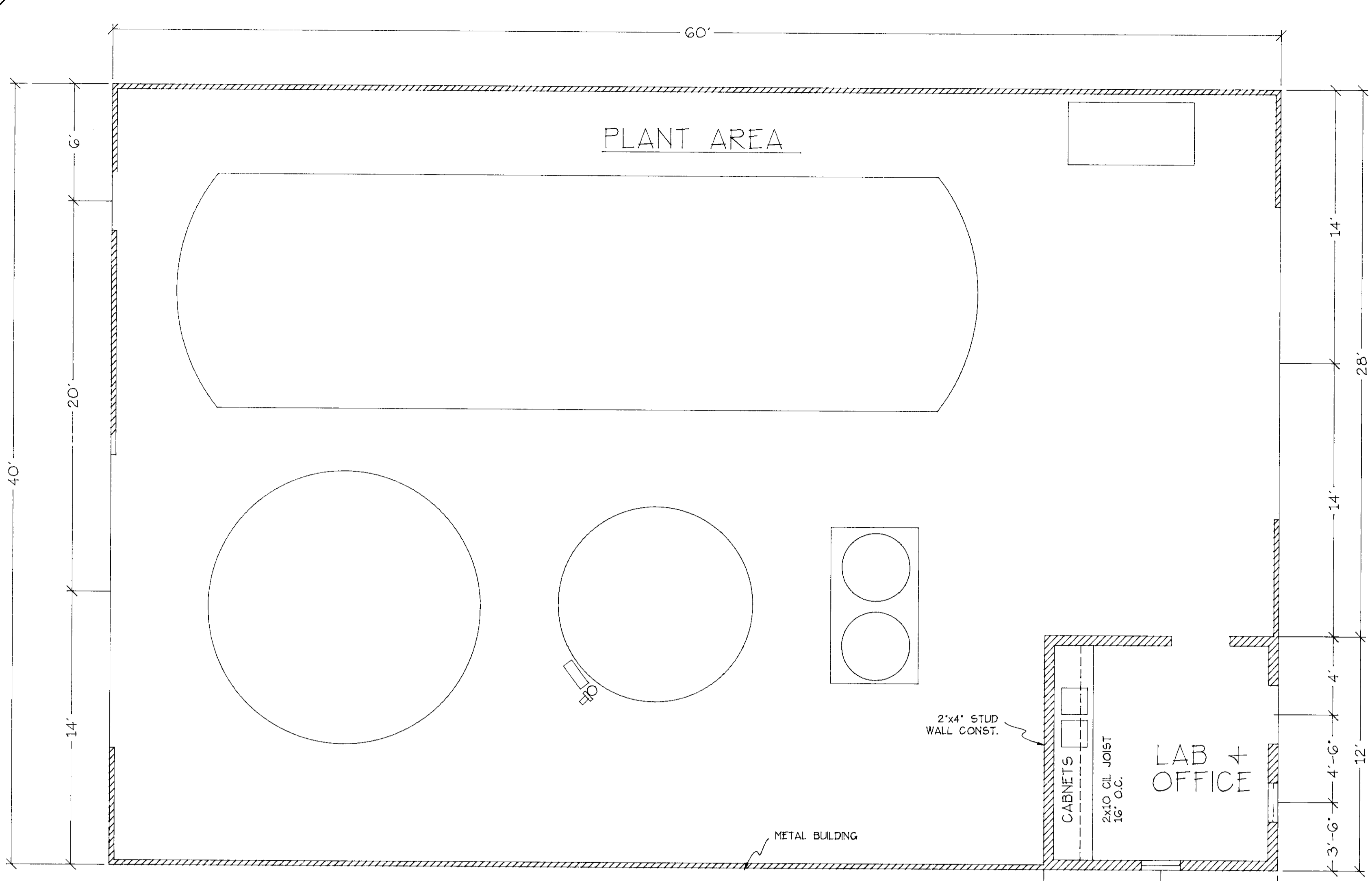


| FIXTURE SCHEDULE | | | |
|------------------|----------------------------|--------------------|------------|
| SYM. | MANUFACTURER | LAMPS | MOUNTING |
| A | C296 LITHONIA | 2-FLOR F96T12EW | CHAIN HUNG |
| B | LB440 LITHONIA | 4-FLOR F40T12EW | SURFACE |
| C | LITHONIA HITEK TWH 400M | 1-400W HPS | WALL |

- NOTES
- 1) S₃=3WAY SW
 - 2) S₄=4WAY SW
 - 3) S₃=3WAY SW A-B LIGHTING OFFICE
 - 4) S₃=3WAY SW A-B LIGHTING OFFICE

| MOTOR # | VOLTAGE. PHASE | HP | KW | FED FROM |
|---------|----------------|----|------|------------------|
| M1 | 230 . 3 Φ | 2 | 1.5 | CONTROL PANEL #1 |
| M2 | 230 . 3 Φ | 2 | 1.5 | CONTROL PANEL #1 |
| M3 | 230 . 3 Φ | 2 | 1.5 | CONTROL PANEL #1 |
| M4 | 230 . 3 Φ | 5 | 3.7 | CONTROL PANEL #1 |
| M5 | 230 . 3 Φ | 0 | 7.5 | CONTROL PANEL #1 |
| M6 | 230 . 3 Φ | 3 | 2.25 | CONTROL PANEL #1 |
| O3 | 110 . 1 Φ | 1 | 3.5 | PANEL A |

SU-2941



NOTE:
LOAD TO BE BALANCED IN FIELD AS
CLOSE AS POSSIBLE

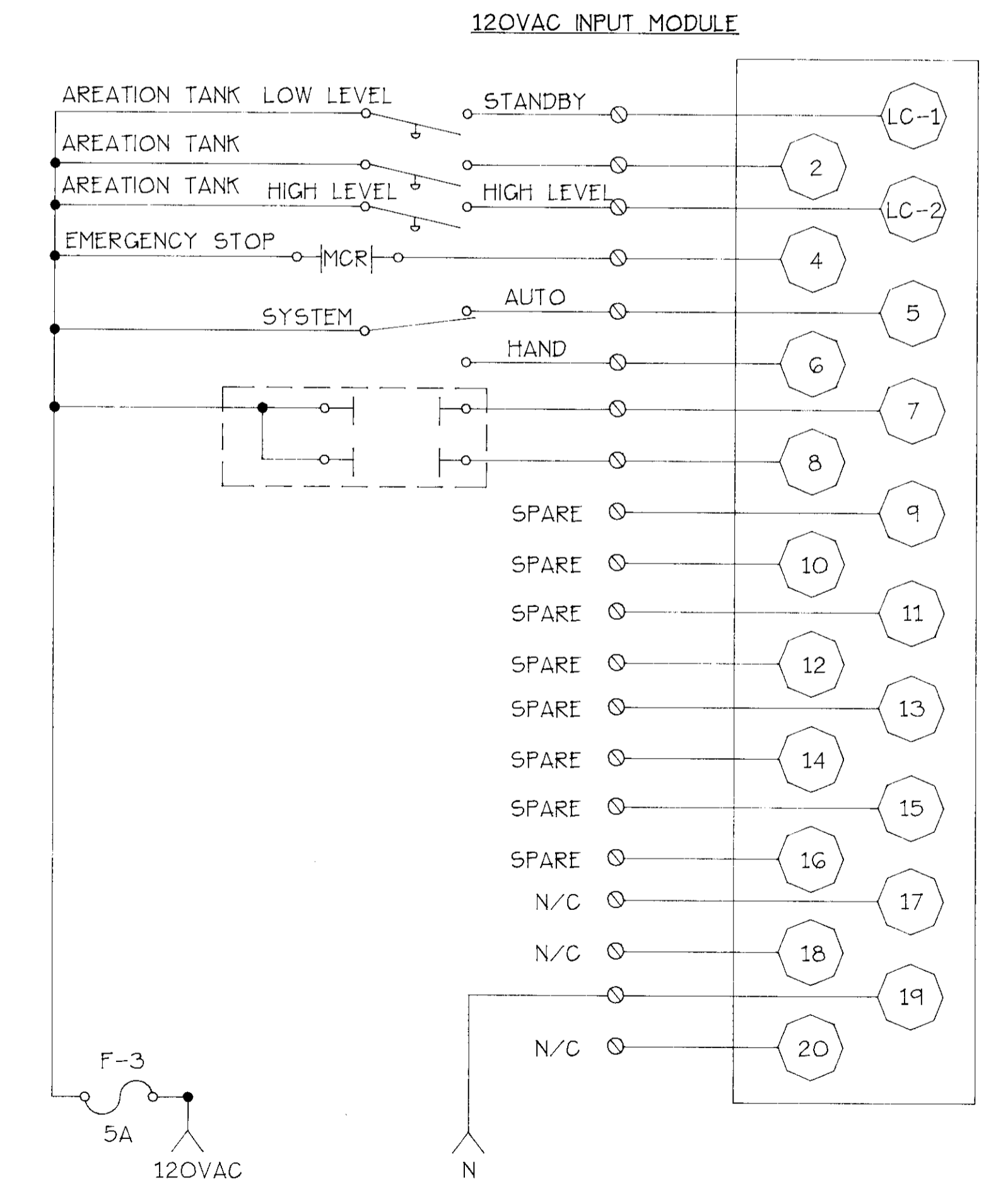
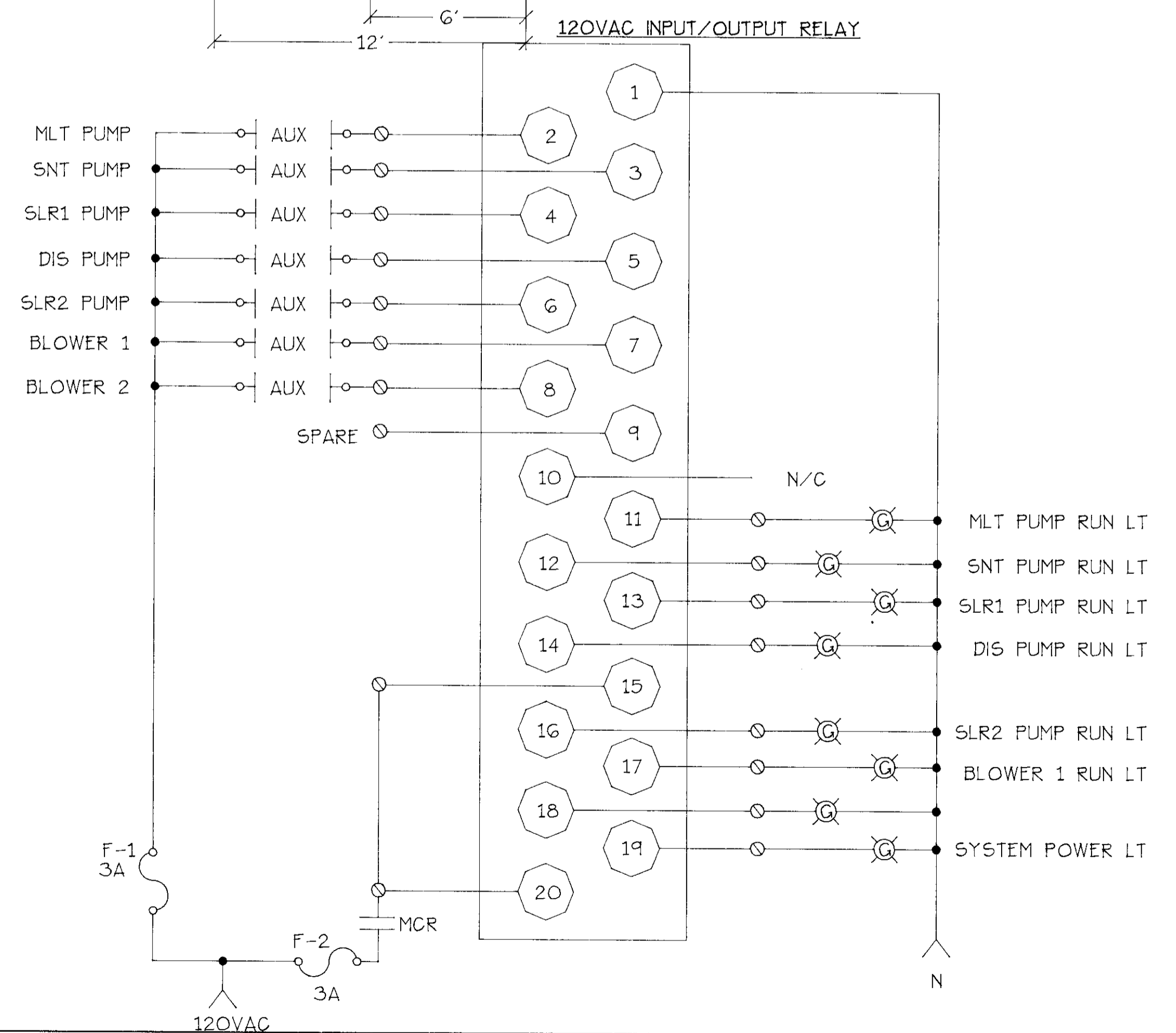
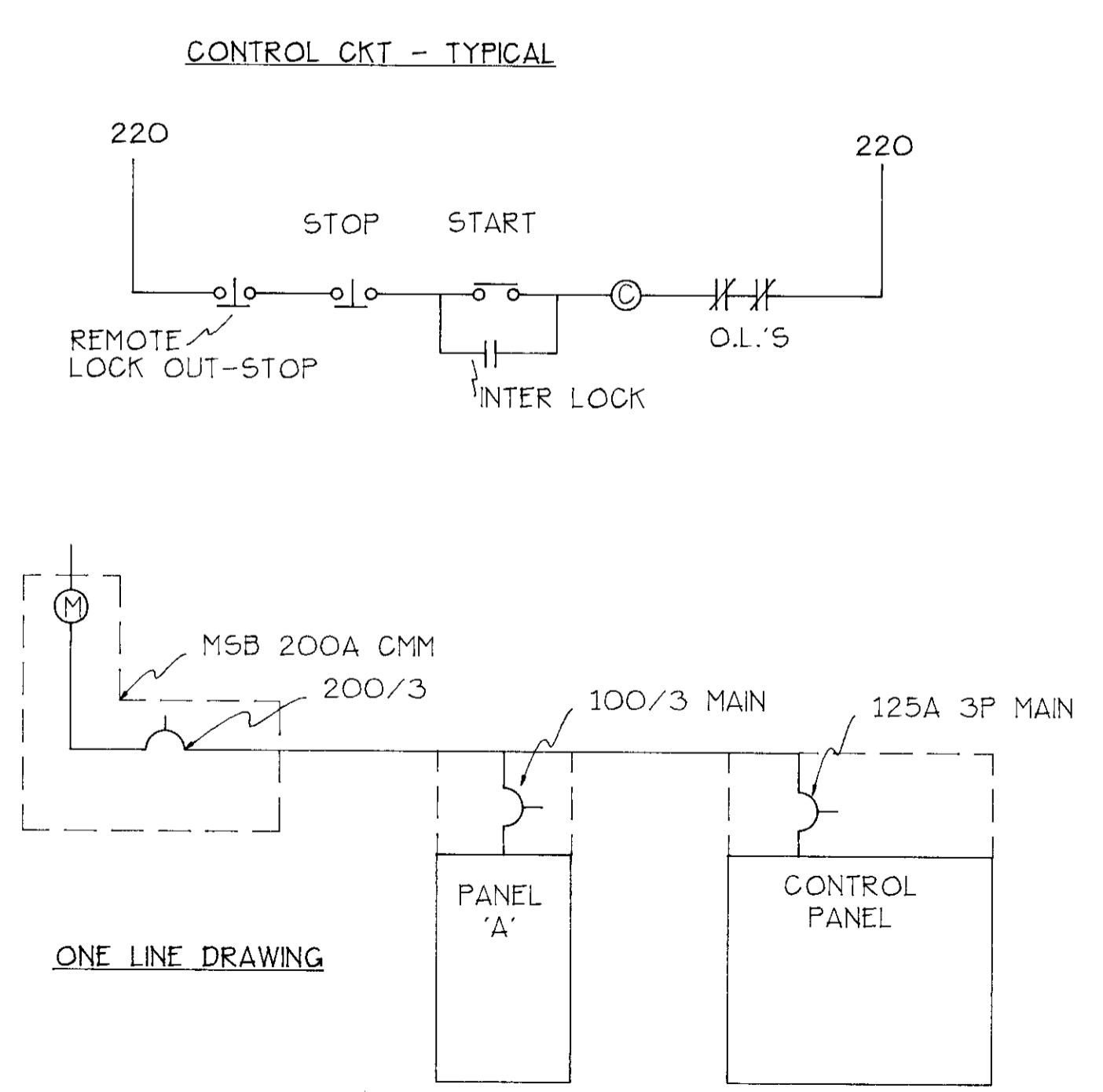
PANEL 'A' LOAD CALCULATIONS
TOTAL WATTS = 15,700 = 360 (3Φ)
= TOTAL LOAD OF 43.61 AMPS
+25% OF LARGEST MOTOR (5600W)
= 3.89 AMP
TOTAL AMPS = 47.50 AMPS

LOAD CALCULATIONS CONTROL PANEL
21,450 ÷ 360 = 59.58 AMPS
25% OF LARGEST MOTOR = 7500W ÷ 360
x.25(3Φ) = 5.21 AMPS
TOTAL AMPS = 78.61 AMPS

