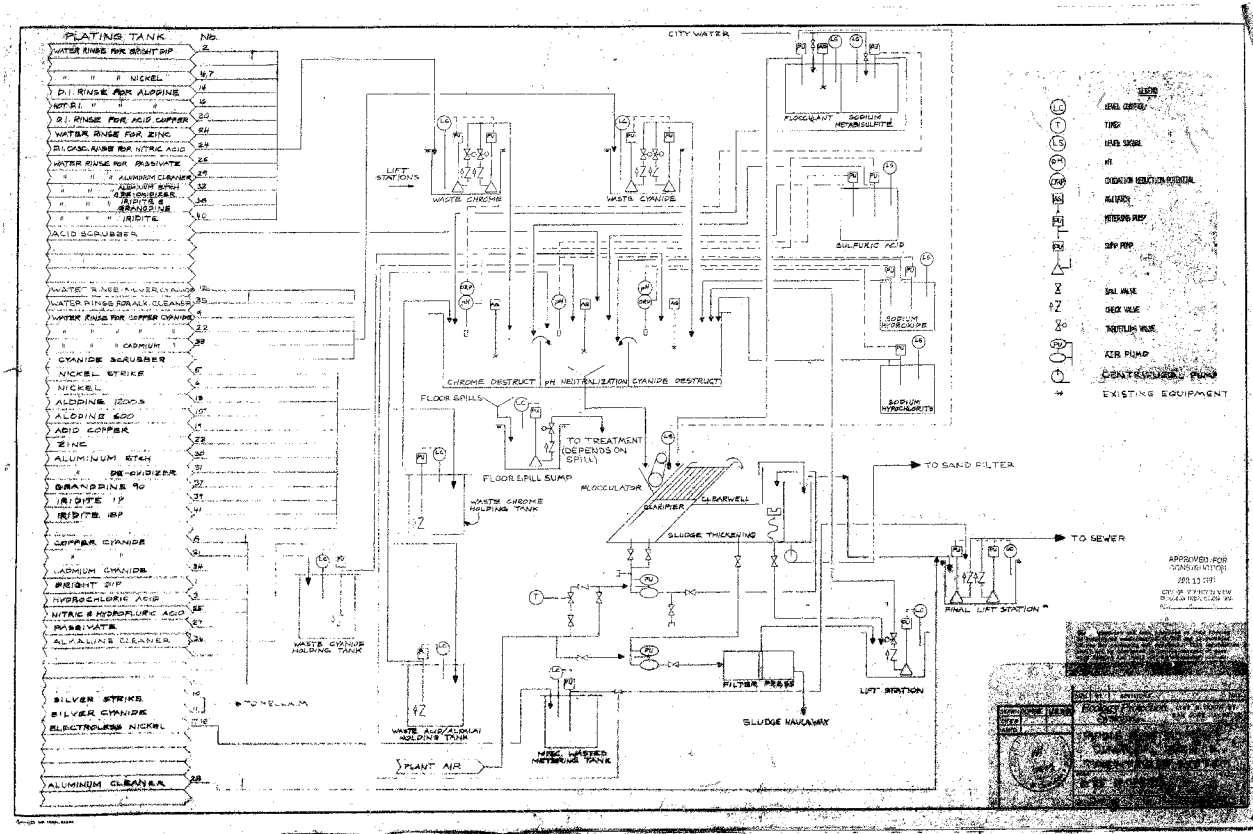
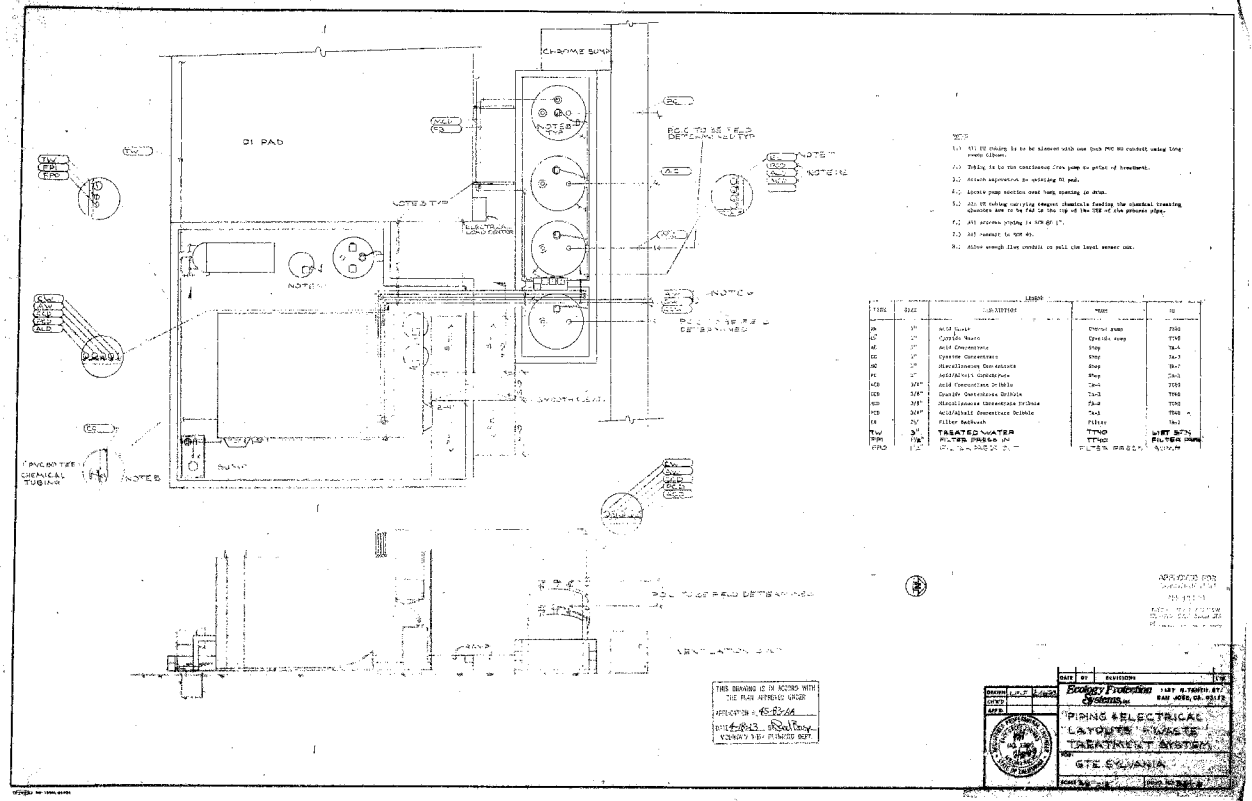
POOR LEGIBILITY

