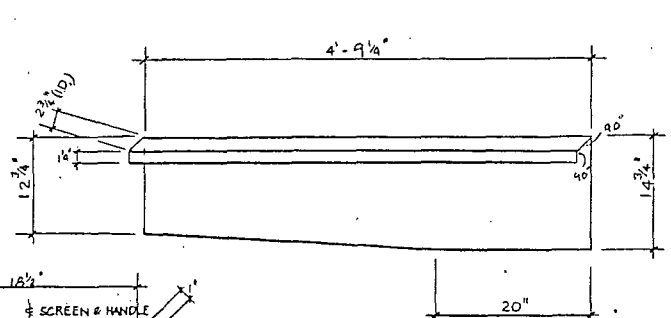
SAFETY - KLEEN
DRUM WASHER

SHEET NO.
1

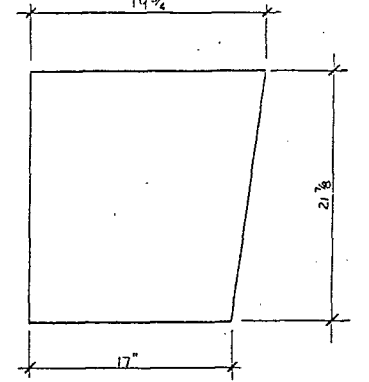
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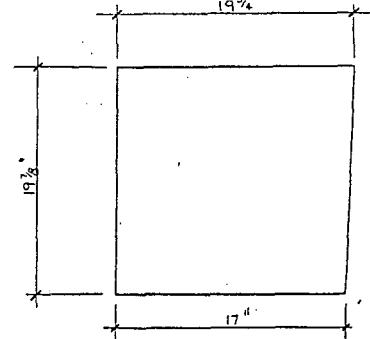
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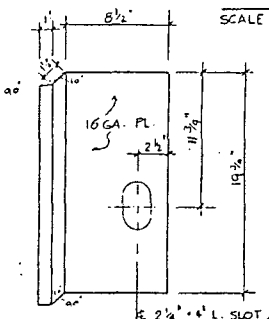
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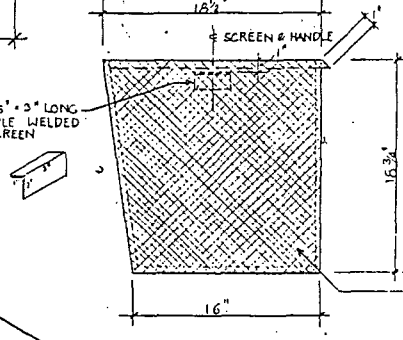
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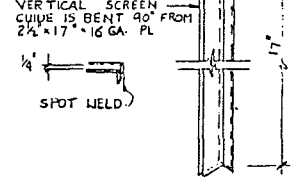
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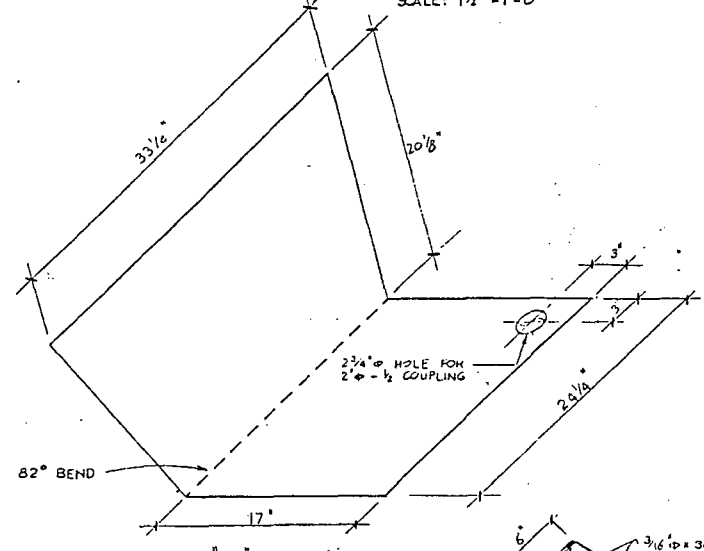
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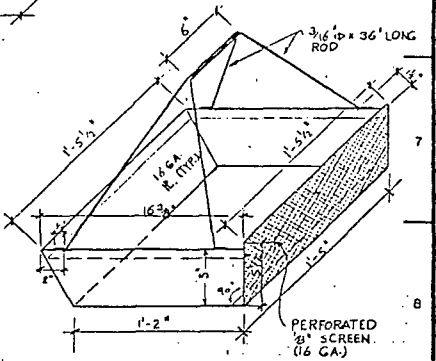
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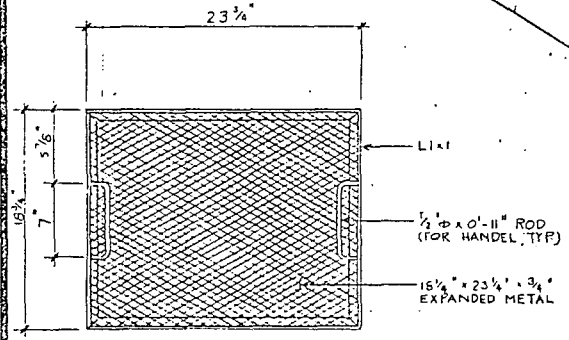
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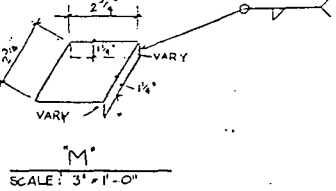
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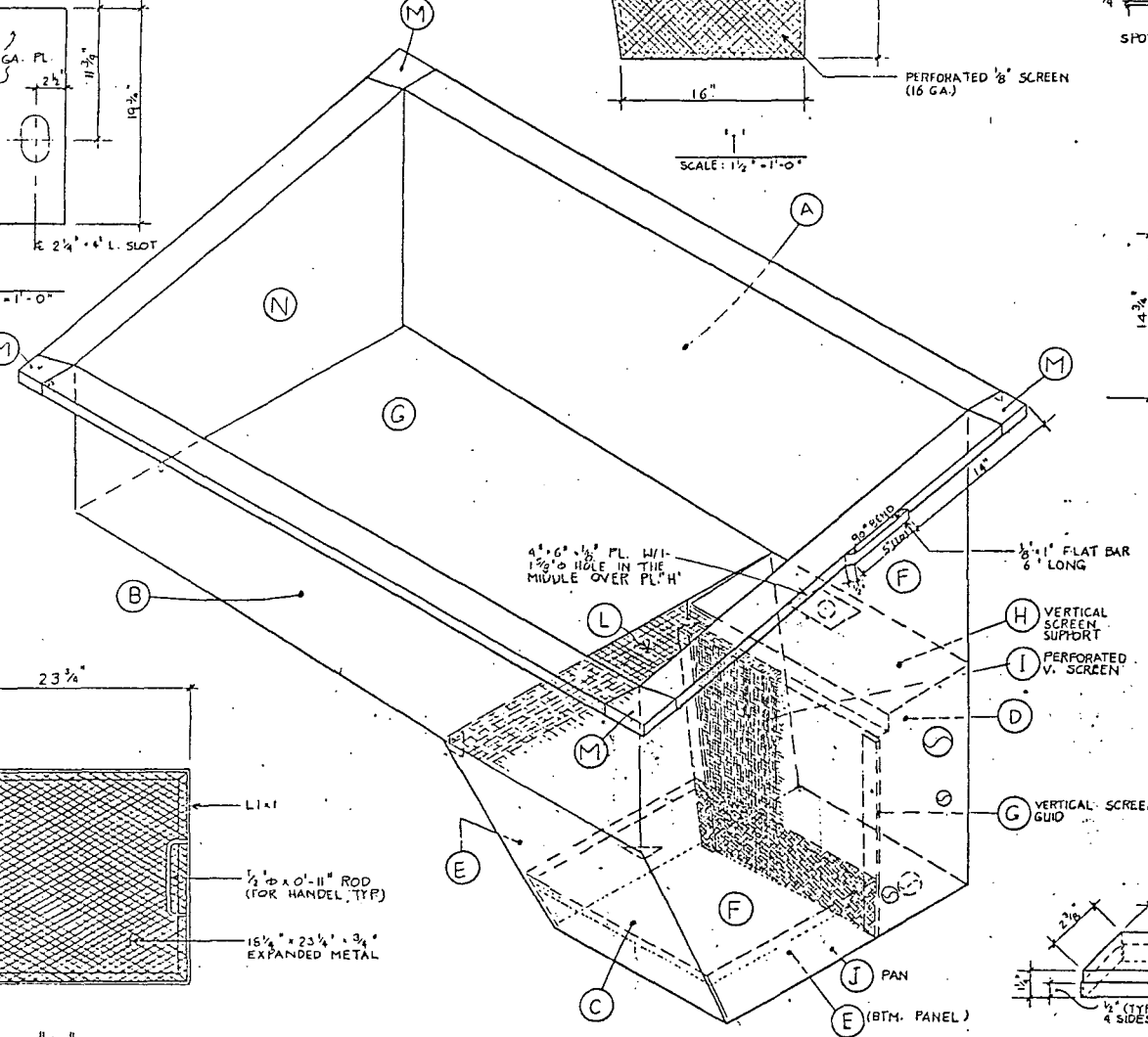
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L
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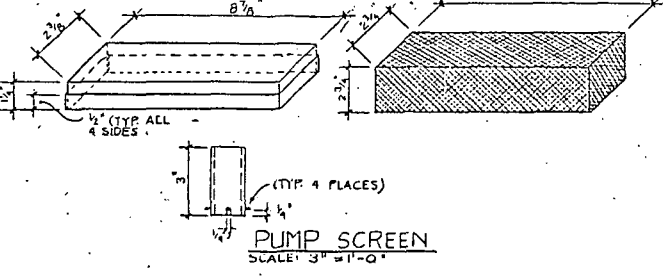


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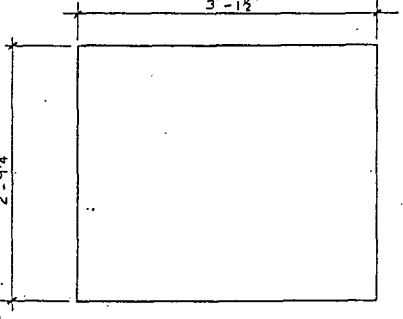


PICTORIAL - DUMPSTER LINER
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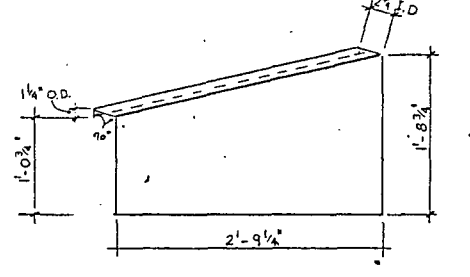
NOTE: ALL MATERIALS ARE 1/8" THK. H/R. STEEL PL.



N
SCALE: 3" = 1'-0"



O
SCALE: 1" = 1'-0"



P
SCALE: 1" = 1'-0"

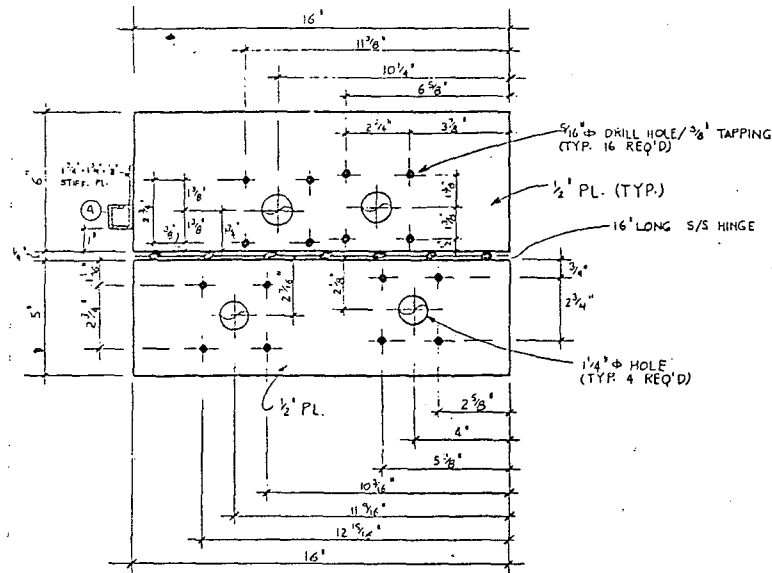
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CONSTRUCTORS, INC.

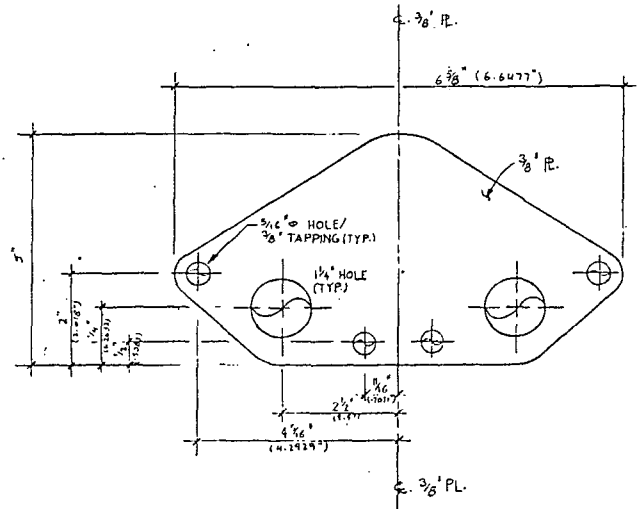
DATE: 1/19/90
JOB NO:
DWN: ALI
CHK:

SAFETY - KLEEN
DRUM WASHER

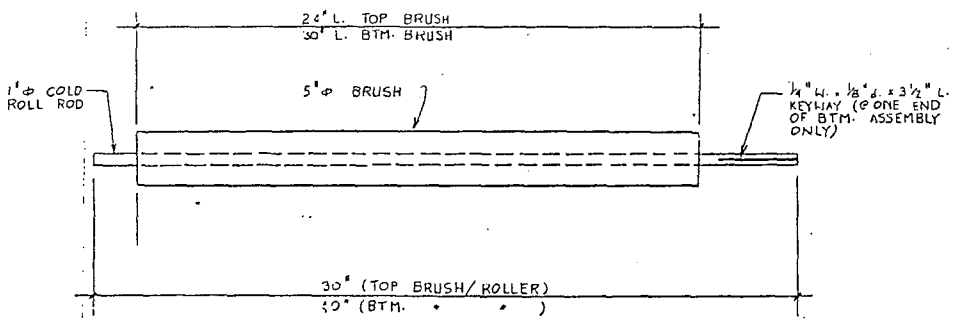
SHEET NO.
12



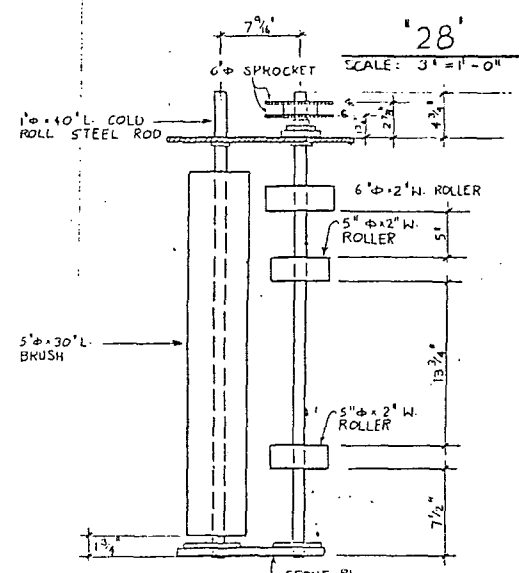
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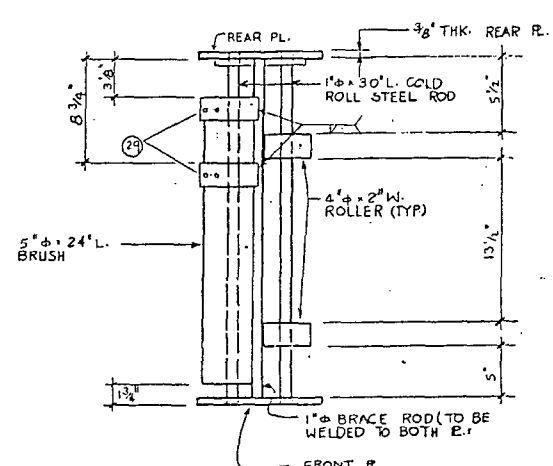
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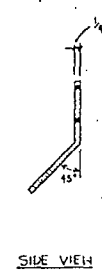
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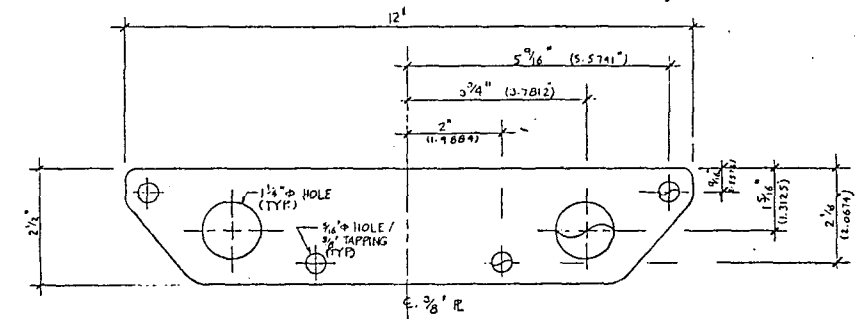
BTM. ASSEMBLY



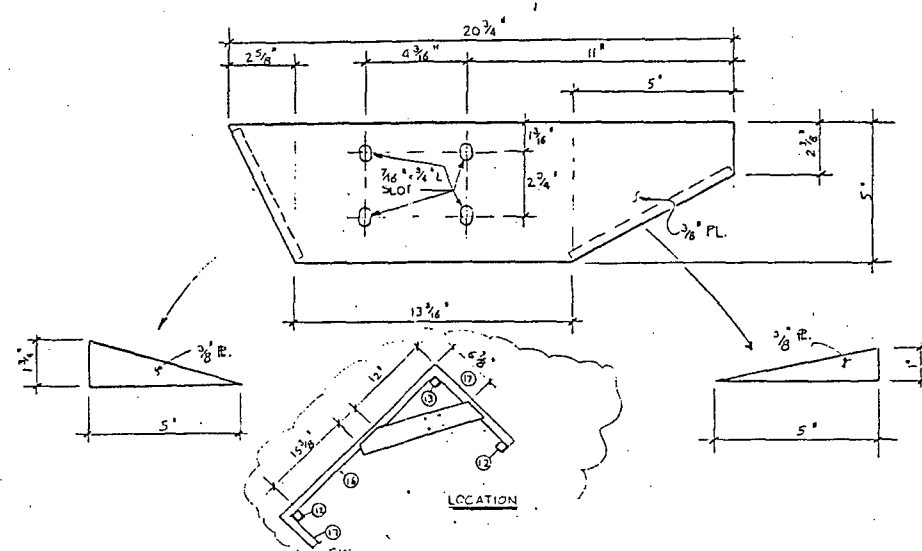
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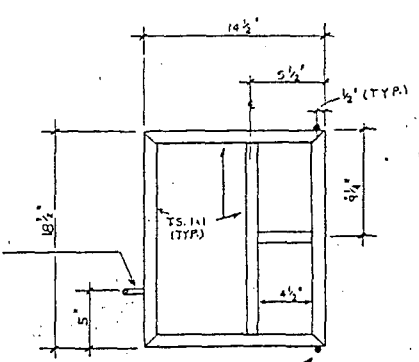
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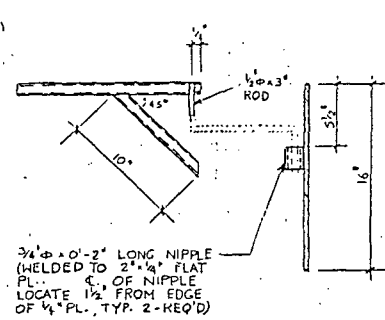
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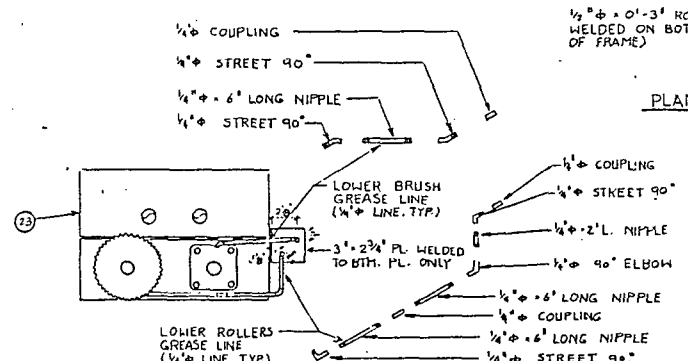
MOTOR MOUNTING BRACKET
N.T.S.



PLAN VIEW



ELEVATION



ROLLER/BRUSH GREASE LINE

BARREL WASHER RACK
SCALE: 1 1/2\"/>

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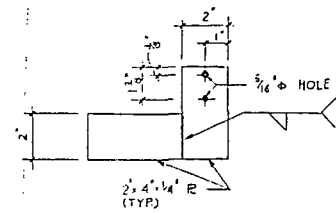
SOUTHWEST INDUSTRIAL
CONSTRUCTORS, INC.

DATE: 1/19/70
JOB NO:
DWN: ALI
CWL:

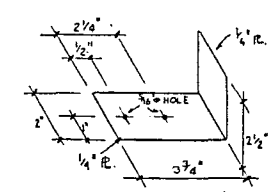
SAFETY KLEEN
DRUM WASHER

DRAWING NO.