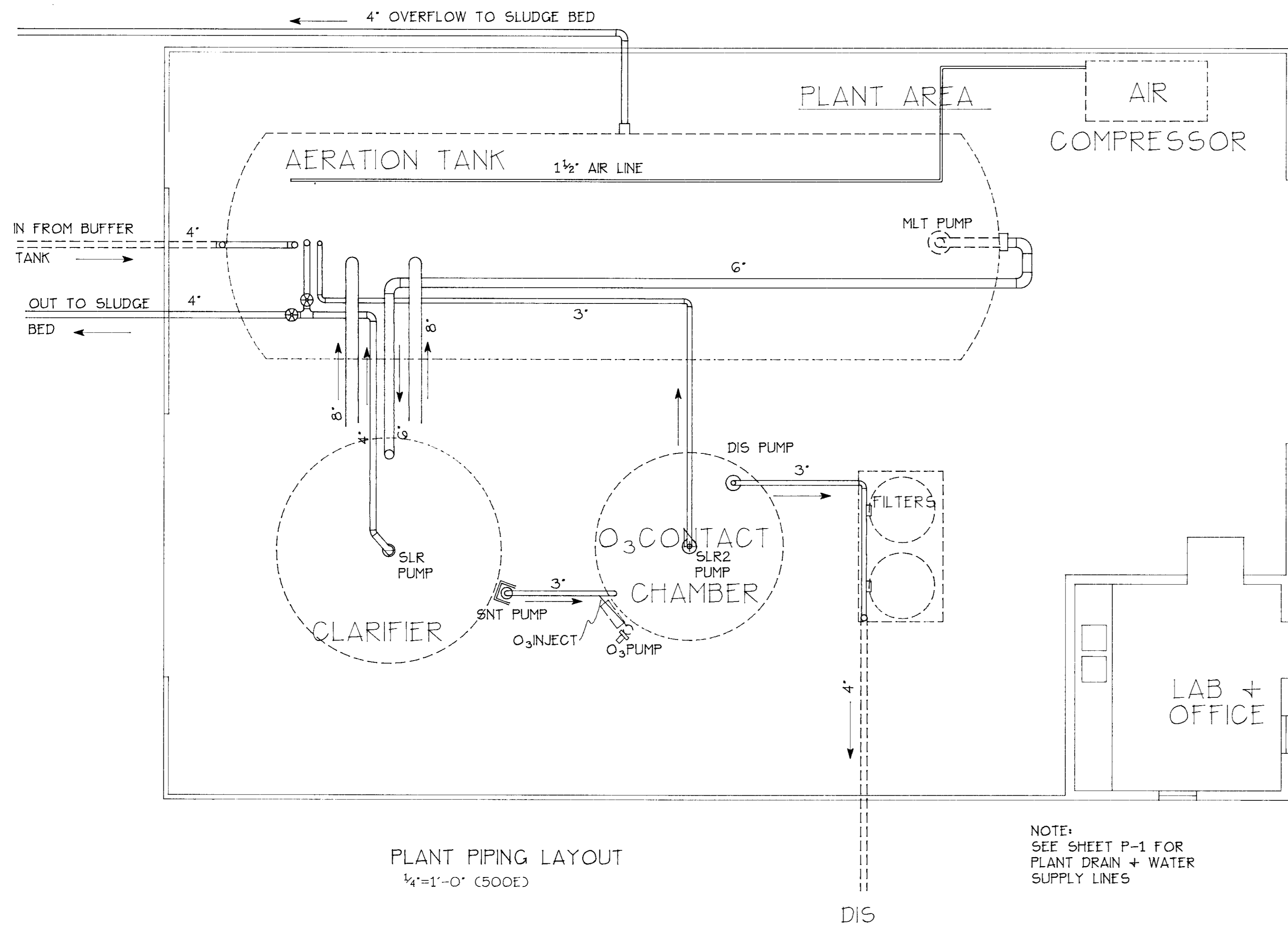
47.50 AMPS + 64.79 AMPS = 112.29 AMPS TOTAL LOAD
200 AMP SERVICE REQUIRED
FOR FUTURE EXPANSION

| PANEL A | | | | 10,000 MIN ISC CIRCUIT BKRS | | | |
|-------------------|------------------|------------------|----|--------------------------------|------------------|------------------|--------------------------|
| TYPE: LOAD CENTER | | | | 230 / 120 3Φ 4W | | | |
| TRIM: SURFACE | | | | 100 AMP MAIN BKR | | | |
| USE | K _V A | C _B | NO | NO | C _B | K _V A | USE |
| OUTSIDE LTS | 1.0 | 20 $\frac{1}{2}$ | 1 | 2 | 20 $\frac{1}{2}$ | .9 | OFFICE RECPTS |
| MICRO OVEN | 1.0 | | 3 | 4 | | 1.1 | SHOP LTS |
| LTS OFFICE | .2 | | 5 | 6 | | .90 | RECPTS SHOP |
| RECPTS SHOP | .90 | | 7 | 8 | 30 $\frac{1}{2}$ | 4.1 | O3-GENERATOR AND PUMP |
| OVER FLOW | | | 11 | 10 | | | FUTURE |
| LIFT PUMP | 5.6 | | 13 | 12 | | | |
| | | | 15 | 14 | | | |

FLOOR PLAN
1/4"=1'-0" (500E)



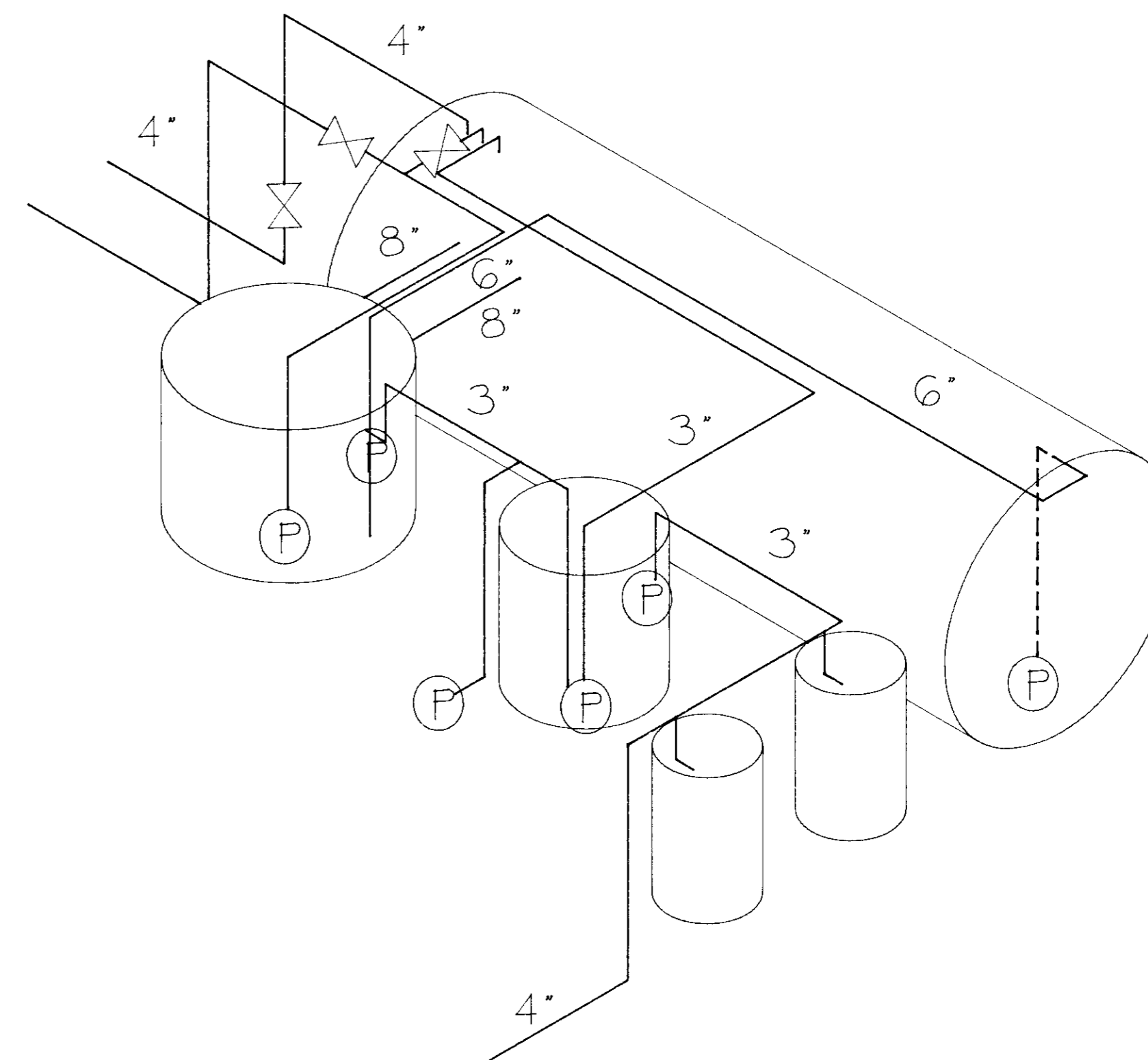
SU-2943



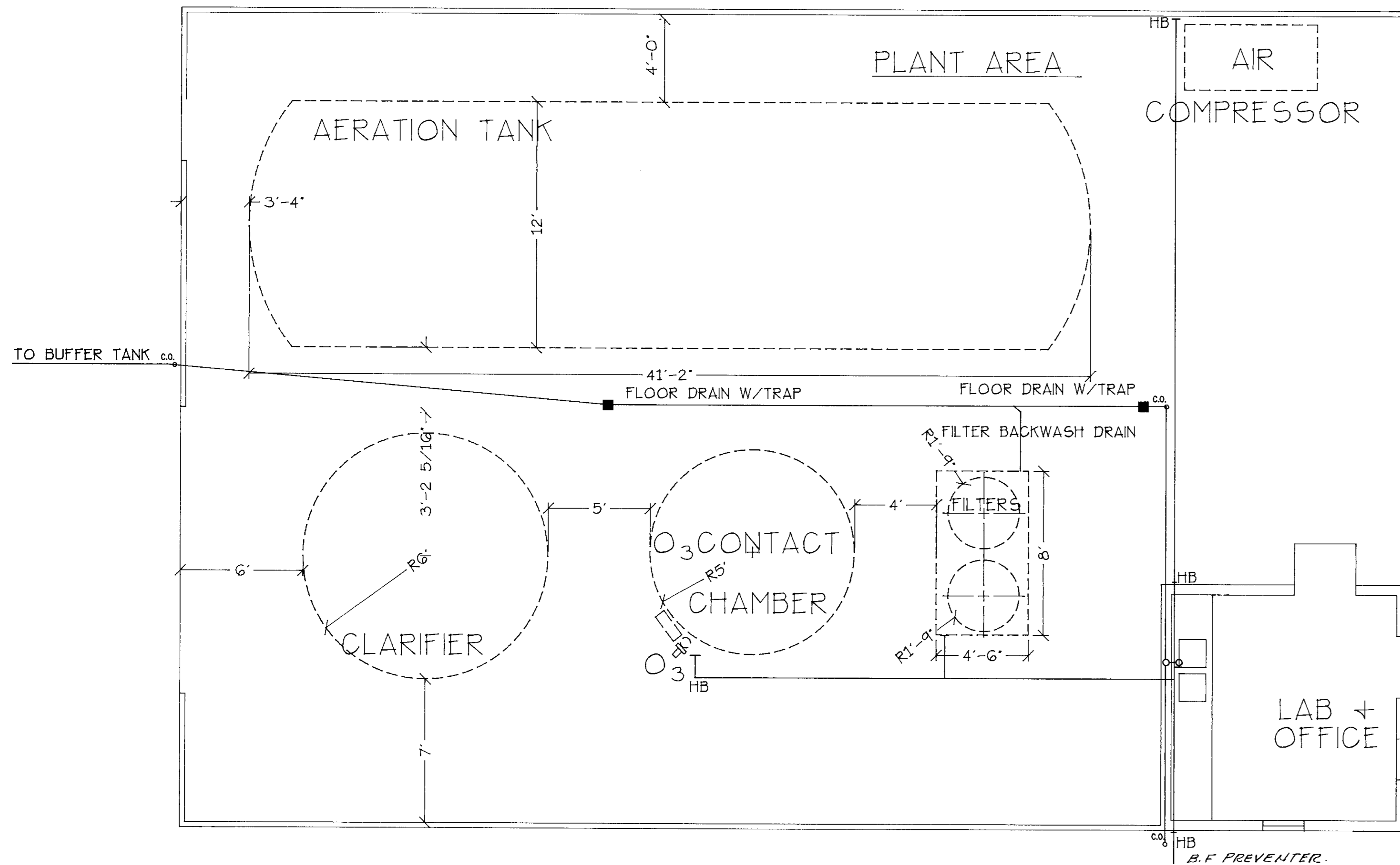
PLANT PIPING LAYOUT
1/4"=1'-0" (500E)

LEGEND

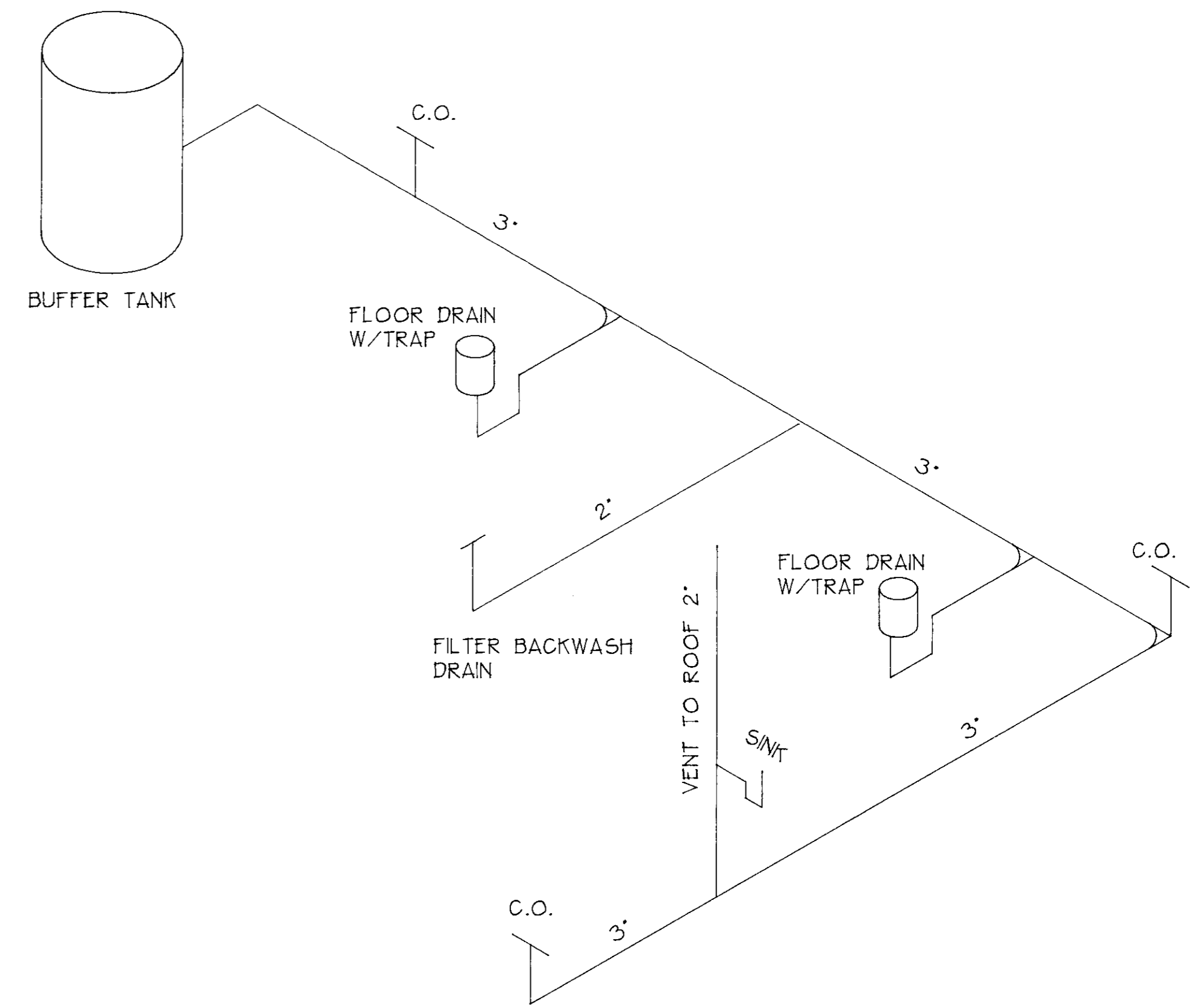
- MLT MIXED LIQUOR TRANSFER
- SNT SUPERNATANT TRANSFER
- SLR SLUDGE RETURN
- DIS DISCHARGE
- AGR AERATION