ONE OR MORE PAGES IN THIS DOCUMENT ARE DIFFICULT TO READ
DUE TO THE QUALITY OF THE ORIGINAL


PLATING TANK
No.
WATER RINSE FOR BRIGHT DIP
NICKEL
D.I. RINSE FOR ALODINE
D.I. RINSE FOR ACID COPPER
WATER RINSE FOR ZINC
D.I. CASC. RINSE FOR NITRIC ACID
WATER RINSE FOR PASSIVATE
ALUMINUM CLEANER
ALUMINUM ETCH
DE-OXIDIZER
IRIDITE & GRANODINE
IRIDITE
ACID SCRUBBER
WATER RINSE FOR ALK. CLEANER
WATER RINSE FOR COPPER CYANIDE
CADMIUM
CYANIDE SCRUBBER
NICKEL STRIKE
NICKEL
ALODINE 1200S
ALODINE 600
ACID COPPER
ZINC
ALUMINUM ETCH
DE-OXIDIZER
GRANODINE 90
IRIDITE 17
IRIDITE 18P
COPPER CYANIDE
CADMIUM CYANIDE
BRIGHT DIP
HYDROCHLORIC ACID
NITRIC & HYDROFLUORIC ACID
PASSIVATE
ALKALINE CLEANER
SILVER STRIKE
SILVER CYANIDE
ELECTROLESS NICKEL
ALUMINUM CLEANER
CITY WATER
LIFT STATIONS
WASTE CHROME
WASTE CYANIDE
FLOCCULANT
SODIUM METABISULFITE
SULFURIC ACID
SODIUM HYDROXIDE
SODIUM HYPOCHLORITE
CHROME DESTRUCT
pH NEUTRALIZATION
CYANIDE DESTRUCT
FLOOR SPILLS
TO TREATMENT (DEPENDS ON SPILL)
FLOOR SPILL SUMP
FLOCCULATOR
CLARIFIER
CLEARWELL
SLUDGE THICKENING
WASTE CHROME HOLDING TANK
WASTE CYANIDE HOLDING TANK
WASTE ACID/ALKALI HOLDING TANK
PLANT AIR
MISC. WASTED METERING TANK
FILTER PRESS
SLUDGE HAULAWAY
LIFT STATION
FINAL LIFT STATION
TO SAND FILTER
TO SEWER
TO RECLAIM
SENSORS
LEVEL CONTROL
TIMER
LEVEL SIGNAL
HT
OXIDATION REDUCTION POTENTIAL
AGITATOR
METERING PUMP
SUMP PUMP
BALL VALVE
CHECK VALVE
THROTTLING VALVE
AIR PUMP
CENTRIFUGAL PUMP
EXISTING EQUIPMENT
APPROVED FOR CONSTRUCTION



NOTES

1.) All PE tubing is to be element with one inch PVC NO conduit using long sweep elbows.

2.) Tubing is to run continuous from pump to point of treatment.

3.) Attach separately to existing OI pad.

4.) Locate pump section over tank opening in drum.

5.) All PE tubing carrying reagent chemicals feeding the chemical treating chamber are to be laid in the top of the PE of the process pipe.

6.) All process piping is NPS 6" 1".

7.) All vessels to NPS 4b.

8.) Allow enough flex conduit to pull the level sensor cam.

LEGEND

TAG	SIZE	DESCRIPTION	TYPE	ID
AA	1"	Acid Waste	Chemical pump	7P40
AC	1"	Caustic Waste	Operate pump	7P48
AE	1"	Acid Concentrate	Step	7A-4
CC	1"	Cyanide Concentrate	Step	7A-3
AO	1"	Miscellaneous Concentrate	Step	7A-7
PC	1"	Acid/Alkali Concentrate	Step	7A-1
ACD	3/4"	Acid Concentrate Drible	7A-4	7C09
CCD	3/4"	Cyanide Concentrate Drible	7A-3	7P48
MCD	3/4"	Miscellaneous Concentrate Drible	7A-2	7C08
PCD	3/4"	Acid/Alkali Concentrate Drible	7A-1	7P48
FB	3/4"	Filter Backwash	Filter	7A-1
TW	3"	TREATED WATER	TTWO	WET WELL
TFW	1"	FILTER PRESS W	TTWO	FILTER DRAIN
FPD	1"	FILTER PRESS P	FILTER PRESS	FILTER

THIS DRAWING IS IN ACCORD WITH THE PLAN APPROVED UNDER
APPLICATION # 45-83-6A
DATE 4-18-83 Rod Perry
VIRGINIA STATE POLLUTION CONTROL BOARD