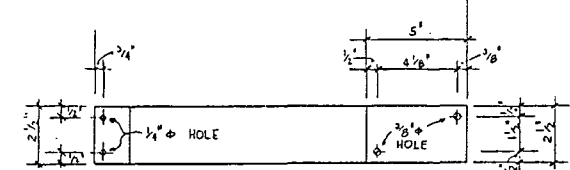
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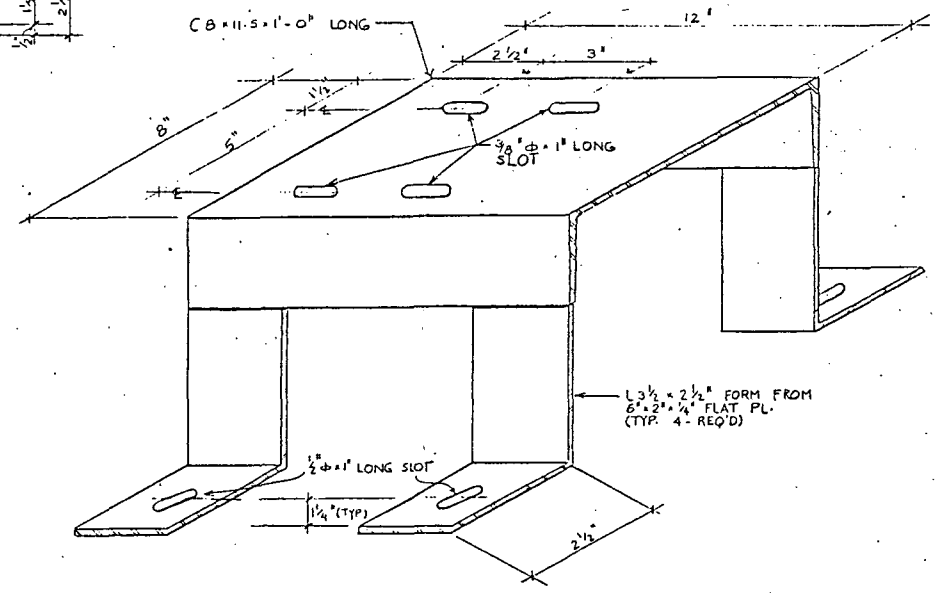
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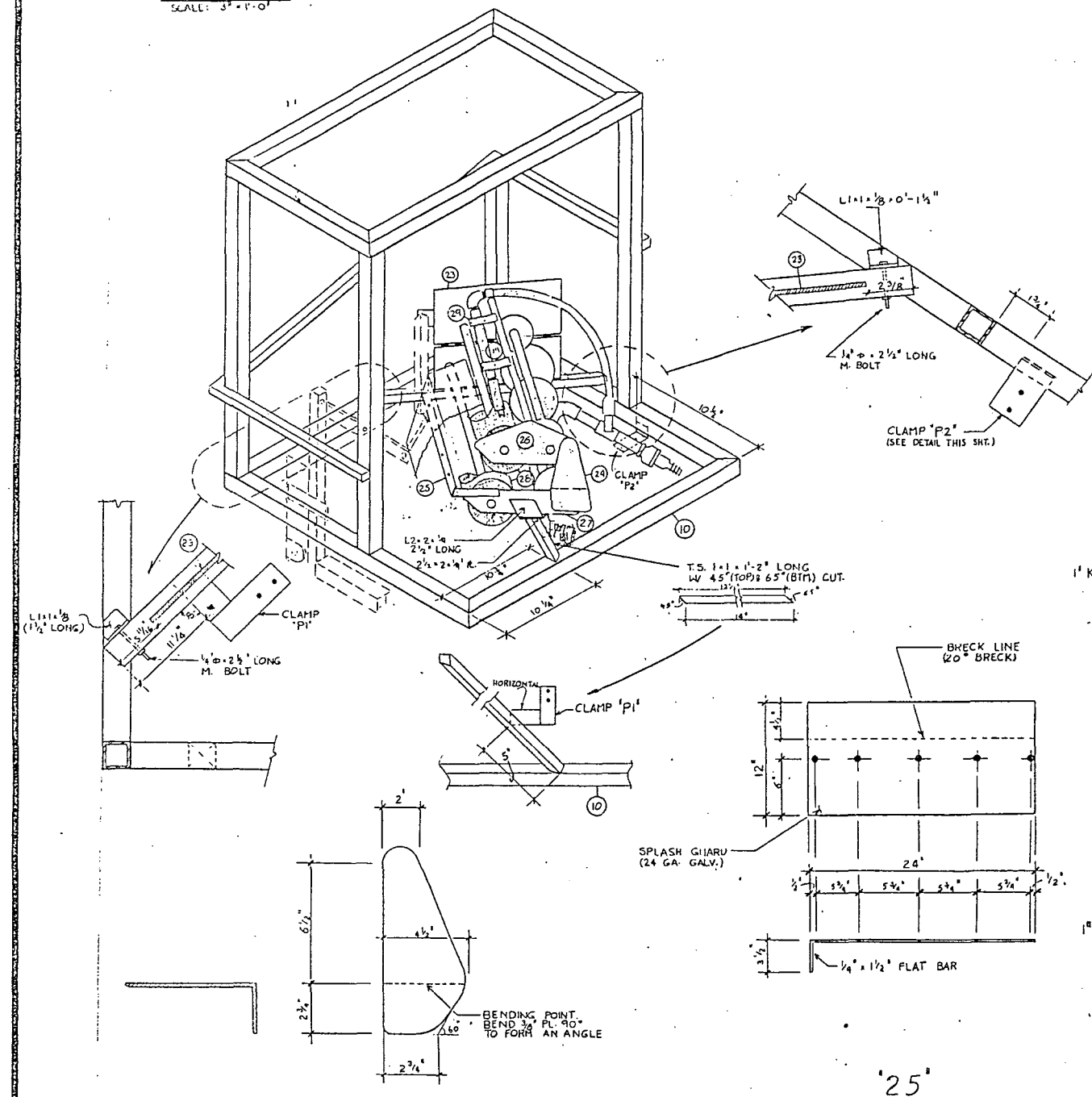
CLAMP 'P2'



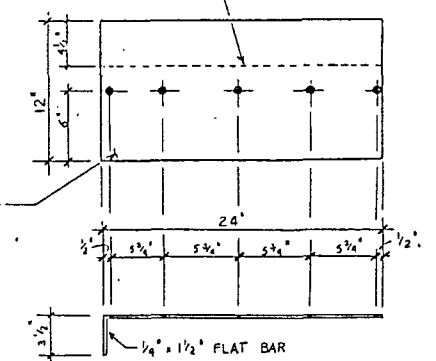
LIMIT SWITCH BRACKET
SCALE: 3" = 1'-0"



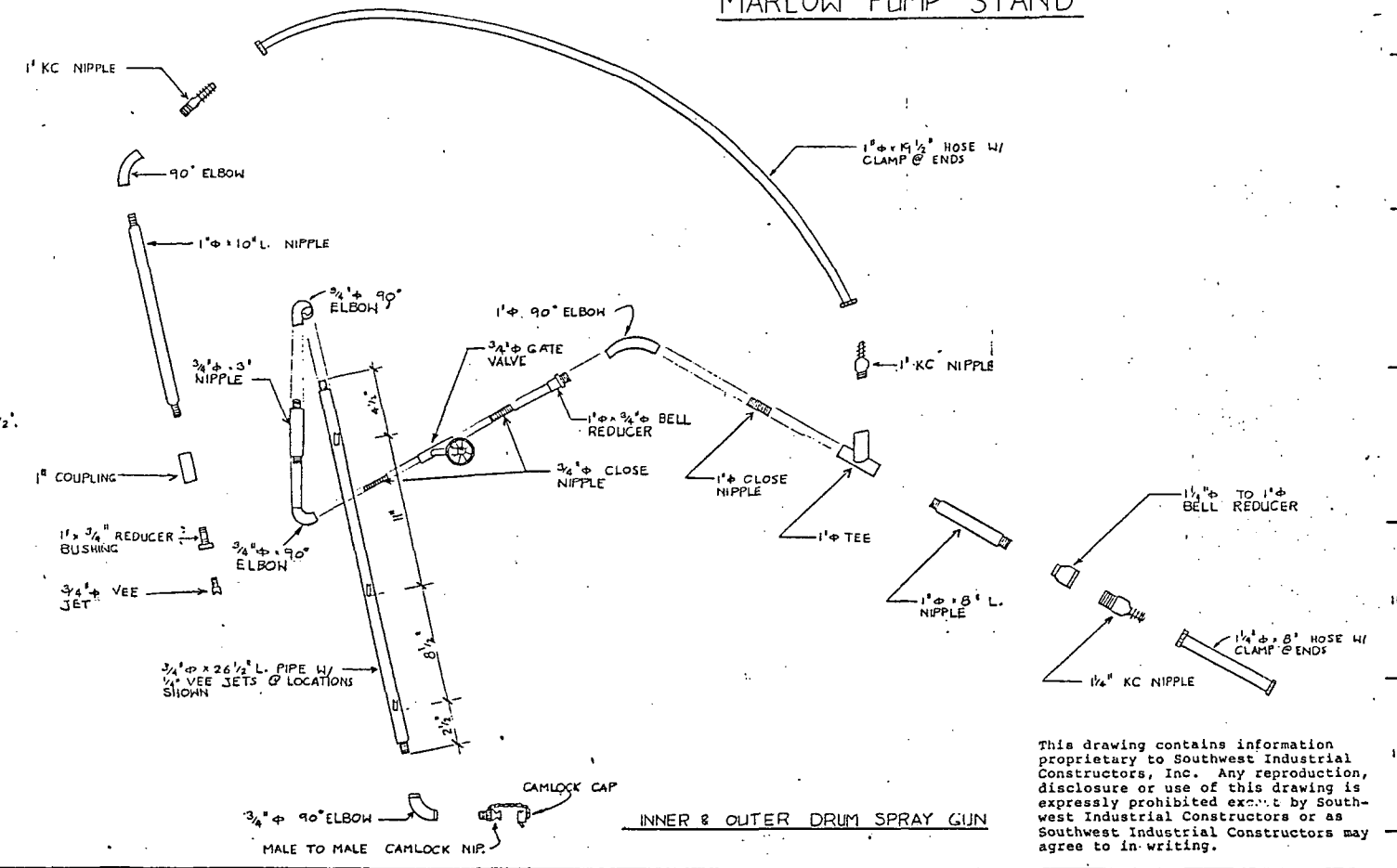
MARLOW PUMP STAND



24'
SCALE: 3" = 1'-0"



25'
SCALE: 1 1/2" = 1'-0"



INNER & OUTER DRUM SPRAY GUN

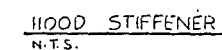
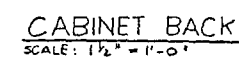
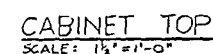
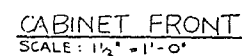
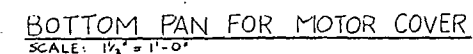
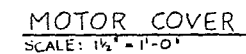
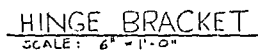
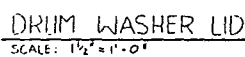
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SOUTHWEST INDUSTRIAL
CONSTRUCTORS, INC.

DATE: 1/19/90
JOB NO:
OWN: ALI
CHK:

SAFETY KLEEN
DRUM WASHER

SHEET NO.
5



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**SOUTHWEST INDUSTRIAL
CONSTRUCTORS, INC.**

DATE: 1 / 190

JOB NO: ' 1

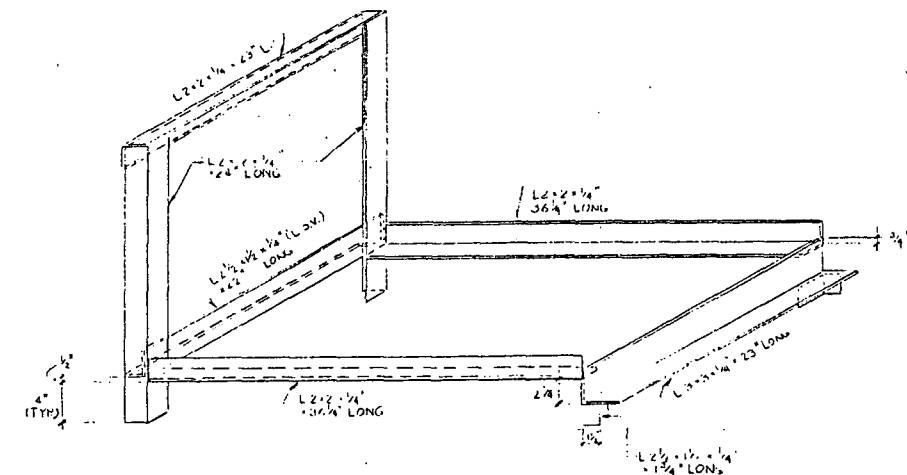
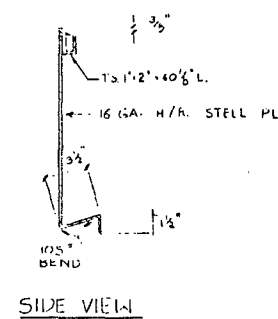
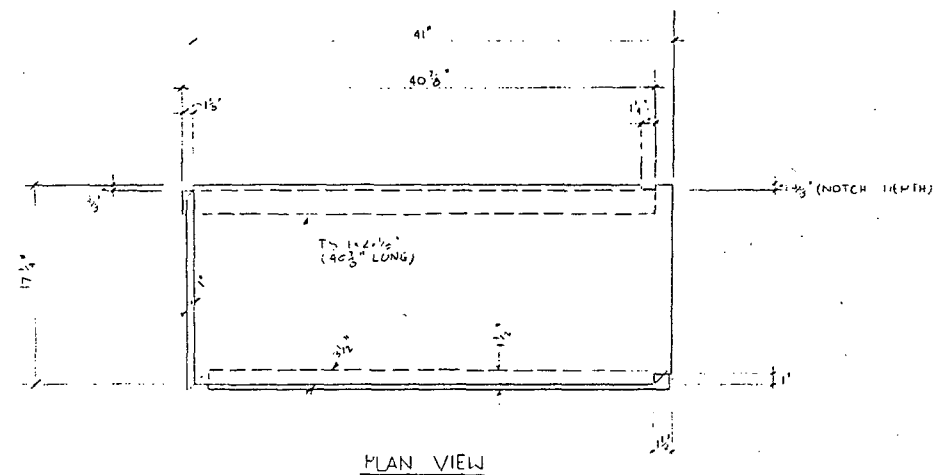
OWN: AL

CHK:

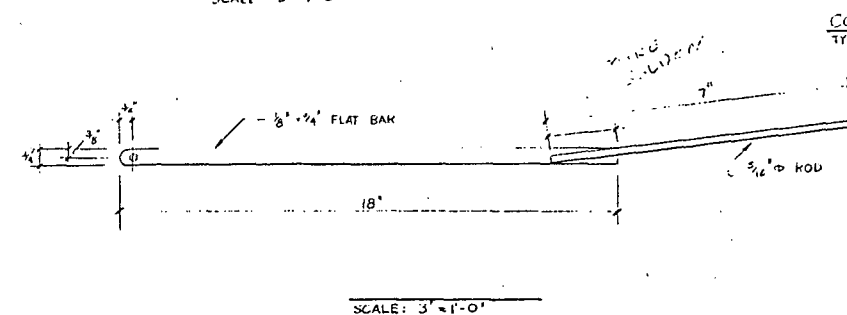
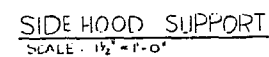
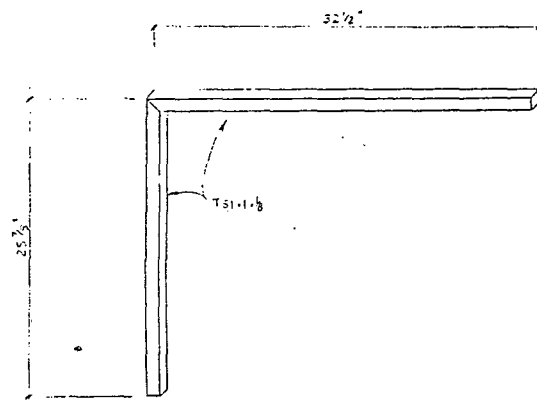
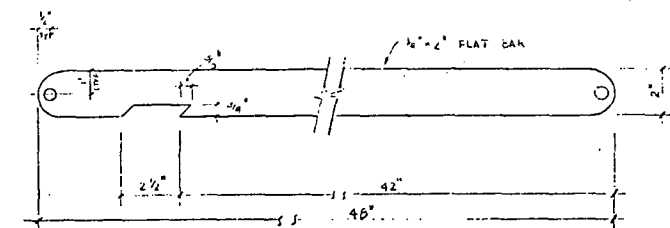
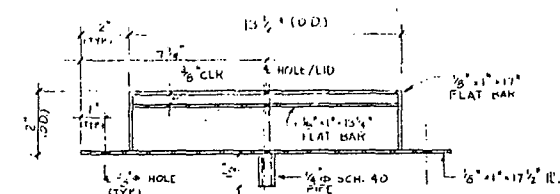
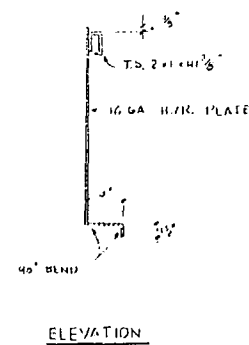
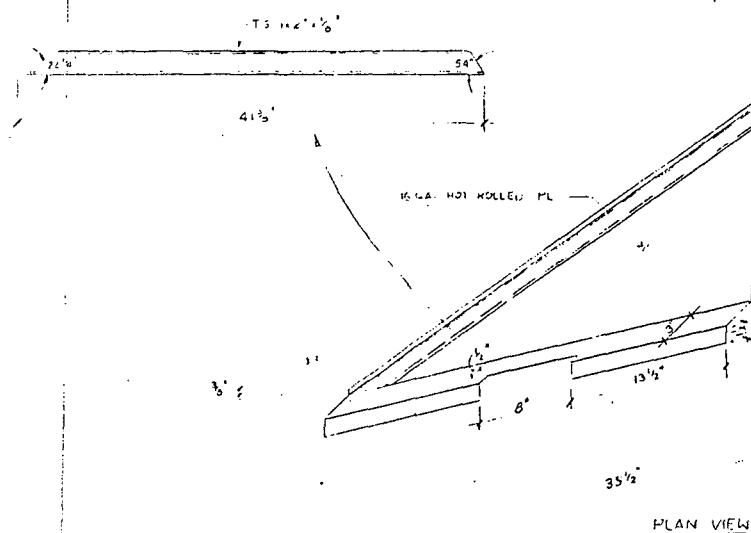
SAFETY - KLEEN
DRUM WASHER

STREET NO.

7



FRONT HOOD SUPPORT
SCALE: $1\frac{1}{4}" = 1'-0"$



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**SOUTHWEST INDUSTRIAL
CONSTRUCTORS, INC.**

DATE: 1/19/90

JOB NO:

OWN: ALI

CHK:

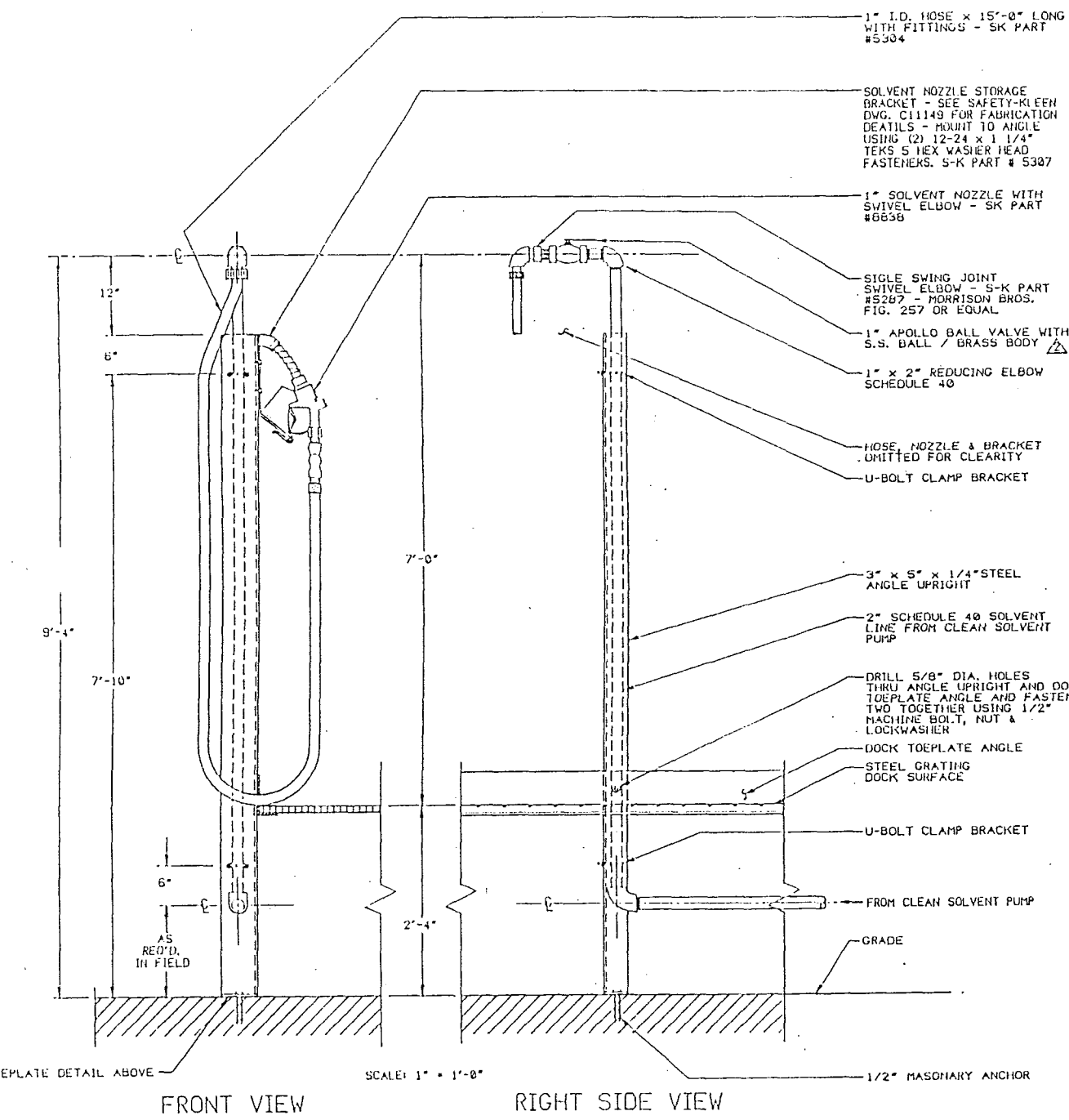
SAFETY - KLEEN
DRUM WASHER

SHEET NO.

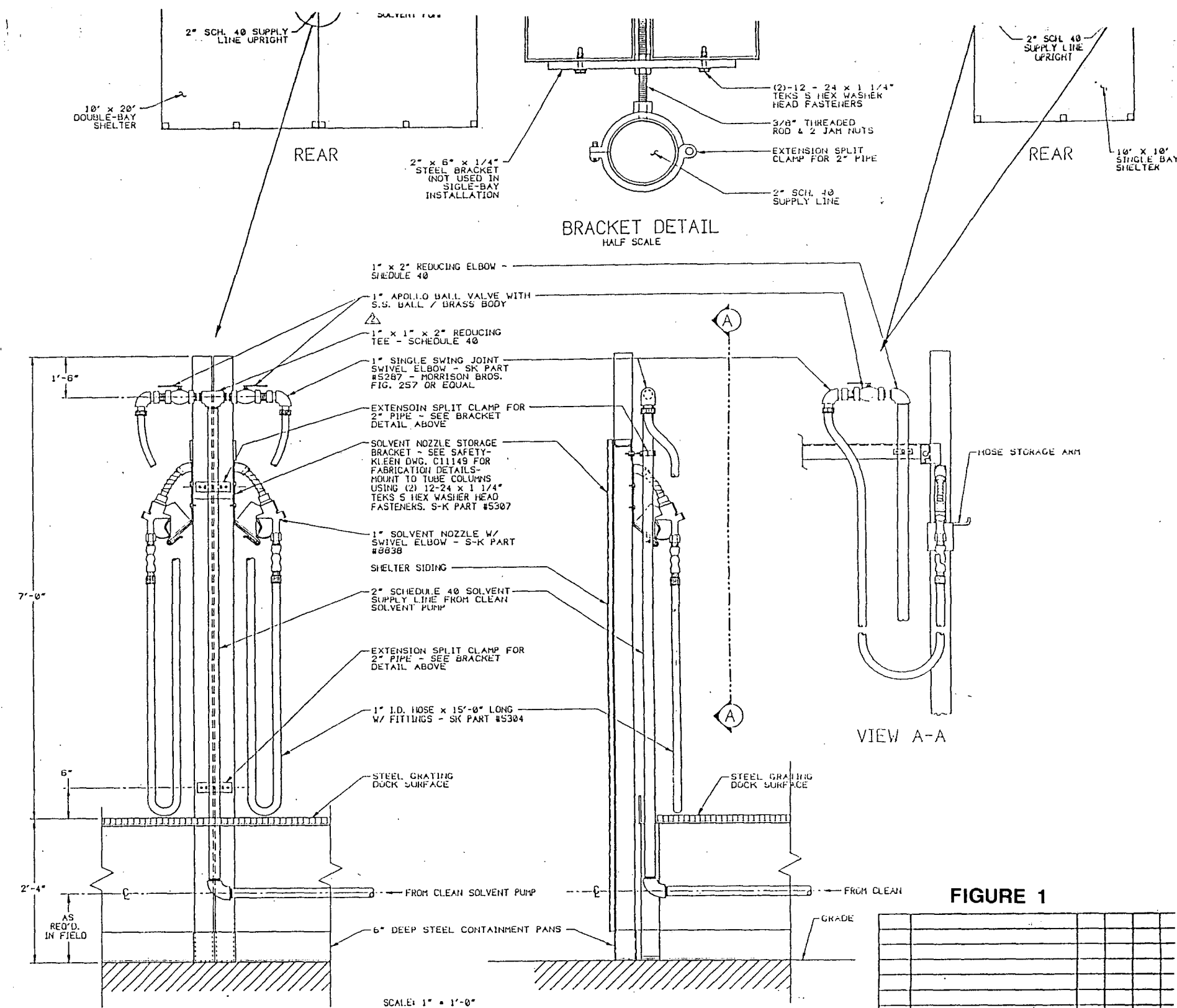
8

NOTE:
SURPLUS HOSE LENGTH CAN BE COILED & STORED ON ARM
PROVIDED AT SIDE OF NOZZLE STORAGE BRACKET.

