


**GENERAL NOTES**

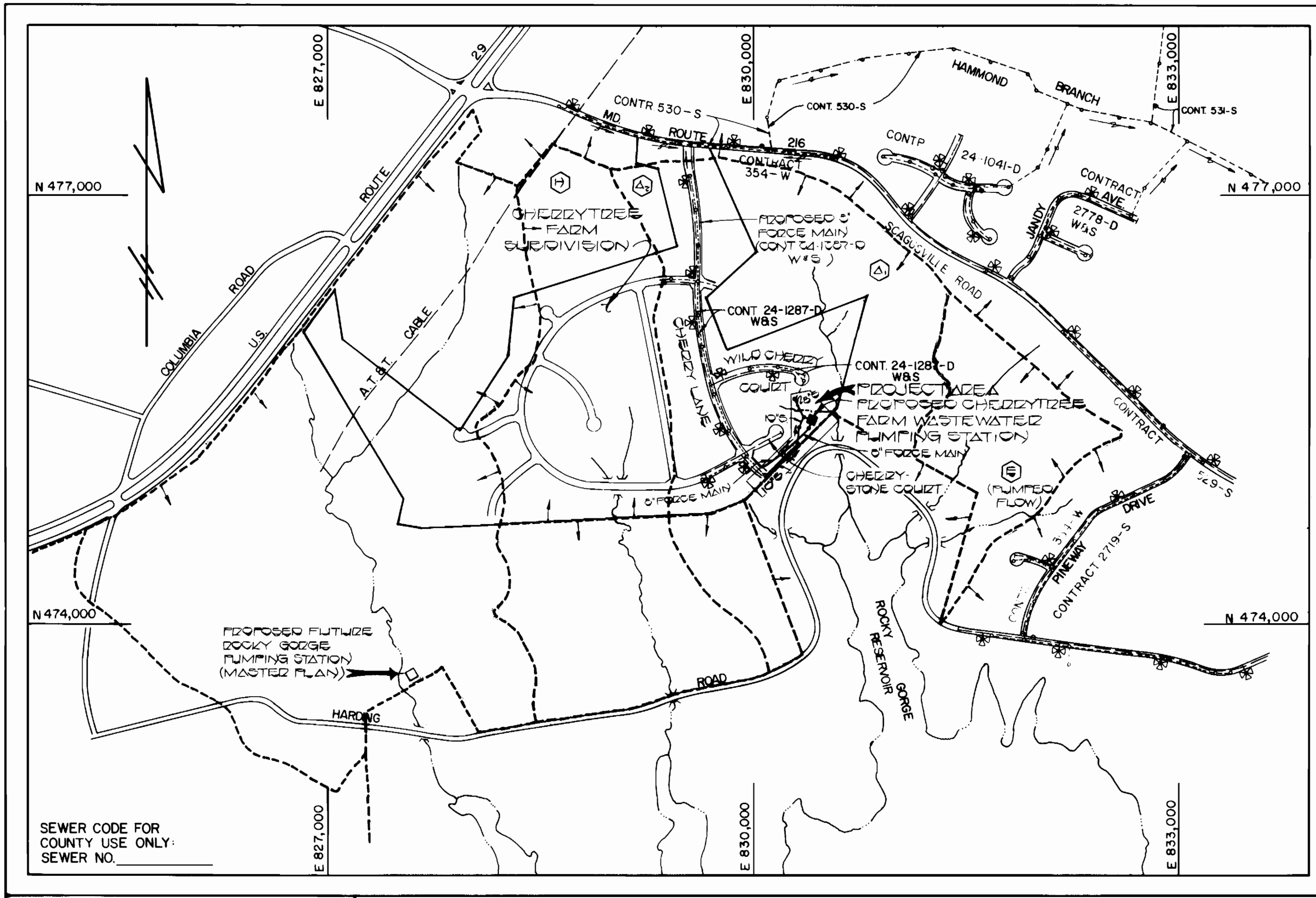
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G. DATUM.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6" CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITIES COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTORS WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - STATE HIGHWAY ADMINISTRATION - 531-5533
  - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES 561-2585
  - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 234-5621
  - BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING - 298-9013
  - MISS UTILITY - 1-(800)257-7777
  - COLONIAL PIPELINE CO. - 795-1390
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IX, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IX ON THE JOB.
- ALL SEWER MAINS SHALL BE C.S.P., R.C.S.P., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOP OF WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 OF THE STANDARD SPECIFICATION.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- FORCE MAIN SHALL BE D.I.P. - CLASS 54
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL  AT THE LOCATION OF THE TEST PIT A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

INDEX OF DRAWINGS	
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	SITE DEVELOPMENT PLAN - PROFILES & DETAILS
4	SEWER & FORCE MAINS - PROFILES & DETAILS
5	ARCHITECTURAL ELEVATIONS
6	ARCHITECTURAL DETAILS
7	STRUCTURAL PLANS
8	STRUCTURAL SECTIONS
9	MECHANICAL PLANS
10	MECHANICAL SECTIONS
11	STRUCTURAL & MECHANICAL DETAILS
12	STRUCTURAL & MECHANICAL DETAILS
13	STRUCTURAL & MECHANICAL DETAILS / SYSTEM CURVE
14	ELECTRICAL PLANS
15	ELECTRICAL DETAILS

DESIGN FLOW TABULATION CHART								
SUB-BASIN	ZONING	ULTIMATE POPULATION	AVERAGE DOMESTIC FLOW	PEAK DOMESTIC FLOW	NON-DOMESTIC FLOW	INFILTRATION	TOTAL FLOW	DESIGN FLOW
A <sub>1</sub>	R-30 40.91 AC	219 pers	0.017 mgd	0.038 mgd	---	0.010 mgd	0.078 mgd	0.08 mgd
A <sub>2</sub>	R-30 4.18 AC	26 pers	0.002 mgd	0.006 mgd	---	0.001 mgd	0.009 mgd	0.01 mgd
CHEERYTREE FARM SUBDIVISION	R-30 158 LOTS	638 pers	0.060 mgd	0.100 mgd	---	0.078 mgd	0.238 mgd	0.28 mgd
H	P.M. (COMMERCIAL) 10.42 AC	---	---	---	0.018 mgd (AVERAGE)	---	0.024 mgd (PEAK)	0.06 mgd
E	R-30 20.92 AC	173 pers	0.015 mgd	0.046 mgd	---	0.007 mgd	0.068 mgd	0.09 mgd
TOTALS	---	---	0.099 mgd	0.244 mgd	0.018 mgd	0.045 mgd	0.364 mgd	0.40 mgd

\* DESIGN FLOW FOR THE CHEERYTREE FARM WASTEWATER PUMPING STATION NOTES:  
 1. SUB-BASIN A<sub>1</sub>, A<sub>2</sub>, H & THE CHEERYTREE FARM SUBDIVISION (SECTIONS I & II) ARE GRAVITY DRAINAGE AREAS TO THE PUMPING STATION.  
 2. SUB-BASIN E DESIGNIZES A FUTURE PUMPING STATION TO CONVEY FLOWS TO THE CHEERYTREE FARM PUMPING STATION.  
 3. THE DESIGN FLOW TABULATION CHART DOES NOT INCLUDE POSSIBLE FLOWS PUMPED FROM THE PROPOSED FUTURE ROCKY GORGE PUMPING STATION.