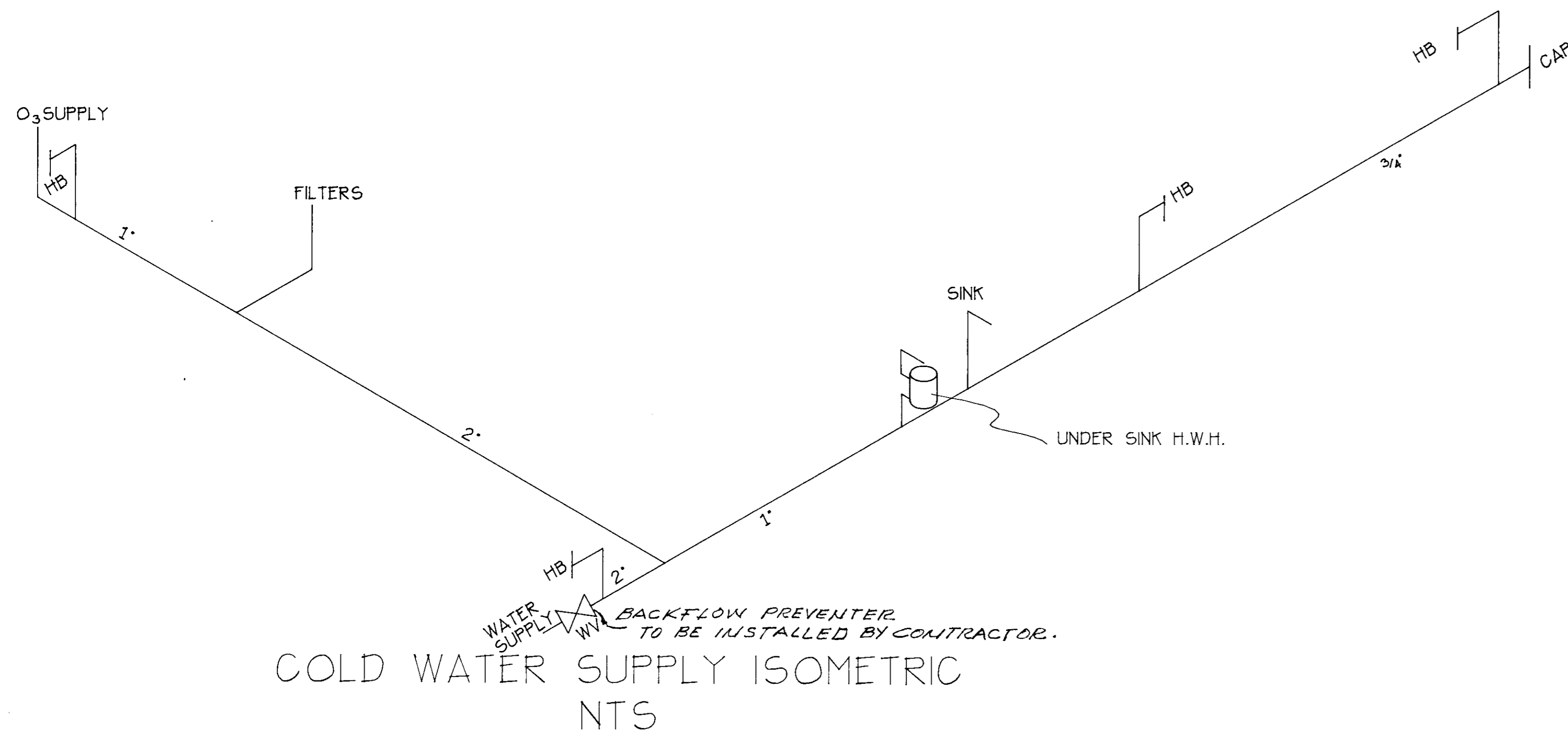
1. DRAWINGS ARE DIAGRAMATIC IN NATURE AND ARE NOT INTENDED TO BE AN EXACT REPRESENTATION OF THE FINAL PRODUCT.
2. ALL POSITIONS AND LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY ACTUAL CONDITIONS AND INTERFERENCES THAT MAY EXIST AT THE TIME OF INSTALLATION AND REROUTE, RELOCATE, OR MODIFY AS REQUIRED TO PROVIDE SYSTEMS CONSISTENT WITH THE INTENT OF THE DESIGN.
3. CONTRACTOR TO VERIFY ALL ROUTINGS AND DIMENSIONS FOR DISCREPANCIES BEFORE BEGINNING ANY WORK. ALL PLUMBING WORK TO CONFORM TO UPC 1994 REQUIREMENTS.
4. COORDINATE ALL WORK WITH OTHER CONTRACTORS.
5. ALL PIPES CONNECTION TO TANKS TO BE OF SCHEDULE 80
6. ALL JOINTS ON SCHEDULE 40 PIPE TO BE OF SCHEDULE 80
7. ALL RIGID P.V.C. PIPE SHALL BE CUT, MADE UP, AND INSTALLED IN ACCORDANCE WITH THE PIPE MANUFACTURERS RECOMMENDATIONS



WATER SUPPLY AND DRAIN LAYOUT
1/4"=1'-0" (500E)



D.W.+V. ISOMETRIC
NTS



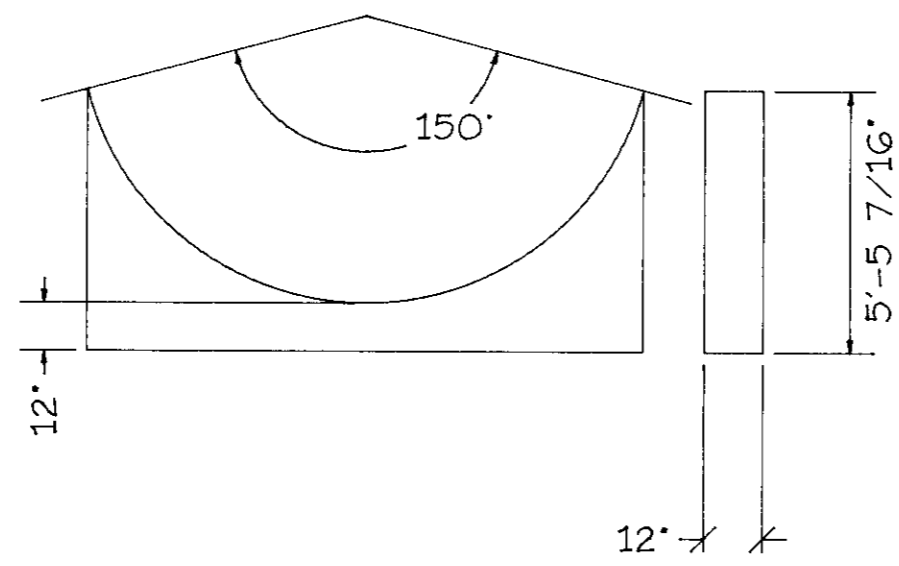
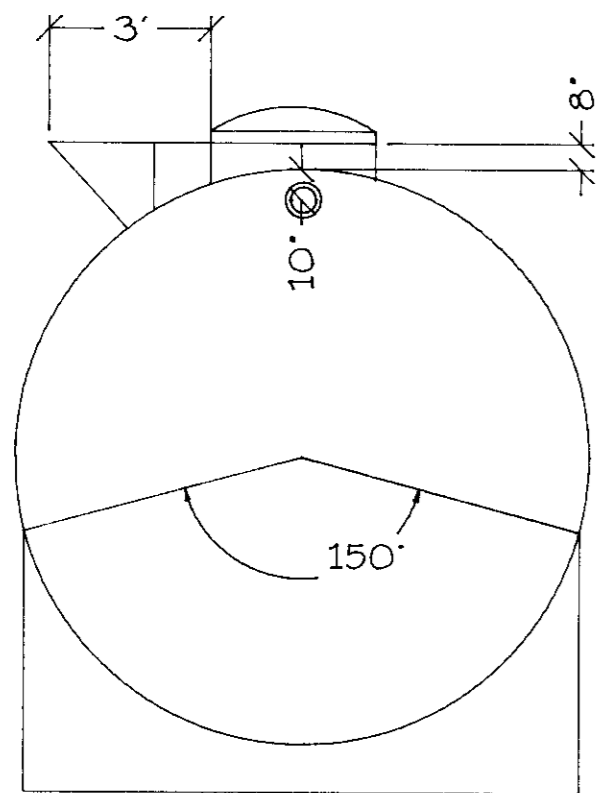
COLD WATER SUPPLY ISOMETRIC
NTS

1. DRAWINGS ARE DIAGRAMATIC IN NATURE AND ARE NOT INTENDED TO BE AN EXACT REPRESENTATION OF THE FINAL PRODUCT.
2. ALL POSITIONS AND LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY ACTUAL CONDITIONS AND INTERFERENCES THAT MAY EXIST AT THE TIME OF INSTALLATION AND REROUTE, RELOCATE, OR MODIFY AS REQUIRED TO PROVIDE SYSTEMS CONSISTENT WITH THE INTENT OF THE DESIGN.
3. CONTRACTOR TO VERIFY ALL ROUTINGS AND DIMENSIONS FOR DISCREPANCIES BEFORE BEGINNING ANY WORK. ALL PLUMBING WORK TO CONFORM TO UPC 1994 REQUIREMENTS.
4. COORDINATE ALL WORK WITH OTHER CONTRACTORS.
5. ALL DRAIN LINES SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT.
6. ALL WASTE AND VENT PIPING TO BE CAST IRON.
7. HOSE BIBBS SHALL BE EQUIPPED WITH VACUUM RELIEF VALVES.

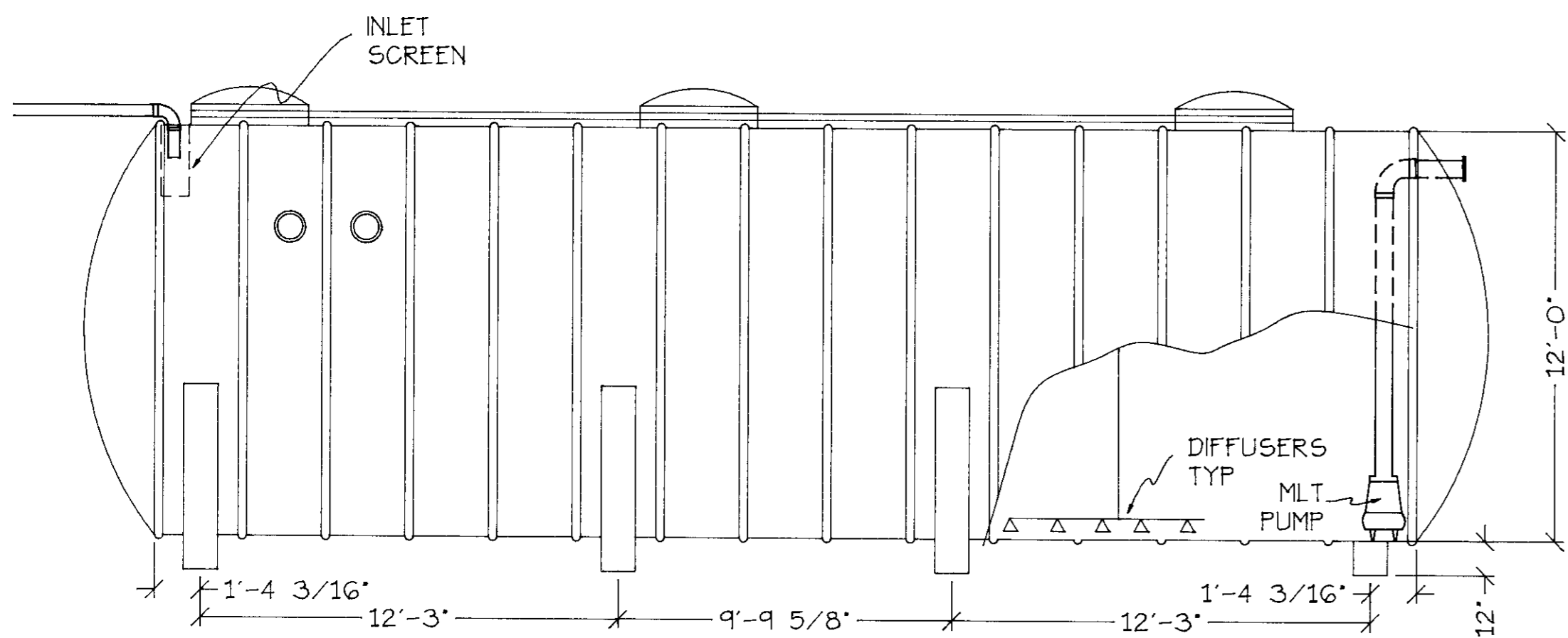
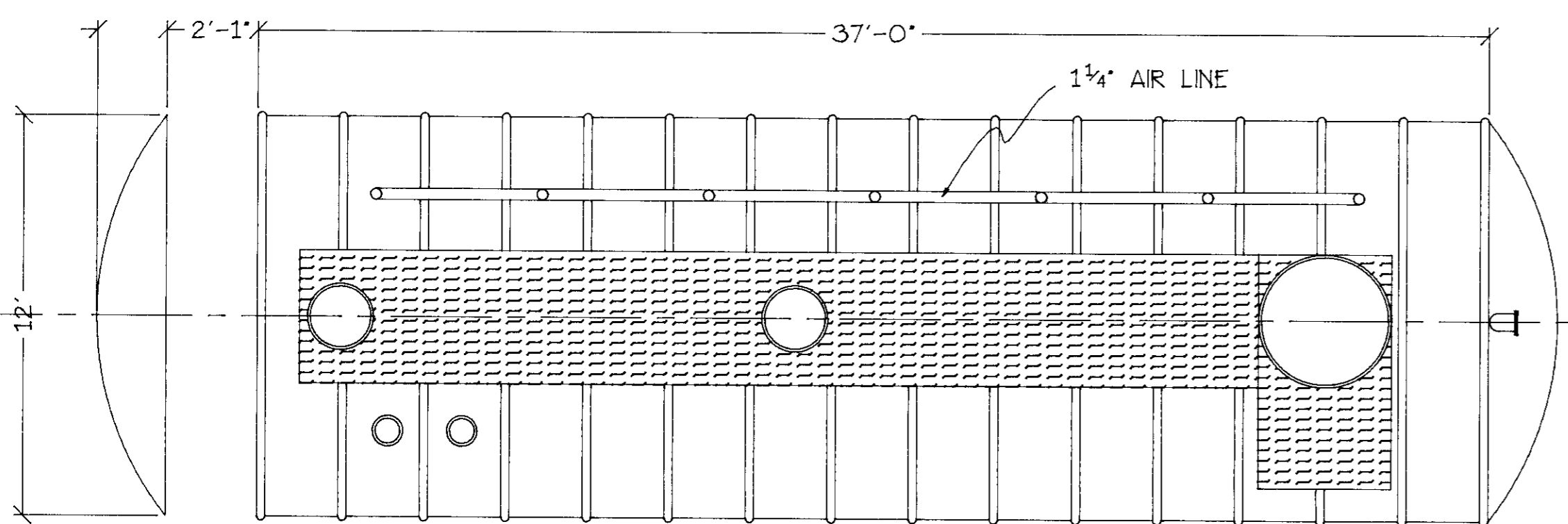
AERATION REACTOR

VOLUMES

| GPD | MODEL # | TOTAL CAPACITY | STANDBY | TRANSIENT | RESERVE | S |
|-----|---------|----------------|------------|------------|------------|----|
| | | GALLONS V1 | GALLONS V2 | GALLONS V3 | GALLONS V4 | IN |
| 50K | | | | | | |