BASEPLATE DETAIL
SCALE: 3" = 1'-0"



INSTALLATION FOR STANDARD BUILDING PLAN



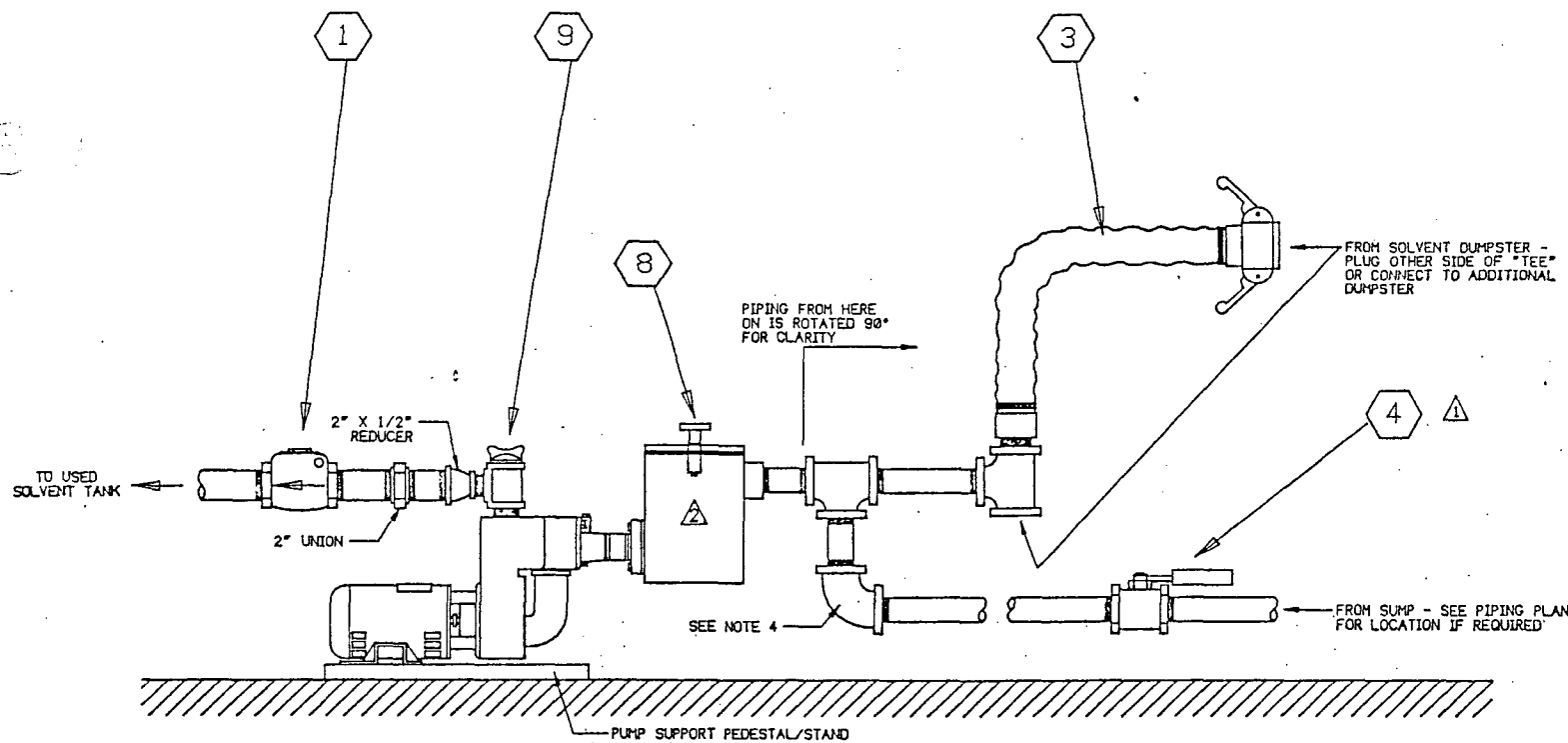
DOUBLE OR MULTIPLE BAY INSTALLATION

SINGLE BAY INSTALLATION

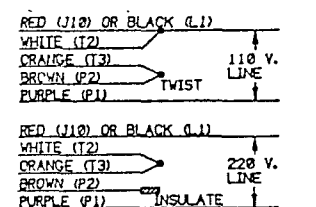
- NOTES:
1. ALL ITEMS WITH SAFETY-KLEEN PART NO., REFERENCES WILL BE SUPPLIED TO CONTRACTOR.
 2. THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SAFETY-KLEEN CORP. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT BY SAFETY-KLEEN OR AS SAFETY-KLEEN MAY AGREE IN WRITING.
 3. THIS DRAWING SUPERCEDES SAFETY-KLEEN DRAWINGS C10219 & C10961.
 4. SEE INDIVIDUAL SERVICE CENTER PLANS FOR LOCATION OF THESE DETAILS.

FIGURE 1

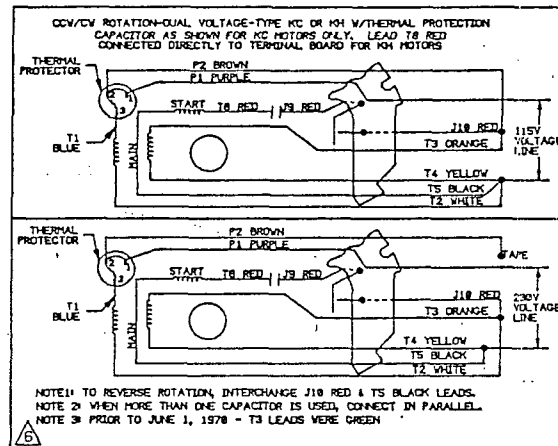
REVISIONS				
NO.	DESCRIPTION	BY	CHKD	DATE
2	ADDED BALL VALVE	RD		8/1
1	ADDED TABLE 1 & REFINISHED TABLE	W.J.		8/1
1	DESCRIPTION	BT	QMD	APR 0
TITLE				
SOLVENT DISPENSER TREE INSTALLATION DETAILS				
SAFETY-KLEEN CORP.				
777 E.D. TOWERS ROAD, BLDG. 813000 00120 PHONE 818/987-0400				
PROJ. NO.	APP.	OPERATIONS APP.	SCALE	DATE
			AS SHOWN	NWD-GD 2/22
DRWING NO.	FOR SERVICE CENTER BRANCH		D11223	



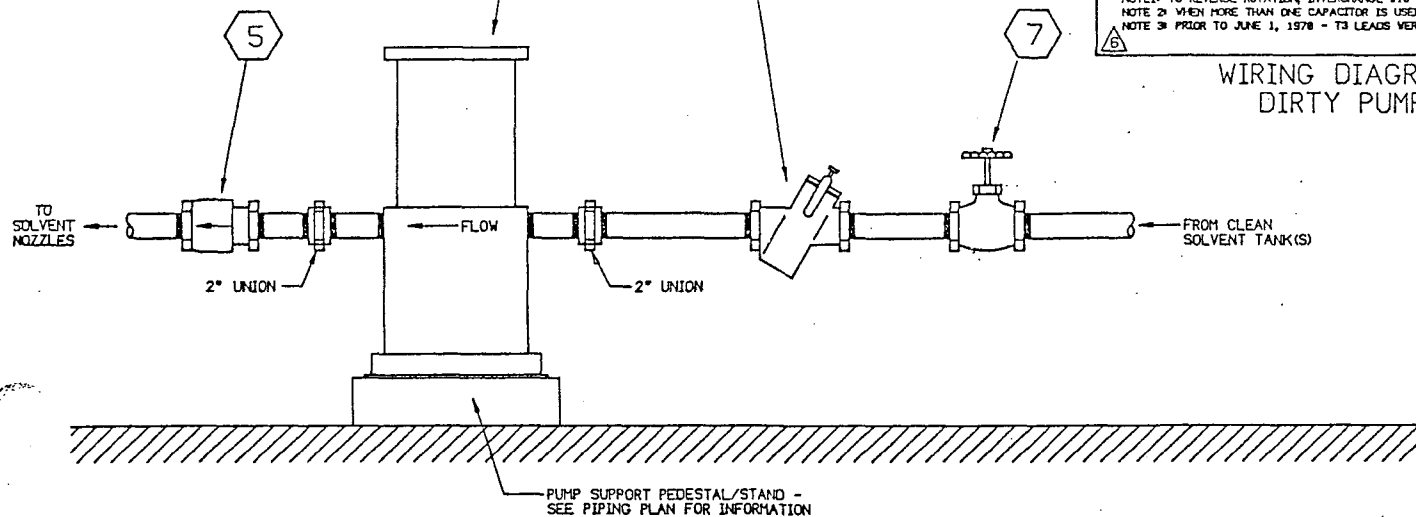
USED SOLVENT PUMP INSTALLATION



WIRING DIAGRAM:
CLEAN PUMP



WIRING DIAGRAM:
DIRTY PUMP

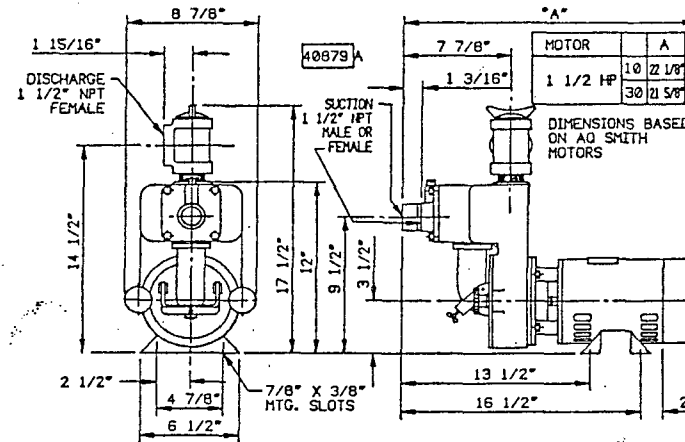


CLEAN SOLVENT PUMP INSTALLATION

EQUIPMENT / FIXTURE SCHEDULE				
MARK	SIZE	DESCRIPTION	SK PART NO.	REMARKS
1	2"	2" BRONZE CHECK VALVE - MORRISON BROS. FIG. 246-A	5288	
2	2"	2" MARLOW PUMP - 20 EYP 10A 1 HP EXPLOSION PROOF MOTOR W/JUNCTION BOX - VITON FITTED	5240	SEE SPECIFICATION DETAILS ON SAFETY-KLEEN DWG. A11118 BELOW
3	2"	2" DUMPSTER HOSE ASSEMBLY	5234	SEE SAFETY-KLEEN DWG. D10452 FOR DETAILED INFORMATION
4	2"	2" APOLLO BALL VALVE, BRONZE BODY W/STAINLESS STEEL BALL & TRIM, TEFLON SEALS & CONBRACO SPRING LOADED SELF CLOSING DEADMAN HANDLE	5272	
5	2"	2" BACK PRESSURE VALVE VERTICAL TYPE WITH 6 PSI SPRING SETTING - MORRISON BROS. FIG. 158-B/PR (15 P.S.I. OPEN)	5268	FOR ABOVEGROUND TANK INSTALLATION ONLY
6	2"	2" LINE STRAINER W/TOP CLEAN-OUT W/20 MESH MORRISON BROS. FIG. 286	5269	
7	2"	2" BRONZE GATE VALVE MORRISON BROS. FIG. 235	5236	
8	2"	2" MARLOW SUCTION STRAINER ASSEMBLY MODEL 2810X W/STAINLESS STEEL BASKET W/810 PERFORATIONS	5313	FLANGED DISCHARGE PORT OF STRAINER SERVES AS UNION ON SUCTION SIDE OF PUMP
9	1 1/2"	1 1/2" MARLOW PUMP - 1 1/2HR4SEC, SINGLE PHASE, EXPLOSION PROOF, BUNA FITTED, SELF PRIMING CENTRIFUGAL	5330	SEE DETAIL BELOW LEFT

PUMP UNITS WITH OPEN MOTORS
1 1/2HR4SEC

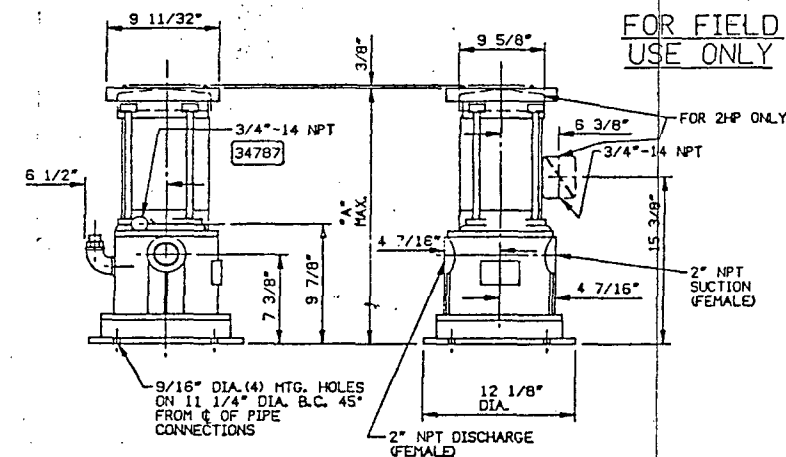
DWGS BASED ON "AO SMITH" MOTORS



THESE DIMENSIONS NOT TO BE USED FOR CONSTRUCTION PURPOSES WITHOUT FORMAL FACTORY APPROVAL.

GENERAL NOTES

- THIS DRAWING SUPERCEDES SAFETY-KLEEN CORP. DRAWING A11118
- SEE INDIVIDUAL SERVICE CENTER SITE & PIPING PLANS FOR LOCATIONS & ARRANGEMENT OF THESE DETAILS.
- FOR UNDERGROUND TANK INSTALLATIONS, A 90° CHECK VALVE MORRISON BROS. FIG. 137 OR APPROVED EQUAL SHOULD BE INSTALLED AT TOP OF TANK ON CLEAN PUMP SUCTION LINE (CLEAN TANKS ONLY).
- ALL PIPING TO BE 2" SCHEDULE 40 GALVANIZED UNLESS OTHERWISE SPECIFIED. ALL CHANGES OF DIRECTION IN DIRTY SOLVENT PIPING TO BE ACCOMPLISHED USING EITHER (2)-45° ELBOWS OR (1)-LONG RADIUS 90° ELBOW.
- THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SAFETY-KLEEN CORP. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT BY SAFETY-KLEEN OR AS SAFETY-KLEEN MAY AGREE IN WRITING.
- ALL ITEMS WITH SAFETY-KLEEN PART NO. REFERENCES WILL BE SUPPLIED TO CONTRACTOR.



GENERAL NOTES

- MODEL TO BE USED BY SAFETY-KLEEN CORP. - MODEL 20 EYP-10A, 1 HP - 2" WITH EXPLOSION PROOF MOTOR W/JUNCTION BOX & VITON FITTED, SINGLE PHASE 60 CYCLE 115/230V.
- SEE INDIVIDUAL SERVICE CENTER SITE PLANS FOR LOCATION OF THE INSTALLATION.

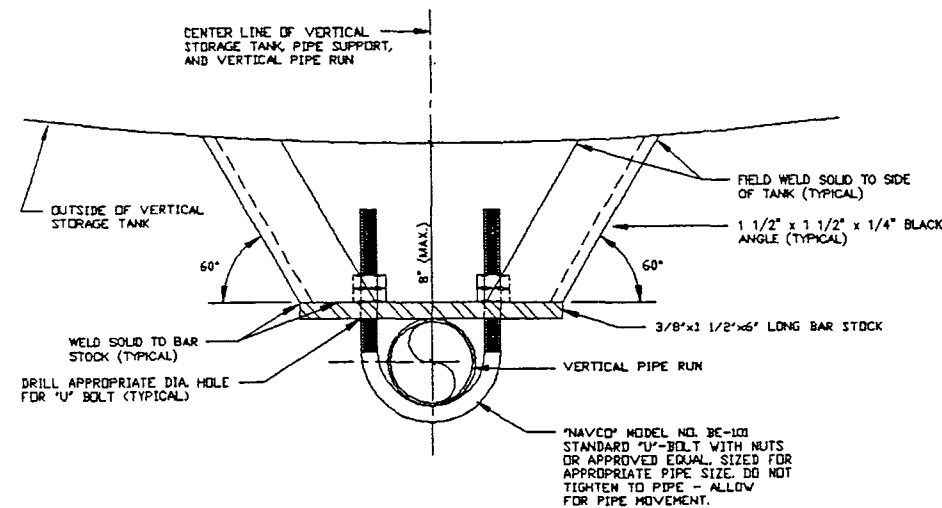
S-K PART NO.	G.E. EXPL. PROOF MOTORS			
	HP	PHASE	CYCLE	A
5240	1	60	20 13/32"	115/230

FIGURE 2

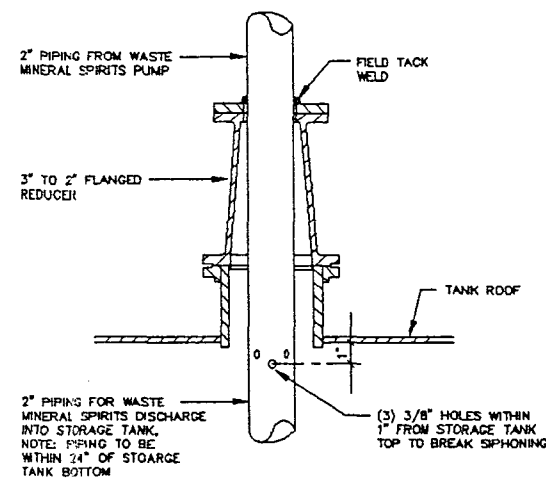
NO.	DESCRIPTION	BY	CHKD
1	ADDED V.D.'S FOR CLEAN & USED PUMPS	RD	
2	ADDED NEW PUMP FOR DIRTY SOLVENT TO VIEW & TABLE, ADDED PUMP SPEC'S	RD	
3	ADDED NOTE 6	WLJ	
4	ADDED PUMP SPEC'S - DWG A11118	WLJ	
5	ADDED ITEM 6 & ADDED TO NOTE 4	WLJ	
6	CHANGED ITEM 4 TO NEW TYPE VALVE	WLJ	

TITLE			
SOLVENT PUMP PIPING INSTALLATION DETAIL			
SAFETY-KLEEN CORP.			
777 EDDY STREET ROAD, ELLEN, ILLINOIS 60120 PHONE 312/230-1111			
PROJ. ENG. APPR.	OPERATIONS APPR.	SCALE	DRAWN
		NTS	MWD-PS
BRANCH	FOR SERVICE CENTER BRANCH	DRAWING NO.	D11150

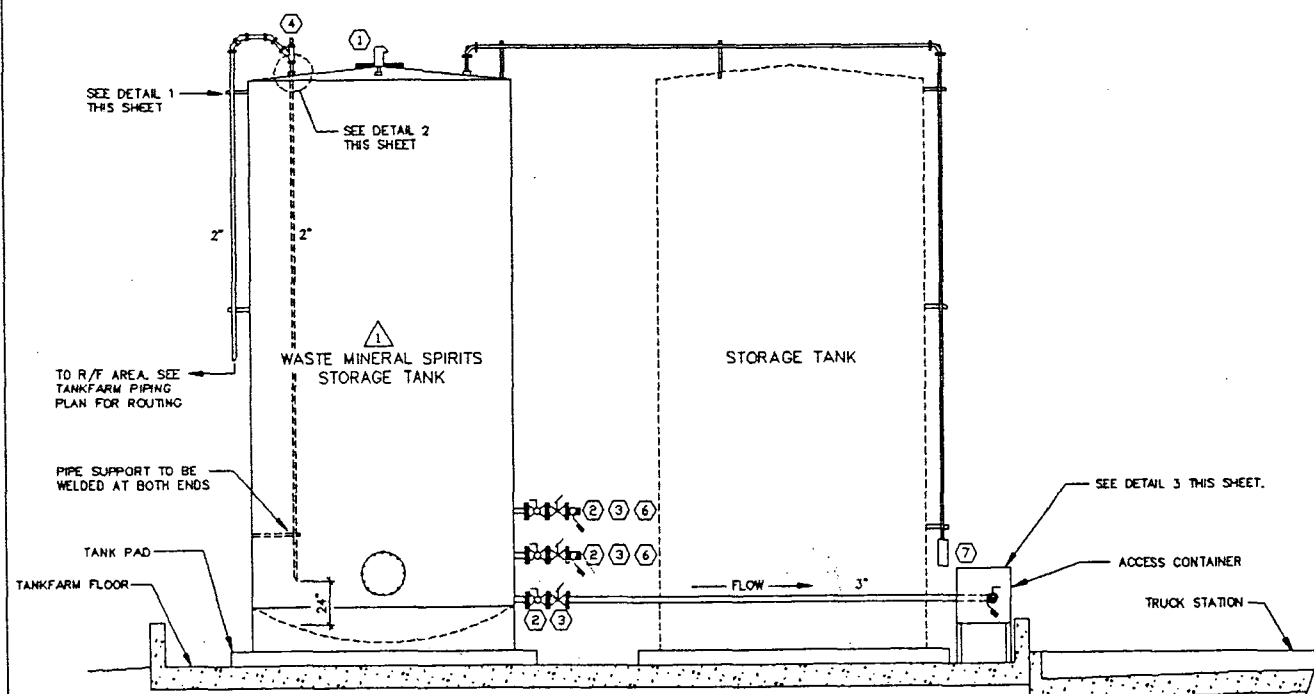
2/24/89 BJS
PBG



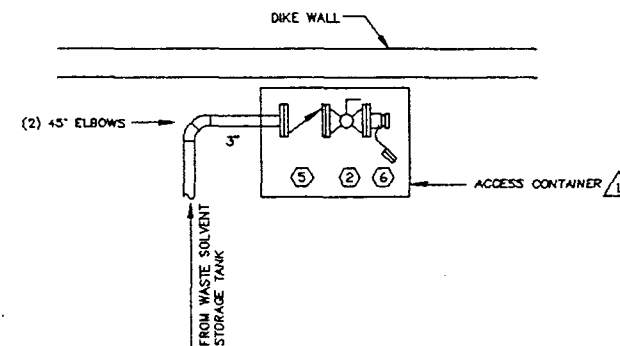
1 VERTICAL PIPE SUPPORT DETAIL
 *NOTE: SIMILAR DETAIL TO BE USED FOR SUPPORTING PIPE RUNS ACROSS TANK TOPS.
 *NOTE: PAINT 'U'-BOLT & NUTS, BARSTOCK, & ANGLES PER TANK PAINTING SPECS.
 SCALE: NONE



2 TANK DOME PIPING PENETRATION DETAIL
 SCALE: NONE



PARTIAL TANK FARM PIPING ELEVATION, TYPICAL
 (SEE TANK FARM PIPING PLAN FOR ACTUAL PIPING ROUTINGS.)
 SCALE: NONE



3 ACCESS CONTAINER PIPING DETAIL
 SCALE: NONE

EQUIPMENT SCHEDULE			
MARK	PART DESCRIPTION	SK PART	REMARKS
①	3" THREADED BRASS PRESSURE/VACUUM VENT. (2oz. pressure/1oz. vacuum)	5339	①
②	3" FLANGED DUCTILE IRON BALL VALVE	-	LOCKING TYPE ①
③	3" FLANGED DUCTILE IRON EXTERNAL EMERGENCY VALVE WITH FUSIBLE LINK (160° F)	-	①
④	3/8" THREADED BRASS AUTOMATIC VACUUM BREAKER	5236	①
⑤	3" FLANGED DUCTILE IRON SWING CHECK VALVE	-	①
⑥	3" FLANGED ALUMINUM CAMLOC QUICK COUPLING WITH CAP AND CHAIN	-	①
⑦	TANK GAUGE	-	SEE INSTALLATION DETAILS ON DRAWING #2025 ①

FIGURE 3

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 SUPPLIED BY SAFETY-KLEEN.

2. ALL DIRECTION CHANGES IN WASTE SOLVENT PIPING LINES TO BE MADE USING A COMBINATION OF 45° ELBOWS OR LONG SWEEP 90° ELBOWS.