ITEM	EST'D	AS-BUILT	SUPPLIED
10" SEWER	200 LF		
8" SEWER	100 LF		
6" FORCE MAIN	414 LF		
MANHOLES	4 EA		
2" WATER	410 LF		



SEWER CODE FOR COUNTY USE ONLY:  
 SEWER NO. \_\_\_\_\_  
 TYPE OF BUILDING: PUMPING STATION  
 NUMBER OF PARCELS: 1  
 NUMBER OF SEWER HOUSE CONN: NONE  
 DRAINAGE AREA: LITTLE PATUXENT

SCALE: 1" = 600'

# CONTRACT NO. 20-1356-D

# CHERRYTREE FARM

# WASTEWATER PUMPING STATION

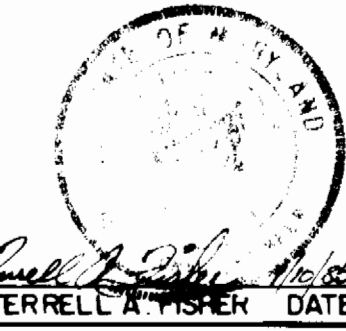
## HOWARD COUNTY, MARYLAND

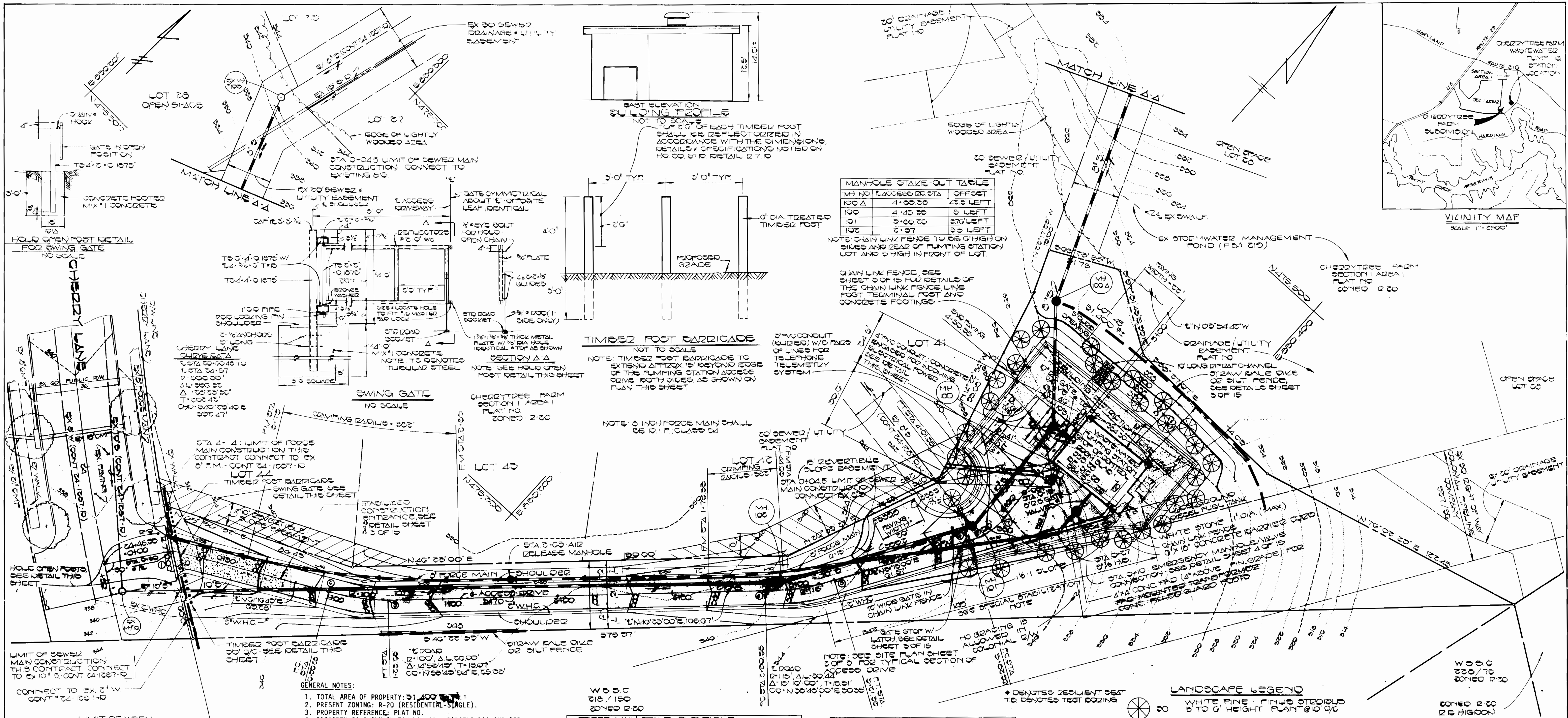
## DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THESE SPECIFICATIONS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN F-04-100 # 0 OF 05-110

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT  
 APPROVER: *Stephen L. Fisher* 5/13/26  
 HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
 U.S. SOIL CONSERVATION SERVICE DATE: 5-13-26

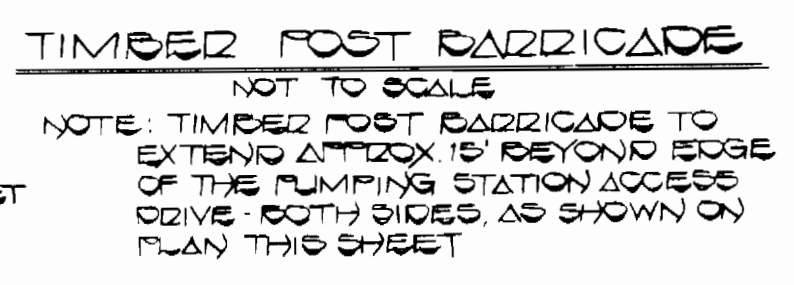
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS DATE: <i>6-9-26</i> CHIEF, BUREAU OF UTILITIES DATE:	FISHER, COLLINS, AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 TERRELL A. FISHER DATE:		DES. D.B.S. DRN. D.B.S. CHK. T.A.F. DATE:	TITLE SHEET	CHERRYTREE FARM WASTEWATER PUMPING STATION CONTRACT NO. 20-1356-D ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 15
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**MANHOLE STAKE-OUT TABLE**

MH NO.	ACCESS TO STA.	OFFSET
100A	4+00.00	48' LEFT
100	4+46.00	6' LEFT
101	3+00.00	57' LEFT
102	2+97	55' LEFT

NOTE: CHAIN LINK FENCE TO BE 6' HIGH ON SIDES AND REAR OF PUMPING STATION LOT AND 5' HIGH IN FRONT OF LOT



**FORCE MAIN STAKE-OUT TABLE**

ITEM	FORCE MAIN STA.	ACCESS TO STA.	OFFSET
EMERG. MH	0+10	4+23.00	22' RIGHT
3" 12" 12"	0+27	4+00.00	22' RIGHT
BEGIN CRIMP	1+44.00	0+00.00	0' LEFT
END CRIMP	1+70.33	0+00.00	1' LEFT
BEGIN CRIMP	0+00	1+50.14	7' LEFT
END CRIMP	0+70	0+00.00	0' LEFT

**PLAN**  
SCALE 1" = 20'

- GENERAL NOTES:**
- TOTAL AREA OF PROPERTY: 51,400 S.F.
  - PRESENT ZONING: R-20 (RESIDENTIAL SINGLE).
  - PROPERTY REFERENCE: PLAT NO.
  - PROPERTY IS SHOWN ON TAX MAP 46 - PARCELS 190 AND 255.
  - PARKING DATA:
    - INTENDED USE OF STRUCTURE: WASTEWATER PUMPING STATION.
    - NUMBER SPACES REQUIRED: 2
    - NUMBER SPACES PROVIDED: 2 REGULAR SPACES (9'x18').
  - CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS PRIOR TO COMMENCEMENT OF WORK AT 792-7272.
  - ALL PAVING AND STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
  - EXISTING UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD AND OFFICE INFORMATION. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES TO HIS OWN SATISFACTION BEFORE MAKING ANY CONNECTION THERETO OR EXCAVATING IN THE AREA THEREOF.
  - THE CONTRACTOR SHALL NOTIFY MISS UTILITY 1-800-267-7777 A MINIMUM OF THREE DAYS PRIOR TO BEGINNING ANY CONSTRUCTION THEREON.
  - SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.
  - PHOTOGRAMMETRIC SURVEY PROVIDED BY PHOTO SCIENCE INC. - AIRPARK ROAD, GAITHERSBURG, MARYLAND 20760 - DATED: 2/9/81.
  - ALL EXTERIOR LIGHTING OF BUILDING WILL BE DIRECTED DOWNWARD.
  - NO PARKING WILL BE PERMITTED ALONG THE ACCESS ROAD.
  - STORMWATER MANAGEMENT FOR THIS PROJECT WAS PROVIDED UNDER F-84-100