SADDLE

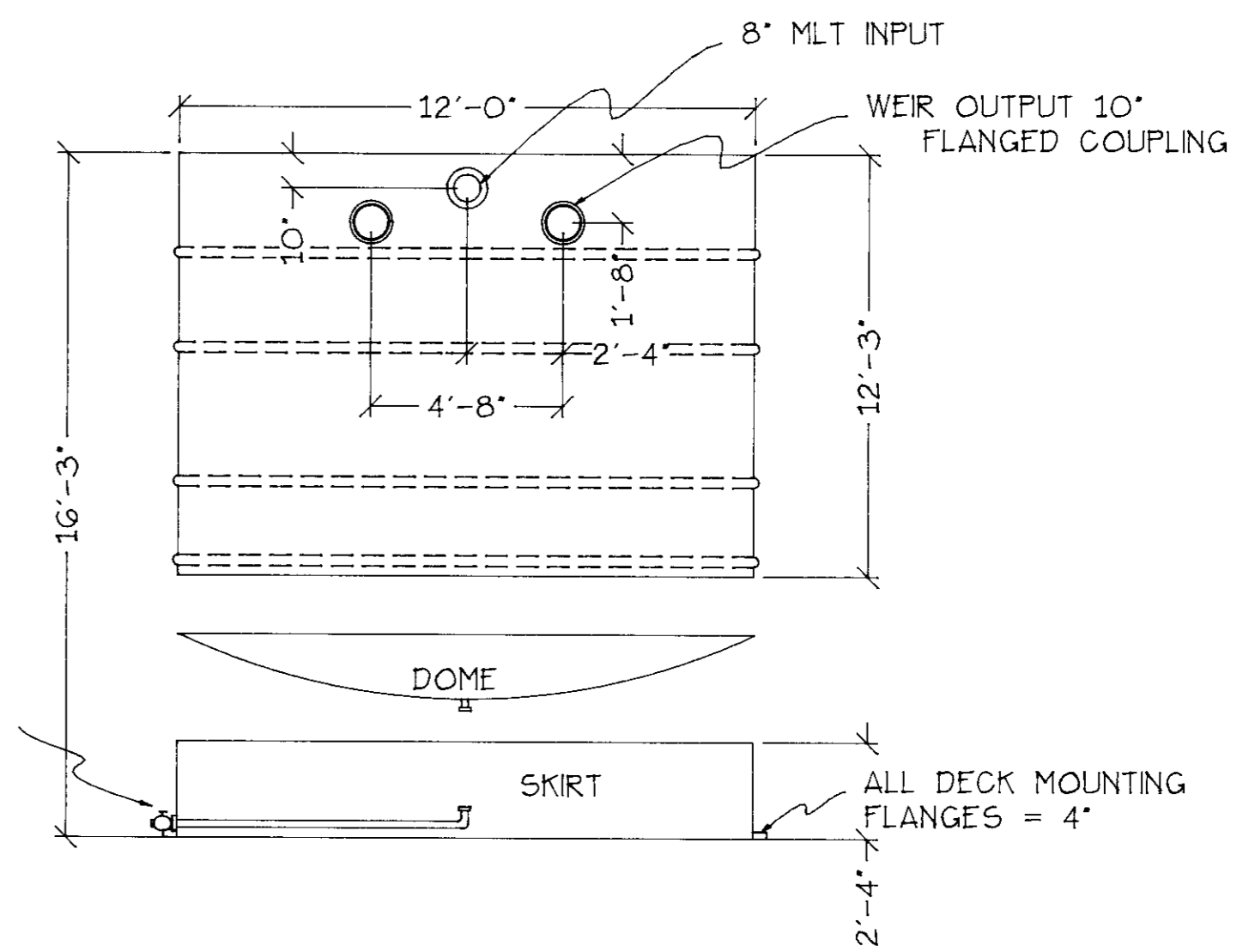
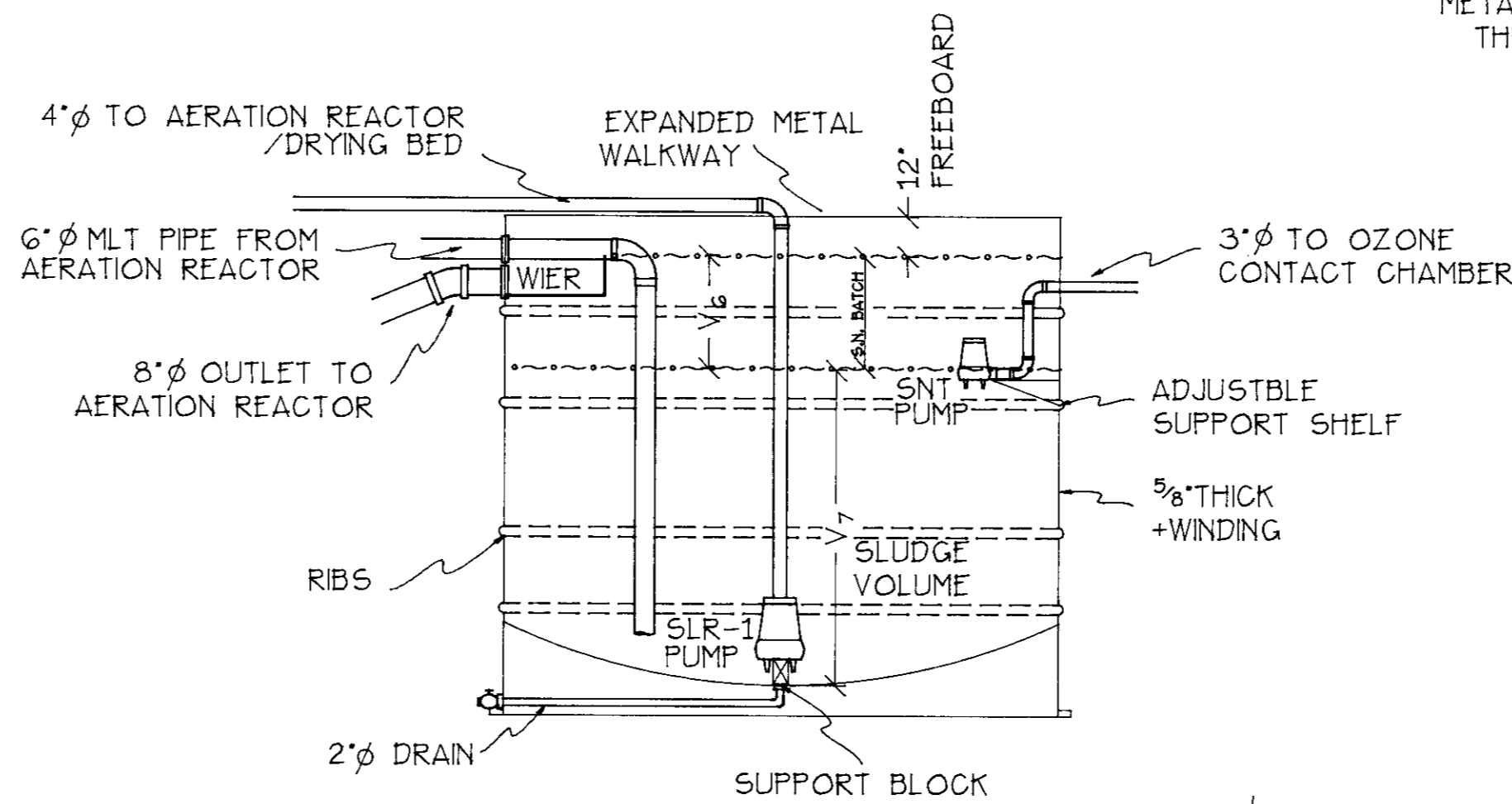
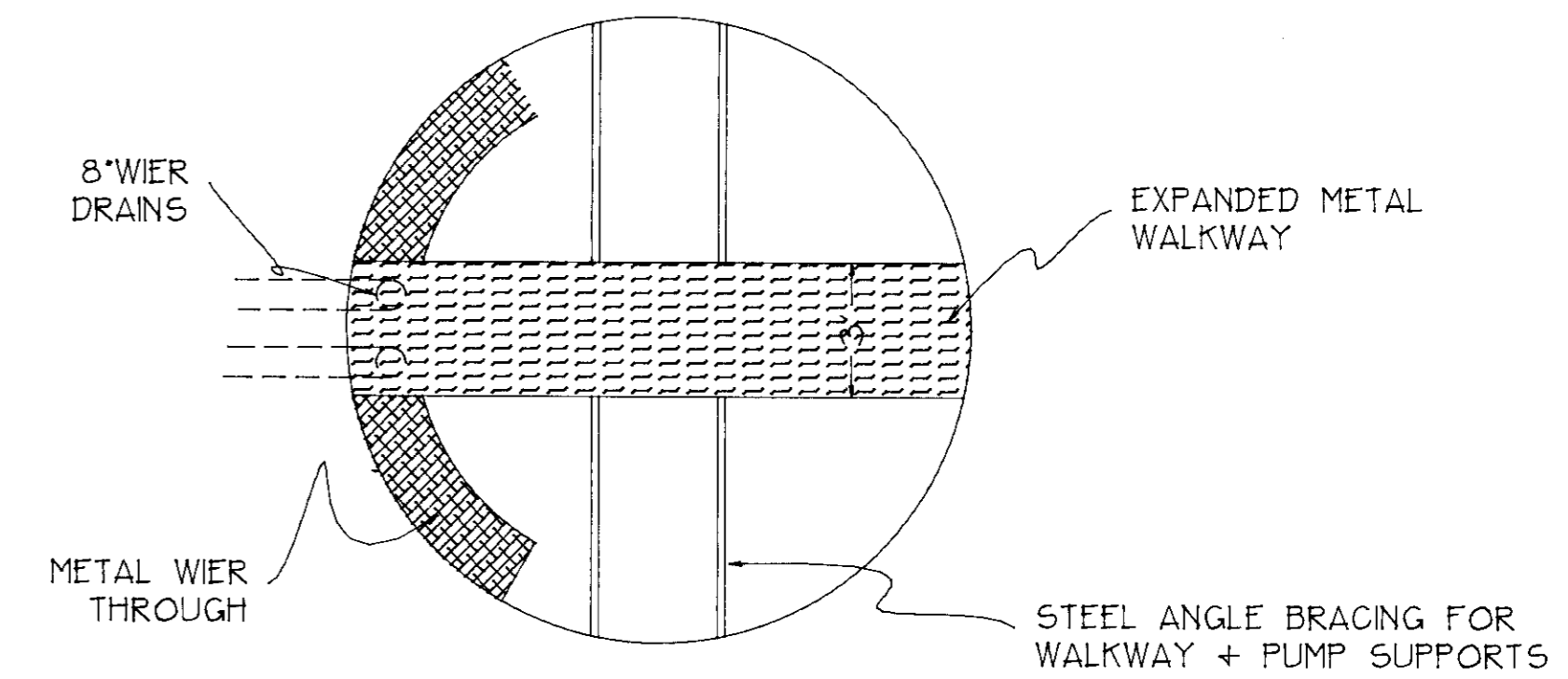


AERATION REACTOR

CLARIFIER

VOLUMES

| GPD | MODEL # | TOTAL CAPACITY | OPP. VOL | SNT VOL | SL RET | VOL SL WAST |
|-----|---------|----------------|----------|------------|------------|-------------|
| | | GALLONS V5 | GALLONS | GALLONS V6 | GALLONS V7 | |
| 50K | 500E | 11,905 | 10,823 | 3,607 | 7,215 | 361 |

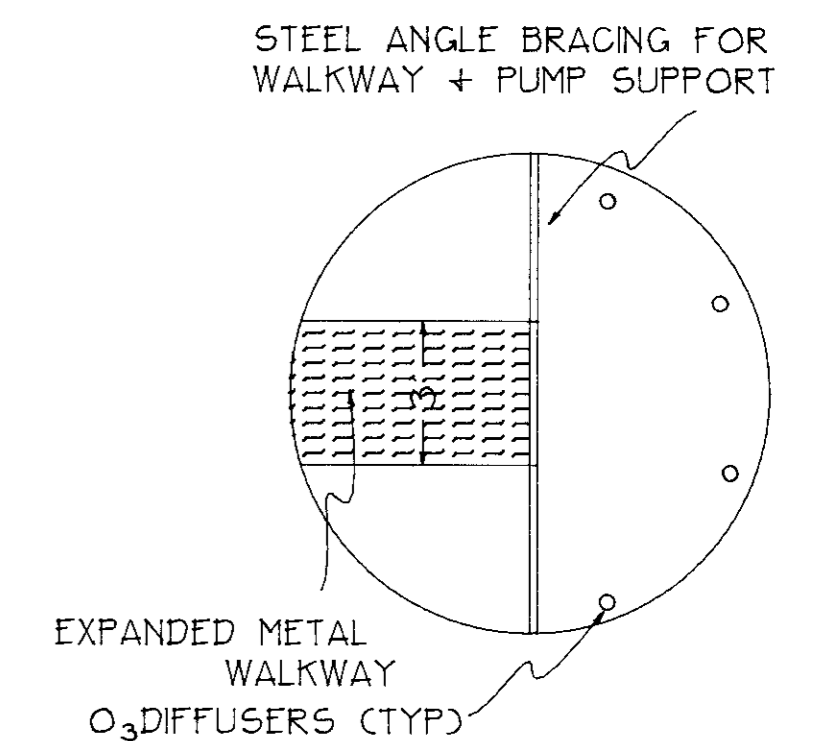
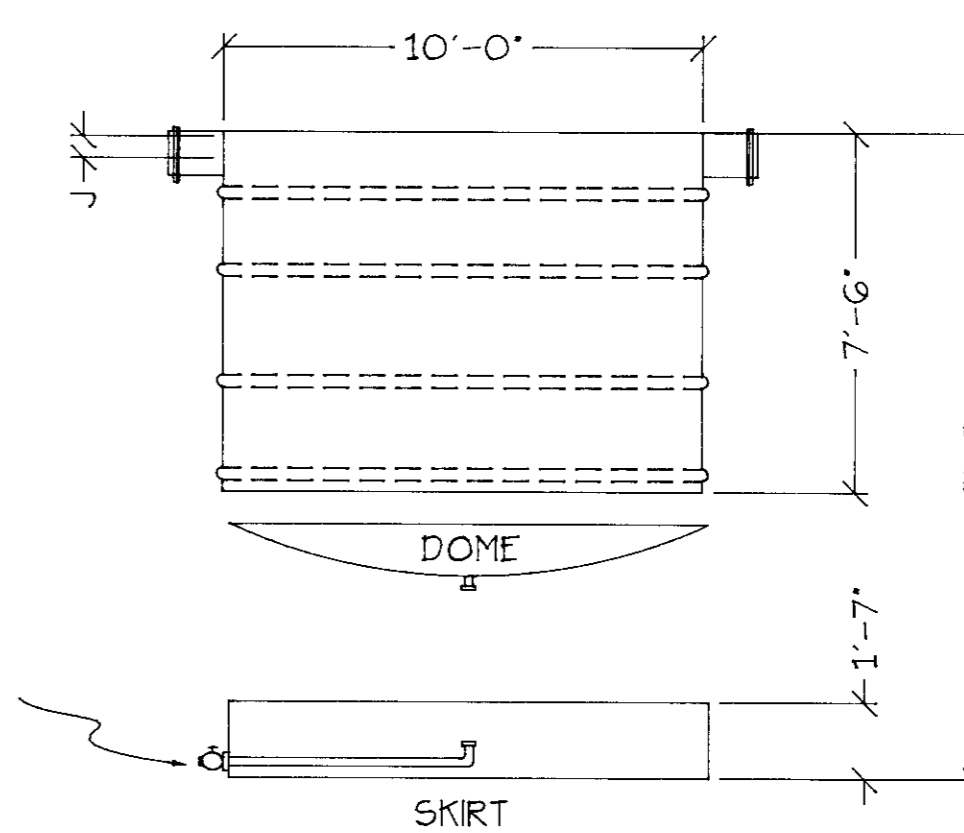
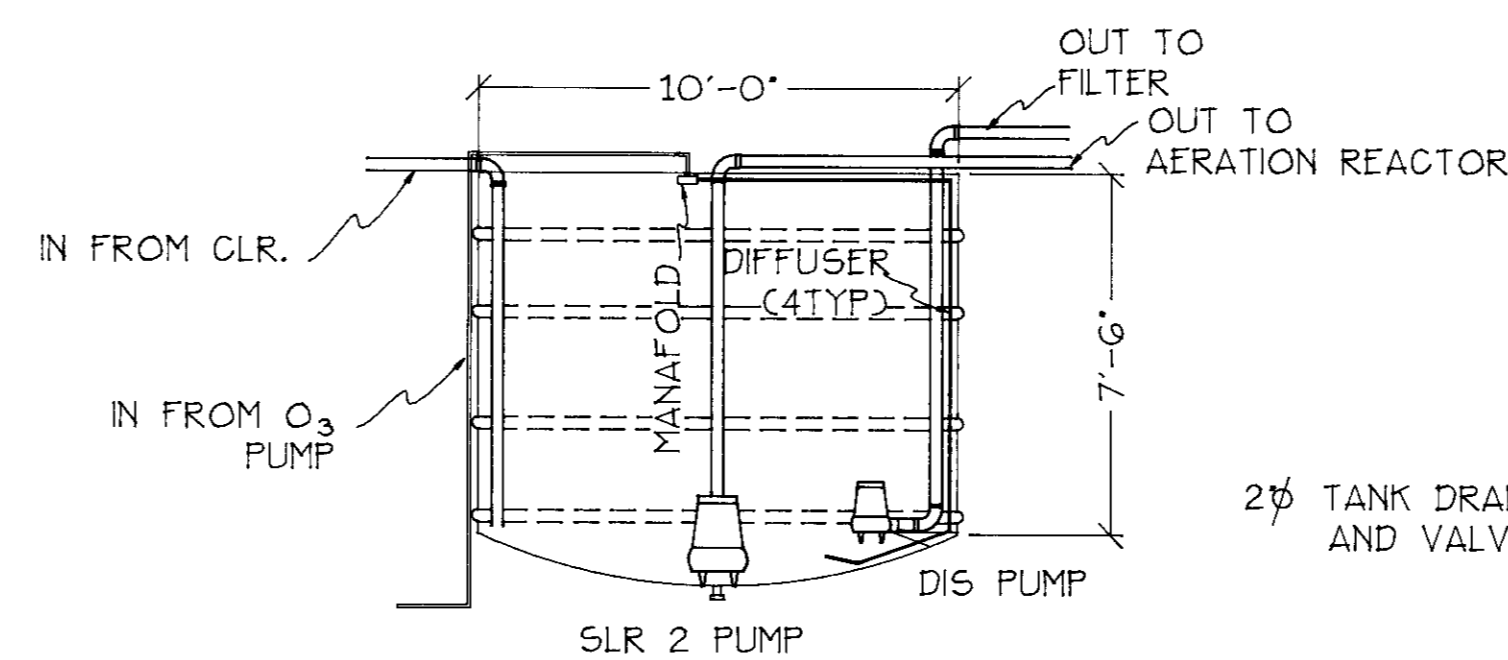