DATE	BY	REVISIONS	CK

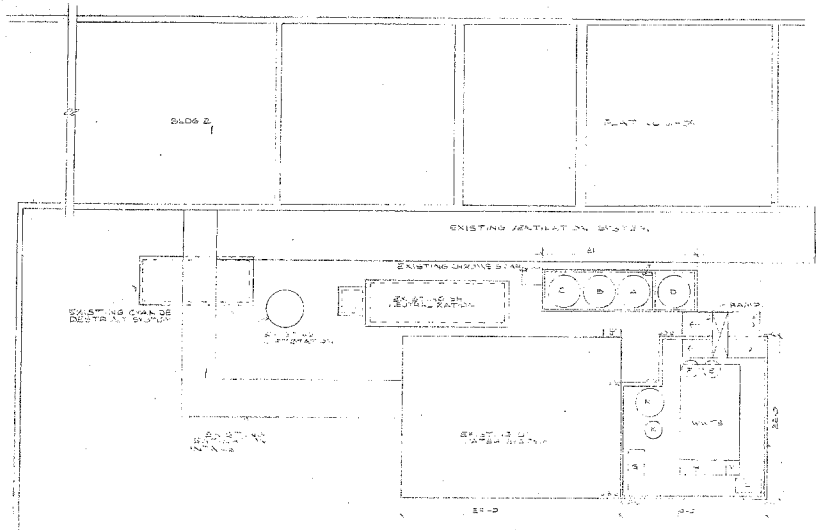
DRAWN L.A.F. 1/4/83
CHKD
APPD

Ecology Protection Systems, Inc.
1187 N. TENTH ST.
SAN JOSE, CA. 95112

"PIPING & ELECTRICAL LAYOUTS WASTE TREATMENT SYSTEM"

FOR GTE SYLVANIA

SCALE 1/4" = 1'-0"



A	Miscellaneous Waste Storage Tank	Ta-1
B	Chrome " " "	Ta-1
C	Acid/Alkali " " "	Ta-1
D	Cyanide " " "	Ta-1
E	Plane/Gas Storage Tank	
F	Sodium Metabisulfite Storage Tank	
G	Hydrogen Mechanical	
H	Sodium Hydrosulfite Storage (In TOPOLIMENT Tank)	
I	Electrical Load Center	
J	Sodium Hydrosulfite	
K	Sump	
L	Sewage Water	
M	Sulfuric Acid Tank	Ta-1

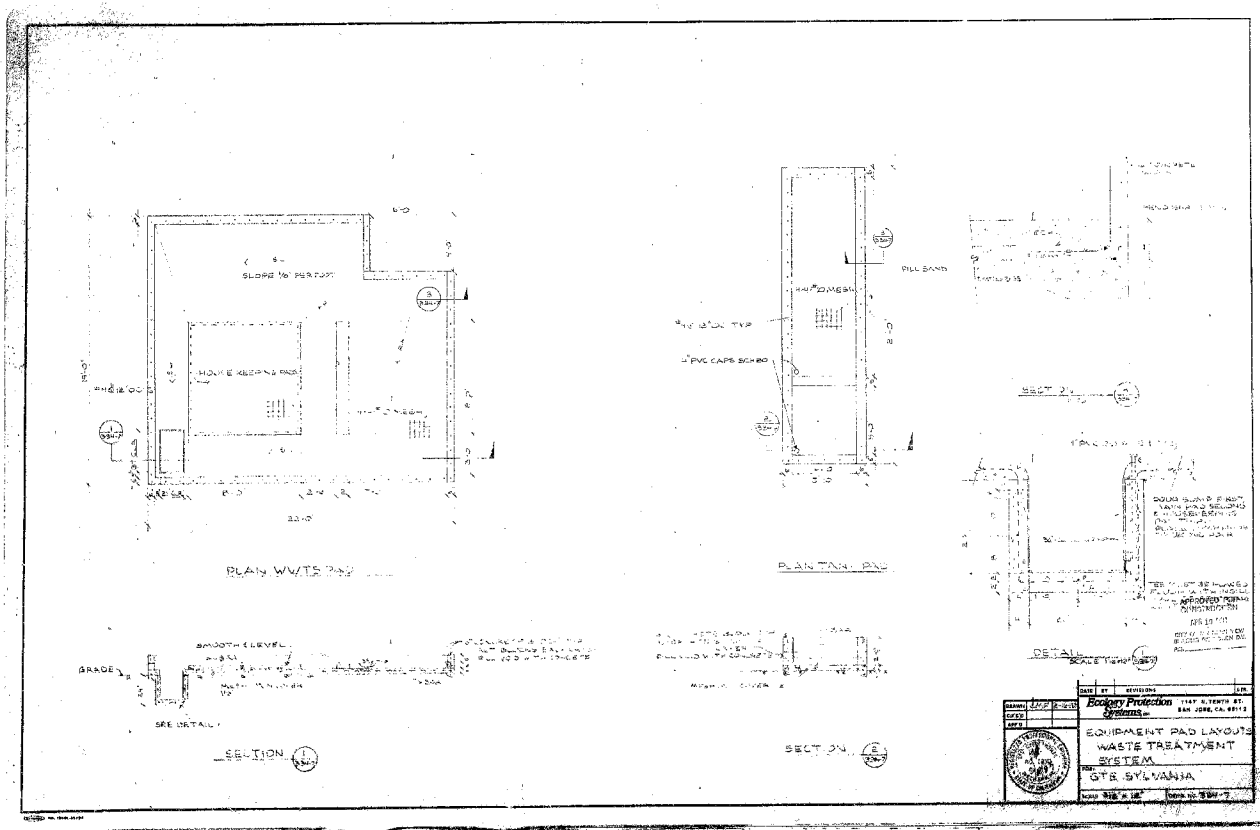
THIS DRAWING IS IN ACCORD WITH THE SLAM REVIEWED UNDER APPLICATION # 45-83-44 DATED 4-15-83 BY [illegible] ASSISTANT WEST PLANNING [illegible]