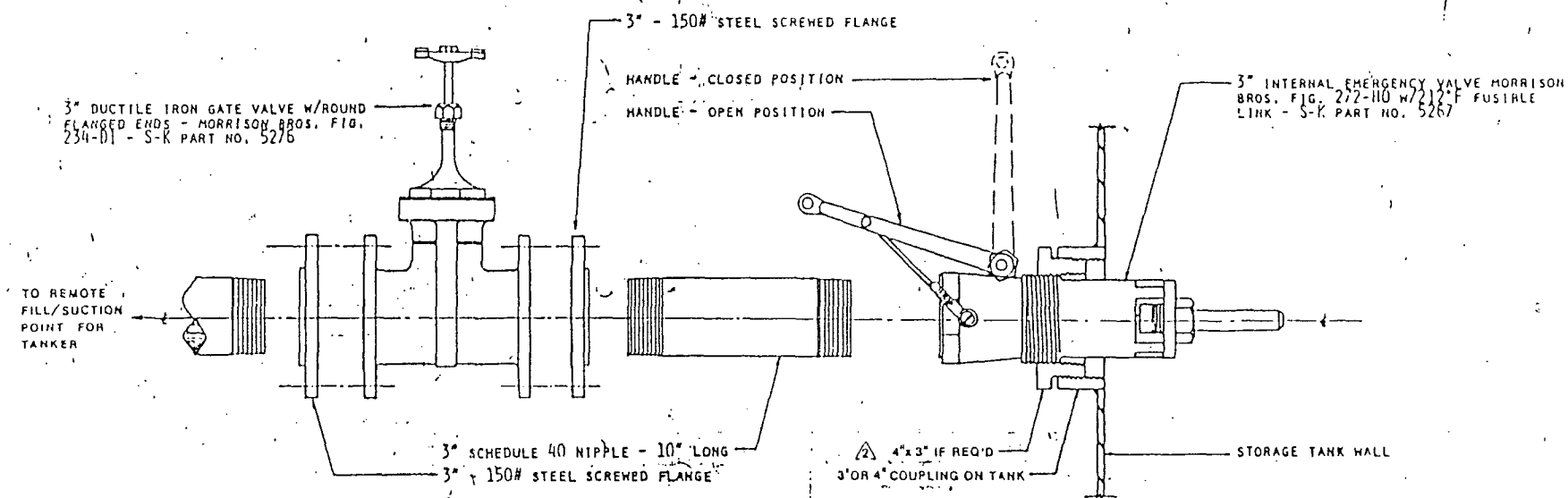
QUESTEC
 CONSULTING ENGINEERS
 4812 S. 10th Ave. • Columbia, MO 65203 • (314) 675-0800

TITLE
 TANK FARM / WASTE
 MINERAL SPIRITS PIPING PLAN

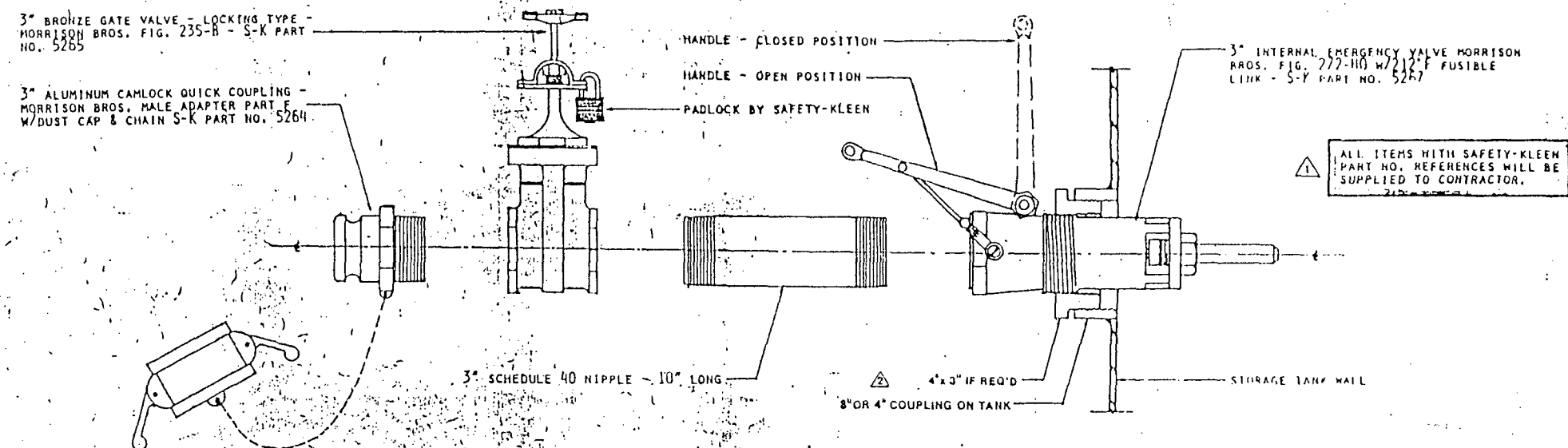
SAFETY-KLEEN CORP.
 777 BIG TOWER ROAD ELGIN, ILLINOIS 60120 PHONE 708-697-8460

SCALE: NONE	BY: QUESTEC	CHKD:	P.E. APPR:	OP. APPR:	DATE: 9-27-91
SC-DWG-REV NO. 316301-2011-00					SHEET NO. 49

NO.	DESCRIPTION	BY	CHK	APPR	DATE
REVISIONS					



— STANDARD INSTALLATION FOR PIPING OF ALL STORAGE TANKS —



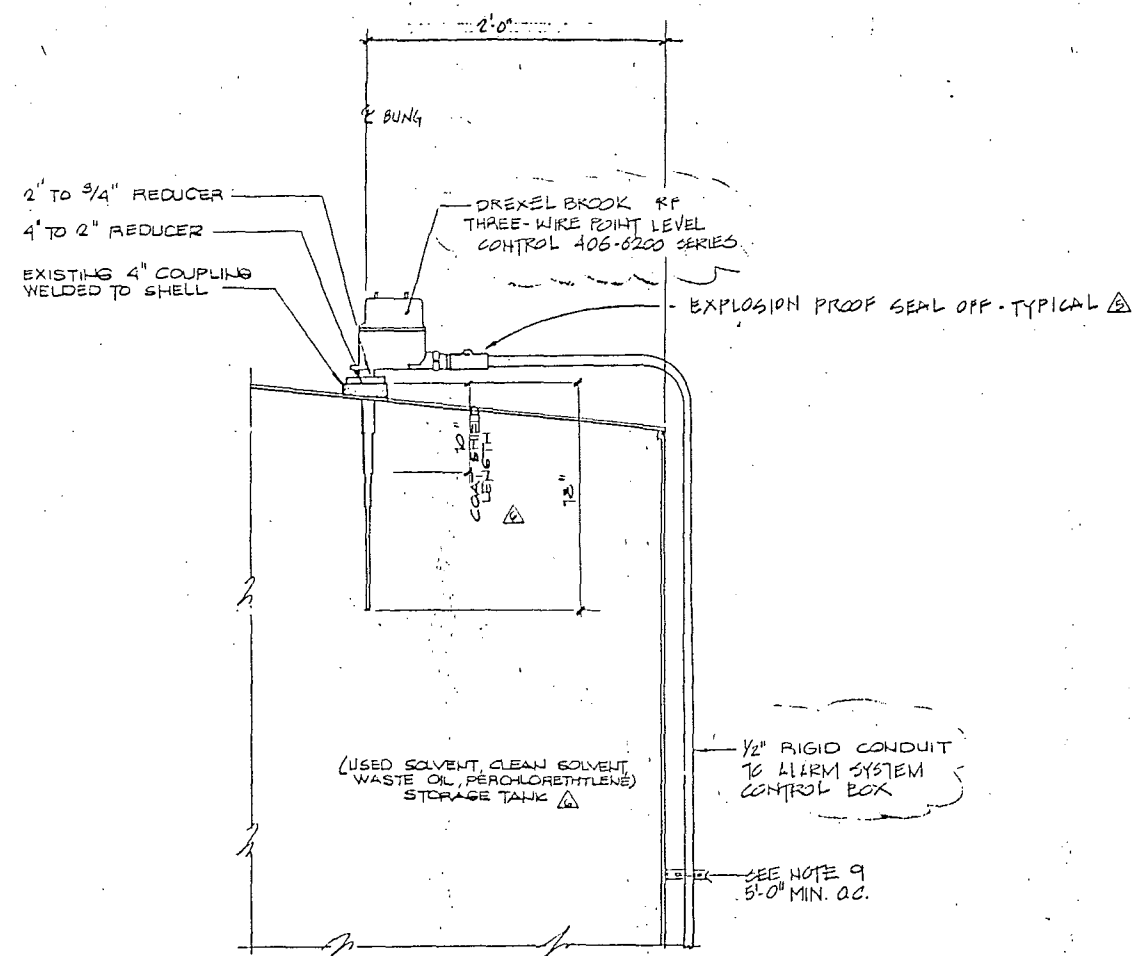
— ADDITIONAL INSTALLATION FOR PIPING OF NEW TANKS FOR STORAGE OF USED SOLVENT —
(FOR LOCATIONS PRONE TO FREEZING ONLY - SEE SAFETY-KLEEN DRAWING D11124 —)

NOTE — THIS DRAWING SUPERCEDES SAFETY-KLEEN DRAWING C11036

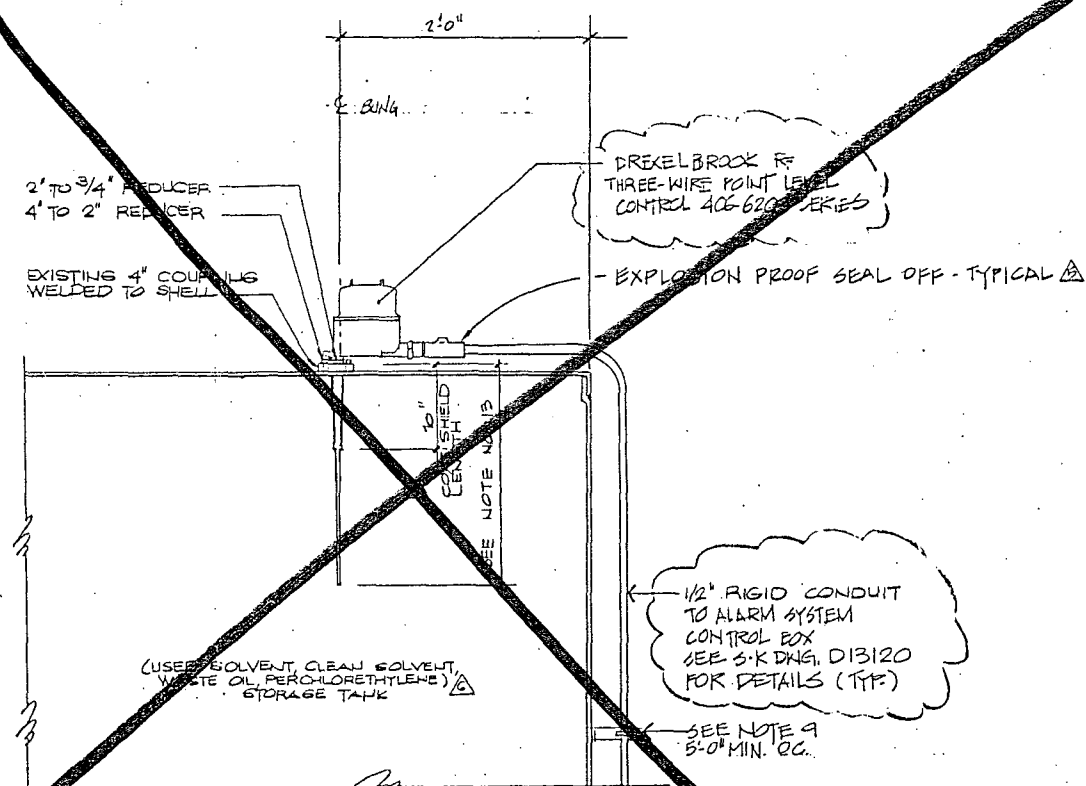
FIGURE 5

Safety-Kleen Corp. EMERGENCY & GATE VALVE INSTALLATION DETAILS —		NO. SCALE
FOR SERVICE CENTER BRANCH	CONSTRUCTION & OR IMPROVEMENTS	C1130

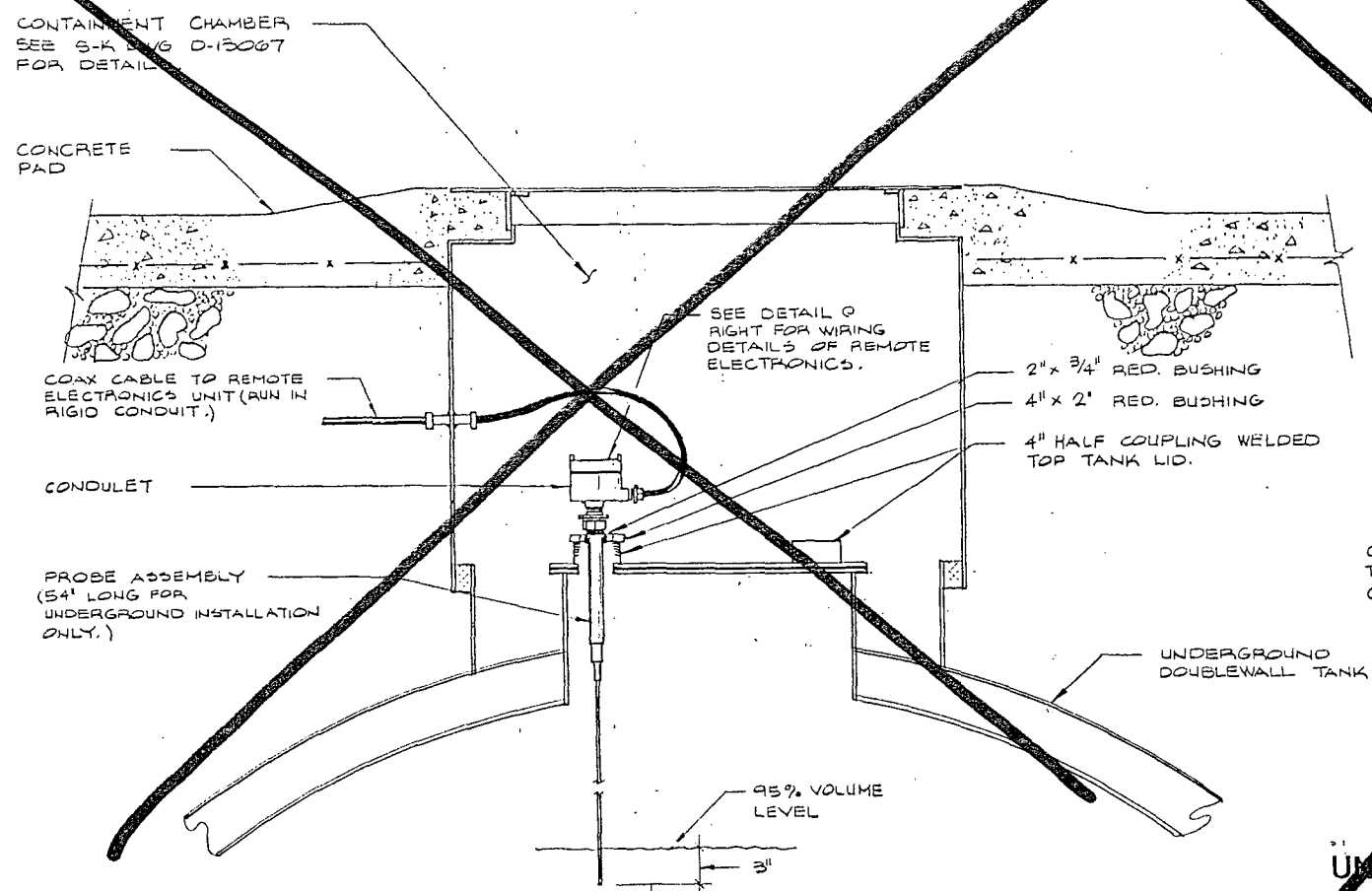
REV	DESCRIPTION	RD	DATE
1	ADDED CLARIFICATION	RD	2/2/80
2	ADDED NOTE	WJ	10/11/81
3	DESCRIPTION	BY	



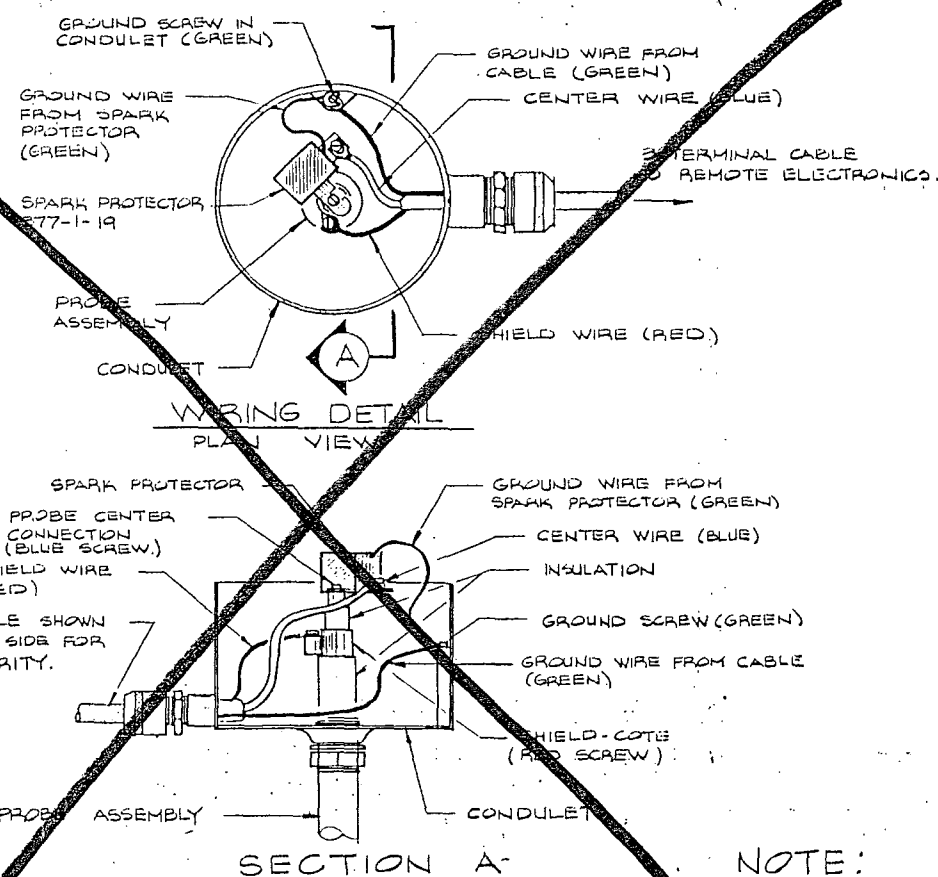
ABOVEGROUND VERTICAL TANK INSTALLATION



ABOVEGROUND HORIZONTAL TANK INSTALLATION



UNDERGROUND TANK INSTALLATION



SECTION A

NOTE:

WORK THIS DWG. WITH EK. DWGS D-13929 AND D-14218.

GENERAL NOTES

- POWER REQUIREMENT 13 TO 28 VDC
- OUTPUT 4 - 10 mA (ALARM STATE)
15 - 25 mA (NORMAL STATE)
- OPERATING TEMP. -40°F TO +140°F
- SHIELD-TO-GROUND LOADING:
25 ohm MIN. RESISTANCE
- RFI EFFECT: LESS THAN 2 pF SHIFT
IN OPERATING POINT FOR UNIT IN
EXPLOSION-PROOF HOUSING FROM 5 W
FIELD @ 27, 150, OR 450 MHz, AT A
DISTANCE OF 5 FT. FROM EXPOSED
CABLE OR SIGNAL WIRE.
- FAIL-SAFE: SWITCHABLE OR EITHER
LOW-LEVEL FAIL-SAFE (LLFS) OR
HIGH-LEVEL FAIL-SAFE (HLFS).
- HOUSING: NEMA 12-WATERPROOF
EXPLOSION PROOF FOR CLASS I GROUPS
A, B, C, D, AND CLASS II GROUPS E, F, G
DN, 1 OR 2.
- SEE INDIVIDUAL SERVICE CENTER SITE PLANS
FOR RELATIVE LOCATIONS OF THESE DETAILS.
- CONTRACTOR TO SUPPLY & INSTALL CONDUIT
SUPPORTS & BRACKETS AS REQUIRED.
- THIS DRAWING CONTAINS INFORMATION
PROPRIETARY TO SAFETY-KLEEN CORP. ANY
REPRODUCTION, DISCLOSURE OR USE OF THIS
DRAWING IS EXPRESSLY PROHIBITED BY
SAFETY-KLEEN
- ALL ITEMS SHOWN WITH A SAFETY-KLEEN PART
NUMBER WILL BE SUPPLIED BY SAFETY-KLEEN
CORP. (E.G. S-K- - - -)
- IF INDIVIDUAL SERVICE CENTER CONDITIONS
ARE NOT COVERED BY DETAILS SHOWN HERE,
PLEASE CONTACT TECHNICAL SERVICES AT THE
CORPORATE OFFICE FOR ASSISTANCE.
- ALL CALIBRATION OF UNIT SHALL BE DONE
IN ACCORDANCE WITH DREXELBROOK'S
RECOMMENDATIONS. CALIBRATION SHALL
BE DONE AFTER ALL COMPONENTS OF
SYSTEM ARE IN PLACE.
- ALL TANKS SHALL BE GROUNDED PRIOR
TO INSTALLATION OF ALARM SYSTEM.

FIGURE 6A

REWORK UNDERGROUND INSTALLATION ADDED DETAILED 1/2\"/>	RD	1-4-92
ADD NOTES AND MODIFY THE DWG. ON VERT & HOR. TANK INSTALLATION.	MA	7-28-92
ADD "EXPLOSION PROOF SEAL OFF" NOTE	ELB	11-13-92
CHANGE: PROBE DEPTH, NOTE 13	ELB	11-13-92

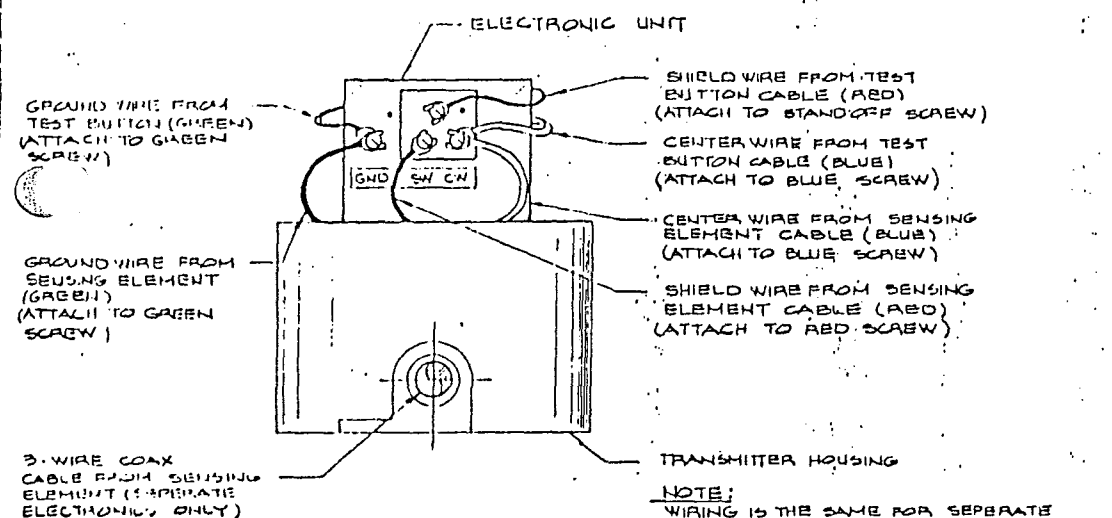
SAFETY-KLEEN CORP.
777 BIG TIMBER ROAD • ELGIN, ILLINOIS 60123 PHONE 312/697-6460

HIGH LEVEL ALARM SYSTEM TRANSMITTER
TO TANK INSTALLATION DETAILS

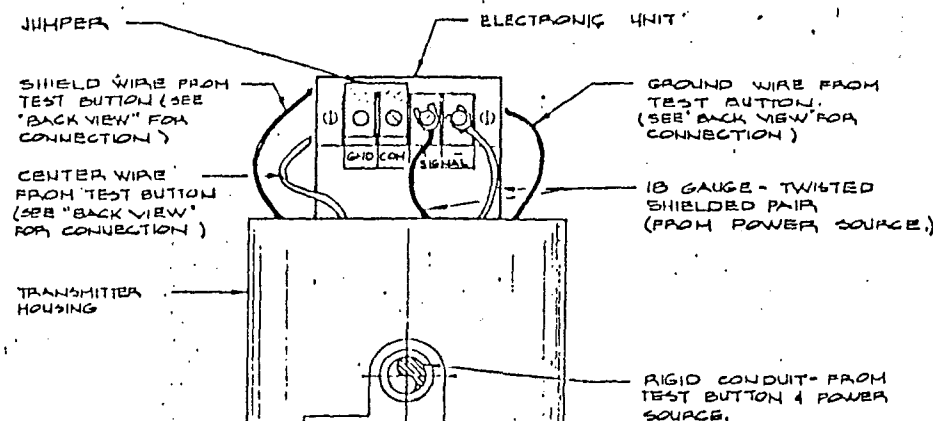
DATE	REVISIONS	BY	DATE
NONE			
6-22-88	ADDED: CHART & MISC. INFO.	RD	7-6-88
RD	1/2\"/>	RD	7-6-88
	ADDED SEAL OFF	RD	11-13-92

TITLE for: SERVICE CENTER BRANCH

D13102



**ELECTRONIC UNIT
BACK VIEW**
(SENSING ELEMENT CONNECTIONS)

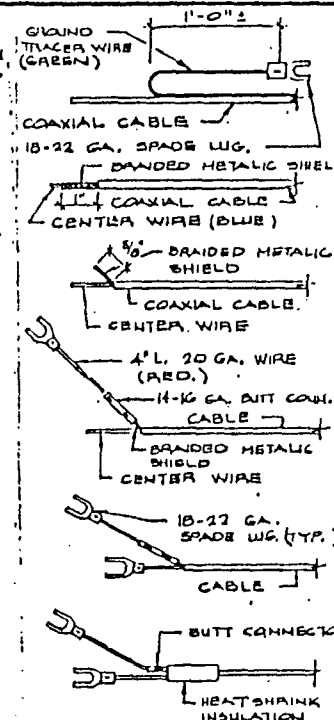


**ELECTRONIC UNIT
FRONT VIEW**
(SIGNAL WIRING)

NOTE:
WIRING IS THE SAME FOR SEPARATE AND INTEGRAL ELECTRONICS OF THIS UNIT.