CLARIFIER

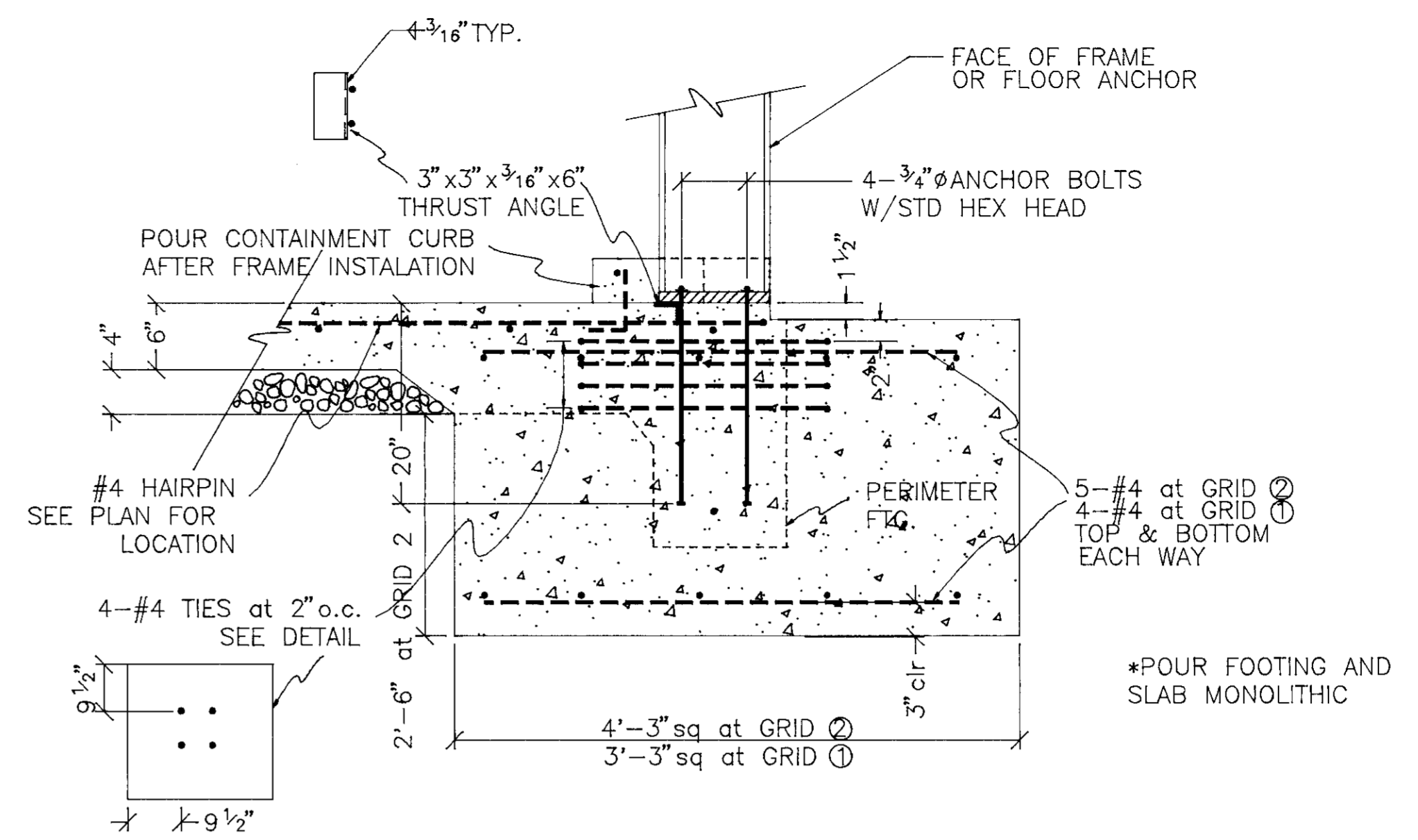
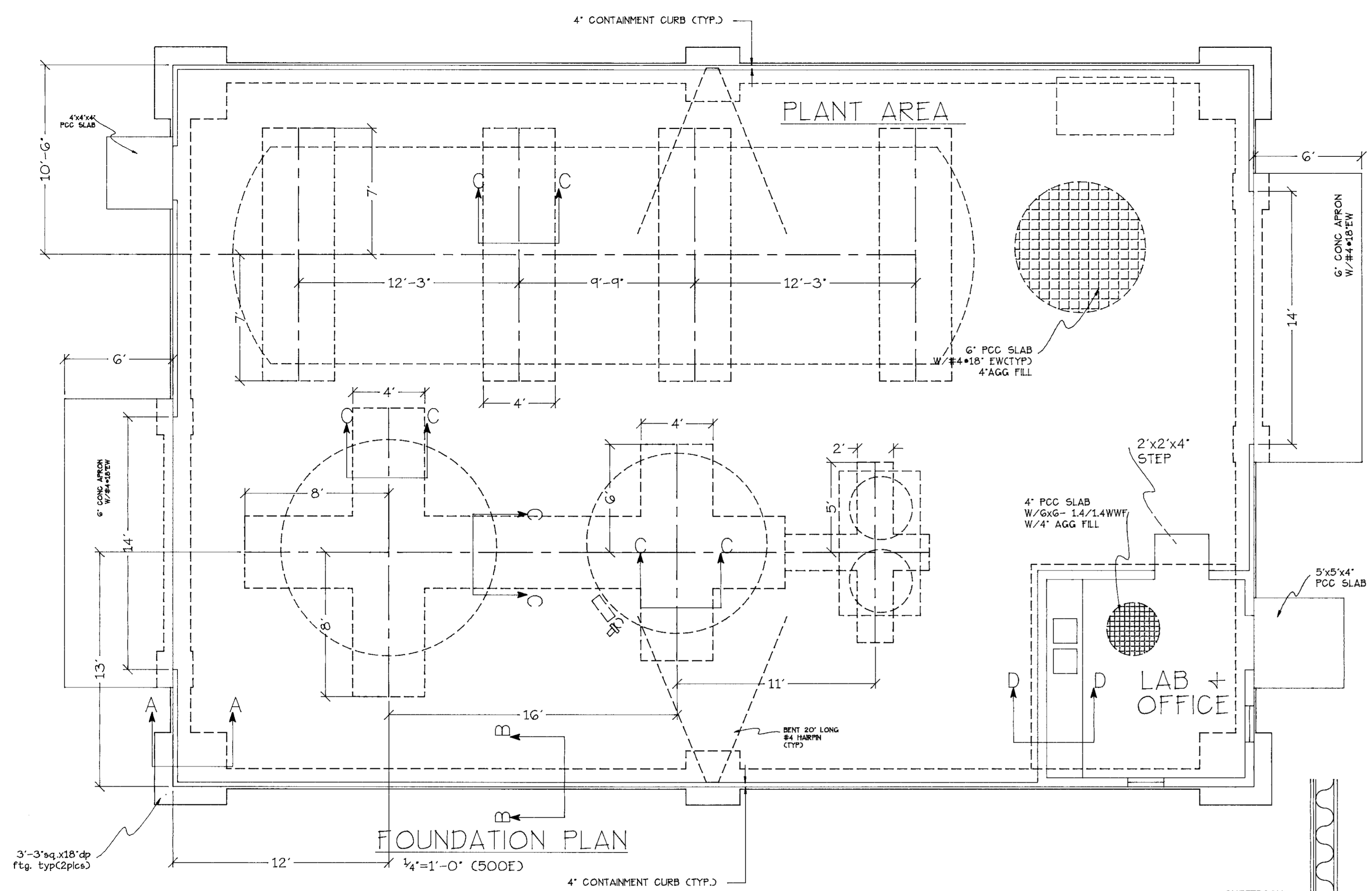
CONTACT CHAMBER

VOLUMES

| GPD | MODEL # | TOTAL CAPACITY | OPP. VOL | SNT VOL | SL RET | VOL SL WAST |
|-----|---------|----------------|----------|------------|------------|-------------|
| | | GALLONS V5 | GALLONS | GALLONS V6 | GALLONS V7 | |
| 50K | 500E | 4,690 | 3,427 | 180 | 1,082 | 7.02 |

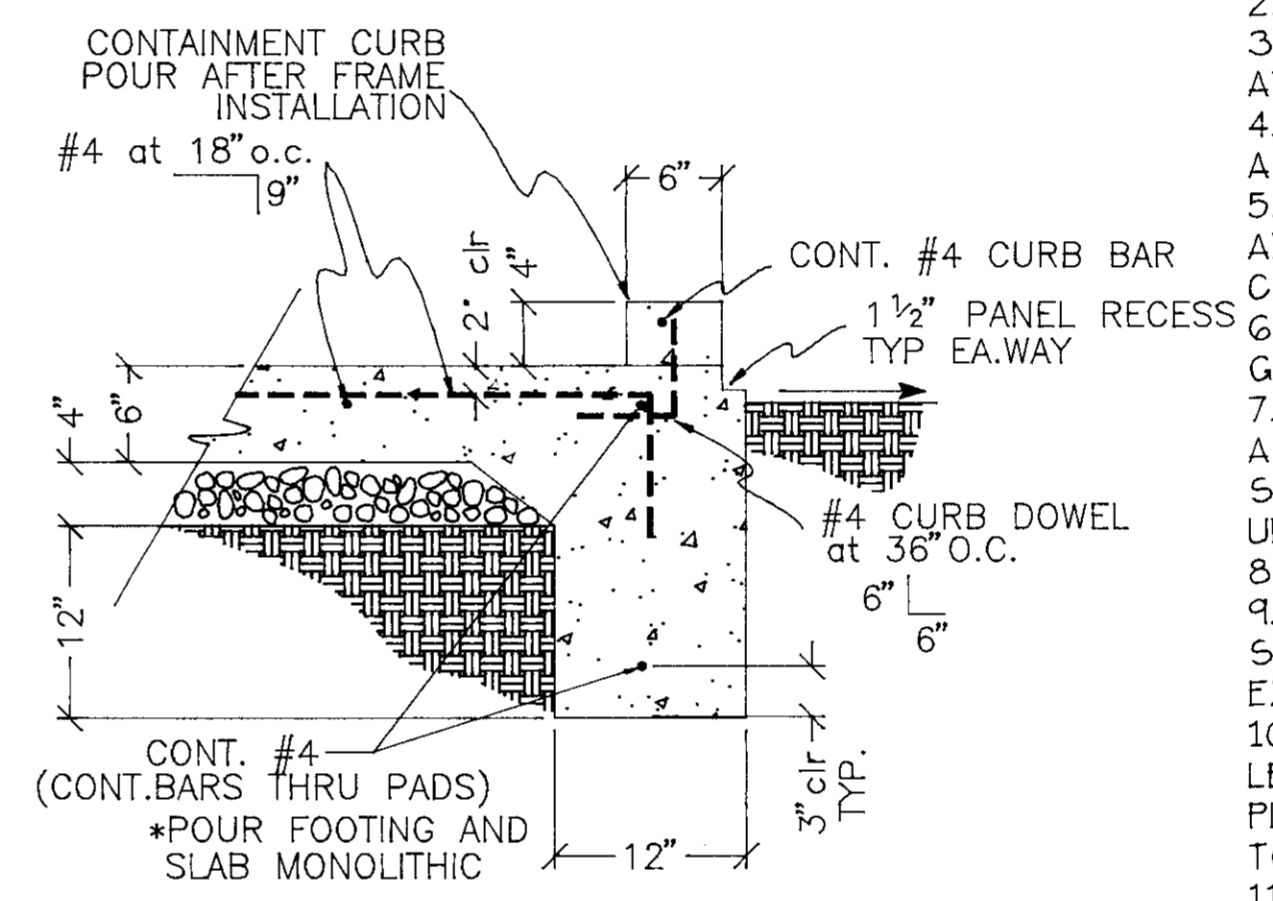


CONTACT CHAMBER



COLUMN FTG.

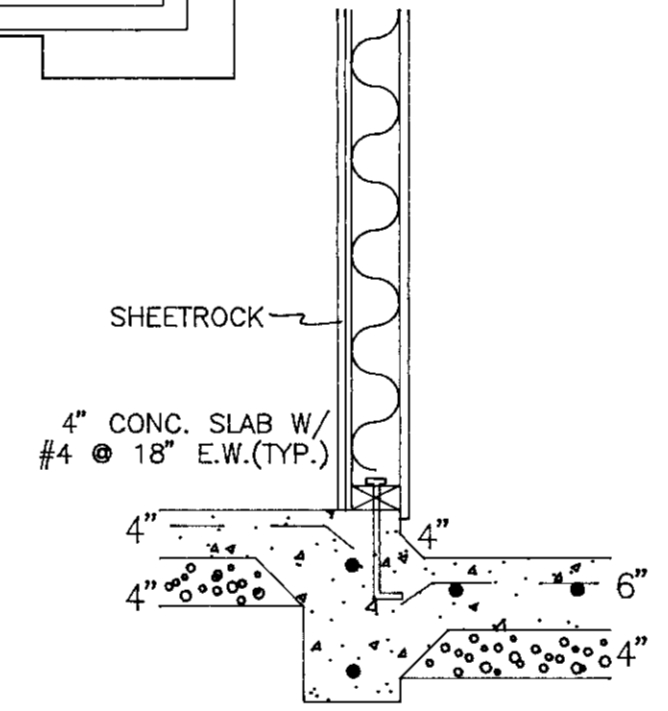
SECTION A



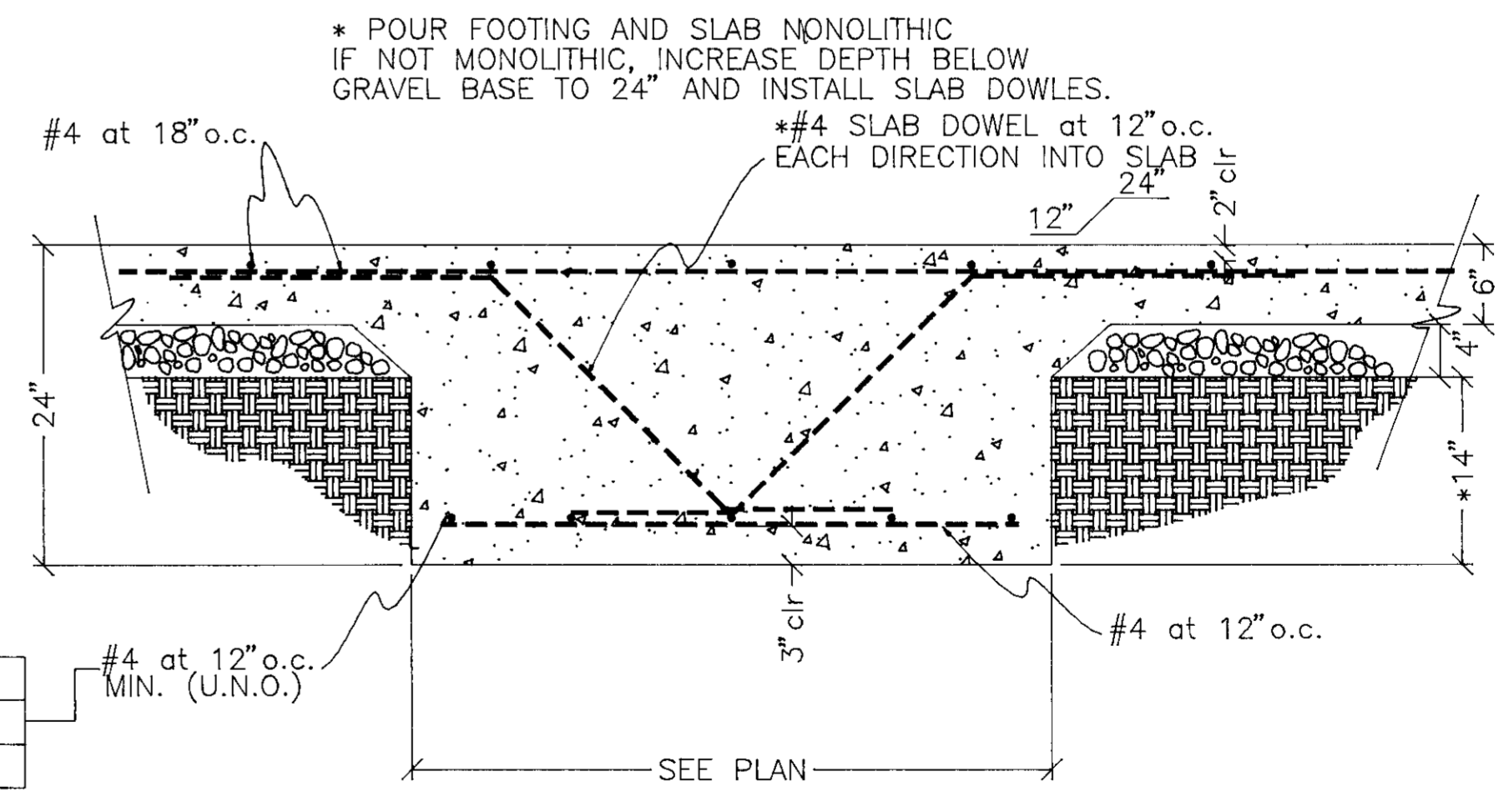
PERIMETER FTG.

SECTION B

- FOUNDATION NOTES:**
- SEE SOILS REPORT (DATED 4/14/94) BY QUALITY CONTROL INSPECTION INC. FOR GRADING, COMPACTION, AND RELATED EARTHWORK REQUIREMENTS. FOUNDATIONS AND SLABS REQUIRE SPECIAL PREPARATION PER THE REPORT.
 - ALLOWABLE SOIL PRESSURE = 1500psf/2000psf @_{depth}
 - CONCRETE FOOTING AND SLAB TO BE 2500 P.S.I. MIN. AT 28 DAYS.
 - REINFORCING STEEL SHALL CONFORM TO A.S.T.M. A-615-GRADE 40. ALL LAPS 24" MIN. INCLUDING CORNERS.
 - CONTRACTOR TO VERIFY ALL METAL BUILDING AND TANK ANCHOR BOLT DIMENSIONS AND LOCATIONS PRIOR TO POURING CONCRETE FOOTINGS AND SLAB.
 - ALL METAL BUILDING AND TANK ANCHOR BOLTS TO BE GALVANIZED.
 - WHERE PRACTICABLE, EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE FOOTING. NO MATERIAL SHALL BE EXCAVATED UNNECESSARILY. POUR AGAINST UNDISTURBED SOIL.
 - BOTTOMS OF ALL FOOTINGS SHALL BE LEVEL.
 - EARTH FORMS MAY BE USED FOR FOOTINGS ONLY WHERE SOIL IS FIRM AND STABLE AND CONCRETE WILL NOT BE EXPOSED. ALL FOOTING WALLS SHALL BE FORMED.
 - FORMS SHALL BE SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OF GROUT AND CEMENT PASTE DURING CONCRETE PLACEMENT AND SHALL BE READILY REMOVABLE WITHOUT DAMAGE TO CONCRETE.
 - FORM WORK MAY BE REMOVED WHEN HARDENING OF CONCRETE IS SUFFICIENT TO RESIST DAMAGE FROM REMOVAL.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
 - ALL CONCRETE AND REINFORCEMENT SHALL CONFORM TO THE LATEST EDITION OF THE ACI CODE.
 - CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II.
 - CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33.

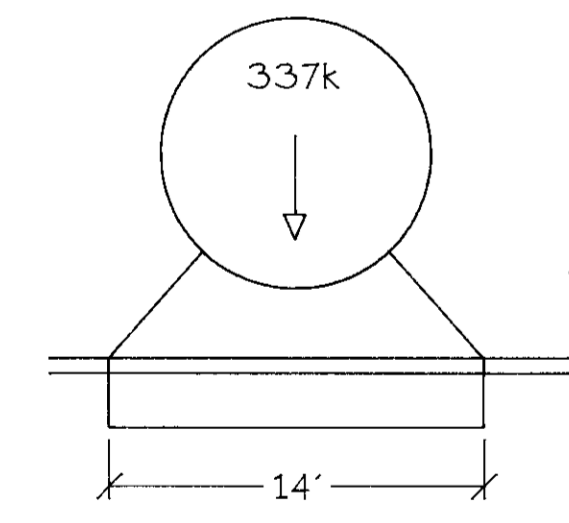


INTERNAL LAB WALL SECTION D



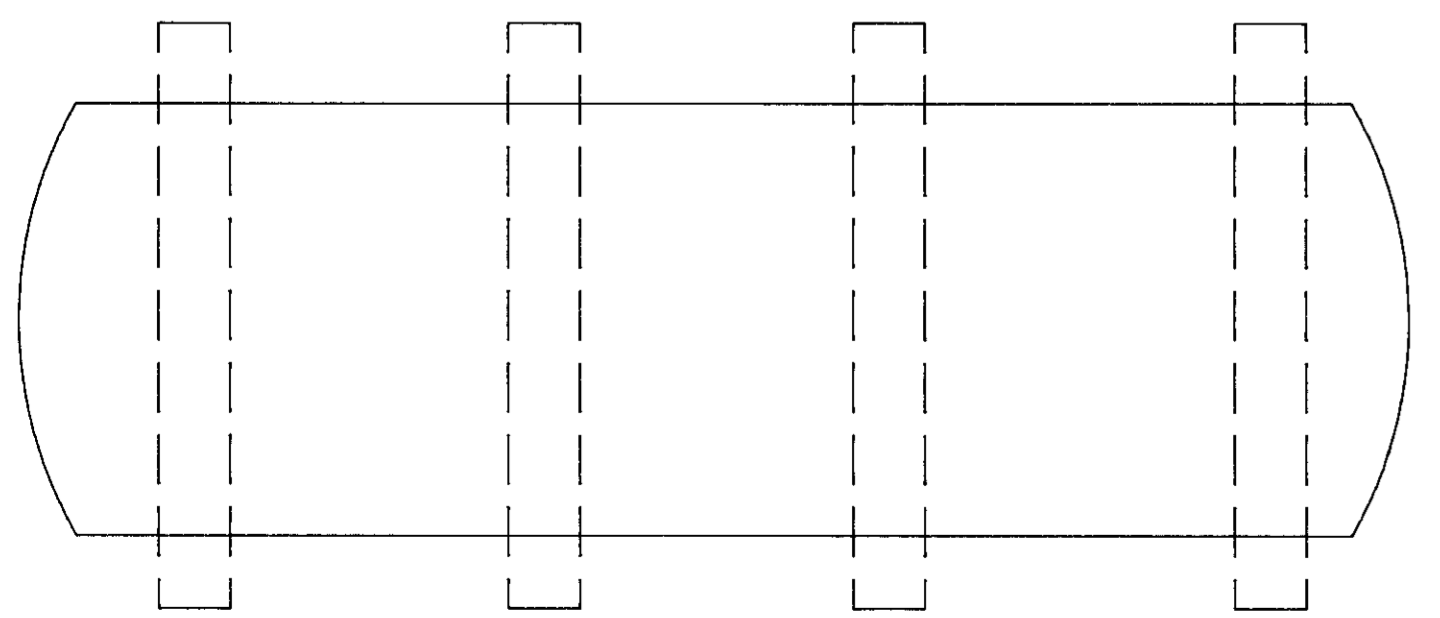
EQUIPMENT FTG.