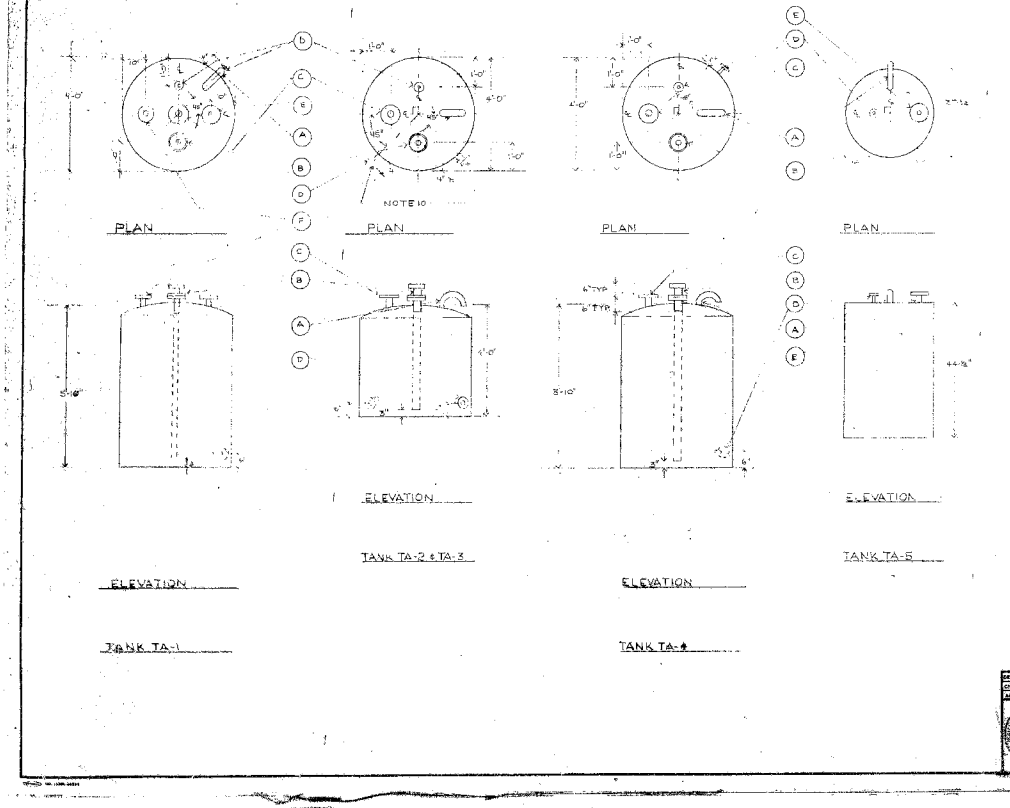
DATE	BY	REVISIONS	LTR.

DRAWN [illegible] 2-4-83
CHK'D
APP'D

Ecology Protection Systems, Inc.
1147 N. TENTH ST.
SAN JOSE, CA. 94112

EQUIPMENT LOCATION
WASTE TREATMENT SYSTEM
FOR GTE SYLVANIA


SLOPE 1/8" PER FOOT
HOUSE KEEPING PADS
PLAN WWTS PAD
PILL SAND
PLAN TANK PAD
SECTION
DETAIL
SMOOTH LEVEL
GRADE
SEE DETAIL
SECTION
Ecology Protection Systems
EQUIPMENT PAD LAYOUTS
WASTE TREATMENT
SYSTEM
GTE SYLVANIA



EQUIPMENT
(QUANTITIES ARE TOTAL PER THIS DWG.)

LTR	FITTING	QUAN.	NOTE
A	2 GOOSE-NECK VENT	4	
B	2" REMOV. FLG. D-PIPE	4	
C	3" FLG D NOZZLE	4	9
D	1" FLG D NOZZLE	4	9
E	2" FLG D NOZZLE		9
F	2½ FLG D NOZZLE	1	9

Notes:

1. Tanks are closed top, flat on Cleveland Tanker shoes for TA 1-4; flat top in TA-5, flat bottom.
2. Tank cups are to be designed to support a minimum 300 pound live load on any point.
3. Tank material is heavy-wall cross-linked polyethylene, all fittings polyethylene, P.I. on DWG.
4. Vendor is to provide 316 SS nuts, bolts and washers and Viton gasket for Hypalon connection.
5. Plate nozzles to accept 3" reasonable flanged dipstick.
6. Offset tie-down leg if required to clear dipstick.
7. Use paint of entry through tank cap for height of tanks dimension reference.
8. All tie-down legs are to be designed to withstand seismic zone 3F loading.
9. Flanges are to be 150 pound ANSI with standard bolt patterns.
10. Place to use nozzle per tank as shown.
11. Dimensional tolerances:
    Linear ± ¼"
    Angular ± 0.2°