TERMINATIONS OF COAXIAL CABLE

1. Cut cable to required length plus 1". Strip the ground tracer wire away from the core to a length of about 1". Strip about 3/16" of insulation from the end of the wire. Strip an 18-22 ga. spade terminal leg onto the ground wire. If possible, this wire should be color-coded green to match the color scheme for the ground connection.
2. Trim outer insulation back 1", cutting down to but not including braided metallic shield.
3. Remove the metallic braid from the center wire insulation. Twist the braid lightly together. Cut the twisted braid to a length of about 3/16".
4. Strip a 14-16 ga. ring-on butt connector, attach a 4" piece of 20 ga. stranded insulated wire to the twisted braid. In order to make a strong connection with the larger gauge of the butt connector, a 3/16" stripped length of the 20 ga. wire should be inserted and then twisted back upon itself before insertion into the butt connector. Strip an 18-22 ga. spade terminal leg onto the other end of the 4" wire. If possible, this wire should be color-coded red to match the color scheme for the center-wire connection.
5. Trim about 1/16" of the lower plastic insulation to expose the center wire. Strip an 18-22 ga. spade terminal leg over the bare center wire so that the insulation of the spade leg bottoms out on the lower insulation and the tip of the wire shows at the leg end. Strip the leg and trim any excess center wire. If possible, this wire should be color-coded blue to match the color scheme for the probe-center wire connection.
6. Strip 1" of 1/2" diameter heatshrink insulation over cable end so that all metallic braid is well covered. Heat the insulation with a heat gun or by using a heat gun. (Dry heat sources of 200-250 degrees needed. A propane torch with a low level flame is recommended.)



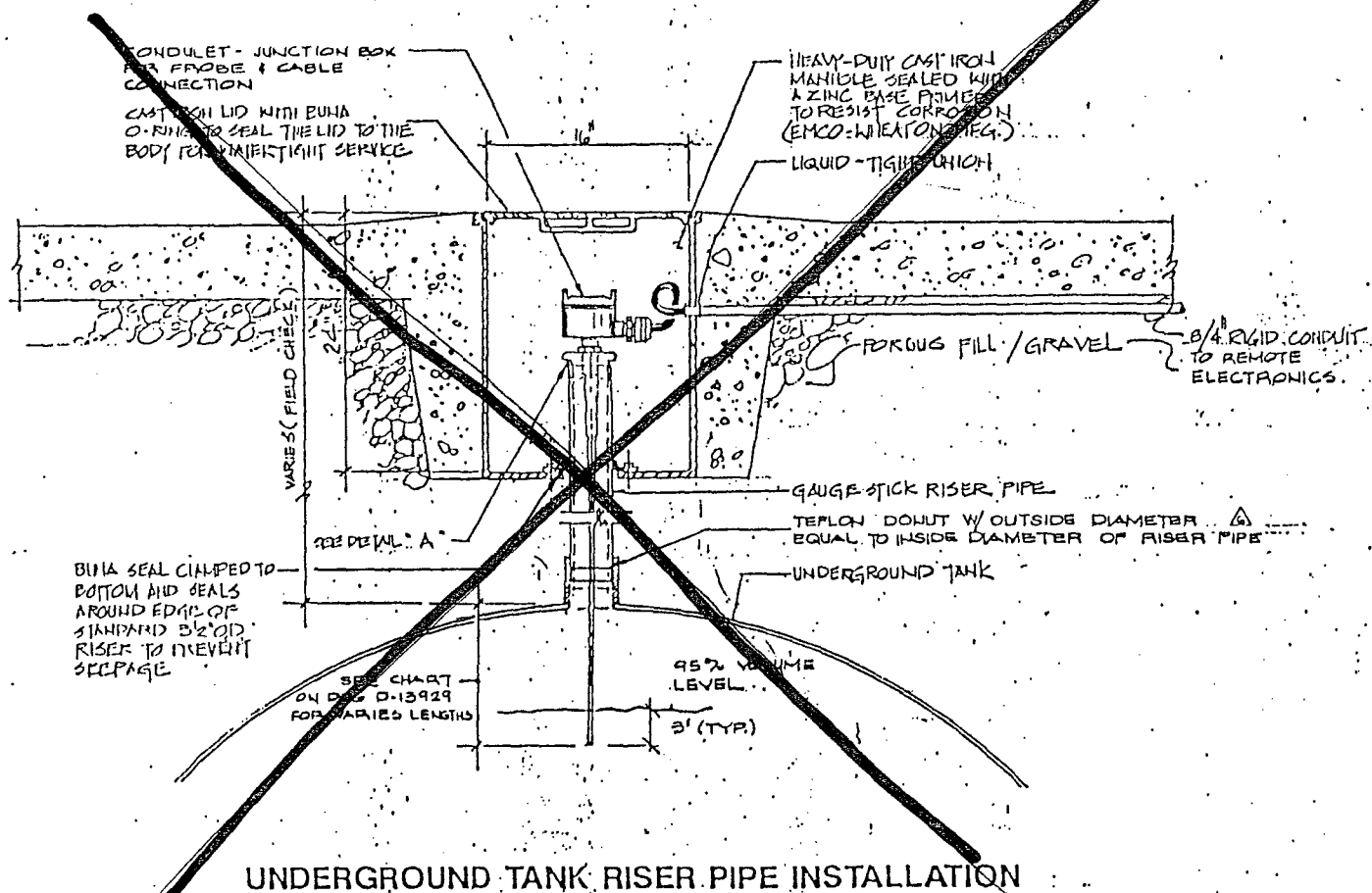
NOTE:

WORK THIS DWG. WITH SKDWG'S
D-13929 AND D-13102

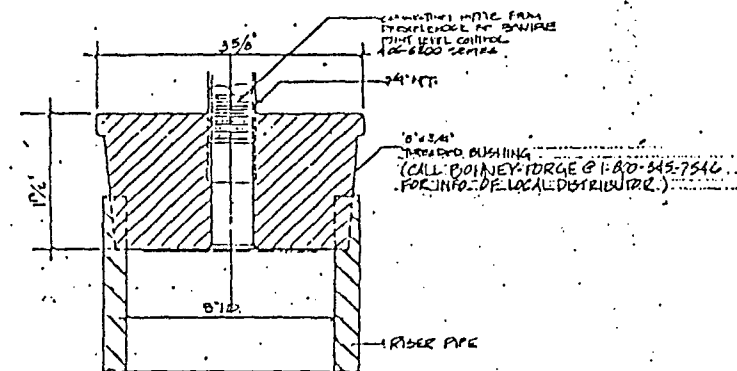
GENERAL NOTES

1. POWER REQUIREMENT 15 TO 28 VDC
2. OUTPUT 4 - 10 W (ALARM STATE)
15 - 25 W (NORMAL STATE)
3. OPERATING TEMP. -40°F TO +140°F
4. SHIELD-TO-GROUND LOADING:
25 ohm MIN. RESISTANCE
5. AFT EFFECT: LESS THAN 2 pf SWIFT
IN OPERATING POINT FOR UNIT IN
EXPLOSION-PROOF HOUSING FROM 3 M
FIELD @ 27, 150, OR 450 MHz AT A
DISTANCE OF 3 FT. FROM EXPOSED
CABLE OR SIGNAL WIRE.
6. FAIL-SAFE: SWITCHABLE OR EITHER
LOW-LEVEL FAIL-SAFE (LLFS) OR
HIGH-LEVEL FAIL-SAFE (HLFS).
7. HOUSING: NEMA 12-WATERPROOF
EXPLOSION PROOF FOR CLASS I GROUPS
A, B, C, D, AND CLASS II GROUPS E, F, G
DN, 1 OR 2.
8. SEE INDIVIDUAL SERVICE CENTER SITE PLANS
FOR RELATIVE LOCATIONS OF THESE DETAILS.
9. CONTRACTOR TO SUPPLY & INSTALL CONDUIT
SUPPORTS & MOUNTS AS REQUIRED.
10. THIS DRAWING CONTAINS INFORMATION
PROPRIETARY TO SAFETY-KLEEN CORP. ANY
REPRODUCTION, DISCLOSURE OR USE OF THIS
DRAWING IS EXPRESSLY PROHIBITED BY
SAFETY-KLEEN
11. ALL ITEMS SHOWN WITH A SAFETY-KLEEN PART
NUMBER WILL BE SUPPLIED BY SAFETY-KLEEN
CORP. (A.S. 3-K-1-1-1)
12. IF INDIVIDUAL SERVICE CENTER CONDITIONS
ARE NOT COVERED BY DETAILS SHOWN HERE,
PLEASE CONTACT TECHNICAL SERVICES AT THE
CORPORATE OFFICE FOR ASSISTANCE.
13. CALCULATIONS FOR LENGTH OF PROBE INSIDE
OF TANK ARE SET TO ACTIVATE THE ALARM
AT THE 95% VOLUME LEVEL.
14. ALL CALIBRATION OF UNIT SHALL BE DONE
IN ACCORDANCE WITH OPERATOR'S
RECOMMENDATIONS. CALIBRATION SHALL
BE DONE AFTER ALL COMPONENTS OF
SYSTEM ARE IN PLACE.
15. ALL TANKS SHALL BE GROUNDED PRIOR
TO INSTALLATION OF ALARM SYSTEM.

THIS DOCUMENT HAS BEEN PREPARED
AND IS APPROVED BY ME FOR INCLUSION
IN DRAWING SERIAL REPORT;
APPLICATION ONLY. IT IS NEITHER
APPROVED NOR IS IT TO BE USED
FOR EQUIPMENT OR MATERIAL
PROCUREMENT, CONSTRUCTION, OR
ANY OTHER PURPOSE.



UNDERGROUND TANK RISER PIPE INSTALLATION



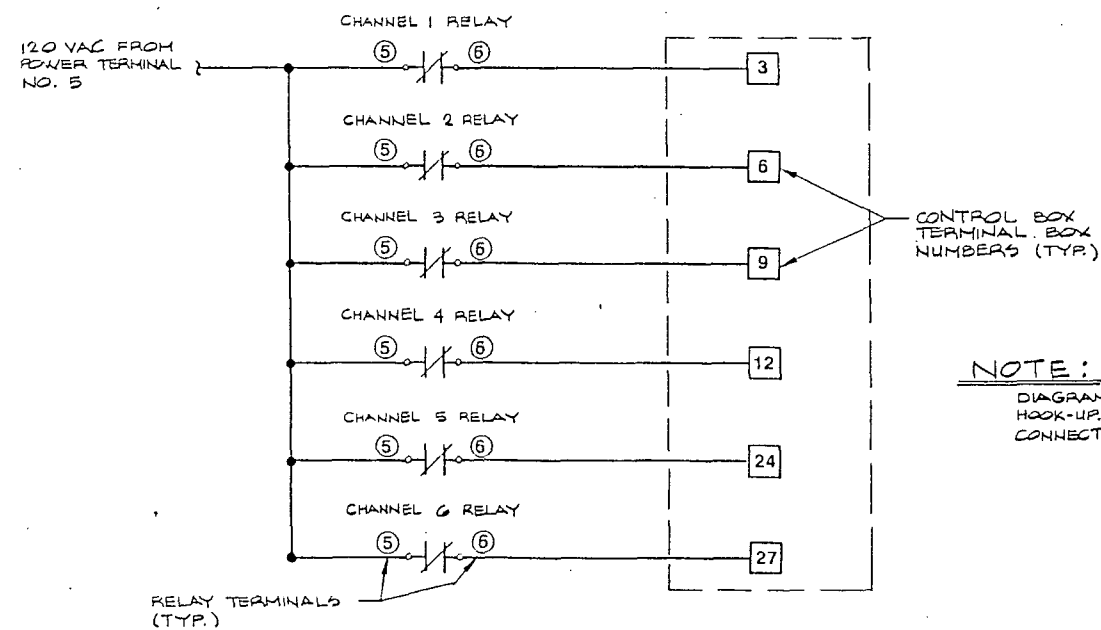
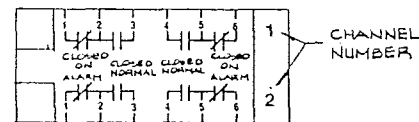
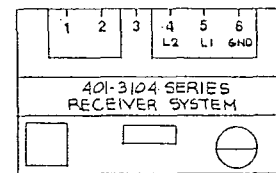
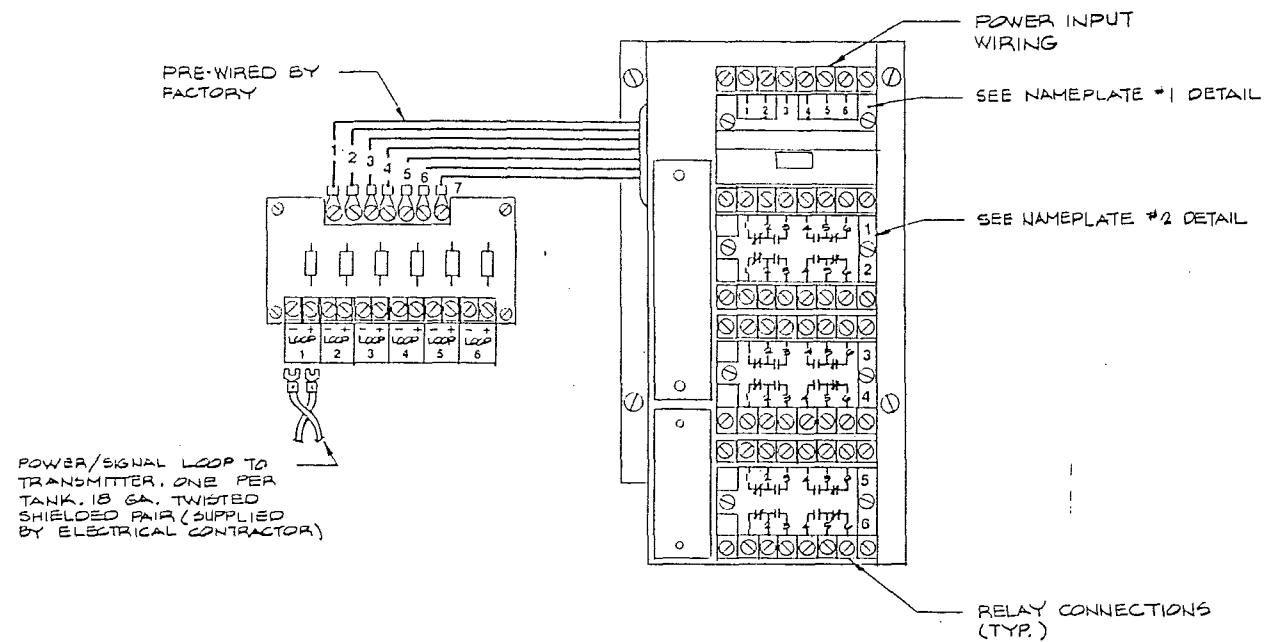
DETAIL A

CALIBRATION OF ELECTRONICS

1. Verify that the liquid is not covering the probe. This can be done by checking the reading on the tank's top gauge. If the tank is less than full, the probe will not be immersed in liquid.
2. The calibration should be performed with all electrical connections of the system already completed. Any change in these connections invalidates the calibration. Also, make sure that the wires are neatly dressed. This means that the slack in the wires should be pushed down in the conduit (without straining the wires). This protects the wires from damage when the cap of the conduit is screwed on. Also, if the wires are lying too high in the conduit, stray capacitance from the metal cap can alter the operating point of the electronics unit.
3. Using the plastic tuning wrench supplied with the electronics unit, turn the tuning capacitor to the fully counterclockwise position. Then slowly turn the tuning wrench clockwise until the green light illuminates. This is the operating point of the sensor.
4. Identify exactly the position of the operating point and then turn the tuning wrench clockwise exactly one-half additional turn (180 degrees). The green light should remain illuminated. Remove the tuning wrench. Carefully screw the cap on the conduit.

FIGURE 6B

ADDED WIRING DETAILS AND NOTES		DATE
ADD CABLE TERMINATIONS	ADD TEST POINTS	THE DWG.
ON VERT. & HOR. TANK INSTALLATION	ADD EXPLOSION PROOF SEAL OFF NOTE	DATE
CHANGE PROBE DETN. NOTE 15		DATE
SAFETY-KLEEN CORP.		
11150 TOWER ROAD • ELKON, ALABAMA 36021		
PHONE 1-800-368-7111		
HIGH LEVEL ALARM REMOTE TRANSMITTER TO TANK INSTALLATION DETAILS		DATE
NONE		DATE
6-21-85	ADD CABLE TERMINATIONS	DATE
6-21-85	ADD TEST POINTS	DATE
6-21-85	ADD EXPLOSION PROOF SEAL OFF	DATE
FOR SERVICE CENTER BRANCH		DATE



NOTE:
 DIAGRAM SHOWS G TANK
 HOOK-UP. ONLY MAKE
 CONNECTIONS FOR EXISTING TANKS.

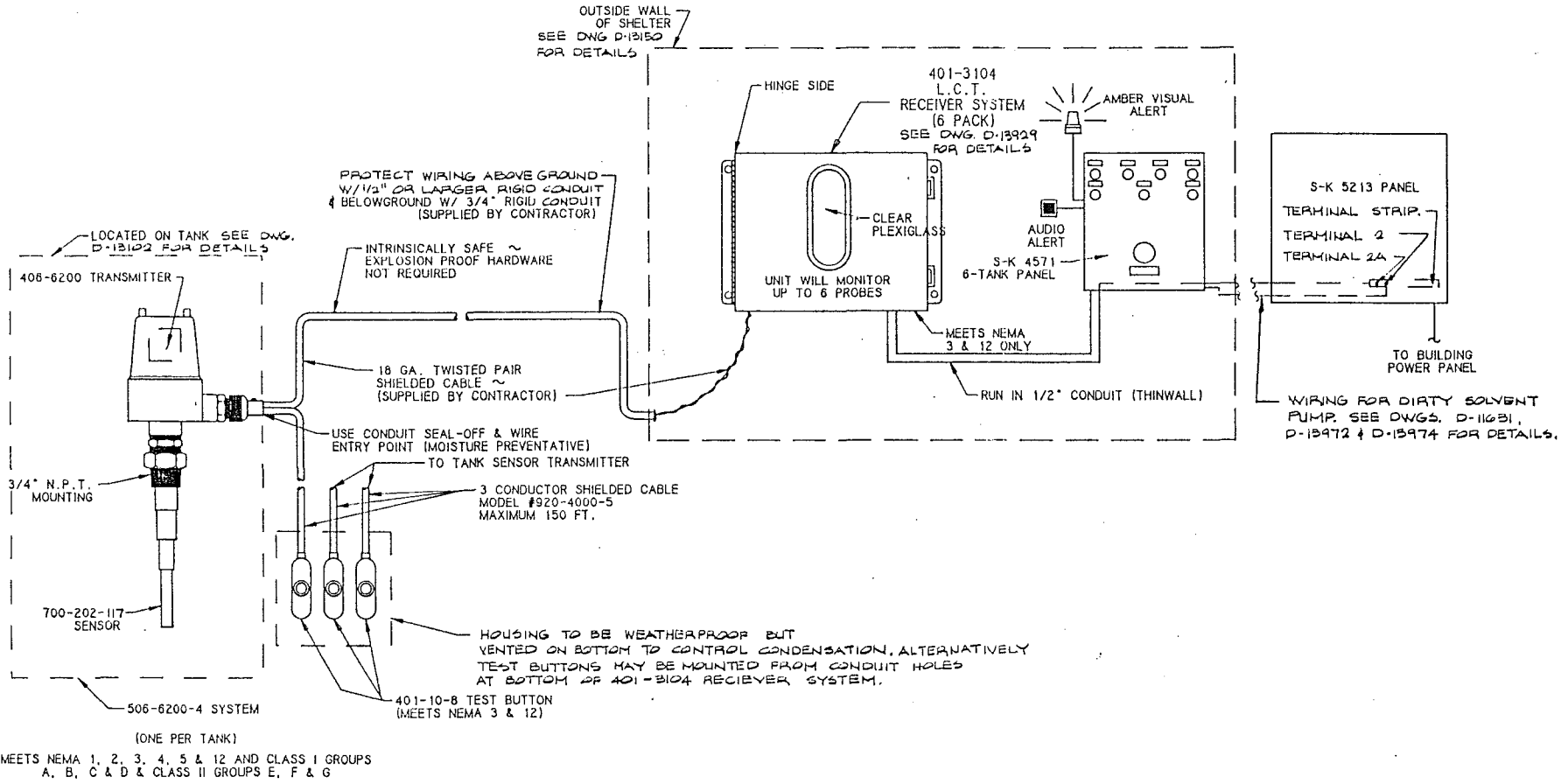
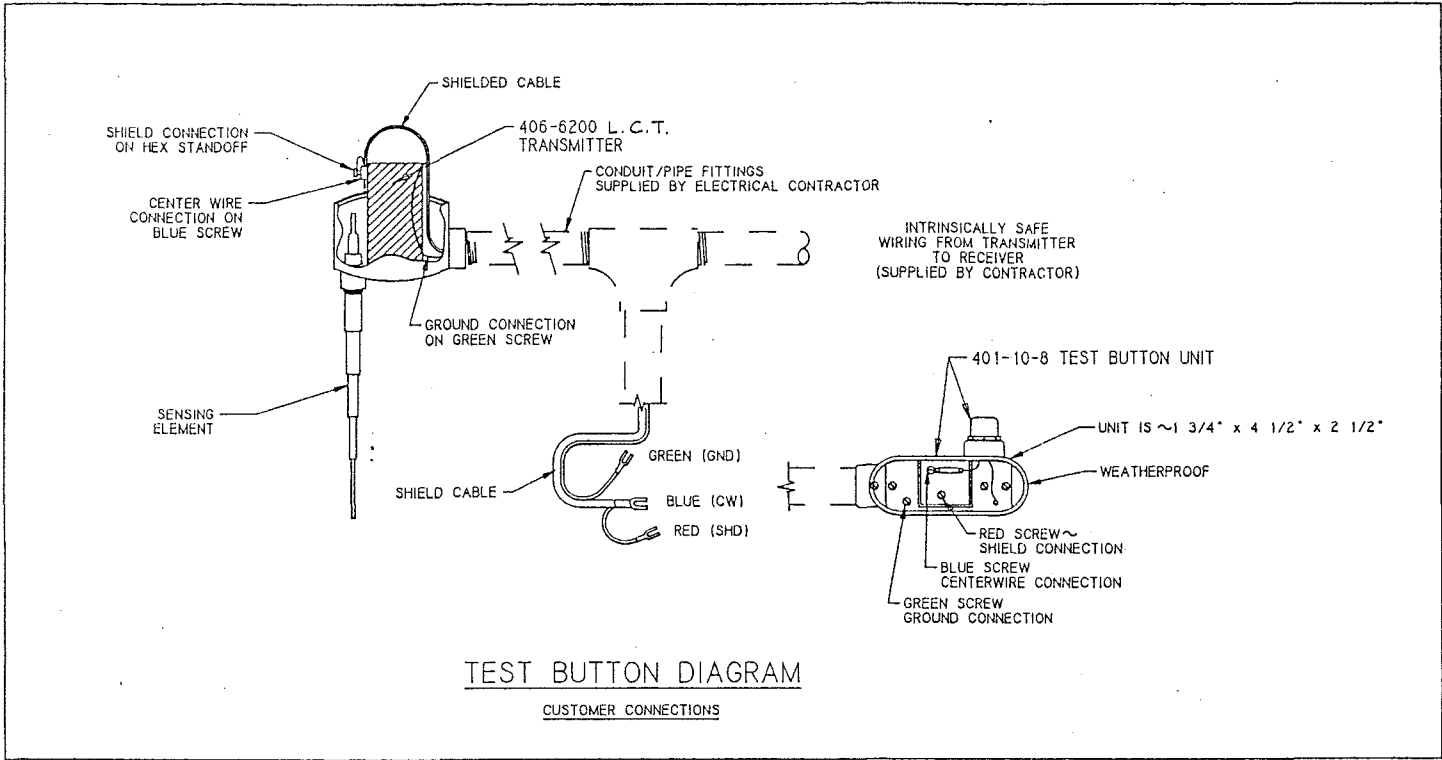
WIRING TO ALARM CONTROL BOX