**"E" ROAD COORDINATE TABLE**

PT	NORTH	EAST
1	475007.05	000103.50
2	475100.56	000104.00
3	475106.05	000105.10
4	475200.10	000300.10
5	475272.70	000324.14
6	475300.44	000300.00
7	475344.04	000300.00
8	475300.00	000300.00

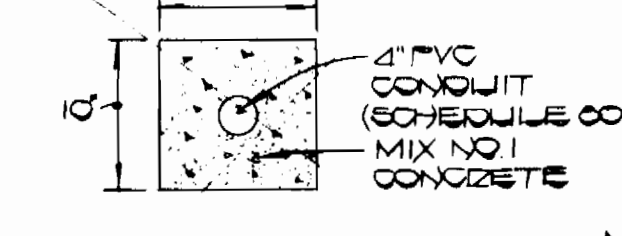
**LANDSCAPE LEGEND**

○ WHITE PINE - FINUS STROBUS  
5 TO 6' HEIGHT PLANT @ 10' O.C.

**SPECIAL STABILIZATION NOTE**

FOR SLOPED STEEPER THAN 3:1 USE SEEDING MIXTURE OF:  
1. CROWMEYER, INOCULATED 10 LBS/ACRE  
2. KENTUCKY 31 FILL (SCUE 40 LBS)/ACRE  
PREPARE SITE IN ACCORDANCE WITH SEDIMENT CONTROL NOTES.

STREET TREES - 3 1/2" CAL. (MIN) MAPLED PLANTED @ 40' O.C. SEE F-84-100.



NOTE: SEDIMENT CONTROL FOR LOT 45 WILL BE PROVIDED BY UTILIZING THE STORM WATER MANAGEMENT POND (NOW BEING TEMPORARILY USED AS AN EXISTING SEDIMENT BASIN) SEE PLANS F-84-129. IN THE EVENT THAT THE SEDIMENT BASIN IS CONVERTED INTO A PERMANENT STORM WATER MANAGEMENT POND BEFORE ALL DISTURBED AREAS INVOLVED WITH THE CONSTRUCTION OF THE WASTEWATER PUMPING STATION ON LOT 45 ARE STABILIZED, A SEDIMENT CONTROL PLAN FOR LOT 45 MUST BE SUBMITTED AND APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS  
8388 COURT AVE.  
ELLCOTT CITY, MD. 21043  
(301) 461-2855

**ENGINEER'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: *David A. Fisher*  
DATE: 1/10/85

**DEVELOPER'S CERTIFICATE**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Signature: *J. Cholewicki*  
DATE: 1-10-1985

**U.S. SOIL CONSERVATION SERVICE**

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: *Stephen R. Fisher*  
DATE: 5/13/85

**APPROVED: OFFICE OF PLANNING AND ZONING**

PLANNING DIRECTOR: \_\_\_\_\_ DATE: \_\_\_\_\_

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS. \_\_\_\_\_ DATE: \_\_\_\_\_

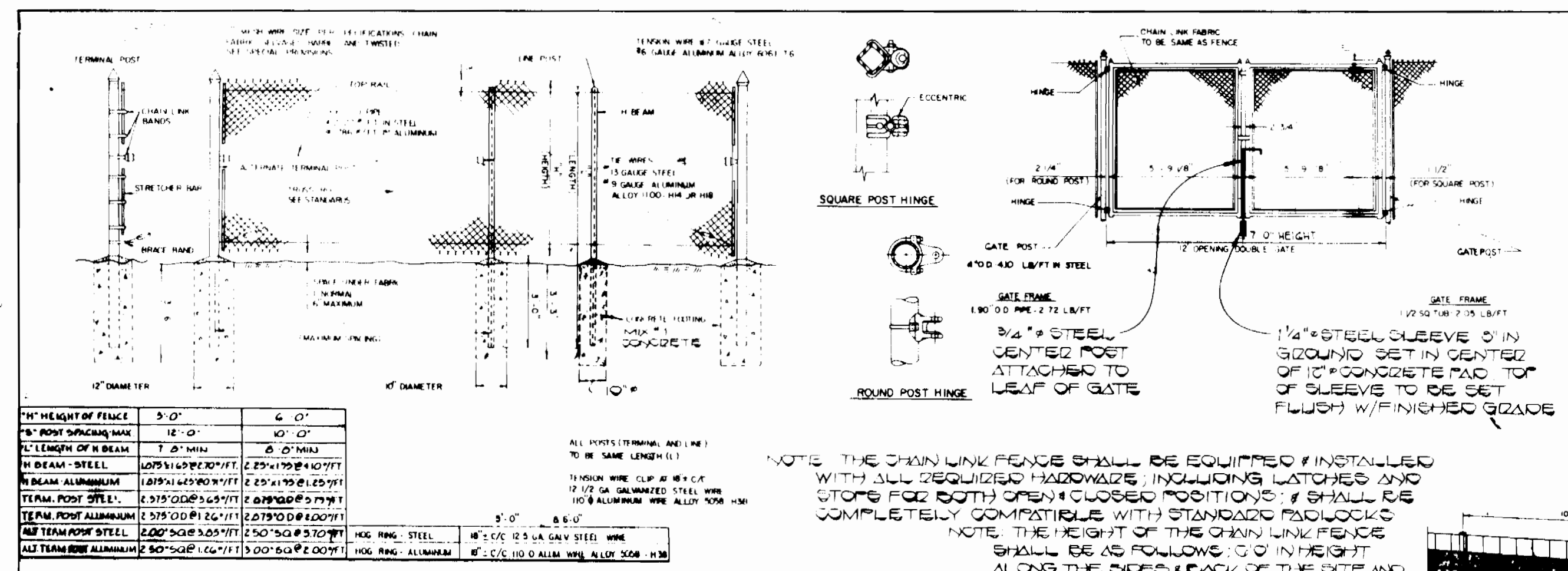
**APPROVED: DEPARTMENT OF PUBLIC WORKS, FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.**