SECTION C



AERATION REACTOR

VOL = 33,300 gal
12' DIA x 41'-2"
WT = 337k

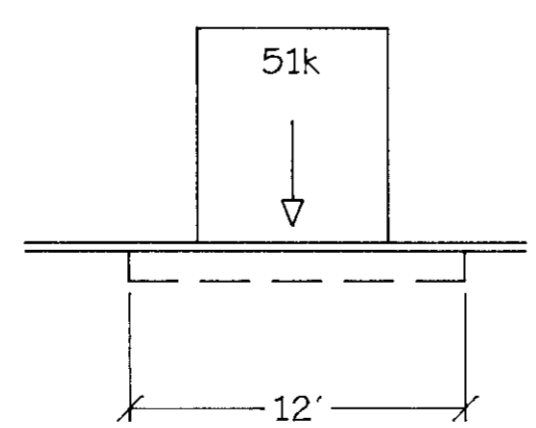


CLARIFIER

VOL = 11,905 gal
12' DIA x 16'-3"
WT = 139k

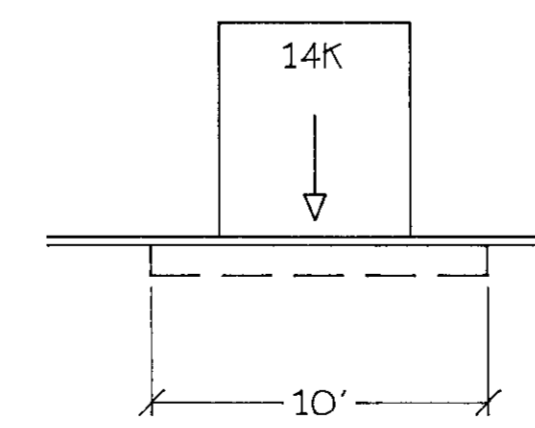
O₃ CONTACT CHAMBER

VOL = 4690 gal
10' DIA x 7'-6"
WT = 51k



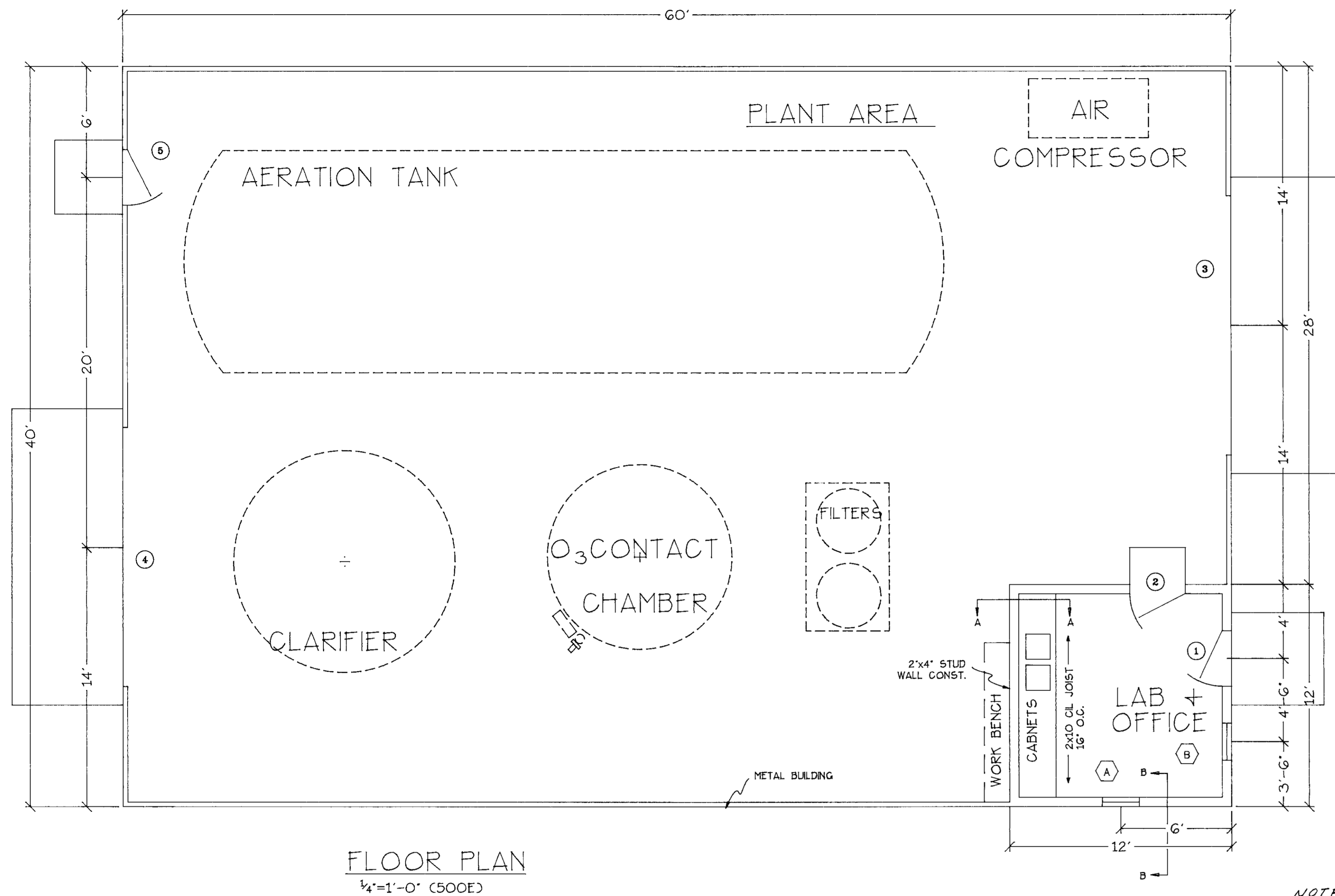
FILTERS

VOL = 6,850 gal ea.
TOTAL WT = 13,700 lbs



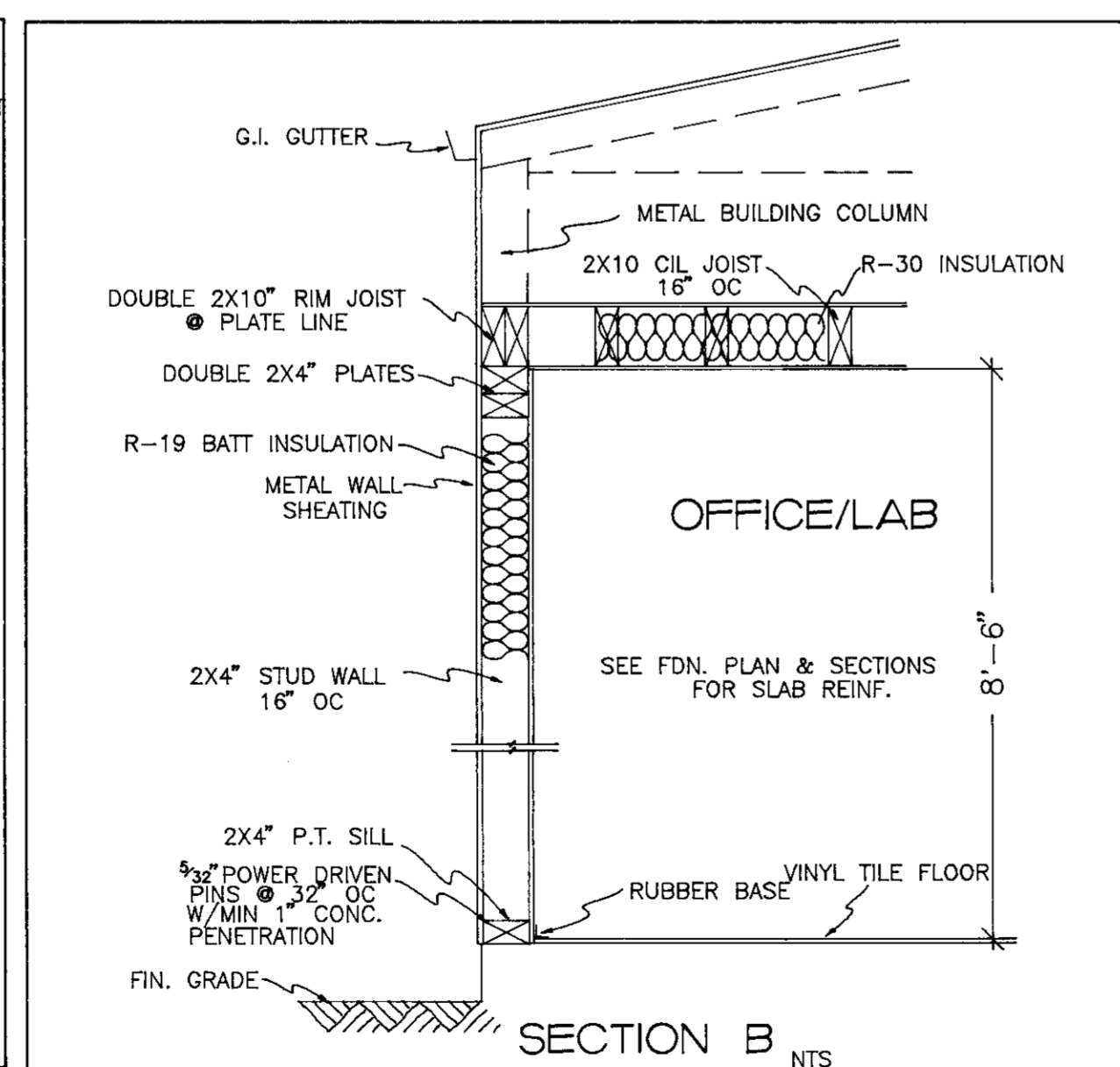
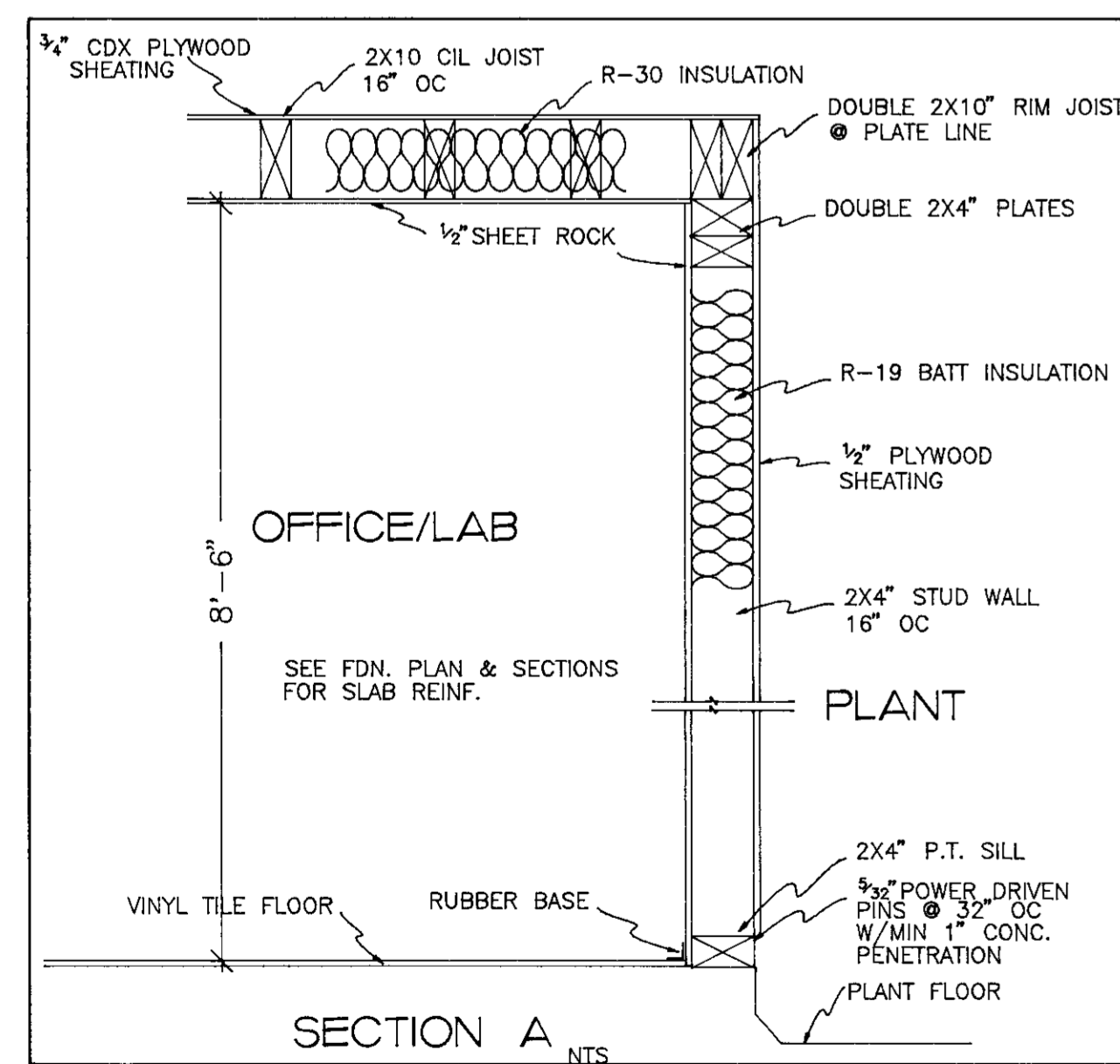
- 5-#4min. ①
- #5 at 6" o.c. ②
- #5 min ③
- 4-#4min. ④
- 3-#4min. ⑤

#4 at 12" o.c. MIN. (U.N.O.)



FLOOR PLAN
1/4"=1'-0" (500E)

NOTE: office/laboratory to be adequately supplied to perform the day to day test to keep the plant in conformance with water quality requirements.