EXISTING TANK PROBE LENGTH		
TANK DIAMETER	DISTANCE FROM TOP OF TANK TO 95% VOL. LEVEL	MINIMUM LENGTH OF PROBE INSIDE TANK
8' - 96"	9'	12"
10' - 120"	11'	14"
12' - 144"	14'	17"

FIGURE 6C

TITLE									
L.C.T. HIGH LEVEL ALARM RECIEVER SYSTEM DETAILS									
SAFETY-KLEEN CORP. 777 BIG TIMBER ROAD • ELGIN, ILLINOIS 60120 PHONE 708/987-8400									
NO	DESCRIPTION	BY	CHK	APPR	DATE	SCALE	DRAWN	CHECKED	ENGINEERING APPR
						NONE	ALS		
REVISIONS						DRAWING NO.		REV.	
						D-13929		1-10-89	

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



WIRING DIAGRAM OVERVIEW
NO SCALE

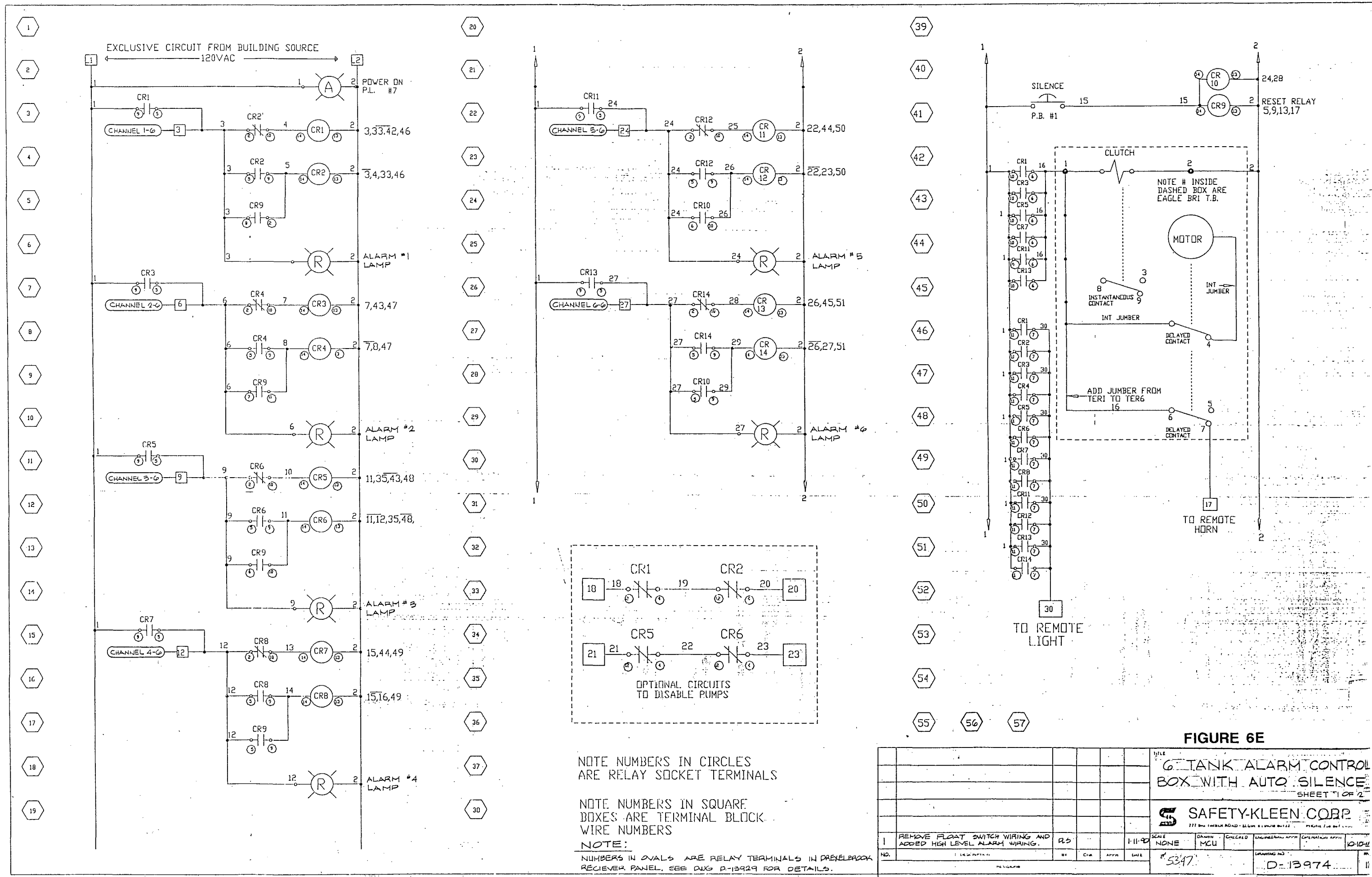
GENERAL NOTES:

1. DRAWING IS INTENDED TO SHOW A TYPICAL INSTALLATION ONLY. SEE ACTUAL SITE PLAN.
2. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ACTUAL FIELD CONDITIONS.
3. ALL ITEMS SHOWN WITH A SAFETY-KLEEN PART NO. THESE ITEMS WILL BE SUPPLIED BY S-K.
4. IF ANY FIELD MODIFICATIONS ARE REQUIRED, SAFETY-KLEEN BRANCH CONSTRUCTION GROUP IS TO BE NOTIFIED BEFORE PROCEEDING.
5. E.C. TO SUPPLY & INSTALL ALL RIGID CONDUIT, EMT & ANY NECESSARY LABOR & MATERIALS TO COMPLETE PROJECT.

FIGURE 6D

REVISIONS				
NO.	DESCRIPTION	BY	CHKD	DATE
E	ADDED VARIOUS NOTATIONS	DS		1-10-
D	REV'D. & REDRAWN ON COMP'TR.	NWD		8/18/
C	ADDED TEST BUTTON UNIT	MA		7/31/
B	ADDED SEALOFF FITTING	RD		10/17/
A	REVISED & REDRAWN	RD		5/31/

TITLE		L.C.T. HIGH LEVEL ALARM ELECTRICAL DIAGRAM	
SAFETY-KLEEN CORP.		777 BIG TIMBER ROAD, ELGIN, ILLINOIS 60120 PHONE 312/897-8480	
PROJ. ENG. APPR.	OPERATIONS APPR.	SCALE	DRAWN
		NONE	RD
BRANCH	DRAWING NO.		REV.
	D13120		E



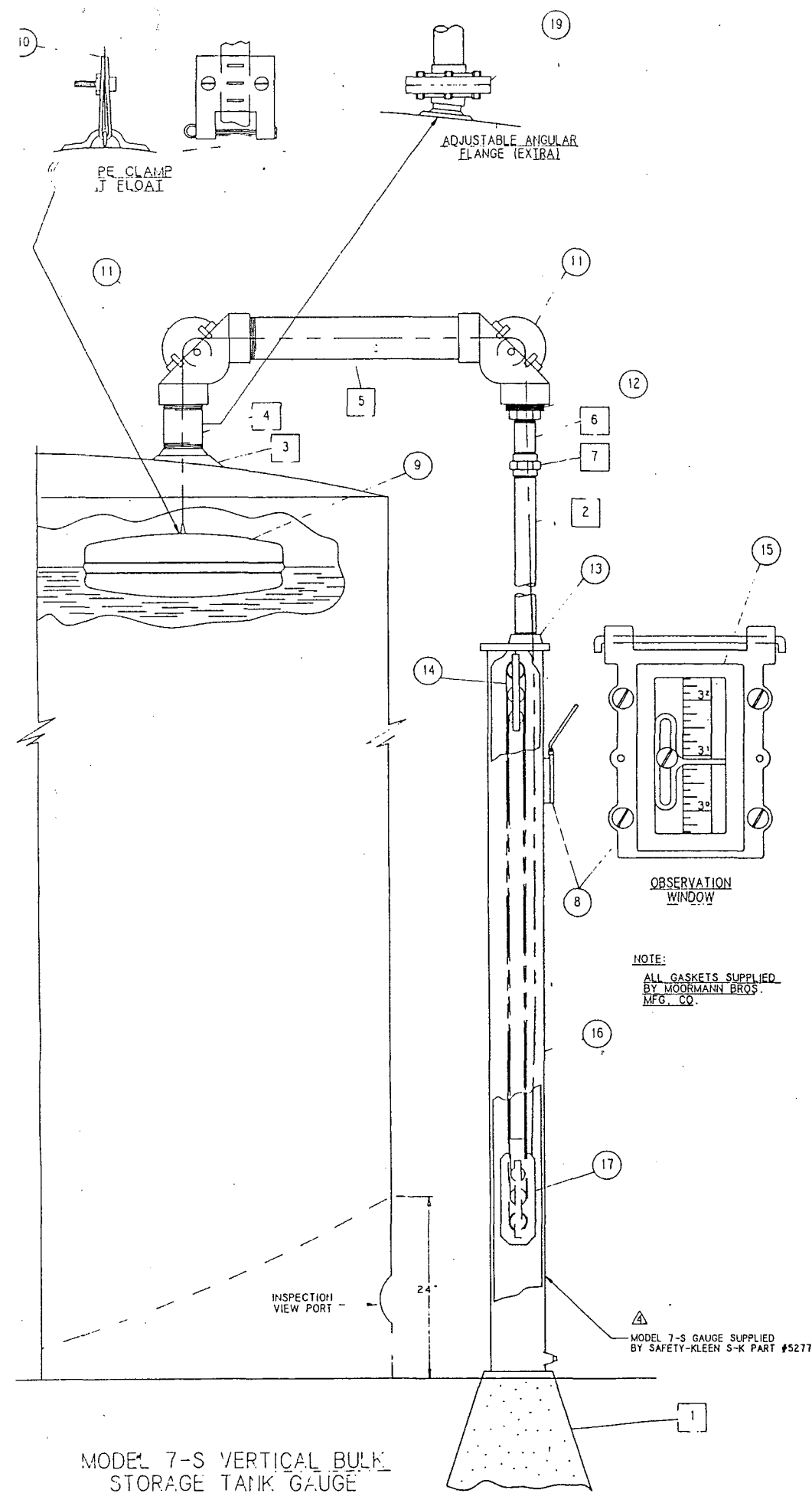
NOTE NUMBERS IN CIRCLES ARE RELAY SOCKET TERMINALS

NOTE NUMBERS IN SQUARE BOXES ARE TERMINAL BLOCK WIRE NUMBERS

NOTE: NUMBERS IN OVALS ARE RELAY TERMINALS IN DREXELBROOK RECEIVER PANEL. SEE DUG P-13929 FOR DETAILS.

FIGURE 6E

TITLE					
6-TANK ALARM CONTROL BOX WITH AUTO SILENCE					
SHEET 1 OF 2					
SAFETY-KLEEN CORP.					
277 BAY TOWER ROAD • ELUM, ALABAMA 36022					
SCALE NONE					
DRAWN BY RS					
CHECKED BY					
DATE 1-11-90					
NO. 5347					
D-13974					



MODEL 7-S VERTICAL BULK STORAGE TANK GAUGE

INSTALLATION INSTRUCTIONS - MODEL 7-S

1. LOCATE GAUGE POSITION ON GROUND - MARK TOP EDGE OF TANK DIRECTLY ABOVE GROUND LOCATION.
2. MEASURE, CUT AND THREAD 2" PIPE (AS MARKED ON PRINT).
3. USE PIPE DOPE ON ALL CONNECTIONS.
4. ASSEMBLE BOTH A-30 ELBOWS AND 2" PIPE AS SHOWN ON PRINT.
5. SCREW (1) ELBOW A-30 ONTO 2" PIPE WITH REDUCING BUSHING, CLOSE NIPPLE AND UNION AS SHOWN ON PRINT; OTHER A-30 ELBOW ONTO 2" NIPPLE IN TANK THEN SCREW OTHER END OF 2" PIPE INTO TANK ELBOW, MAKE STRAIGHT WITH TANK MARKING.
6. LEVEL 2" PIPE, USE TEMPORARY WOOD BRACE OR ALIGNMENT FLANGE, IF NECESSARY.
7. SET GAUGE HOUSING WITH ECCENTRIC CAP ASSEMBLED ON GROUND DIRECTLY BELOW OVERHANGING ELBOW.
8. MEASURE FOR 1" PIPE (REDUCING BUSHING IN ELBOW TO ECCENTRIC CAP V-71 ON GAUGE HOUSING) ALLOW FOR THREADS, CUT AND THREAD 1" PIPE.
9. SCREW 1" PIPE INTO ELBOW, THEN REMOVE V-71 ECCENTRIC CAP FROM HOUSING AND PUT ON 1" PIPE. CAUTION - BE SURE ECCENTRIC CAP IS STRAIGHT AND 1" OUTLET IS FARTHEST AWAY FROM TANK.
10. FASTEN PULLEY RACK WITH LARGE PULLEY UP TO ECCENTRIC CAP USING STAINLESS STEEL PINS.
11. ASSEMBLE OTHER PULLEY RACK IN COUNTERWEIGHTS WITH LARGE PULLEY DOWN.
12. PLACE COUNTERWEIGHT ON GROUND DIRECTLY BENEATH ECCENTRIC CAP PULLEY RACK.
13. REMOVE A-33 CAPS FROM BOTH ELBOWS.
14. THREAD TAPE FROM TANK ELBOW WITH NUMBERS UP AND CLIP ENDS FIRST THROUGH 2" PIPE AND OVER ELBOW PULLEYS DOWN THROUGH 1" PIPE AND OUT ECCENTRIC CAP, STRAIGHT DOWN AND AROUND BOTTOM PULLEY IN C/W AND UP AND OVER TOP PULLEY IN ECCENTRIC CAP, DOWN TO MEDIUM PULLEY UP AND OVER MEDIUM PULLEY, DOWN AND AROUND SMALL PULLEY ON C/W AND UP AND AROUND SMALL PULLEY ON ECCENTRIC CAP, DOWN AND FASTEN TO LUG ON COUNTERWEIGHT PULLEY RACK - USE STAINLESS STEEL PIN. CAUTION - DO NOT THREAD TAPE OVER OR UNDER CROSS BARS IN PULLEY RACK. USE CAUTION - DO NOT KINK OR BEND TAPE.
15. FASTEN TAPE TO FLOAT WITH TAPE CLAMP (AS PER PRINT) CAUTION - DO NOT FASTEN TAPE CLAMP TOO TIGHT AS THIS MAY DAMAGE TAPE.
16. PLACE ECCENTRIC CAP GASKET ON HOUSING TOP AND INSERT COUNTERWEIGHT ASSEMBLY INTO HOUSING. CAUTION - DO NOT ALLOW C/W TO DROP OR JERK AS THIS MAY CAUSE DAMAGE TO BEARINGS, ALSO BE SURE THE TAPE IS IN GROOVE OF PULLEYS AND NOT ON THE EDGE.
17. FASTEN HOUSING TO ECCENTRIC CAP WITH OBSERVATION WINDOW DIRECTLY BELOW 1" PIPE.
18. PLACE OUTSIDE STRAND OF TAPE OVER TAPE GUIDE IN OBSERVATION WINDOW. CAUTION - DO NOT BEND OR KINK TAPE, AND PUT ONLY ONE(1) STRAND OF TAPE OVER THE TAPE GUIDE.
19. FIX BASE FOR HOUSING EITHER, CONCRETE, WOOD POST, OR STEEL PLATE WELDED TO TANK, - CAUTION - DO NOT WELD GAUGE HOUSING TO TANK.
20. PERFORM CALIBRATION AS DESCRIBED IN "CALIBRATION DETAILS - EMPTY TANK" (THIS DRAWING). IN PERFORMING THIS CALIBRATION, 1/2", 1/4" OR EVEN 1/8" IS NOT CLOSE ENOUGH. BE PARTICULAR; SET THE GAUGE AS CLOSE AS POSSIBLE TO THE CORRECT READING (1 3/8" FOR EMPTY TANK, TRUE FLUID LEVEL FOR NON EMPTY TANK).
21. CAUTION - LET FLOAT DOWN IN TANK EASILY. DO NOT LET IT DROP.
22. ASSEMBLE OBSERVATION FRAME AND LID A-34 & 38 PLACE ON HOUSING, TIGHTEN FOR VAPOR-PROOFING.
23. IN MOST CLIMATES, CONDENSATION FORMS INSIDE TANK AND GAUGE. A DRAIN PLUG HAS BEEN PROVIDED FOR DRAINING AT THE BOTTOM OF HOUSING. IN MOST CLIMATES THIS IS NECESSARY 2 TIMES A YEAR (SPRING & FALL). HOWEVER, IN EXTREME CASES DRAINING IS REQUIRED MORE OFTEN.

CALIBRATION DETAILS - EMPTY TANK

1. BEFORE CALIBRATION, COMPLETE INSTALLATION THROUGH STEP 19 OF INSTALLATION INSTRUCTIONS (THIS DRAWING).
2. IN ALL SUCCEEDING STEPS, BE CAREFUL NOT TO TWIST OR KINK THE TAPE.
3. THROUGH OPEN MANWAY AT THE TOP OF THE TANK, LOWER FLOAT SLOWLY AND LET IT COME TO REST GENTLY AT THE BOTTOM OF THE TANK, DIRECTLY BENEATH THE TANK ROOF FLANGE, BECAUSE THE TANK BOTTOM IS CONCAVE, THE FLOAT MAY TEND TO SIDESLIP TO THE CENTER OF THE TANK BOTTOM, THUS INTRODUCING ERROR INTO THE CALCULATION. GENTLY LOWERING THE FLOAT MINIMIZES THIS SLIPPAGE AND THE RESULTING ERROR.
4. DETERMINE THE REQUIRED TAPE ADJUSTMENT AS FOLLOWS: WITH THE FLOAT AT THE TANK BOTTOM DIRECTLY BENEATH THE ROOF FLANGE, RECORD THE TAPE READING AT THE OBSERVATION WINDOW. AN EMPTY TANK SHOULD READ 1 3/8" (THE FLOAT DRAFT). THE REQUIRED TAPE ADJUSTMENT CAN BE COMPUTED AS THE ACTUAL READING MINUS 1 3/8".
5. MARK THE TAPE AT THE POSITION AT WHICH IT IS FASTENED TO THE FLOAT. UNCLAMP THE TAPE FROM THE FLOAT, MEASURE OFF THE REQUIRED ADJUSTMENT USING A TAPE MEASURE AND MARK THE NEW POSITION. CUT THE TAPE TO SIZE, LEAVING ABOUT 2" EXCESS SLACK. THIS SLACK IS NECESSARY BECAUSE CUTTING OFF TOO MUCH TAPE WILL RENDER THE TAPE UNUSABLE. REFASTEN THE TAPE TO THE FLOAT AT THE NEWLY MARKED POSITION. DO NOT FASTEN THE TAPE CLAMP TOO TIGHTLY, AS THIS MAY DAMAGE THE TAPE.
6. REPEAT STEPS 3 & 4 TO CHECK THE CALIBRATION. IF THE ERROR IS LESS THAN 1", THE REMAINING ADJUSTMENT MAY BE MADE USING THE FINGER IN THE OBSERVATION WINDOW. FOR MAJOR ADJUSTMENTS (OVER 1"), REPEAT STEP 5.
7. WHEN CALIBRATION IS COMPLETE, CUT THE EXCESS TAPE AT FLOAT, LEAVING 6" FOR MINOR ADJUSTMENTS. LOWER THE FLOAT GENTLY TO THE TANK BOTTOM.

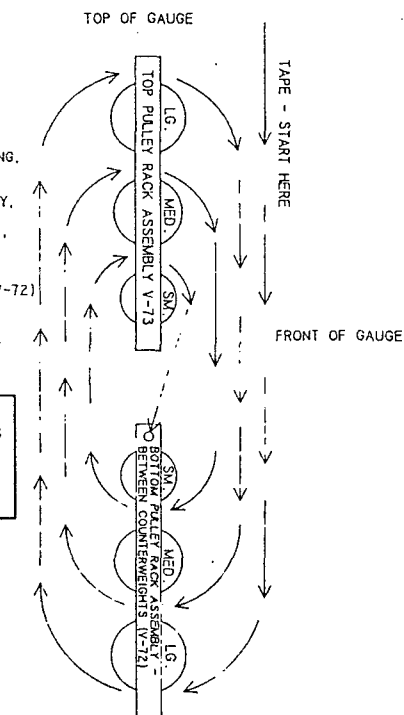
CALIBRATION DETAILS - NON-EMPTY TANK

1. DETERMINE THE REQUIRED TAPE ADJUSTMENT AS FOLLOWS:
 - A) USE A MEASURING STICK OR WEIGHTED LINE TO MEASURE THE TRUE FLUID LEVEL IN THE TANK. BECAUSE THE CONCAVE BOTTOM OF THE TANK RESULTS IN VARYING DEPTHS, THIS MEASUREMENT SHOULD BE PERFORMED AS CLOSE AS POSSIBLE TO THE ACTUAL POSITION OF THE FLOAT IN THE TANK.
 - B) RECORD THE TAPE READING AT THE OBSERVATION WINDOW.
 - C) THE REQUIRED TAPE ADJUSTMENT CAN BE COMPUTED AS THE TAPE READING MINUS THE TRUE FLUID LEVEL.
2. TO GAIN ACCESS TO THE FLOAT AND TAPE IN THE TANK, OPEN THE MANWAY AT THE TOP OF THE TANK. ALSO REMOVE THE A-33 CAP FROM A-30 ELBOW ASSEMBLY. IN ALL SUCCEEDING STEPS, BE CAREFUL NOT TO TWIST OR KINK THE TAPE.
3. GRASPING THE TAPE THROUGH THE OPEN MANWAY, CAREFULLY RAISE THE FLOAT OUT OF THE TANK. MARK THE TAPE AT THE POSITION AT WHICH IT IS FASTENED TO THE FLOAT. UNCLAMP THE TAPE FROM THE FLOAT, MEASURE OFF THE REQUIRED ADJUSTMENT USING A TAPE MEASURE AND MARK THE NEW POSITION. CUT THE TAPE TO SIZE, LEAVING ABOUT 2" EXCESS SLACK. THIS SLACK IS NECESSARY BECAUSE CUTTING OFF TOO MUCH TAPE WILL RENDER THE TAPE UNUSABLE. REFASTEN THE TAPE TO THE FLOAT AT THE NEWLY MARKED POSITION. DO NOT FASTEN THE TAPE CLAMP TOO TIGHTLY, AS THIS MAY DAMAGE THE TAPE. CAREFULLY LOWER THE FLOAT INTO THE TANK.
4. REPEAT STEP 1 TO CHECK THE CALIBRATION. IF THE ERROR IS LESS THAN 1" THE REMAINING ADJUSTMENT MAY BE MADE USING THE FINGER IN THE OBSERVATION WINDOW. FOR MAJOR ADJUSTMENTS (OVER 1"), REPEAT STEP 3.
5. WHEN CALIBRATION IS COMPLETE, CUT THE EXCESS TAPE AT THE FLOAT, LEAVING 6" FOR MINOR ADJUSTMENTS. LOWER THE FLOAT GENTLY INTO THE TANK. REPLACE THE A-33 CAP ON THE A-30 ELBOW ASSEMBLY. CLOSE THE MANWAY.