DIRECTOR OF PUBLIC WORKS: \_\_\_\_\_ DATE: 6-6-86

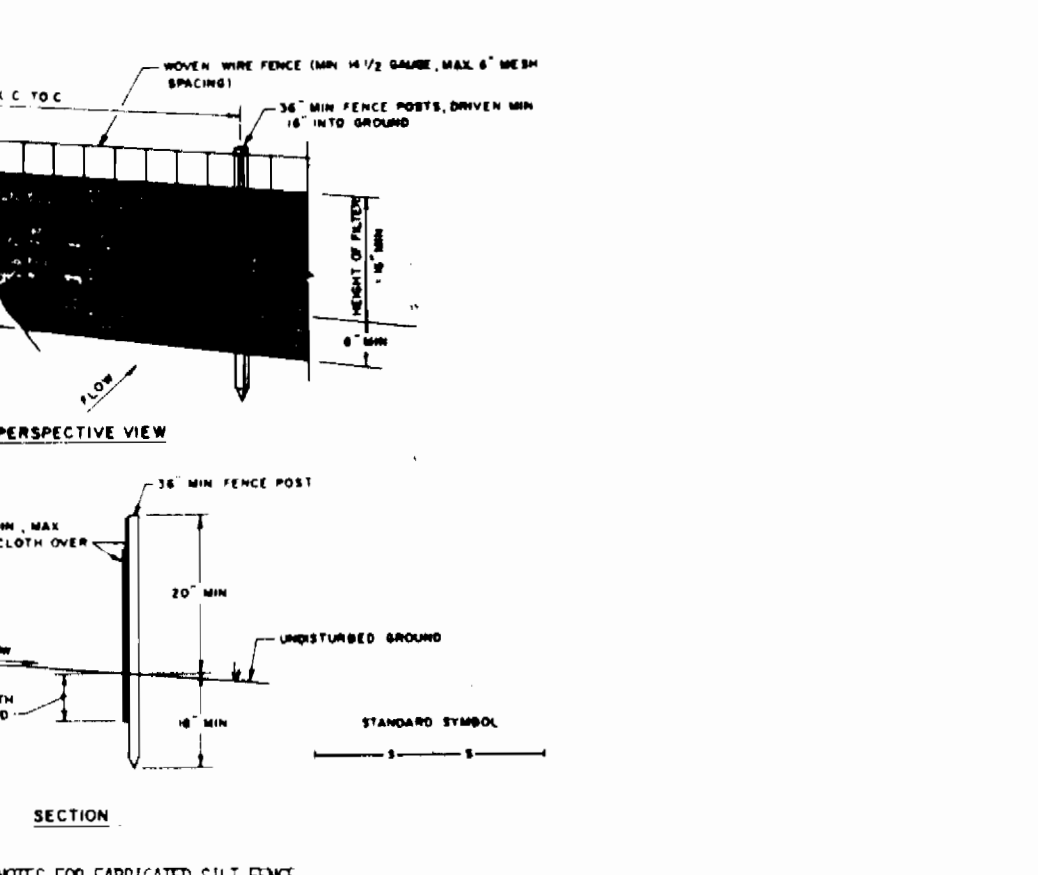
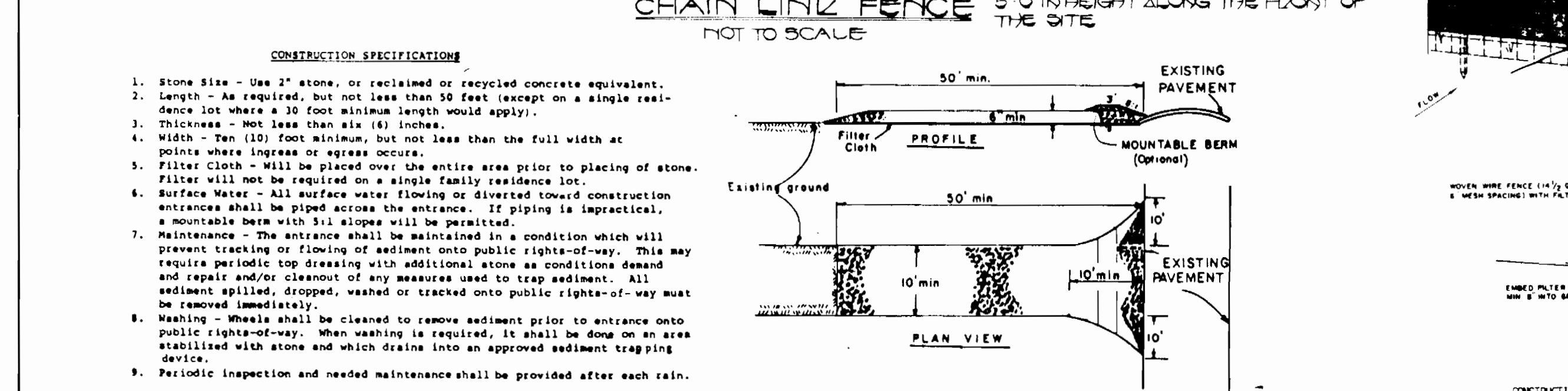
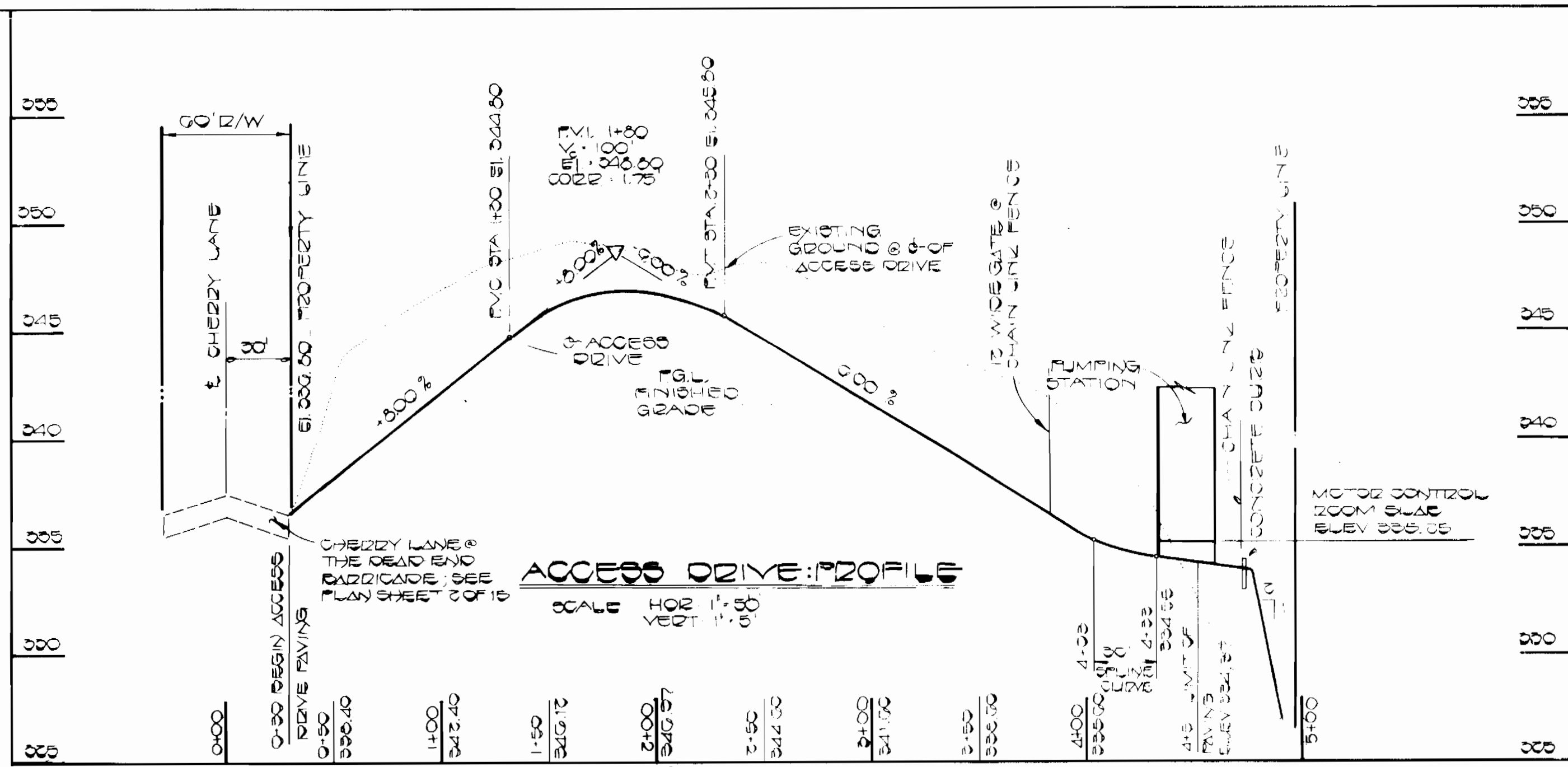
CHIEF, BUREAU OF ENGINEERING: \_\_\_\_\_ DATE: 6/8/86