APPROVED FOR CONSTRUCTION
APR 1978
GPO BUILDING
BUILDING NO.
PSN

DATE	BY	REVISIONS	ISN

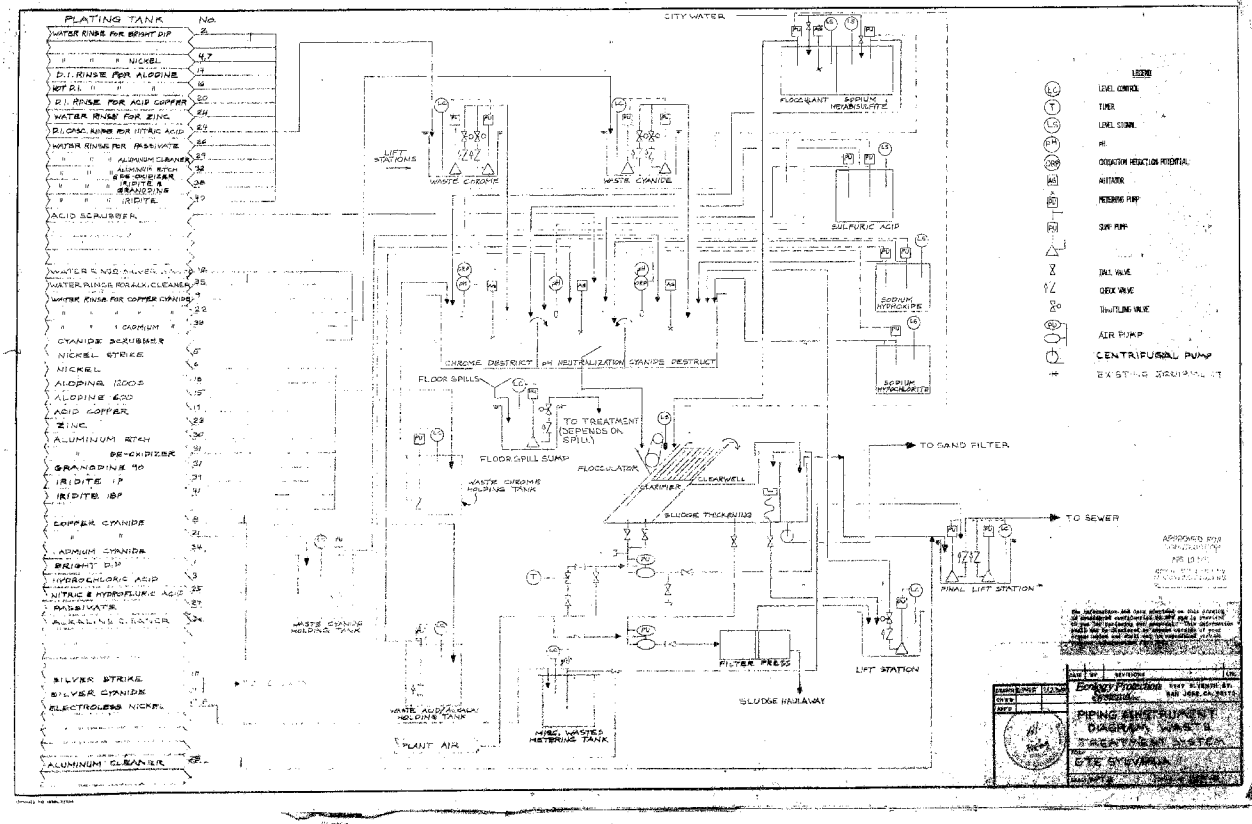
DESIGN: [illegible] 1/74
CHK'D
APP'D

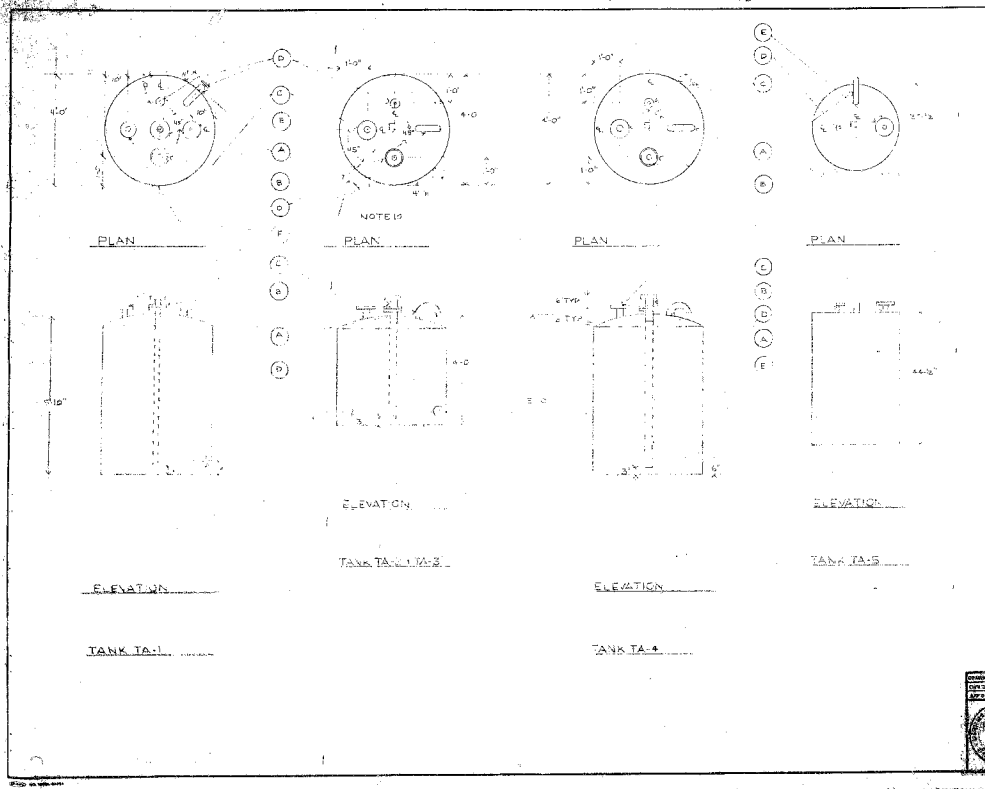
Ecology Protection Systems
1147 N. TENTH ST.
SAN JOSE, CA. 95112

TANK DETAILS
TANKS TA-1 THRU TA-5
WASTE TREATMENT SYSTEM

GTE SYLVANIA

SCALE 3/16"=1'-0" DWG. NO. 334-6


PLATING TANK
No.
WATER RINSE FOR BRIGHT DIP
NICKEL
D.I. RINSE FOR ALODINE
HOT D.I.
D.I. RINSE FOR ACID COPPER
WATER RINSE FOR ZINC
D.I. CASC. RINSE FOR NITRIC ACID
WATER RINSE FOR PASSIVATE
ALUMINUM CLEANER
ALUMINUM ETCH
ALUMINUM ETCH
ALUMINUM ETCH
IRIDITE & GRANODINE
IRIDITE
ACID SCRUBBER
WATER RINSE FOR ALX. CLEANER
WATER RINSE FOR COPPER CYANIDE
CADMIUM
CYANIDE SCRUBBER
NICKEL STRIKE
NICKEL
ALODINE 1200S
ALODINE 600
ACID COPPER
ZINC
ALUMINUM ETCH
DE-OXIDIZER
GRANODINE 90
IRIDITE IP
IRIDITE IBP
COPPER CYANIDE
CADMIUM CYANIDE
BRIGHT DIP
HYDROCHLORIC ACID
NITRIC & HYDROFLUORIC ACID
PASSIVATE
ALKALINE CLEANER
SILVER STRIKE
SILVER CYANIDE
ELECTROLESS NICKEL
ALUMINUM CLEANER
CITY WATER
LIFT STATIONS
WASTE CHROME
WASTE CYANIDE
FLOCCULANT
SODIUM HEXABISULFITE
SULFURIC ACID
SODIUM HYDROXIDE
SODIUM HYPOCHLORITE
CHROME DESTRUCT
pH NEUTRALIZATION
CYANIDE DESTRUCT
FLOOR SPILLS
FLOOR SPILL SUMP
TO TREATMENT (DEPENDS ON SPILL)
FLOCCULATOR
CLEARIFIER
CLEARWELL
SLUDGE THICKENING
WASTE CHROME HOLDING TANK
WASTE CYANIDE HOLDING TANK
WASTE ACID/ALKALI HOLDING TANK
PLANT AIR
MISC. WASTES METERING TANK
FILTER PRESS
SLUDGE HAULAWAY
LIFT STATION
TO SAND FILTER
TO SEWER
FINAL LIFT STATION
LEGEND
LEVEL CONTROL
TIMER
LEVEL SIGNAL
pH
OXIDATION REDUCTION POTENTIAL
AGITATOR
METERING PUMP
SUMP PUMP
BALL VALVE
CHECK VALVE
THROTTLING VALVE
AIR PUMP
CENTRIFUGAL PUMP
EXISTING SIGNIFICANT
Ecology Protection
PIPING INSTRUMENT DIAGRAM WASTE TREATMENT SYSTEM
GTE SYLVANIA