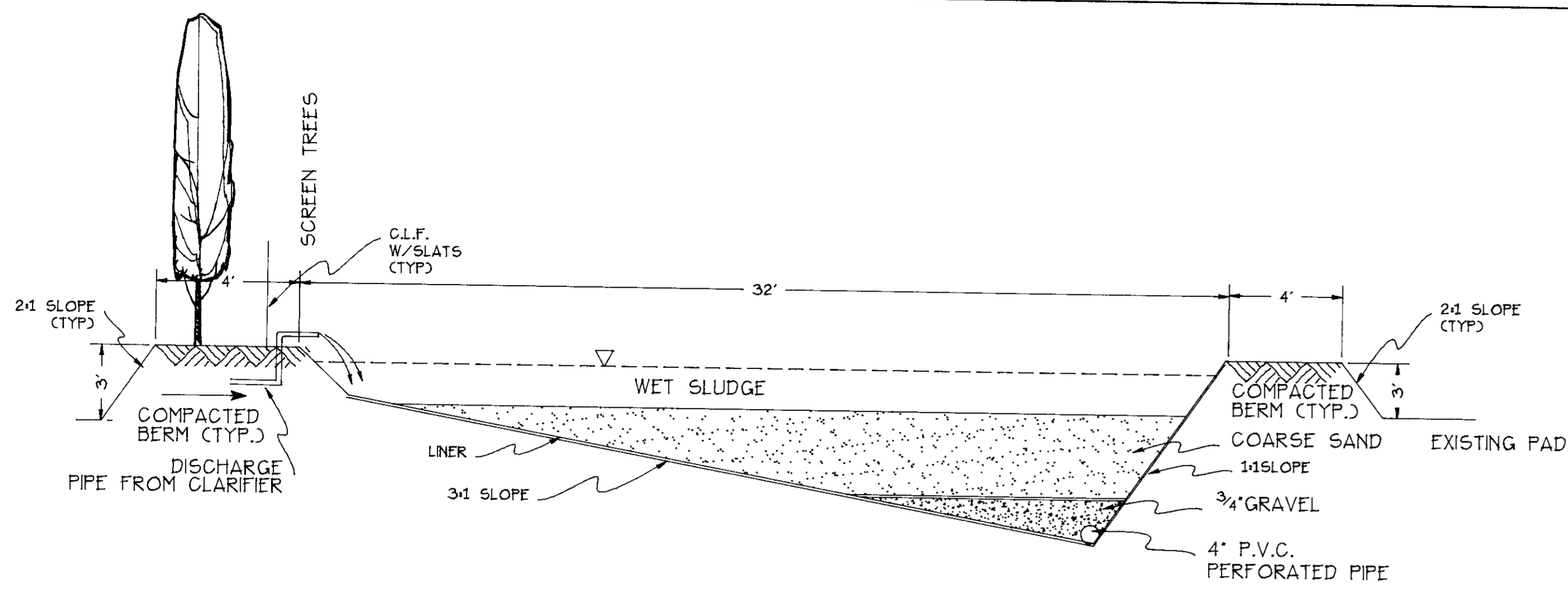
DOOR SCHEDULE

| SYM. | WIDTH | HEIGHT | TYPE | REMARKS |
|------|--------|--------|-------|---------|
| ① | 3'-0" | 6'-8" | METAL | S. COR |
| ② | 3'-0" | 6'-8" | WOOD | S. COR |
| ③ | 14'-0" | 14'-0" | METAL | ROLLUP |
| ④ | 15'-0" | 15'-0" | METAL | ROLLUP |
| ⑤ | 3'-0" | 6'-8" | METAL | S. COR |

WINDOW SCHEDULE

| SYM. | WIDTH | HEIGHT | FRAME | REMARKS |
|------|-------|--------|------------|-----------|
| A | 4'-0" | 3'-0" | ALUM FRAME | DBL GLAZ. |
| B | 3'-0" | 3'-0" | ALUM FRAME | DBL GLAZ. |

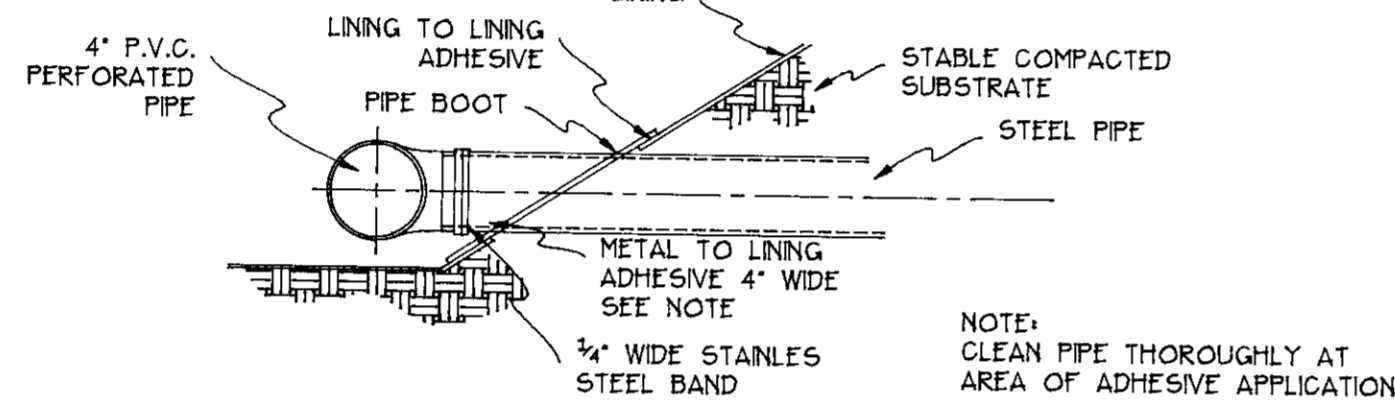
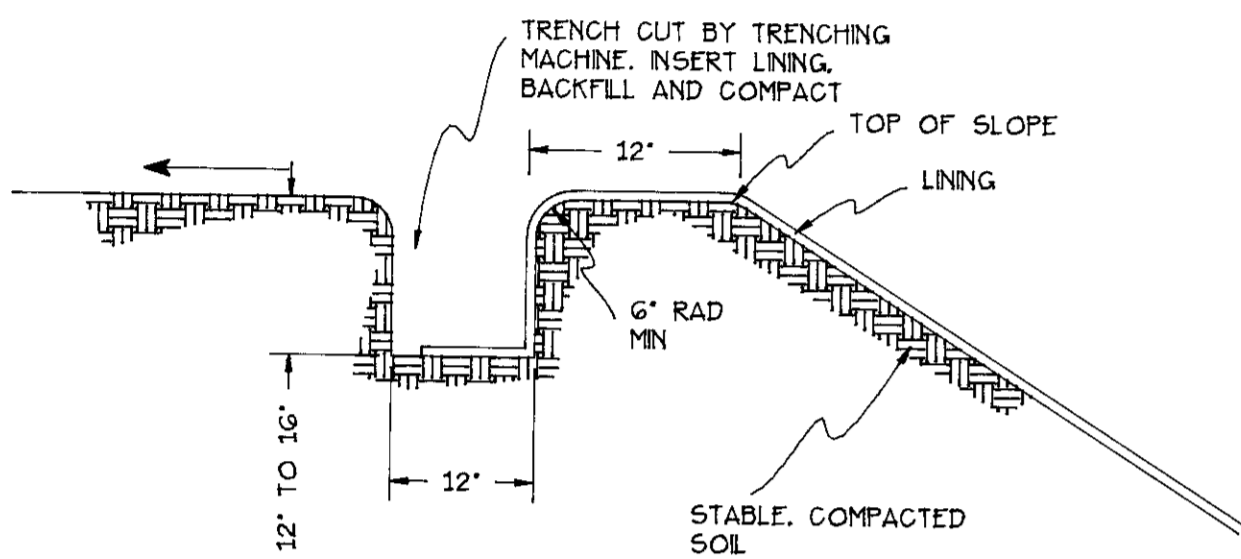
NOTES:
 1. PER T-24 REQUIREMENTS PROVIDE AT DOOR #1 CLEAR LEVEL LANDING WITH TRANSITION TO SIDEWALK OR GRADE TO BE ACCOMPLISHED BY A RAMP MEETING REQUIREMENTS OF T-24 HANDYCAP.
 2. LEVER HARDWARE.
 3. MAX 1/2" THRESHOLD.
 4. DOOR TO REMAIN OPENABLE FROM THE INSIDE WITHOUT A KEY OR SPECIAL KNOWLEDGE OR EFFORT.



4" PIPE GRAVITY DRAIN TO BUFFER TANK

TYPICAL SECTION
SLUDGE DRYING
BED

N.T.S.



OUTLET DETAIL

N.T.S.

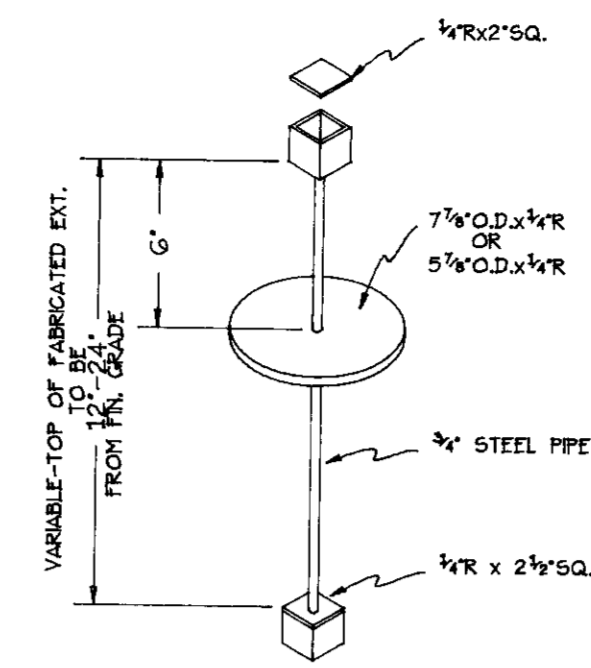
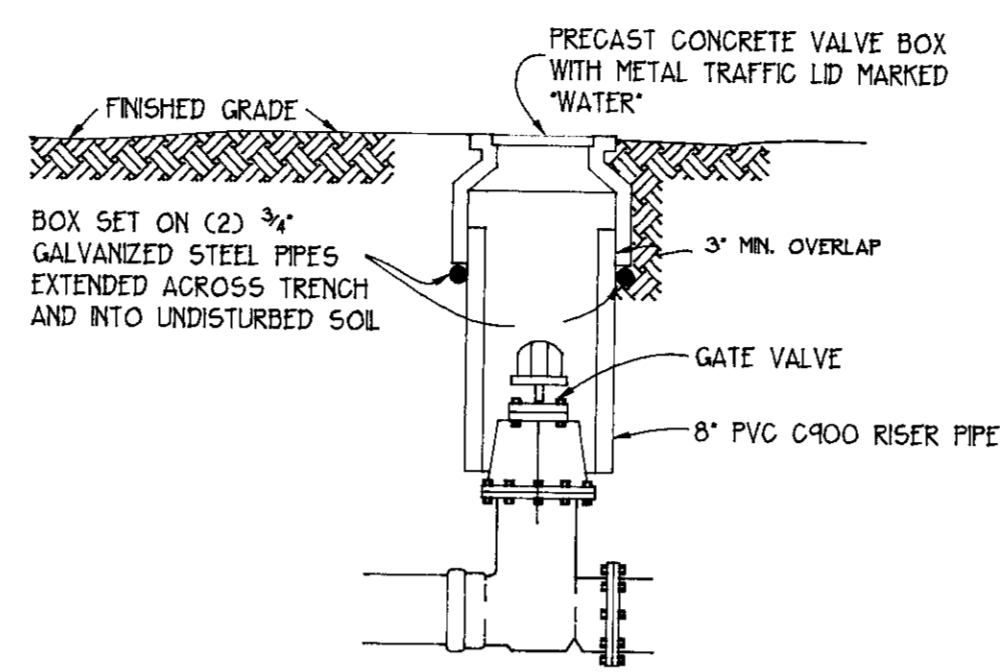
TYPICAL ANCHOR DETAIL

N.T.S.

VALVE BOX AND RISER INSTALLATION

NOTES:

1. SET VALVE BOX TO FINAL FINISHED GRADE OR ABOVE GRADE IN UNIMPROVED EASEMENT AREA



VALVE OPERATING NUT EXTENSION
REQUIRED WHERE VALVE NUT IS IN EXCESS
OF 30" DEEP BELOW FINISH GRADE.

NOTE: USE 8" RISER IN TRAFFIC AREA

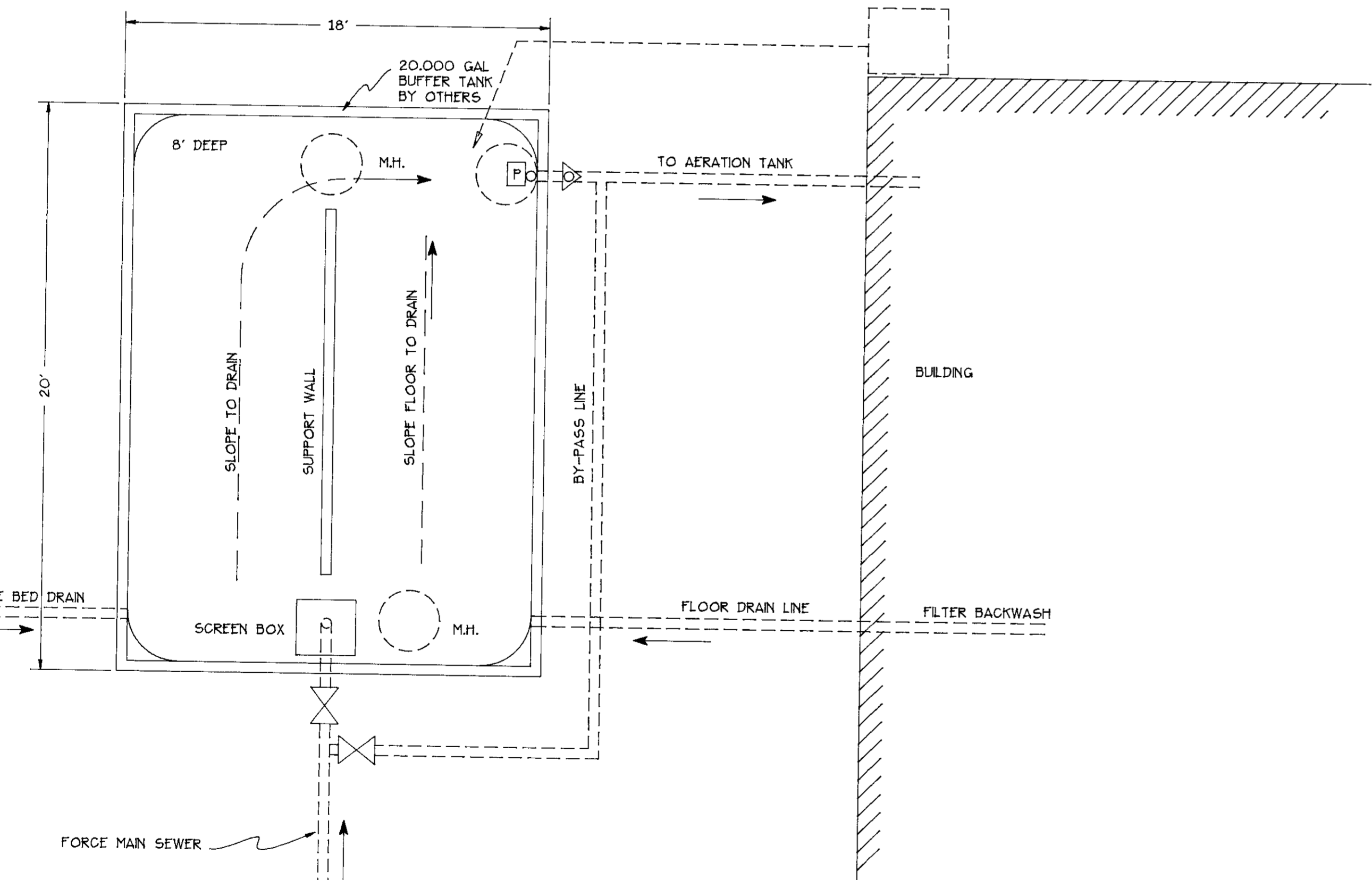
| REQUIRED BEARING AREA - TOTAL SQUARE FEET | | | | | | | |
|---|----------|----------|----------------------------|--------------------|----------------|------------------|-------------------|
| TYPE OF FITTING | 90° BEND | 45° BEND | 1 1/4" BEND 2 1/2" BEND | TEE OR DEAD END | TEE W/ PLUG | CROSS W/ PLUG | CROSS W/ PLUGS |
| TYPICAL INSTALLATION | | | | | | | |
| SIZE OF PIPE | 4" | 6" | 8" | 10" | 12" | 16" | 16" |
| | 2 | 1 | 1 | 2 | 2 | 2 | 2 |
| | 4 | 2 | 1 | 3 | 4 | 4 | 4 |
| | 7 | 4 | 2 | 5 | 7 | 7 | 7 |
| | 12 | 6 | 3 | 8 | 12 | 12 | 12 |
| | 16 | 10 | 5 | 12 | 16 | 16 | 16 |

NOTES:

1. THRUST BLOCKS TO BE CONSTRUCTED OF CLASS "B" CONCRETE
2. AREAS GIVEN ARE FOR CLASS 150 PIPE AT TEST PRESSURE OF 150 P.S.F. IN SOIL WITH 2000 P.S.I. BEARING CAPACITY. INSTALLATIONS USING DIFFERENT PIPE, TEST PRESSURES, AND OR SOIL TYPES SHOULD ADJUST AREAS ACCORDINGLY, SUBJECT TO APPROVAL OF ENGINEER.
3. BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.
4. JOINTS AND FACE OF PLUGS TO BE KEPT CLEAR OF CONCRETE.

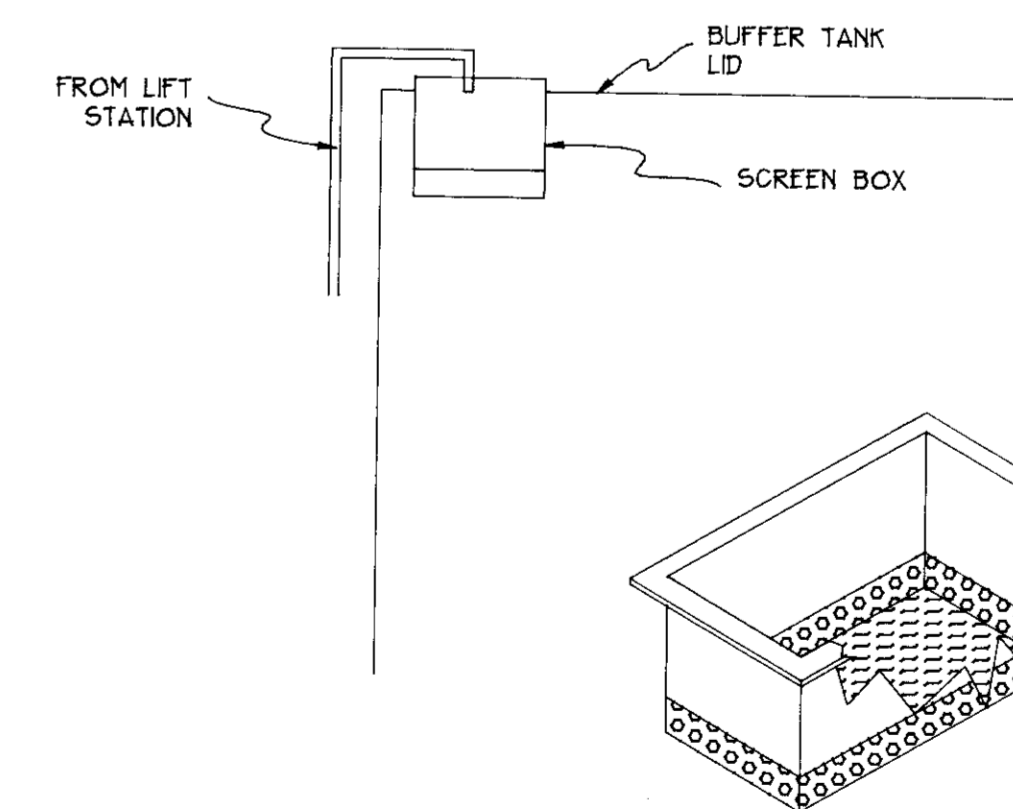
TYPICAL ANCHOR DETAIL

N.T.S.