PROVISION NAME	SECTION/AREA	LOT
CHEERYTREE FARM	1 / 1	45
PLAT NO.	BLOCK NO.	ZONE
10	R-20	10

**SITE DEVELOPMENT PLAN**  
**CHEERYTREE FARM**  
SECTION I AREA I  
LOT 45  
WASTEWATER PUMPING STATION  
TAX MAP 46 PARCELS 190 & 255  
6TH. ELECTION DISTRICT  
HOWARD COUNTY MARYLAND  
REVISED DECEMBER 23, 1985  
SCALE: 1" = 20'  
JANUARY 8, 1985  
SHEET 2 OF 15  
SITE PLAN SHEET 1 OF 2



- CONSTRUCTION SEQUENCE:**
- OBTAIN GRADING PERMIT.
  - CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND STRAW BALE DIKE OR SILT FENCE AS SHOWN ON PLAN.
  - CLEAR AND GRUB SITE AND GRADE TO SUBGRADE.
  - CONSTRUCT ON-SITE UTILITIES AND PUMPING STATION.
  - FINE GRADE PERIMETER AREAS AROUND PARKING LOT AND ACCESS DRIVE STABILIZE WITH PERMANENT SEEDING MIXTURE AND STRAW MULCH.
  - CONSTRUCT ACCESS DRIVE.
  - AFTER PERMISSION HAS BEEN GIVEN BY NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON, AFTER EACH RAINFALL AND ON A DAILY BASIS.
  - REMOVE SEDIMENT FROM ROADWAY AND DRESS STONE CONSTRUCTION ENTRANCE AS REQUIRED.
  - STABILIZE ALL REMAINING DISTURBED AREAS WITH PERMANENT SEEDING MIXTURE AND STRAW MULCH.
  - AFTER PERMISSION HAS BEEN GIVEN BY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE REMAINING DISTURBED AREA WITH PERMANENT SEEDING MIXTURE AND STRAW MULCH.



**PERMANENT SEEDING NOTES:**  
 APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

**SEEDING PREPARATION:** LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

**SOIL AMENDMENTS:** IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE:

- PREPARED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQUARE FT.) AND 400 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING.

**SEEDING:** FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 80 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 40 LBS PER ACRE OF TALL FESCUE AND 2 LBS PER ACRE (.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) SEED WITH 50 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW MULCH. APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 6 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

**MAINTENANCE:** INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING NOTES:**  
 APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE DISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