EQUIPMENT
(QUANTITIES ARE TOTAL PER THIS DWG.)

LTR	FITTING	QUAN	NOTE
A	2 GOOSE-NECK VENT	4	
B	3 REMOV. FLG. DIP PIPE	4	
C	3 FLGD NOZZLE	4	9
D	1 FLGD NOZZLE	4	9
E	2 FLGD NOZZLE		9
F	2½ FLGD NOZZLE	1	9

Notes:

1. Tanks are shown one, flat or dished (smoker choice for TA-1-2) flat top or TA-3, flat bottom.
2. Tank tops are to be designed to support a minimum 300 pound line load at any point.
3. Tank material is heavy-wall resin-linked polyethylene, all fittings polypropylene, P.E. or PVC.
4. Bender is to provide 250 SS nuts, bolts and washers and tines gasket for dip-pipe connection.
5. Size nozzles to secure 3" removable flanged dip-pipe.
6. Offset tie-down lug if required to clear nozzle.
7. Use point of entry through tank top for height of nozzle dimension reference.
8. All tie-down lugs are to be designed to withstand seismic zone 3" loading.
9. Flanges are to be 150 pound ANSI with stubbed bolt patterns.
10. Used in one nozzle per tank as above.
11. Dimensional tolerances:
    Linear ± 5"
    Angular ± 2.5°

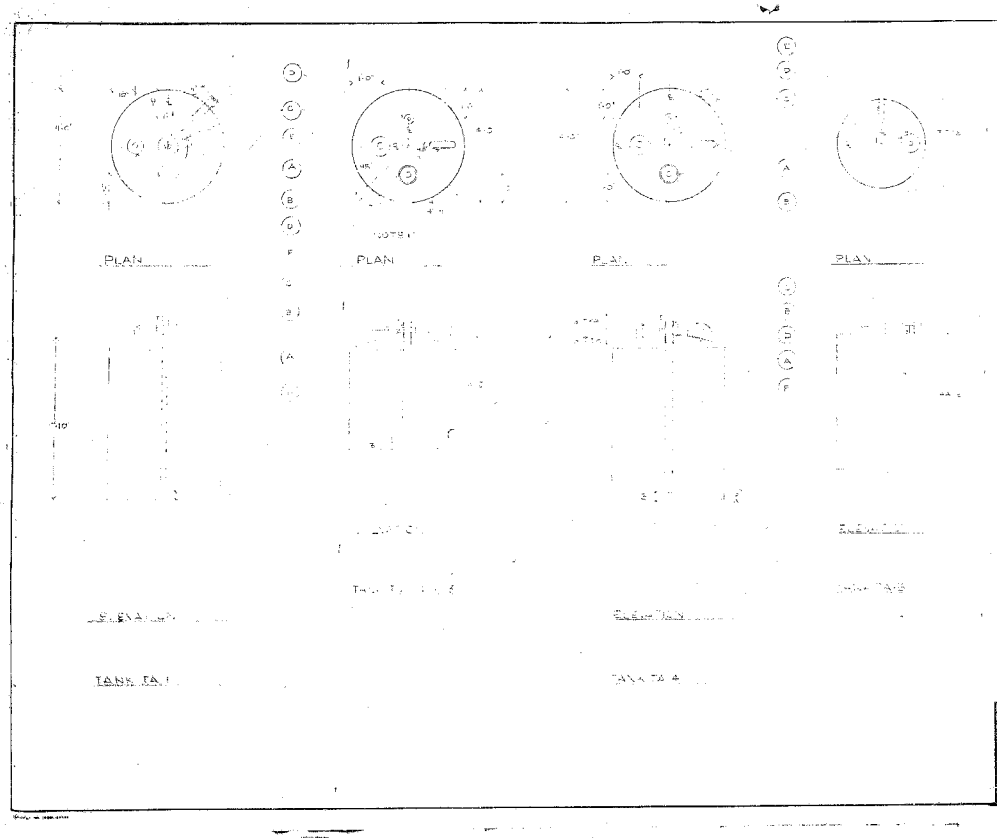
APPROVED FOR CONSTRUCTION

DATE	BY	REVISIONS	LTR

Ecology Protection Systems, Inc.
1107 N. TENTH ST.
SAN JOSE, CA. 95112

TANK DETAILS
TANKS TA-1 THRU TA-5
WASTE TREATMENT SYSTEM

GTE SYLVANIA



EQUIPMENT

LTR		QUANTITY
A	[illegible]	4
B	[illegible]	4
C	[illegible]	[illegible]
D	[illegible]	[illegible]
E	[illegible]	[illegible]
F	[illegible]	[illegible]

Notes

1. Tanks are closed top, flat or dished bottom choice. Use in 1-0 flat top to Mach, flat bottom.
2. Tank tops are to be designed to support a minimum [illegible] and [illegible] at one point.
3. Tank material is heavy-wall reconstituted polypropylene, all fittings polypropylene, U.C. or PPS.
4. Tanks is to provide 200 [illegible] water, holes and members and other packer for [illegible] connection.
5. Size nozzles to accept [illegible] removable storage dip-pipe.
6. Fill-out tie-down lug if required to clear nozzle.
7. Top pedes of entry through tank cap for height of nozzle diameter reference.
8. All tie-down lugs are to be designed to withdraw [illegible] tank [illegible] loading.
9. Flanges are to be 150 pound ANSI with standard [illegible] factors.
10. Tank is one nozzle per tank as shown.
11. Dimensional tolerances:
    Linear ± 4"
    Angular ± 0.5°

DATE	BY	REVISIONS	LTR.