START TAPE, CLIP END FIRST, WITH NUMBERS ON TAPE FACING TOWARD FRONT OF GAUGE HOUSING, AROUND LARGE BOTTOM PULLEY, UP TO LARGE TOP PULLEY, DOWN TO MEDIUM BOTTOM PULLEY, UP TO MEDIUM TOP PULLEY, DOWN TO SMALL BOTTOM PULLEY, UP TO SMALL TOP PULLEY, AND THEN SECURE CLIP END OF TAPE WITH A COTTER PIN TO THE TOP OF THE BOTTOM PULLEY RACK (V-72) ASSEMBLY.

SEE NOTE 14 ABOVE.

NOTE: FOR GENERAL INFORMATION, THERE IS 5'-8" OF STARTER TAPE 43'-0" NUMBERED TAPE 42'-2" LEADER TAPE 91'-0" APPROX. OVERALL



ENLARGED DETAIL SHOWING HOW TAPE IS WOUND ON PULLEY RACK ASSEMBLIES OF MOORMANN MODEL #7-S. CUT OFF EXCESS TAPE AT FLOAT.

MATERIAL LIST

MODEL 7-S

FOR ALL VERTICAL TANKS UP TO & INCLUDING 35'

☐ MATERIAL SUPPLIED BY CONTRACTOR

1. GAUGE HOUSING BASE SUPPORT.
2. 1" GALVANIZED PIPE (CUT TO LENGTH).
3. TANK ROOF FLANGE.
4. 2" TANK OPENING PIPE.
5. 2" GALVANIZED PIPE (CUT TO LENGTH).
6. 1" GALVANIZED NIPPLE (ANY LENGTH).
7. 1" GALVANIZED UNION.

☐ MATERIAL SUPPLIED BY MOORMANN BROS. (SAFETY-KLEEN)

PART NAME	PART NO.	QUANTITY PER UNIT
8. OBSERVATION WINDOW ASSEMBLY	A-34-A-38	1
9. FLOAT	V-75	1
10. STAINLESS STEEL TAPE CLAMP & SCREWS	V-93	1
11. ELBOW ASSEMBLY COMPLETE	A-30, A-33	2
12. 2" TO 1" REDUCING BUSHING		1
13. ECCENTRIC CAP COMPLETE WITH NUTS & BOLTS	V-71	1
14. PULLEY RACK ASSEMBLY	V-73	2
15. LUFKIN STAINLESS STEEL HIGH VISIBILITY TAPE	V-49	1
16. RUST-PROOFED STEEL GAUGE HOUSING	V-77	1
17. COUNTERWEIGHT	V-72	2
18. CONDENSATION DRAIN PLUG		1
FRAME & LID ASSEMBLY FOR OBSERVATION WINDOW	A-34, A-38	1
GASKETS - SET FOR OBSERVATION WINDOW	V-81, V-82	1
GASKET - ELBOW CAP	V-83	2
GASKET - V-71 ECCENTRIC CAP	V-84	1
GLASS - WINDOW	V-86	1
STAINLESS STEEL INDICATOR FINGER FOR OBSERVATION WINDOW	V-94	1
WIRE PIN - STAINLESS STEEL	V-96	5

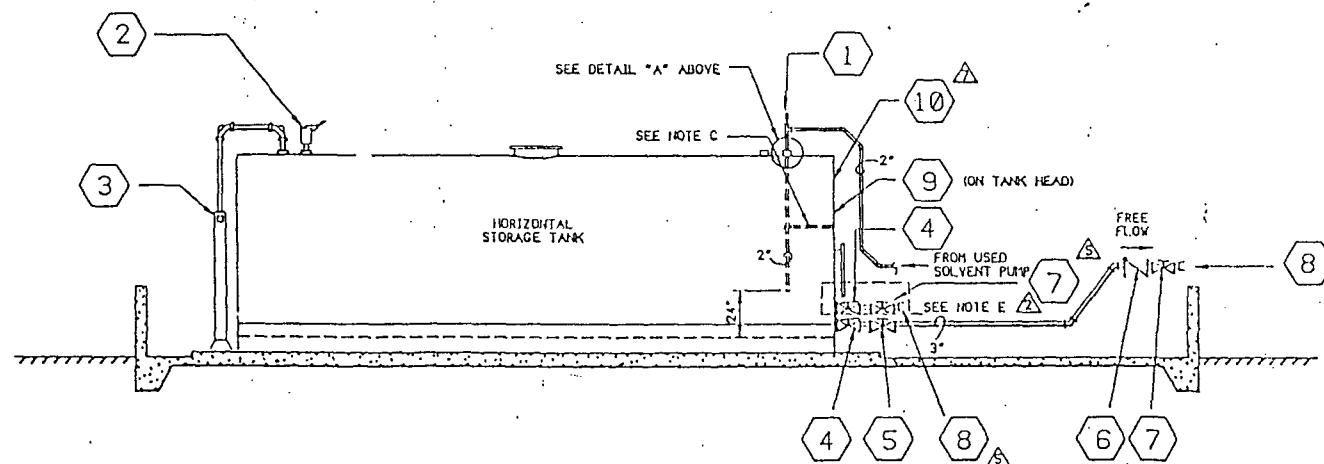
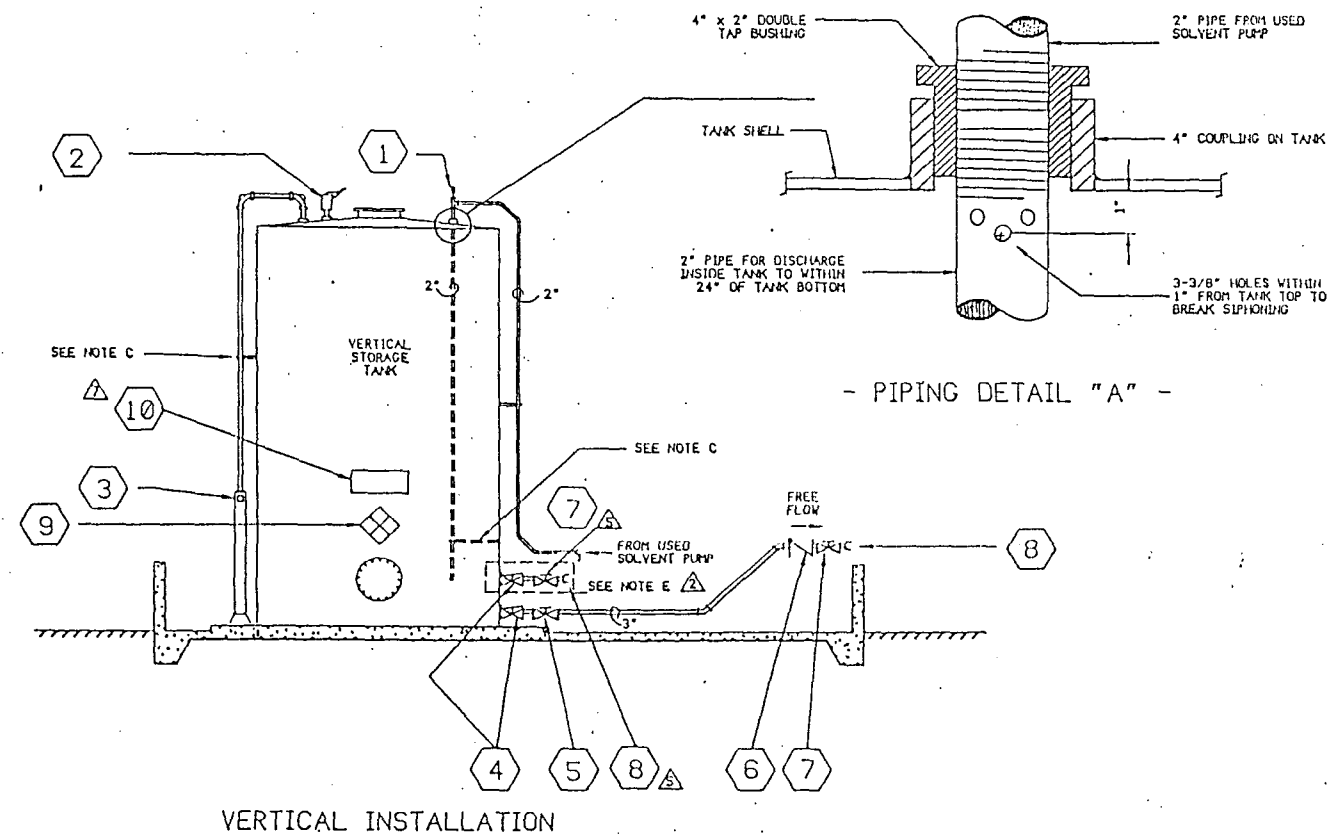
GENERAL NOTES

1. TANK GAUGE ASSEMBLY SUPPLIED BY SAFETY-KLEEN CORP.
2. SEE INDIVIDUAL SERVICE CENTER SITE PLANS FOR LOCATION OF THE INSTALLATION.
3. GAUGE MUST BE ORDERED WITH THE PERFORATED TAPE FOR FUTURE REMOTE READ-OUT SYSTEM.
4. ALL EXPOSED NON-PROTECTED STEEL IS TO BE PAINTED PER SAFETY-KLEEN SPECIFICATIONS.
5. IF REQUIRED, ADDITIONAL VERBAL INSTALLATION INSTRUCTIONS CAN BE OBTAINED BY CALLING MOORMANN BROS. MFG. CO., RUSHVILLE, INDIANA - (317) 932-3590 - ASK FOR: BOB GAINES OR JIM RAVENCRAFT

FIGURE 7

REVISED BY: JCD	DATE: 7-5-90
DRG. # WAS A10243	RD
REV'D NOTES 10-23 AND ADDITIONAL CALIBRATION INFORMATION	RD
REV'D. HI-LEV. ALARM INFO.	RD
ADDED SAFETY-KLEEN PART #5	RD
ADDED ADDITIONAL HIGH LEVEL ALARM INFO.	RD
ADDED TAPE WINDING INFO.	WLJ
ADDED NOTE 5	WLJ
DESCRIPTION	BY: CHD APPR: DATE
REVISIONS	
TITLE: MOORMANN BROS. TANK GAUGE INSTALLATION (DISHED BOTTOM TANKS ONLY)	
SAFETY-KLEEN CORP.	
777 B10 TIMBER ROAD, ELGIN, ILLINOIS 60120 PHONE 312/697-6460	
PROV. ENO. APPR. OPERATIONS APPR.	SCALE: NONE
DATE: 10/7/83	DRAWN: WLJ
BRANCH: FOR SERVICE CENTER BRANCH	DRAWING NO.: STD-2015
REV. 08	

BJ4
JS 2/15/89



- HORIZONTAL INSTALLATION -

NOTE: WHEN HORIZONTAL TANKS ARE USED A 3\"/>

- EQUIPMENT/FIXTURE SCHEDULE -

MARK	SIZE	DESCRIPTION	SK PART NO.	REMARKS
1	3/8"	3/8" AUTOMATIC VACUUM BREAKERS MORRISON BROS. FIG. 134-A	5274	
2	3"	3" SCREWED PRESSURE/VACUUM VENT MORRISON BROS. FIG. 548 (2 OZ. PRESSURE - 1 OZ. VACUUM)	5339	
3		TANK GAUGE - MORRISON BROS. MODEL NO. 7-S	5277	SEE INSTALLATION DETAILS ON SAFETY- KLEEN DWG. A10243
4	3"	3" INTERNAL EMERGENCY VALVE MORRISON BROS. FIG. 272-110 W/212°F FUSIBLE LINK	5267	SEE INSTALLATION DETAILS ON SAFETY- KLEEN DWG. C11302
5	3"	3" DUCTILE IRON GATE VALVE W/ROUND FLANGED ENDS - MORRISON BROS. FIG. 234-D1	5276	SEE INSTALLATION DETAILS ON SAFETY- KLEEN DWG. C11302
6	3"	3" BRONZE CHECK VALVE - MORRISON BROS. FIG. 246-A	5266	
7	3"	3" BRONZE GATE VALVE - MORRISON BROS. FIG. 235-B LOCKING TYPE	5265	
8	3"	3" ALUMINUM CAPLOCK QUICK COUPLING - MORRISON BROS. MALE ADAPTOR PART F W/DUST CAP & CHAIN	5264	COUPLING TO BE INSTALLED SIX (6) INCHES ABOVE DIKE WALL
9		NFPA MATERIAL IDENTIFICATION PLACARD	2452	DISPLAY IN PLAIN SIGHT ABOVE DIKE WALL
10		"COMBUSTIBLE-KEEP FIRE AWAY" SIGN	81207	DISPLAY IN PLAIN SIGHT ABOVE DIKE WALL

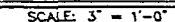
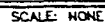
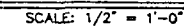
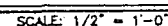
- GENERAL NOTES -

- (A) THIS DRAWING SUPERCEDES SAFETY-KLEEN CORP. DRAWINGS C10235 & C10236.
- (B) SEE INDIVIDUAL SERVICE CENTER SITE PLANS FOR DIKE DIMENSIONS AND RELATED INFORMATION AND ALSO LOCATION AND ARRANGEMENT OF THESE PIPING DETAILS.
- (C) ALL PIPING TO BE SCHEDULE 40 GALVANIZED AND BE SUPPORTED EVERY (8) RUSTING FEET - CONTRACTOR TO SUPPLY ALL BRACKETS, CLAMPS, ETC. AS REQUIRED FOR SUPPORTING PIPE - ALL EXPOSED THREADS AT JOINTS TO BE PAINTED WITH A RUST RESISTANT EXTERIOR GRADE PAINT. PIPING SUPPORT HARDWARE TO BE UNISTRUT BRAND OR APPROVED EQUIVALENT.
- (D) ALL DIRECTION CHANGES IN DIRTY SOLVENT LINES TO BE MADE USING A COMBINATION OF 45° ELBOWS OR LONG SWEEP 90° ELBOWS.
- (E) THIS INSTALLATION TO BE MADE WHERE NEW TANKS ARE TO BE INSTALLED AT ANY LOCATIONS PRONE TO FREEZING. SEE INSTALLATION DETAILS ON SAFETY-KLEEN DWG. C11302.
- (F) ALL ITEMS WITH SAFETY-KLEEN PART NO. REFERENCES WILL BE SUPPLIED TO CONTRACTOR.

Figure 8

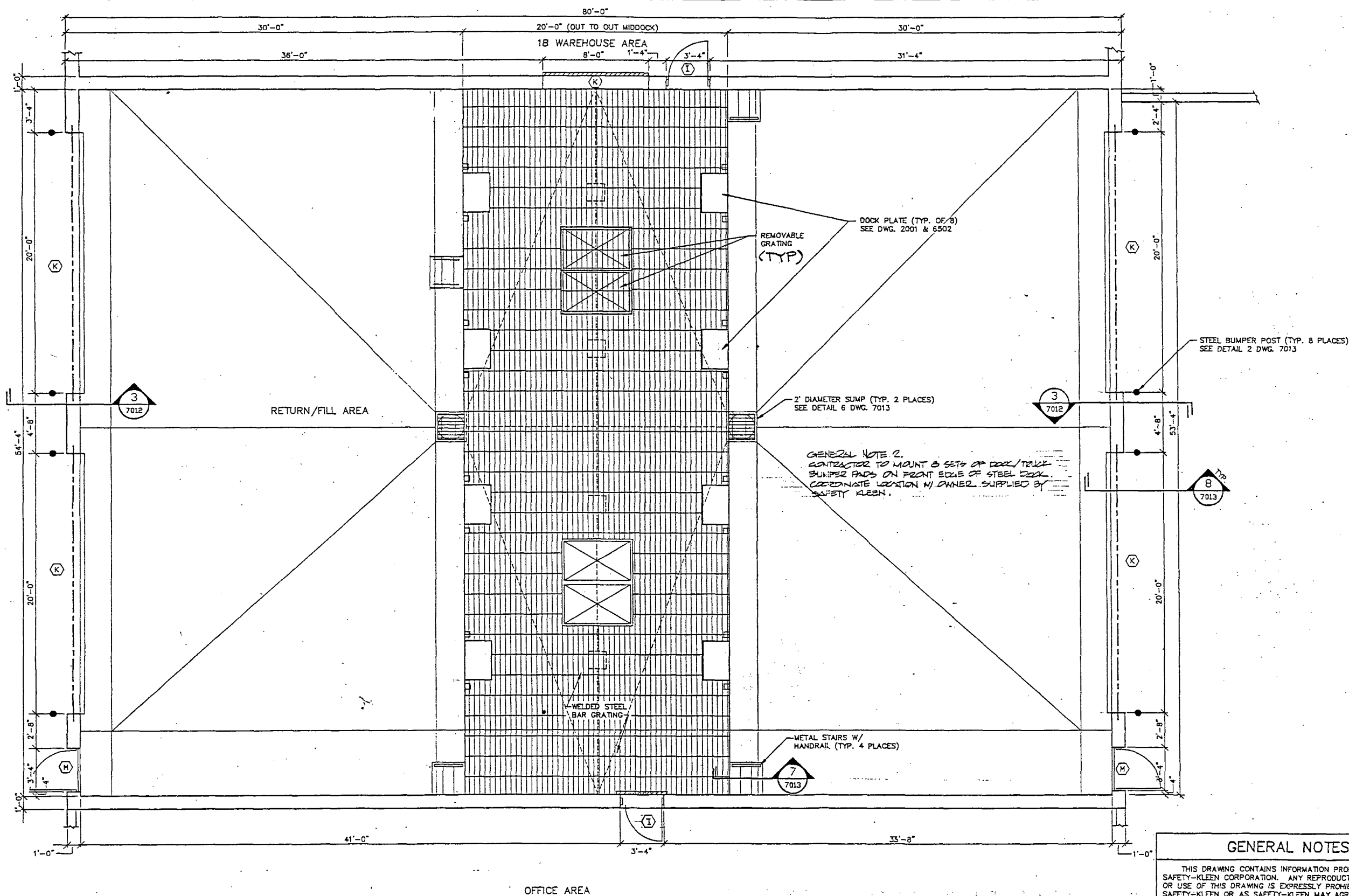
REVISION	DATE	DESCRIPTION	BY	CHKD	APPR	DATE
1	5/13/79	ISSUED PART NO. 5277 TO 5279	J.S.K.			
2	5/14/79	REMOVED 3" PLUG-NECK VALVE/CAPLOCK	V.L.J.			
3	1/27/79	REMOVED 3" PLUG-NECK VALVE/CAPLOCK	V.L.J.			
4	3/28/87	REMOVED 3" PLUG-NECK VALVE/CAPLOCK	V.L.J.			
5	11/5/81	REMOVED 3" PLUG-NECK VALVE/CAPLOCK	V.L.J.			
6	10/23/81	REMOVED 3" PLUG-NECK VALVE/CAPLOCK	V.L.J.			
7	12/5/83	REMOVED 3" PLUG-NECK VALVE/CAPLOCK	V.L.J.			

TITLE		USED SOLVENT STORAGE TANK INSTALLATION DETAILS	
SAFETY-KLEEN CORP.		777 850 TURNER ROAD, FLORIN, CALIF. 95620 PHONE (916) 431-1111	
PROCESS APPR.	OPERATIONS APPR.	SCALE	NTS
DESIGNED BY	DRAWN BY	CHECKED BY	DATE
J.S.K.	R.S.		11/22/07
FOR BRANCH SERVICE CENTER		DRAWING NO. D11124	



SCALE: 3" = 1'-0"

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RETURN/FILL AREA/FLOOR PLAN

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

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.



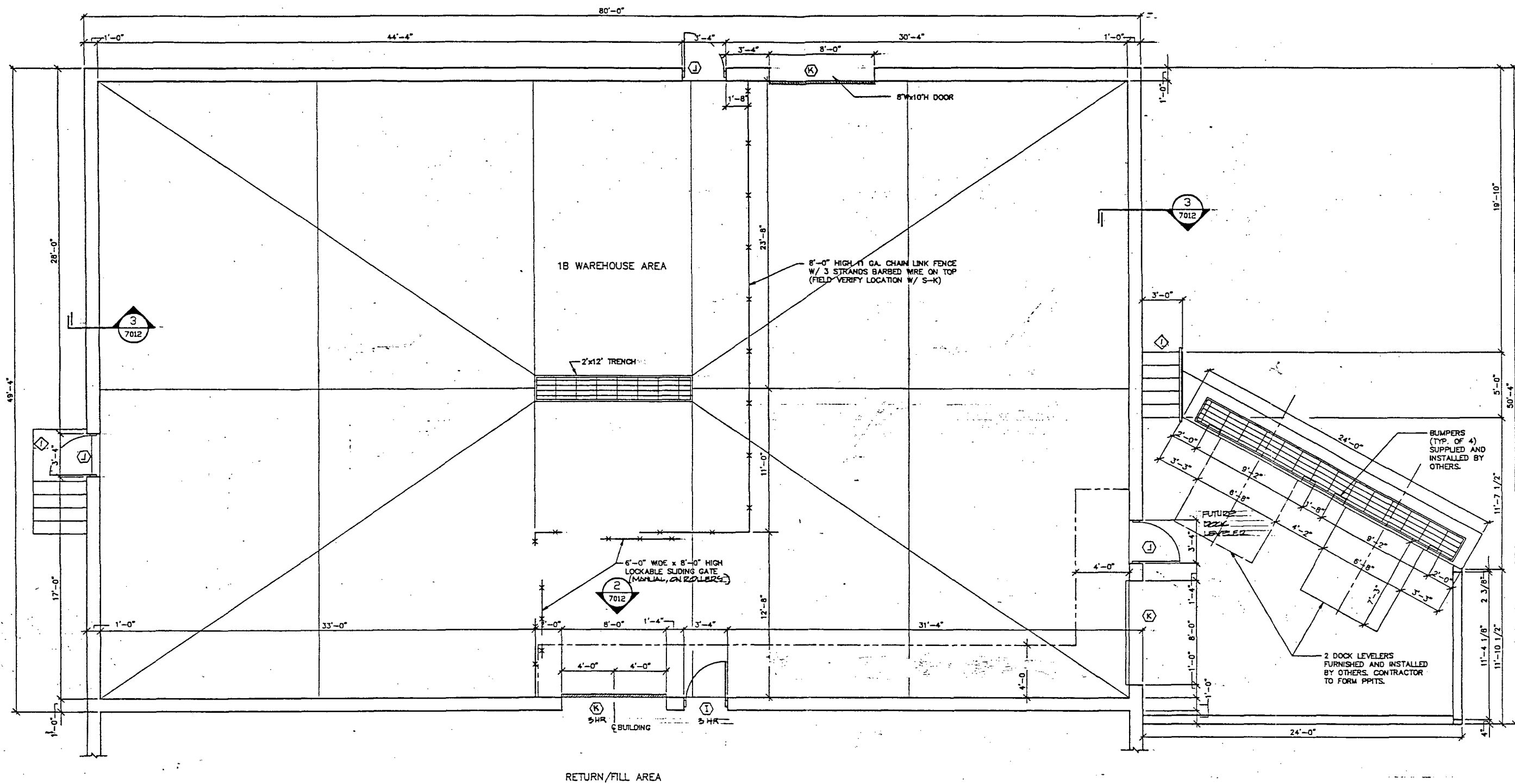
A-7

TITLE
RETURN/FILL AREA
FLOOR PLAN

SAFETY-KLEEN CORP.
777 BIG TOWER ROAD ELGIN, ILLINOIS 60123 PHONE 708-697-9460

SCALE 1/4" = 1'-0"	BY OverTec	CHKD	P.E. APPR	DP. APPR	DATE 9-27-91
SERVICE CENTER LOCATION MEDLEY, FL			SC-DWG-REV NO. 316301-7004-00		SHEET NO. 24

NO.	DESCRIPTION	BY	CHK	APPR	DATE



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.