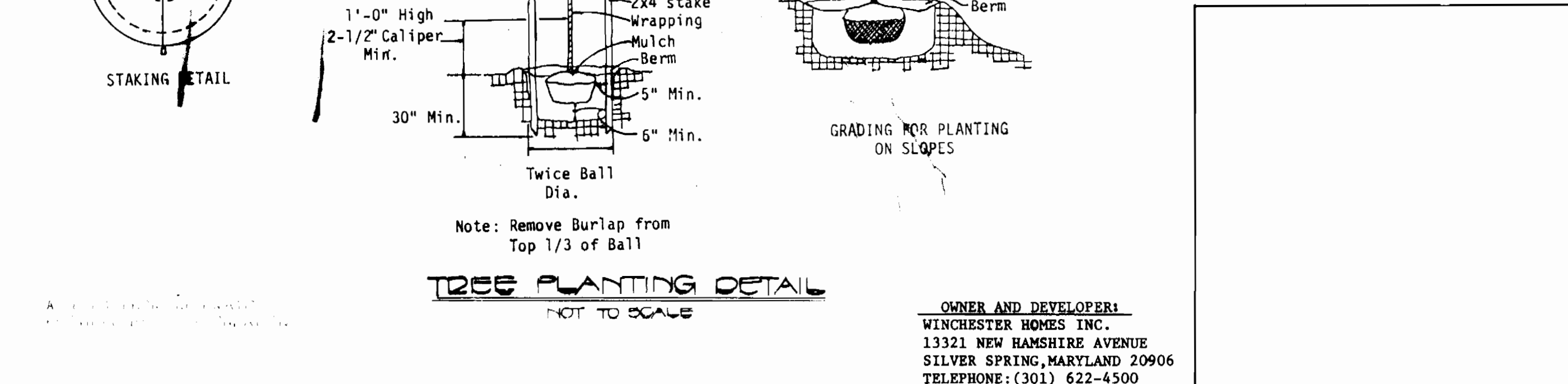
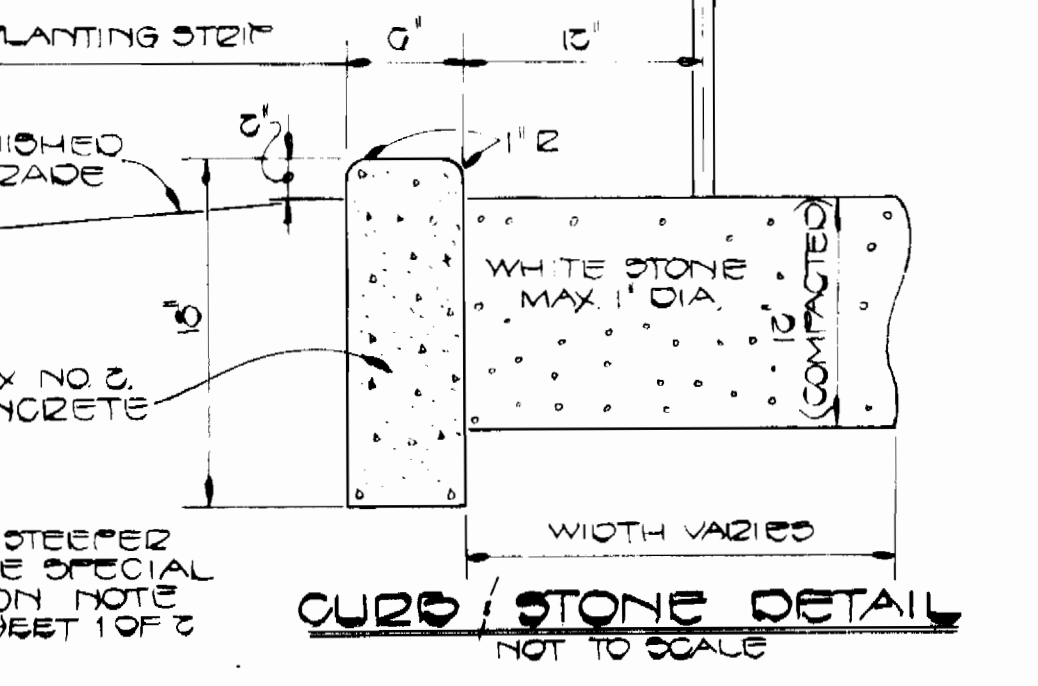
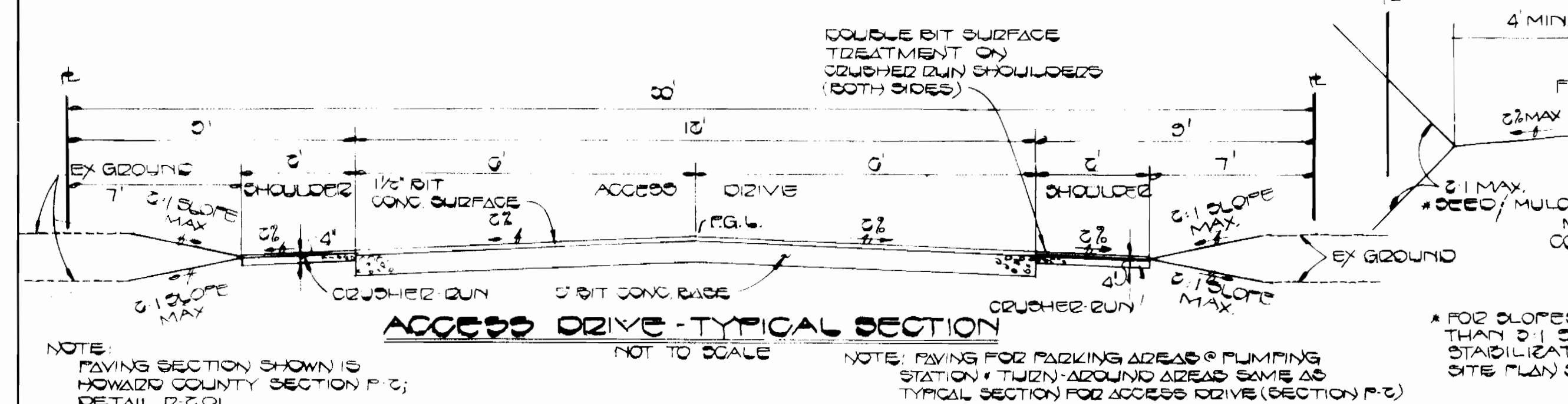
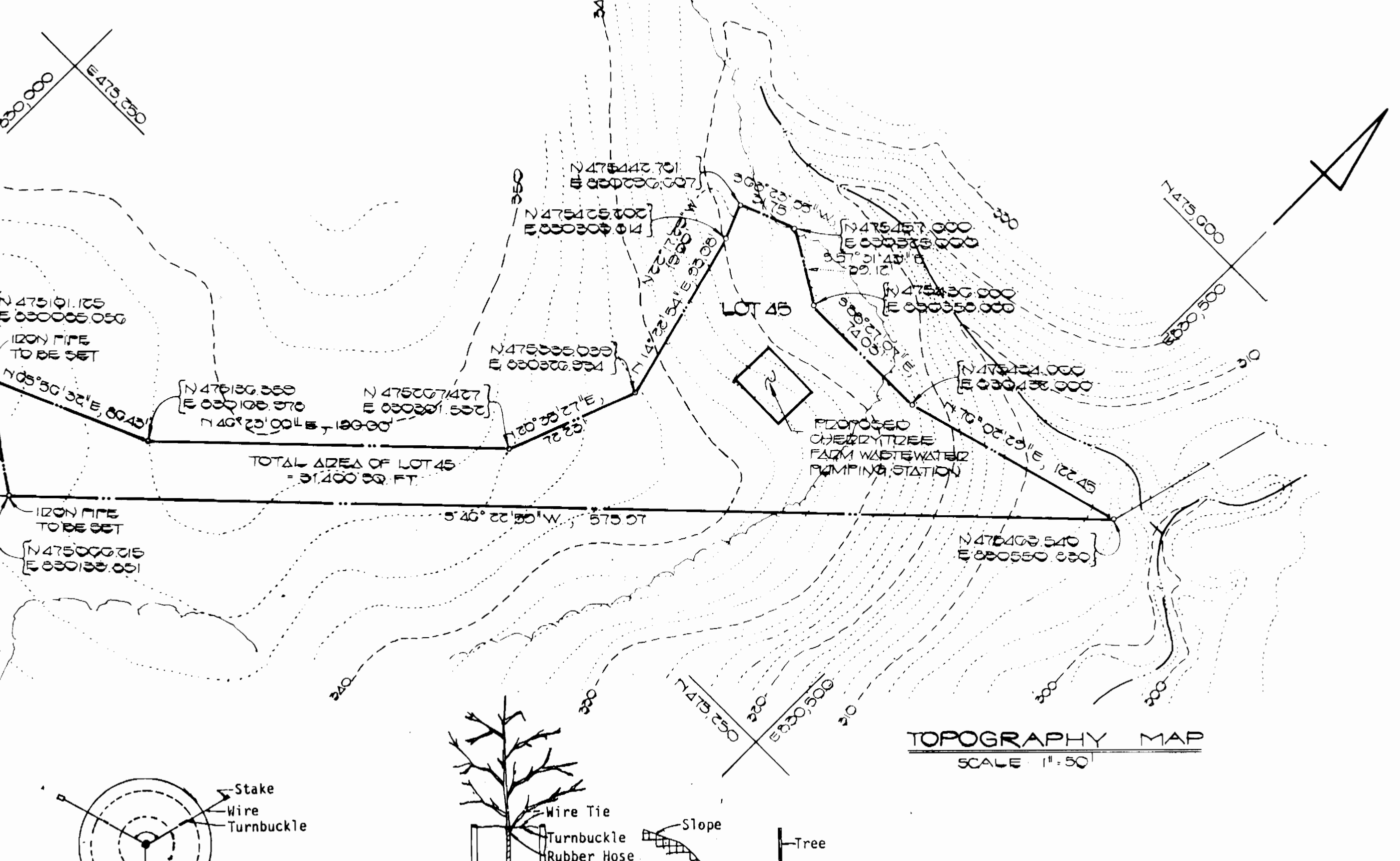
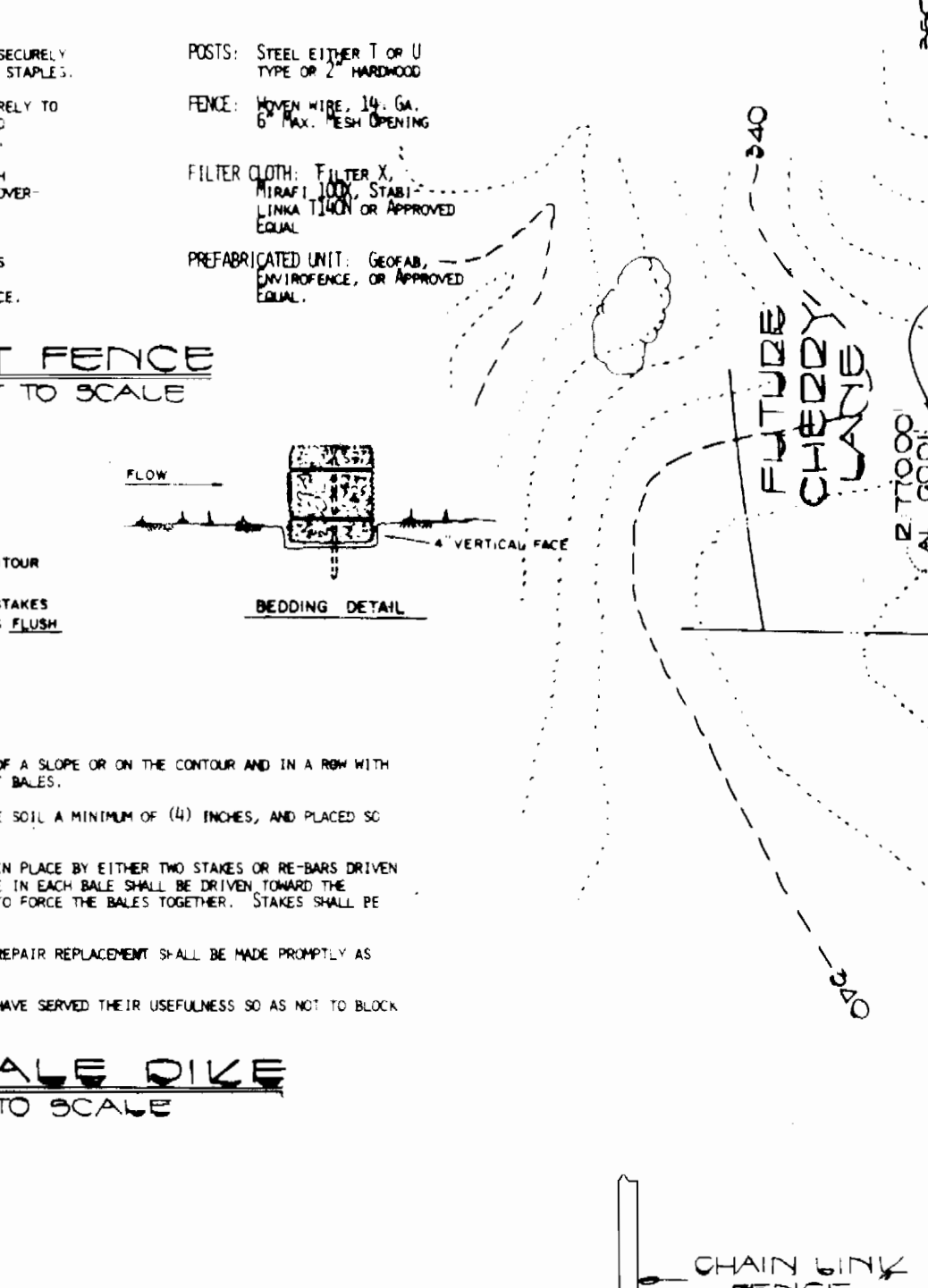
**SEEDING PREPARATION:** LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