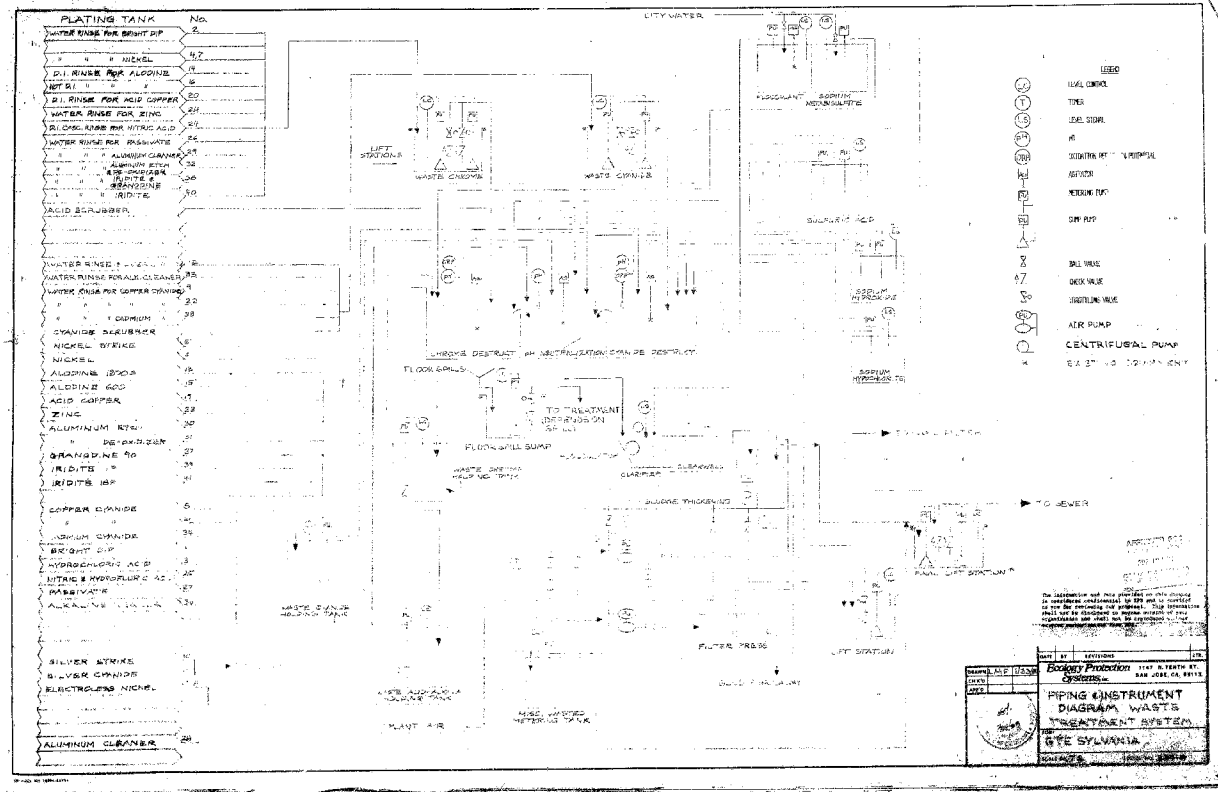
DRAWN W.B. 1/14/85
CH'K'D
APP'D

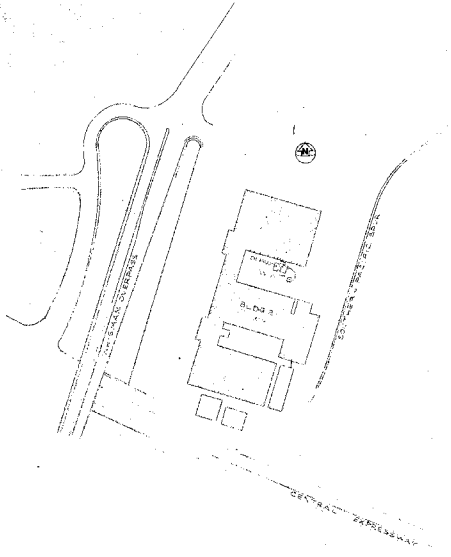
Ecology Protection Systems, Inc. 1147 E. TENTH ST. SAN JOSE, CA. 95112