YARD PIPING AT BUFFER TANK

N.T.S. (BUFFER TANK BY OTHERS)



NOTE: SCREEN BOX CAN BE CLEANED OR
LIFTED OUT OF TANK LID AND CLEANED

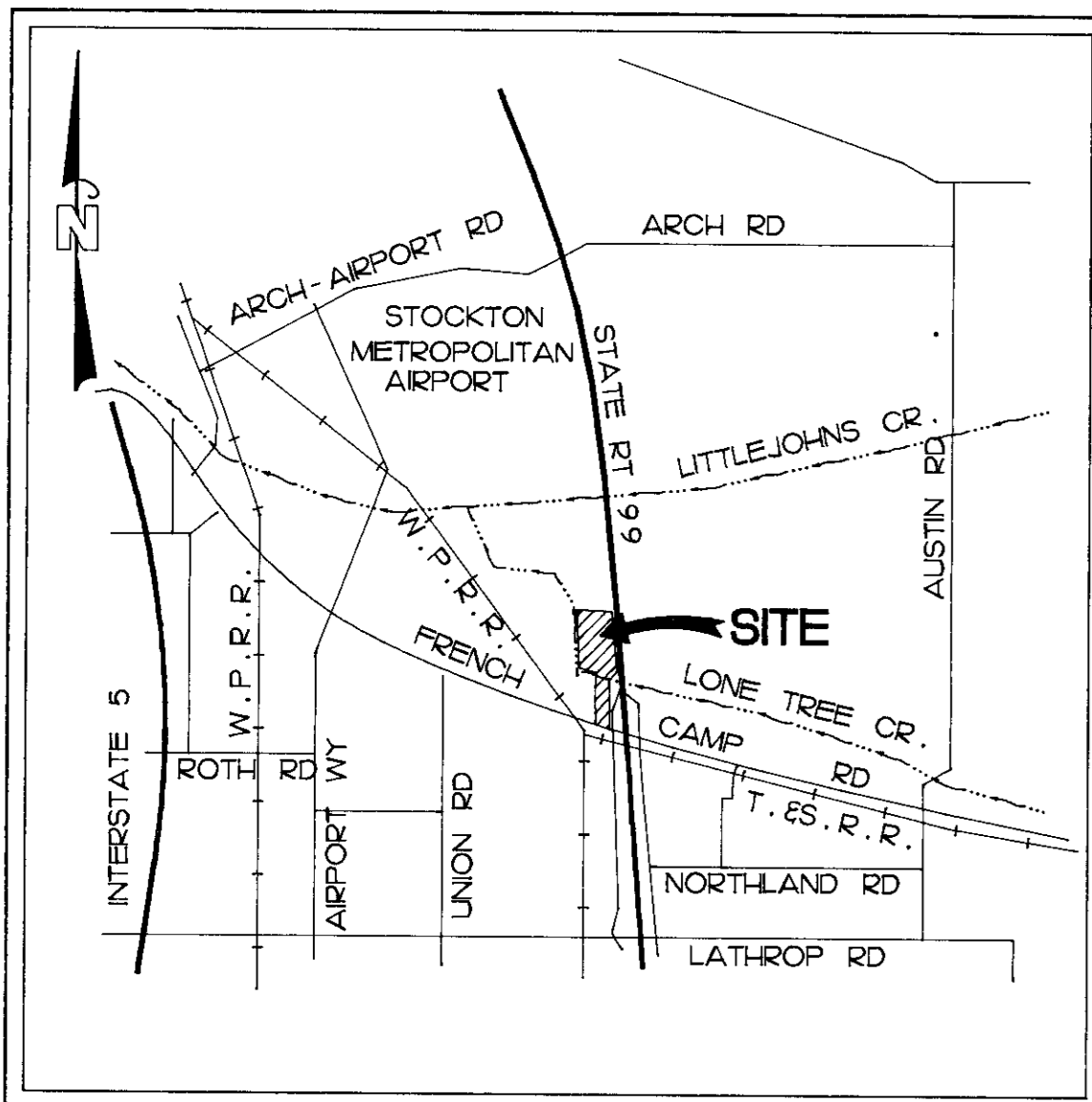
HWY 99 & FRENCH CAMP ROAD

FRENCH CAMP GOLF & RV PARK TREATMENT PLANT FACILITY

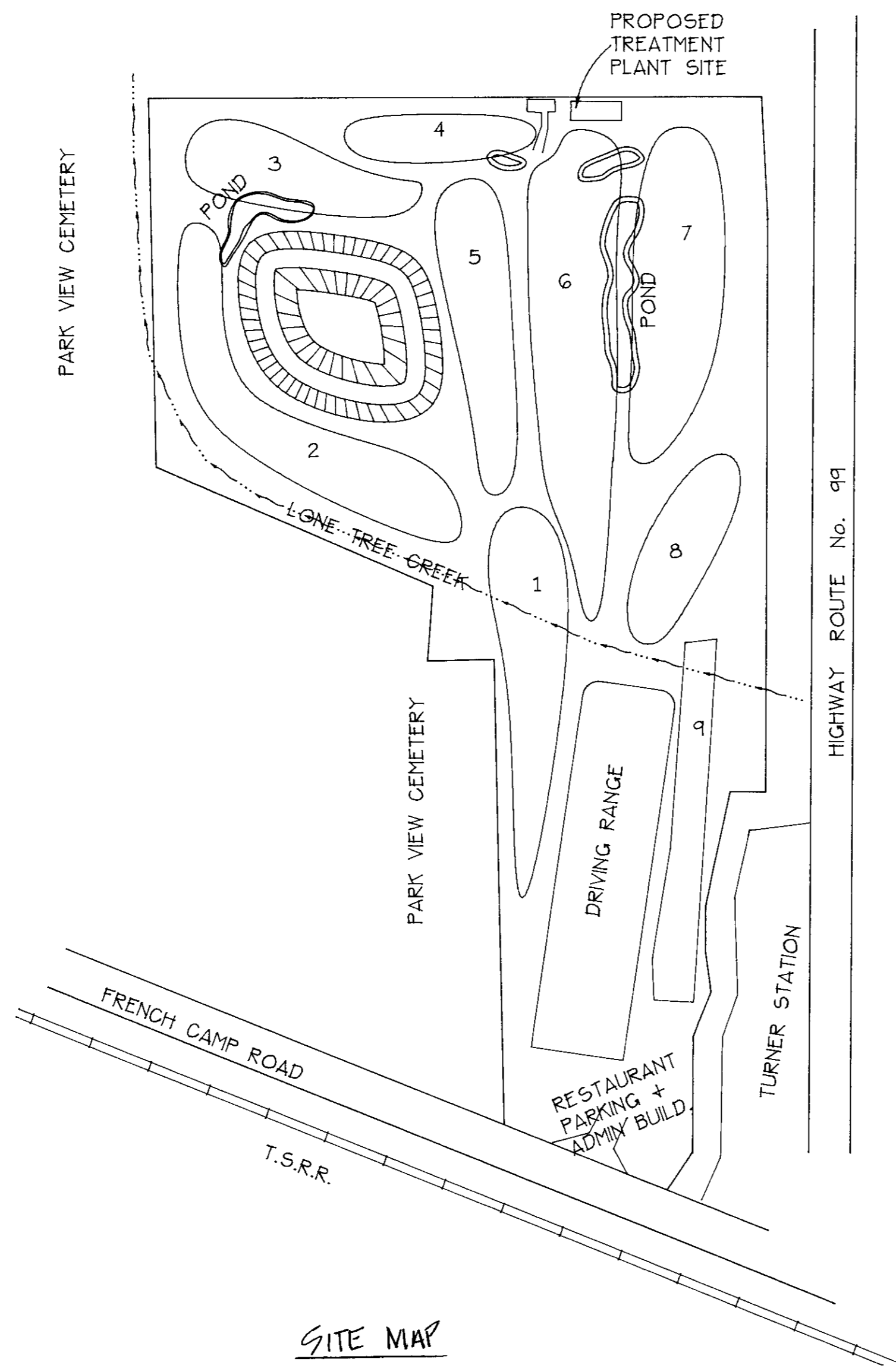
A.P.N. 201-030-014

SHEET INDEX

- 1 TITLE SHEET
- 2 YARD FACILITIES
- B-1 BUILDING PLAN
- B-2 BUILDING ELEVATIONS
- F-1 FOUNDATION PLAN
- EQ-1 PLANT EQUIPMENT
- EQ-2 PLANT EQUIPMENT
- EQ-3 PUMP DATA
- P-1 PLANT DRAIN & WATER SUPPLY
- P-2 PLANT PIPING
- E-1 ELECTRICAL
- E-2 PLANT LIGHTING



LOCATION MAP



SITE MAP

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE CALIFORNIA ADMINISTRATIVE CODE, TITLE 24, STATE BUILDING STANDARDS, NATIONAL ELECTRICAL CODE, LOCAL CITY AND COUNTY CODES, APPLICABLE LAWS OR REGULATIONS.
 2. THE INTENTION OF THE DRAWINGS AND SPECIFICATIONS IS TO MAKE A COMPLETE JOB AND SHALL INCLUDE EVERYTHING REASONABLE IMPLIED OR INTENDED TO BE FURNISHED AND INSTALLED, UNLESS SPECIFICALLY DESIGNATED NOT IN CONTRACT (N.I.C.) OR "FURNISHED BY OWNER".
 3. THE DRAWINGS INDICATE SCHEMATICALLY THE LAYOUTS OF EQUIPMENT, ACCESSORIES AND SYSTEMS AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. OTHER DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE EXAMINED, NOTING ALL CONDITIONS THAT MAY AFFECT THIS WORK. REPORT CONFLICTING CONDITIONS TO THE ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH WORK.
 4. THE CONTRACTOR SHALL BE HELD TO HAVE VISITED THE SITE, CHECKED EXISTING CONDITIONS, AND SATISFIED HIMSELF AS TO THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED BEFORE SUBMITTING HIS BID. NO ALLOWANCES SHALL BE MADE IN HIS BEHALF FOR ANY EXTRA EXPENSE TO WHICH HE MAY PUT DUE TO FAILURE OR NEGLIGENCE TO DISCOVER CONDITIONS AFFECTING HIS WORK.
 5. UNLESS OTHERWISE NOTED, ALL MATERIAL SHALL BE NEW, OF THE TYPE, CAPACITY AND QUALITY SPECIFIED AND FREE FROM DEFECTS.
 6. THE CONTRACTOR SHALL VERIFY ALL METAL BUILDING DIMENSIONS AND ANCHOR BOLT LOCATIONS PRIOR TO POURING CONCRETE FOOTINGS AND SLAB.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS AND BUILDING PERMITS REQUIRED BY THE AGENCIES HAVING JURISDICTION OVER HIS PORTION OF THE WORK.
8. ALL PUMPS ARE MOUNTED ON A BAR WITH A FAST DISCONNECT AND CAN BE REMOVED, REPAIRED AND REPLACED WITHOUT COVERING THE LEVEL OF LIQUID IN THE TANK.

BUILDING CODE DATA

OCCUPANCY GROUP ----- B-DIVISION 4
 DESCRIPTION OF USE ----- WASTE TREATMENT FACILITIES
 TYPE OF CONSTRUCTION ----- METAL/NO HOUR
 SPRINKLERS ----- NO
 STORIES ----- ONE
 HEIGHT ----- 10 FT. EAVE HT.
 FLOOR AREA ----- 2,400 SQ. FT.

DIRECTORY

OWNER: CANADA COVE. LIMITED PARTNERSHIP
 % GEN CAL ASSOCIATES
 620 EAST ST CHARLES STREET
 SAN ANDRIAS, CA 95249
 ATTN: ROGER D RUMPH P.E.

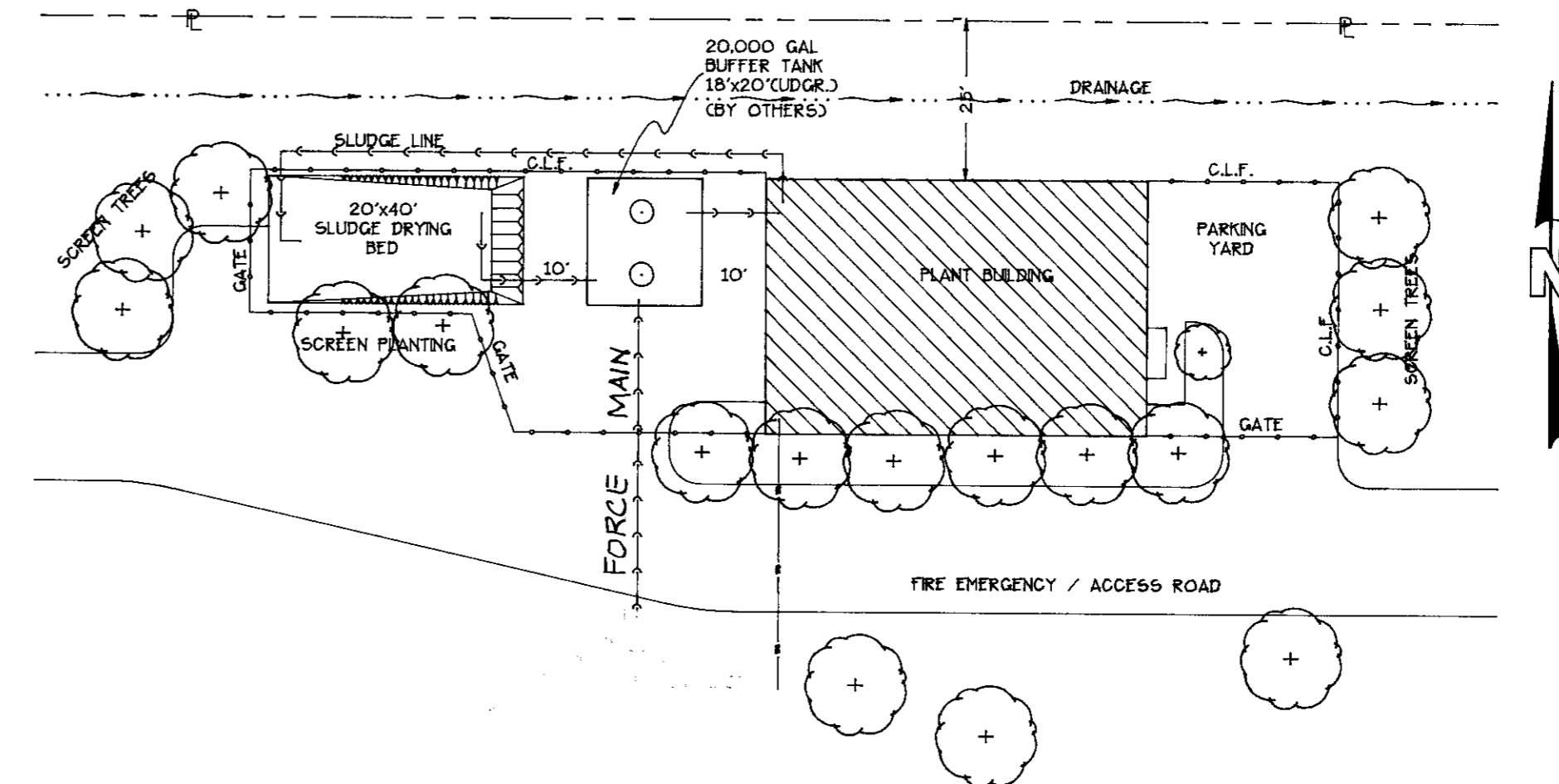
PLANT EQUIPMENT/ PLANT DESIGN:
 AQUACLEAR TECHNOLOGIES, INC.
 325 SHOKELINE DRIVE
 LIBERTY LAKE, WA 99019
 (509) 255-6603

ENGINEERING:
 ROSE'S ENGINEERING-GEOLOGY + SURVEYING INC.
 9070 ELK GROVE BOULEVARD
 ELK GROVE, CA 95624
 (916) 686-5445

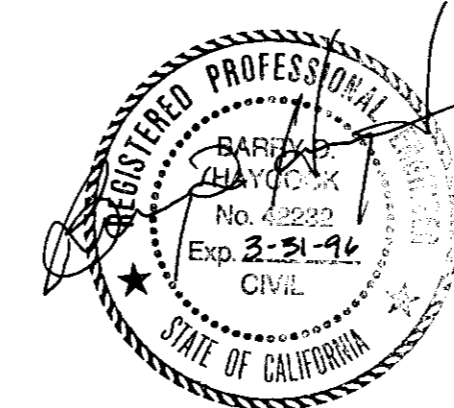
FOUNDATION:
 ROSE'S ENGINEERING-GEOLOGY + SURVEYING INC.
 9070 ELK GROVE BOULEVARD
 ELK GROVE, CA 95624
 (916) 686-5445
 ATTN: BARRY HAYCOCK P.E.

ELECTRICAL:
 GEORGE VICE ELECTRIC, INC.
 P.O. BOX 1115
 ELK GROVE, CA 95759
 (916) 685-5349

METAL BUILDING:
 SIERRA STEEL FRAME
 ATTN: JACK STARK



TREATMENT FACILITY LAYOUT
 SEE SHEET 2 FOR DETAILS
 SCALE: 1"=20'



| REVISIONS | No. | DESCRIPTION | COUNTY APPROVAL APPROVED BY: | DATE |
|-----------|-----|-------------|------------------------------|------|
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PUBLIC WORKS DIRECTOR, SAN JOAQUIN COUNTY

ROSE'S ENGINEERING - GEOLOGY & SURVEY INC.
 9070 ELK GROVE BLVD. ELK GROVE, CALIFORNIA 95624
 (916) 686-5445

PROJECT:
**WASTEWATER AND RECLAMATION SYSTEM
 FRENCH CAMP GOLF & RV PARK
 FRENCH CAMP CA,**

SHEET TITLE:
**TITLE SHEET
 TANK NOTES AND SPECIFICATIONS**

SURVEYED BY: RWF
 DRAWN BY: JWF
 DESIGNED BY: JWF
 CHECKED BY: RPR

DATE: SEP, 94
 SCALE: AS NOTED

CLIENT
 PROJECT No.

SHEET No.
 1
 OF