**SOIL AMENDMENTS:** APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).

**SEEDING:** FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 40 LBS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

**MULCHING:** APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 6 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS  
8388 COURT AVE.  
ELLCOTT CITY, MD. 21043  
(301) 461-2855

**ENGINEER'S CERTIFICATE**  
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER: *James A. Fisher* DATE: 1-10-1985

**DEVELOPER'S CERTIFICATE**  
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER: *J. Charles Lott* DATE: 1-10-1985

**REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.**

U.S. SOIL CONSERVATION SERVICE DATE: 1/10/85

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: *Stephen L. Hahn* 1/10/85  
DISTRICT MANAGER  
HOWARD SOIL CONSERVATION DISTRICT

**APPROVED: OFFICE OF PLANNING AND ZONING**

PLANNING DIRECTOR: *[Signature]* DATE: 1/10/85

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: *[Signature]* DATE: 1/10/85

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.

**APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.**

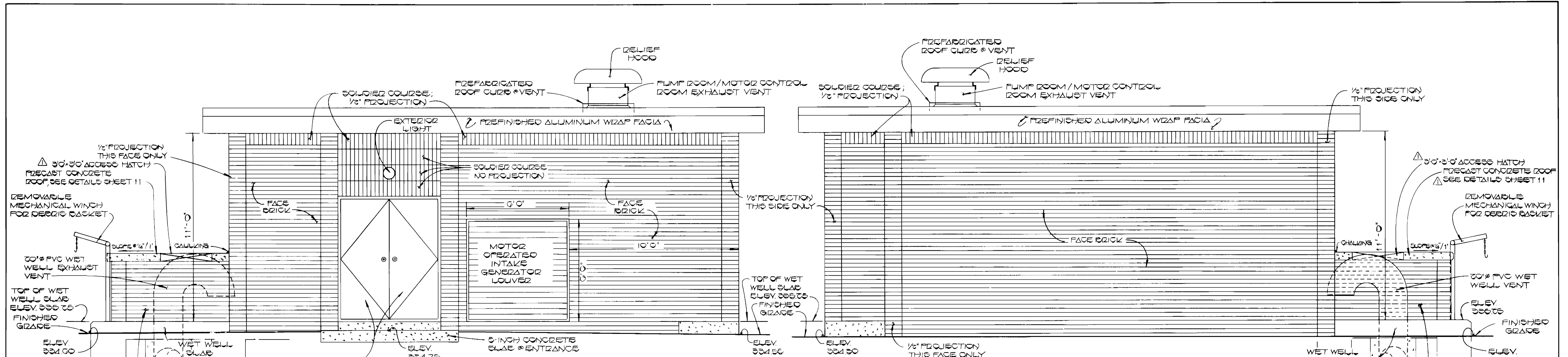
DIRECTOR OF PUBLIC WORKS: *[Signature]* DATE: 1/10/85

SECTION/AREA	LOT
CHERRYTREE FARM	45
PLAT No.	10
BLOCK No.	R-20
TAX MAP	46
ELEC. DIST.	6, 7M
WATER CODE	
SEWER CODE	

**NOTES AND DETAIL SHEET**

**CHERRYTREE FARM**  
SECTION I AREA I  
LOT 45  
WASTEWATER PUMPING STATION  
TAX MAP 46 PARCELS 190 & 255  
6TH ELECTION DISTRICT  
HOWARD COUNTY MARYLAND  
REVISED DECEMBER 8, 1983  
SCALE AS SHOWN JANUARY 8, 1985  
SHEET 3 OF 15  
SITE PLAN SHEET 2 OF 2



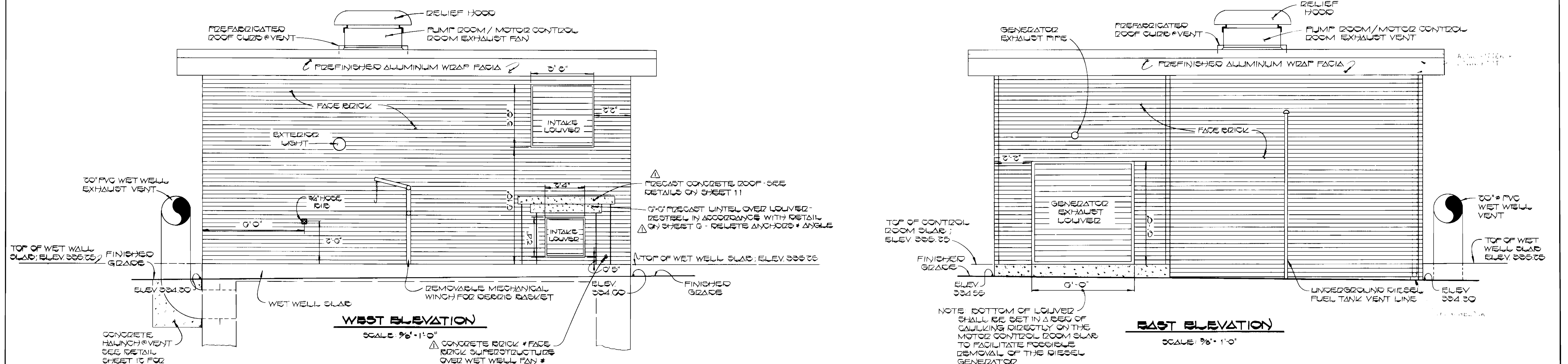


**SOUTH ELEVATION**  
SCALE: 3/8" = 1'-0"

**NORTH ELEVATION**  
SCALE: 3/8" = 1'-0"

NOTE: THE LOCATIONS OF THE LOUVERS AS SHOWN MAY REQUIRE ADJUSTMENT IN THE FIELD TO MAINTAIN NECESSARY COORDINATION WITH THE PARTICULAR EQUIPMENT SELECTED FOR INSTALLATION IN THE PUMPING STATION.