TANK DETAILS
TANKS TA-1 THRU TA-5
WASTE TREATMENT SYSTEM

FOR GTE SYLVANIA

SCALE 3/8 = 1:2 DWG. NO. 334-5


PLATING TANK
No.
WATER RINSE FOR BRIGHT DIP
NICKEL
D.I. RINSE FOR ALODINE
D.I. RINSE FOR ACID COPPER
WATER RINSE FOR ZINC
D.I. CASC. RINSE FOR NITRIC ACID
WATER RINSE FOR PASSIVATE
ALUMINUM CLEANER
ALUMINUM ETCH
IRIDITE & GRANODINE
IRIDITE
ACID SCRUBBER
WATER RINSE
WATER RINSE FOR ALK. CLEANER
WATER RINSE FOR COPPER CYANIDE
CADMIUM
CYANIDE SCRUBBER
NICKEL STRIKE
NICKEL
ALODINE 1200S
ALODINE 600
ACID COPPER
ZINC
ALUMINUM ETCH
DE-OXIDIZER
GRANODINE 90
IRIDITE
IRIDITE 18F
COPPER CYANIDE
CADMIUM CYANIDE
BRIGHT DIP
HYDROCHLORIC ACID
NITRIC & HYDROFLUORIC ACID
PASSIVATE
ALKALINE
SILVER STRIKE
SILVER CYANIDE
ELECTROLESS NICKEL
ALUMINUM CLEANER
CITY WATER
LIFT STATION
WASTE CHROME
WASTE CYANIDE
FLOCCULANT
SODIUM METABISULFITE
SULFURIC ACID
SODIUM HYDROXIDE
CHROME DESTRUCT
NEUTRALIZATION
CYANIDE DESTRUCT
FLOOR SPILLS
TO TREATMENT DEPENDS ON SPILL
FLOOR SPILL SUMP
WASTE SPILLS HOLDING TANK
CLARIFIER
CLEARWELL
SLUDGE THICKENING
TO SEWER
FINAL LIFT STATION
FILTER PRESS
LIFT STATION
WASTE ZINC HOLDING TANK
WASTE ADDITIONAL CLEAR TANK
PLANT AIR
MISC. WASTED METERING TANK
LEGEND
LEVEL CONTROL
TIMER
LEVEL SIGNAL
AIR PUMP
CENTRIFUGAL PUMP
Ecology Protection Systems, Inc.
1147 N. TENTH ST.
SAN JOSE, CA. 95112
PIPING & INSTRUMENT DIAGRAM WASTE TREATMENT SYSTEM
GTE SYLVANIA



DRAWING INDEX

TITLE	NUMBER
COVER SHEET	334-1
EQUIPMENT LOCATIONS	334-2
PIPING & ELECTRICAL ARRANGEMENT	334-3
PIPING & INSTRUMENT DIAGRAM	334-4
TANK DETAILS	334-5
PUMP RACK	334-6
EQUIPMENT PAD LAYOUTS	334-7

THIS DRAWING IS IN ACCORD WITH THE PLAN APPROVED UNDER
APPLICATION 4-5-83-AA
DATE 4-18-83 [signature]
INDUSTRIAL TEXT PLANNING DEPT.

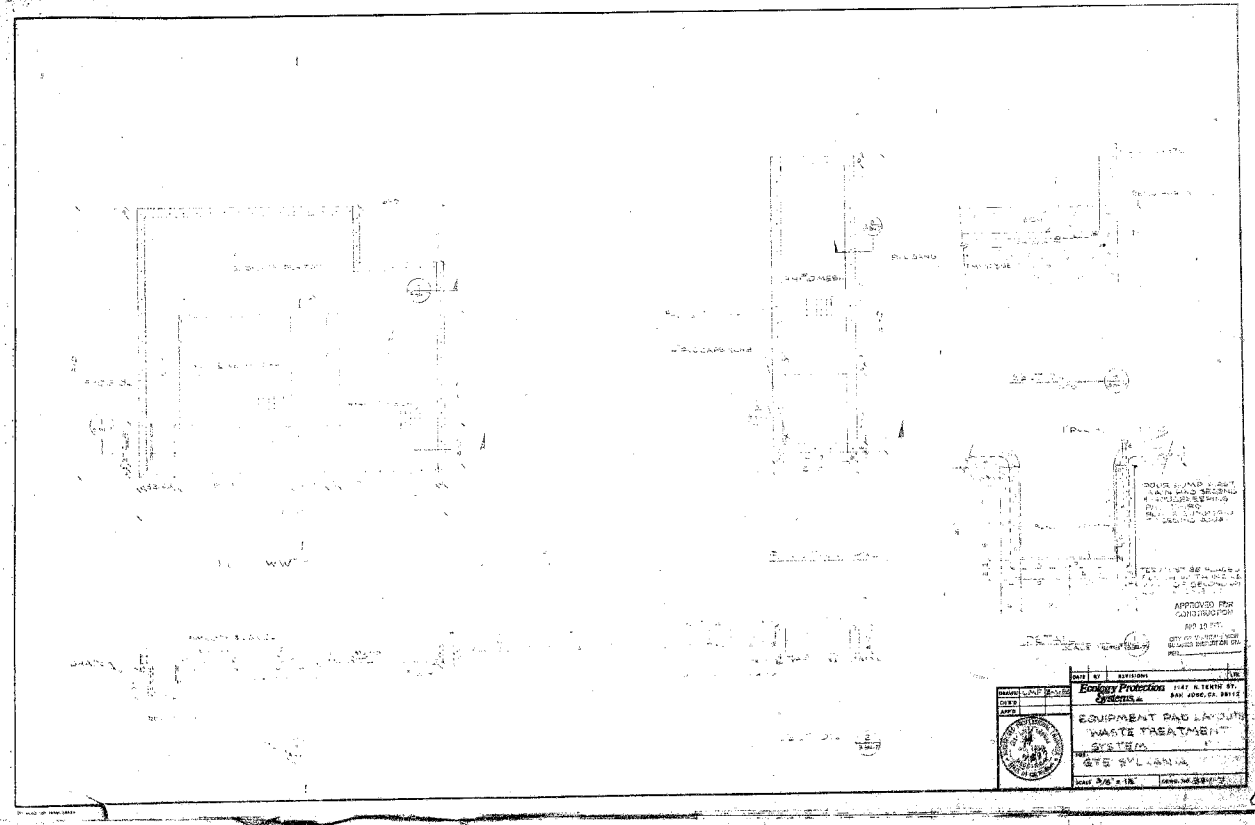
APPROVED FOR CONSTRUCTION
APR 18 1983
SYSTEM NEW
[illegible]
FOR

DATE	BY	REVISIONS	APP.

Ecology Protection Systems, Inc. 1147 N. TENTH ST. SAN JOSE, CA. 95112

COVER SHEET-WASTE TREATMENT SYSTEM

GTE SYLVANIA


APPROVED FOR CONSTRUCTION
DATE
BY
REVISIONS
Ecology Protection Systems, Inc.
1147 N. TENTH ST.
SAN JOSE, CA. 95112
EQUIPMENT PAD LAYOUT
WASTE TREATMENT
SYSTEM
GTE SYLVANIA
SCALE 3/8" = 1'-0"