QUESTEC
CONSULTING ENGINEERS
4812 Santee Circle • Columbia • MO 65203 • (314) 875-0280

A-8

1B WAREHOUSE AREA FLOOR PLAN

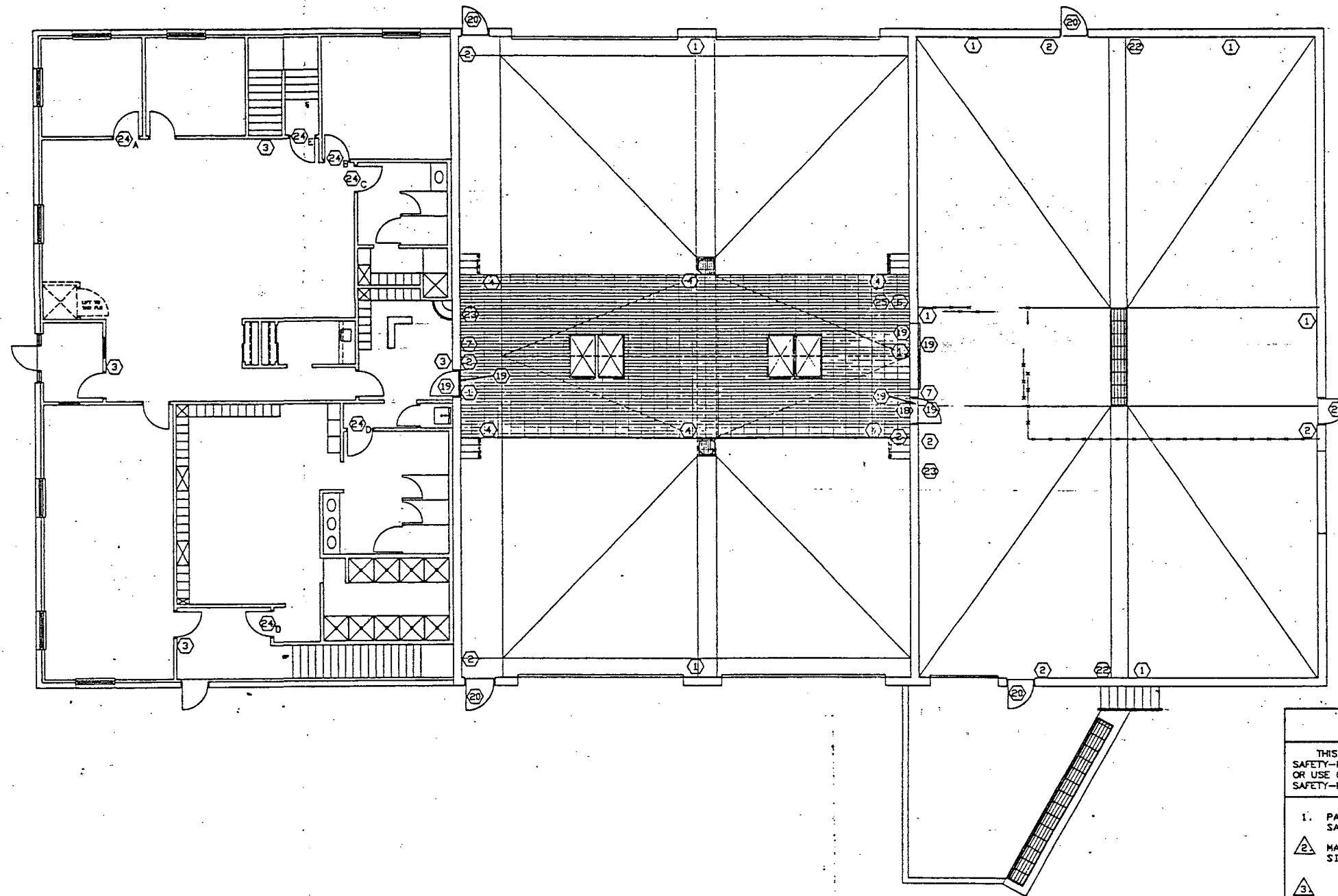
SCALE: 1/4" = 1'-0"

REVISIONS									
NO.	DESCRIPTION	BY	CHK	APPR	DATE	NO.	DESCRIPTION	BY	CHK
1	ADDED STUOP & REVISED STAIRS	CF	SD		10/21/91				

1B WAREHOUSE AREA FLOOR PLAN

SAFETY-KLEEN CORP.
777 BIG TOPPER ROAD • ELGIN, ILLINOIS 60120 • PHONE 708-497-8468

SCALE: 1/4" = 1'-0" BY: QUESTEC
SERVICE CENTER LOCATION: MEDLEY, FL
SC-DWG-REV NO.: 316301-7005-00
DATE: 9-30-91
SHEET NO.: 25



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
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
10	"WASTE-OIL 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 DVG. 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 DVG. 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.

2. MAKE MOUNTING BRACKET AS REQUIRED. MOUNT SIGN TO BE VISIBLE FROM DOCK.

- 3. WASTE SOLVENT
- 4. WASTE OIL
- 5. 105" SOLVENT
- 6. WASTE ETHYLENE GLYCOL

7. CONTRACTOR TO VERIFY ALL QUANTITIES REQUIRED.



A-11

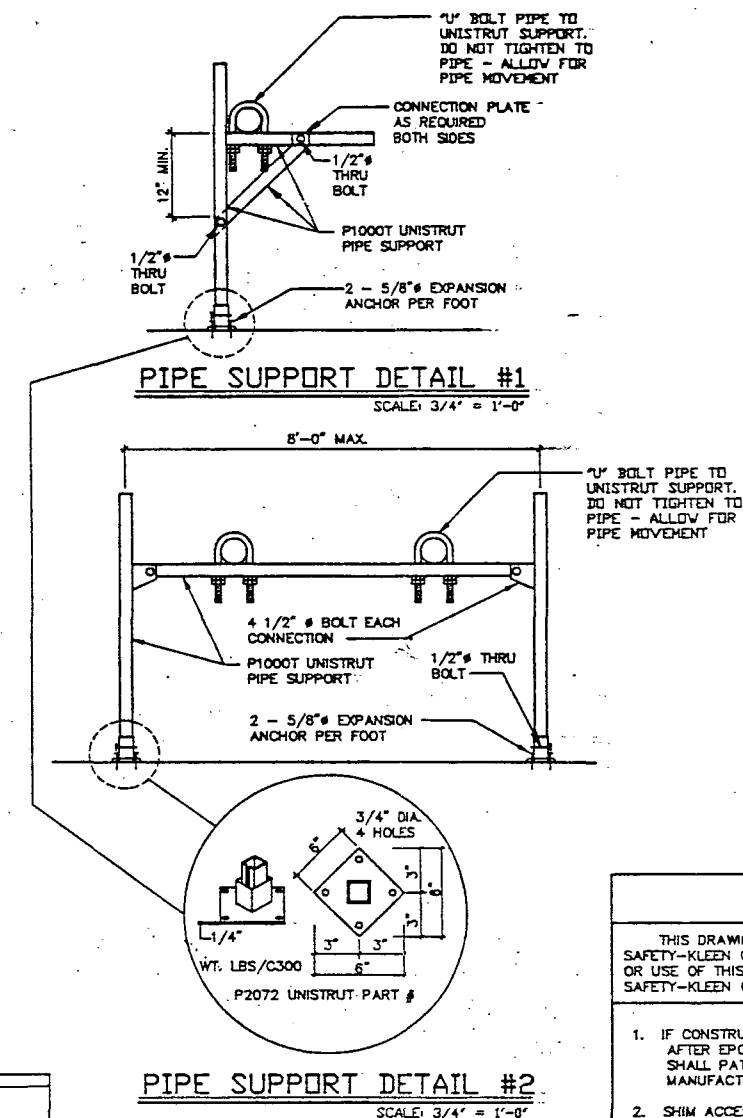
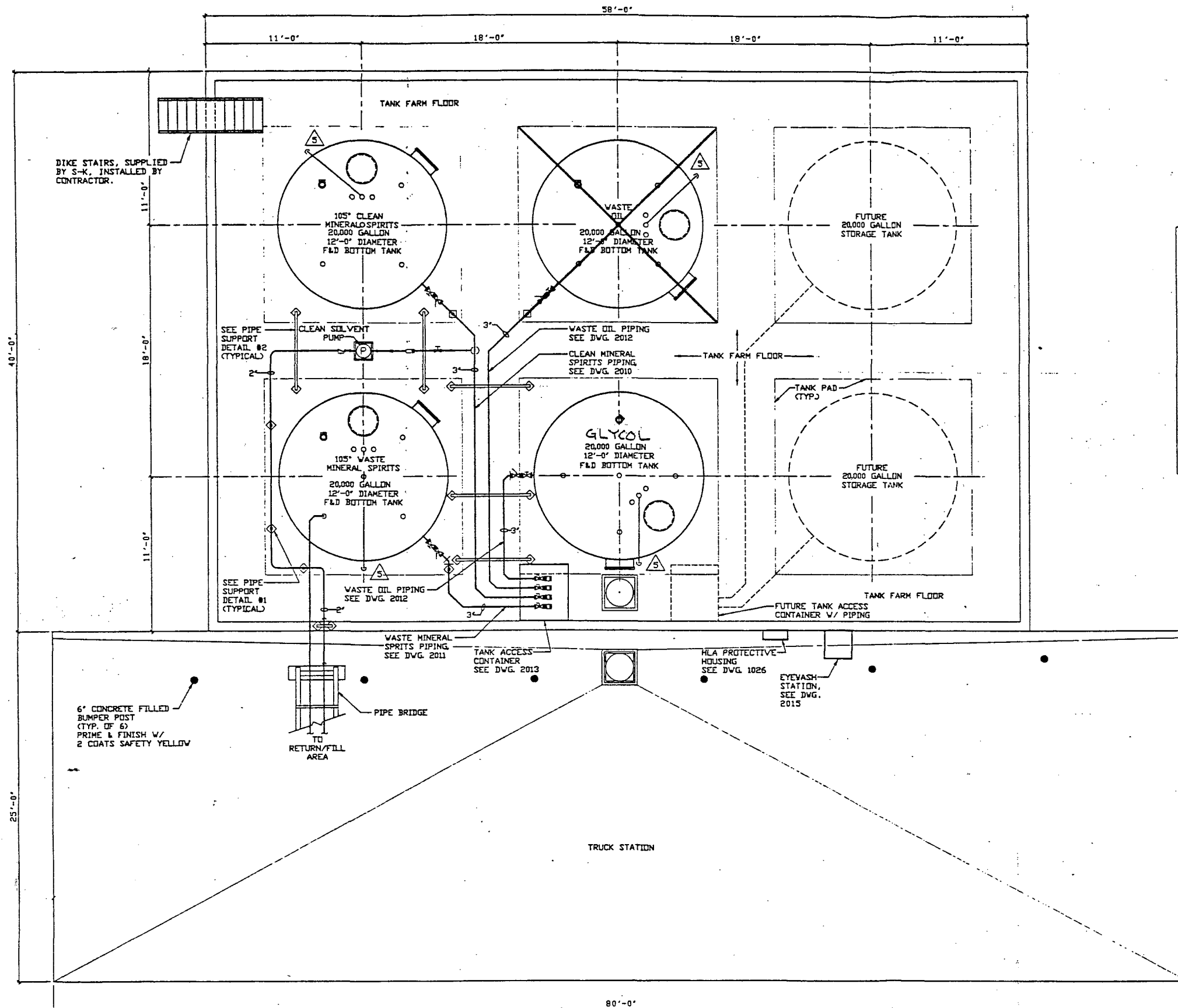
TITLE
155' BUILDING
SIGN LOCATION PLAN

SAFETY-KLEEN CORP.
777 BIG TIMBER ROAD ELON, ILLINOIS 60123 PHONE 708-687-8480

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

155' BUILDING SIGN LOCATION PLAN

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



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.

- IF CONSTRUCTION REQUIRES CONC. PENETRATIONS AFTER EPOXY COATING IS APPLIED - CONTRACTOR SHALL PATCH & REPAIR EPOXY COATING AS PER MANUFACTURERS RECOMMENDATIONS & REQUIREMENTS.
- SHIM ACCESS CONTAINER & EYEWASH STAND AS REQUIRED, WITH STEEL OR LEAD PLATES, TO LEVEL.
- CONC. PENETRATIONS WILL NOT BE ALLOWED ON TANKFARM FLOOR.
- ALL CHANGES IN DIRECTION OF WASTE PIPING SHALL BE MADE USING 2-45° ELBOVS OR LONG RADIUS 90°'S.
- "VERIC" TANK GAUGE, SEE DRAWING 2025.
- RUN PROCESS PIPE LEVEL FROM TANK. CHANGE ELEVATION, ONLY AS REQUIRED, FOR ENTRANCE INTO TANK ACCESS CONTAINER.
- WELD PIPE SUPPORT TO TOP OF TANK. FIELD FABRICATE PIPE SADDLE AS REQUIRED.
- SUPPORT PIPE APPROXIMATELY AS SHOWN, BUT NOT MORE THAN 8'-0" O.C. UNLESS OTHERWISE NOTED.
- ALL PROCESS PIPE FITTINGS TO BE WELDED.

QUESTEC
CONSULTING ENGINEERS
4812 Sennott Circle • Charlotte • NC 28203 • (704) 875-0300

MP.5

TITLE
**TANK FARM
PIPING PLAN**

SAFETY-KLEEN CORP.
777 BIG TOPPER ROAD ELGIN ILLINOIS 60120 PHONE 708-697-8444

NO.	DESCRIPTION	BY	CHK	APPR	DATE	SERVICE CENTER LOCATION	SC-DWG-REV NO.	SHEET NO.
						MEDLEY, FL	316301-2000-00	45

TANK FARM PIPING PLAN

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

[illegible]

FOUNDATIONS

1. THE SUBSURFACE INFORMATION AND FOUNDATION DESIGN ARE BASED ON A REPORT PREPARED BY SCHMEIDER + SUTSKIN ASSOCIATES REPORT NUMBER 14691. SOIL TO HAVE A 3,000 PSF BEARING CAPACITY. THE CONTRACTOR SHALL PERFORM EXCAVATIONS, FOOTING CONSTRUCTION, AND PREPARATION OF THE SUBGRADE IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT.
2. FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT, SHALL BE REPORTED TO THE STRUCTURAL ENGINEER AND THE GEOTECHNICAL ENGINEER BEFORE PROCEEDING.

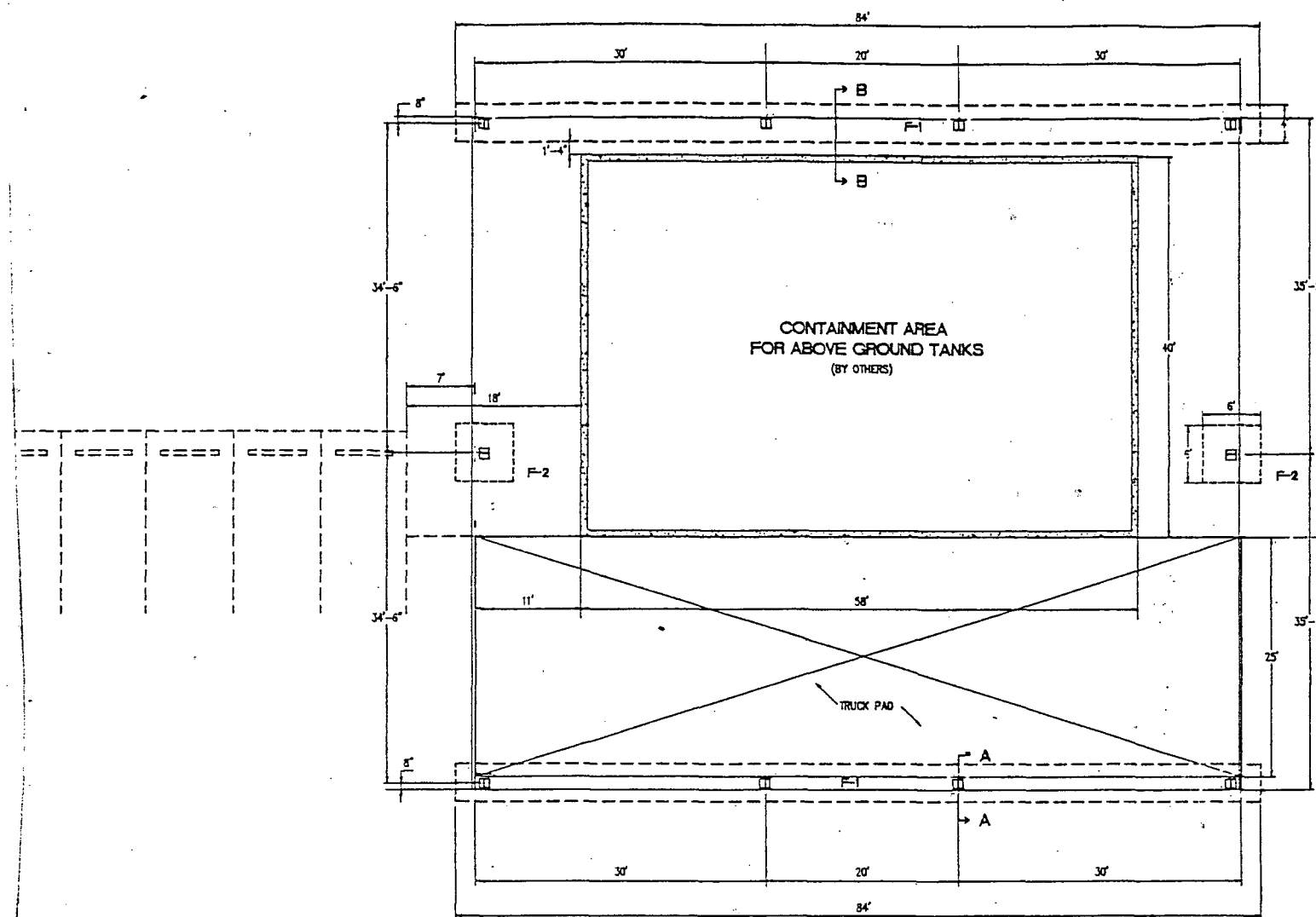
GENERAL

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

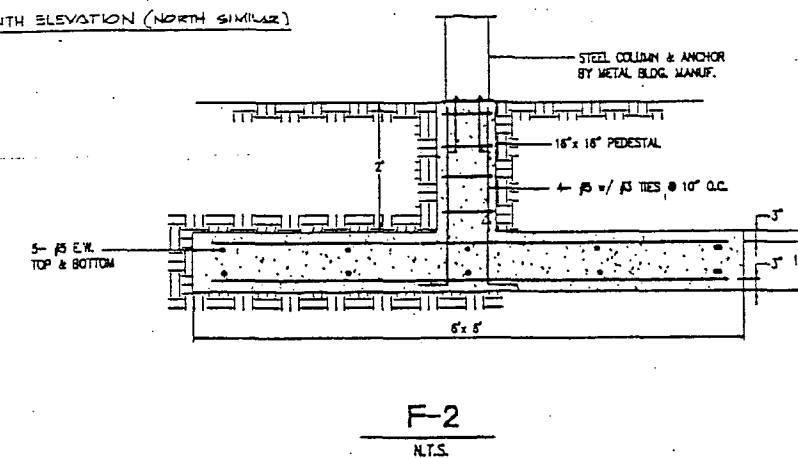
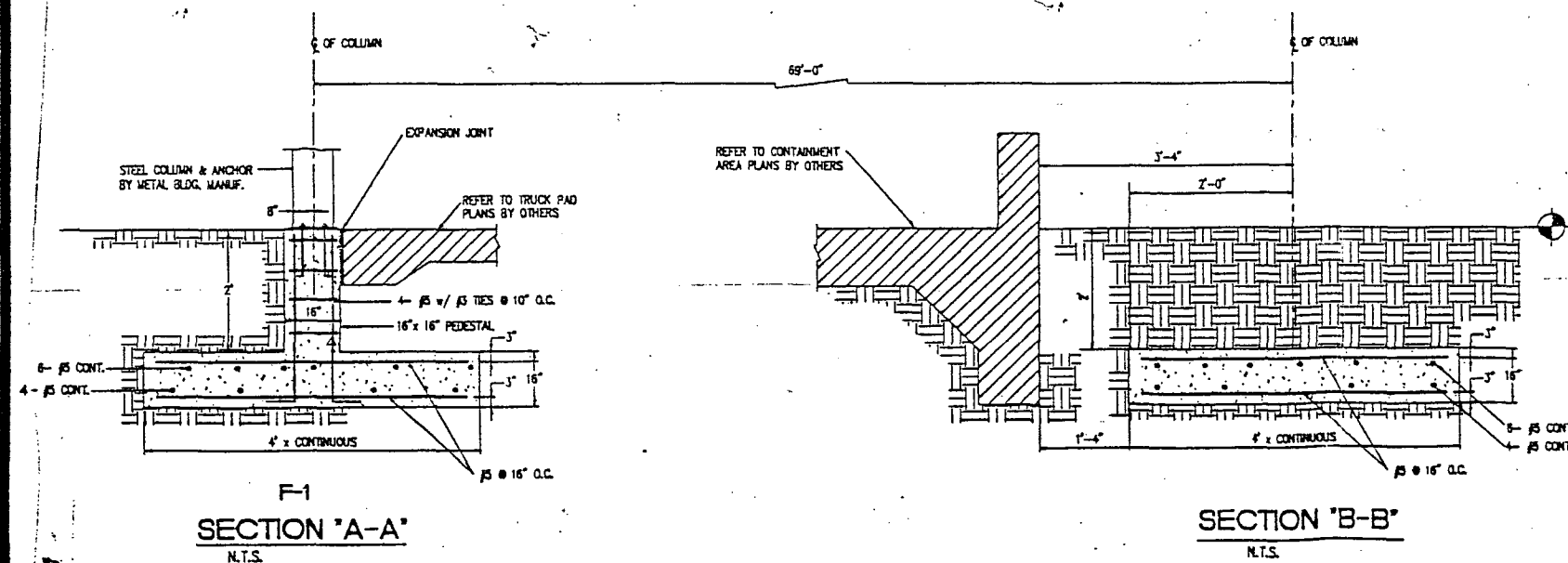
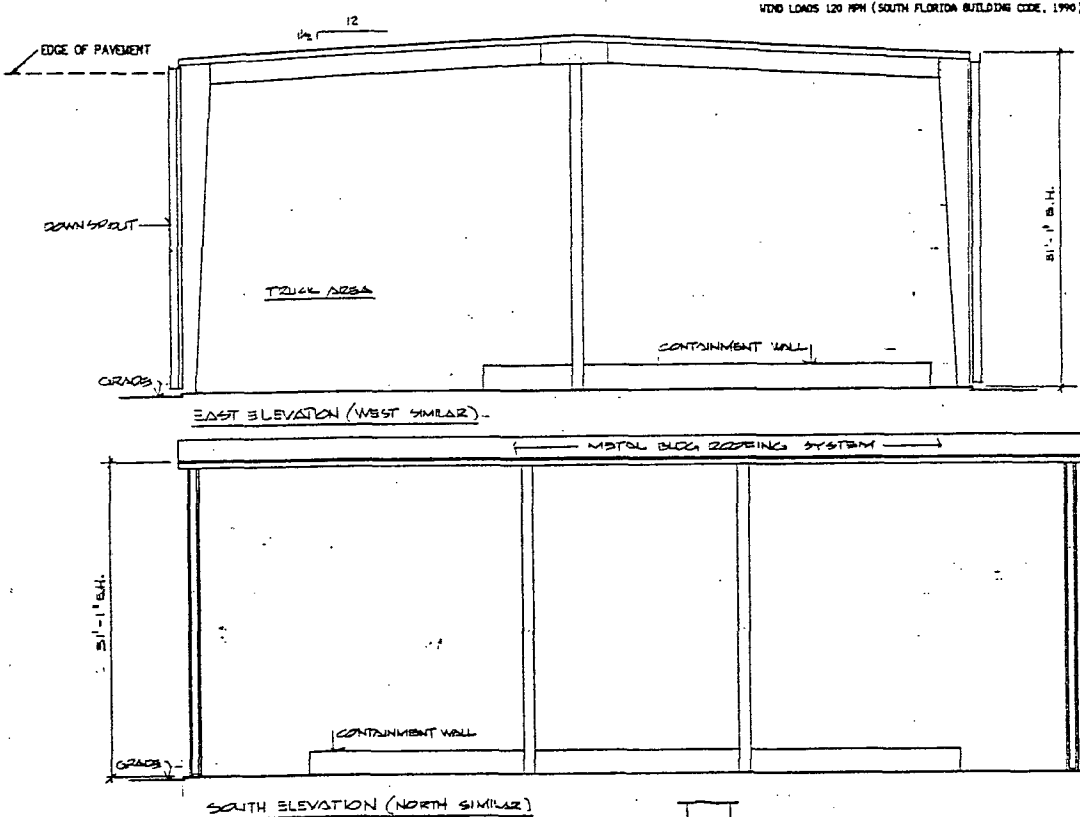
ROOF DEAD LOAD = STEEL LOAD + 3 PSF ADDITIONAL

WIND LOADS 120 MPH (SOUTH FLORIDA BUILDING CODE, 1990)



FOUNDATION PLAN

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



SAFETY KLEEN
MEDLEY FLORIDA.

TANIK FARM CANOPY

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

Sheet 1

ST- 1