30'-30' ACCESS HATCH PRECAST CONCRETE ROOF, SEE DETAILS SHEET 11  
 REMOVABLE MECHANICAL WINCH FOR DERDIS BASKET  
 30" PVC WET WELL EXHAUST VENT  
 TOP OF WET WELL SLAB ELEV. 335.75  
 FINISHED GRADE  
 ELEV. 334.00  
 WET WELL SLAB  
 WET WELL  
 DOUBLE 2'-0" x 1'-0" HOLLOW METAL FRAME DOORS (NO CENTER POST)  
 CONCRETE BRICK & FACE BRICK SUPERSTRUCTURE OVER WET WELL FAN & MOTOR  
 CONCRETE HAUNCH & VENT SEE DETAIL SHEET 13 FOR BESTEEL  
 SOLIDIER COURSE; 1/2" PROJECTION  
 EXTERIOR LIGHT  
 PREFINISHED ALUMINUM WRAP FACIA  
 SOLIDIER COURSE; NO PROJECTION  
 9'-0"  
 FACE BRICK  
 10'-0"  
 1/2" PROJECTION THIS SIDE ONLY  
 RELIEF HOOD  
 PREFABRICATED ROOF CURB & VENT  
 PUMP ROOM / MOTOR CONTROL ROOM EXHAUST VENT  
 1/2" PROJECTION THIS FACE ONLY  
 TOP OF WET WELL SLAB ELEV. 335.75  
 FINISHED GRADE  
 ELEV. 334.50  
 30'-30' ACCESS HATCH PRECAST CONCRETE ROOF, SEE DETAILS SHEET 11  
 REMOVABLE MECHANICAL WINCH FOR DERDIS BASKET  
 30" PVC WET WELL VENT  
 ELEV. 335.75  
 FINISHED GRADE  
 ELEV. 334.30  
 WET WELL SLAB  
 WET WELL  
 CONCRETE BRICK & FACE BRICK SUPERSTRUCTURE OVER WET WELL FAN & MOTOR  
 CONCRETE HAUNCH & VENT SEE DETAIL SHEET 13 FOR BESTEEL



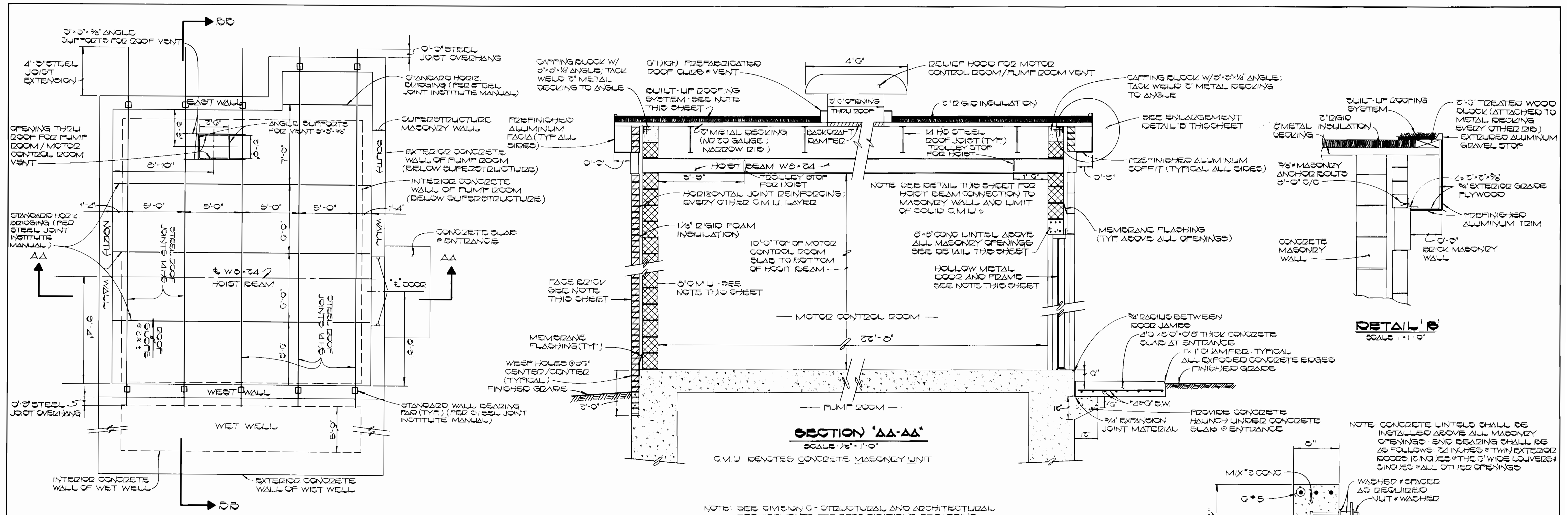
**WEST ELEVATION**  
SCALE: 3/8" = 1'-0"

**EAST ELEVATION**  
SCALE: 3/8" = 1'-0"

NOTE: BOTTOM OF LOUVER SHALL BE SET IN A BED OF CAULKING DIRECTLY ON THE MOTOR CONTROL ROOM SLAB TO FACILITATE POSSIBLE REMOVAL OF THE DIESEL GENERATOR

30" PVC WET WELL EXHAUST VENT  
 TOP OF WET WALL SLAB; ELEV. 335.75  
 FINISHED GRADE  
 ELEV. 334.30  
 WET WELL SLAB  
 WET WELL  
 REMOVABLE MECHANICAL WINCH FOR DERDIS BASKET  
 ELEV. 334.00  
 FINISHED GRADE  
 CONCRETE BRICK & FACE BRICK SUPERSTRUCTURE OVER WET WELL FAN & MOTOR  
 CONCRETE HAUNCH & VENT SEE DETAIL SHEET 13 FOR BESTEEL  
 RELIEF HOOD  
 PREFABRICATED ROOF CURB & VENT  
 PUMP ROOM / MOTOR CONTROL ROOM EXHAUST FAN  
 PREFINISHED ALUMINUM WRAP FACIA  
 3'-0"  
 FACE BRICK  
 EXTERIOR LIGHT  
 INTAKE LOUVER  
 2'-0"  
 9'-0"  
 2'-0"  
 2'-0"  
 TOP OF WET WELL SLAB; ELEV. 335.75  
 FINISHED GRADE  
 ELEV. 334.50  
 GENERATOR EXHAUST PIPE  
 PREFABRICATED ROOF CURB & VENT  
 RELIEF HOOD  
 PUMP ROOM / MOTOR CONTROL ROOM EXHAUST VENT  
 PREFINISHED ALUMINUM WRAP FACIA  
 3'-0"  
 FACE BRICK  
 GENERATOR EXHAUST LOUVER  
 2'-0"  
 9'-0"  
 2'-0"  
 2'-0"  
 TOP OF WET WELL SLAB; ELEV. 335.75  
 FINISHED GRADE  
 ELEV. 334.30  
 UNDERGROUND DIESEL FUEL TANK VENT LINE  
 30" PVC WET WELL VENT  
 TOP OF WET WALL SLAB; ELEV. 335.75

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 6-9-86 CHIEF, BUREAU OF UTILITIES		FISHER, COLLINS AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 DATE: 1/18/86 TERRELL A. FISHER		DES: P.W.K. DRN: D.B.S. CHK: T.A.F. DATE: 1-00-87		ARCHITECTURAL ELEVATIONS 600' SCALE MAP NO. _____ BLOCK NO. _____		CHERRYTREE FARM WASTEWATER PUMPING STATION CONTRACT NO. 20-1356-D SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		SCALE AS SHOWN SHEET 5 OF 15
---	--	---	--	--	--	--	--	---	--	---------------------------------



NOTE: SEE DIVISION C - STRUCTURAL AND ARCHITECTURAL REQUIREMENTS FOR SPECIFICATIONS REGARDING THE FOLLOWING:

- BUILT-UP ROOFING SYSTEM (INCLUDING GUARANTEE REQUIREMENTS)
- DOOR, DOOR FRAME AND ASSOCIATED HARDWARE
- CONCRETE MASONRY UNITS (C.M.U.'s)
- BRICK MASONRY UNITS (FACE BRICK)

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS  
DATE: 6-4-86

CHIEF, BUREAU OF ENGINEERING  
DATE: 6-5-86

CHIEF, LAND DEVELOPMENT DIVISION  
DATE: 6-4-86

FISHER, COLLINS AND CARTER, INC.  
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043

STATE OF MARYLAND  
REGISTERED PROFESSIONAL ENGINEER  
DATE: 10/20

DES: P.W.K.			
DRN: D.B.S.			
CHK: T.A.F.			
DATE:			
BY:			
NO:			
REVISION:			
DATE:			

ARCHITECTURAL DETAILS

600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

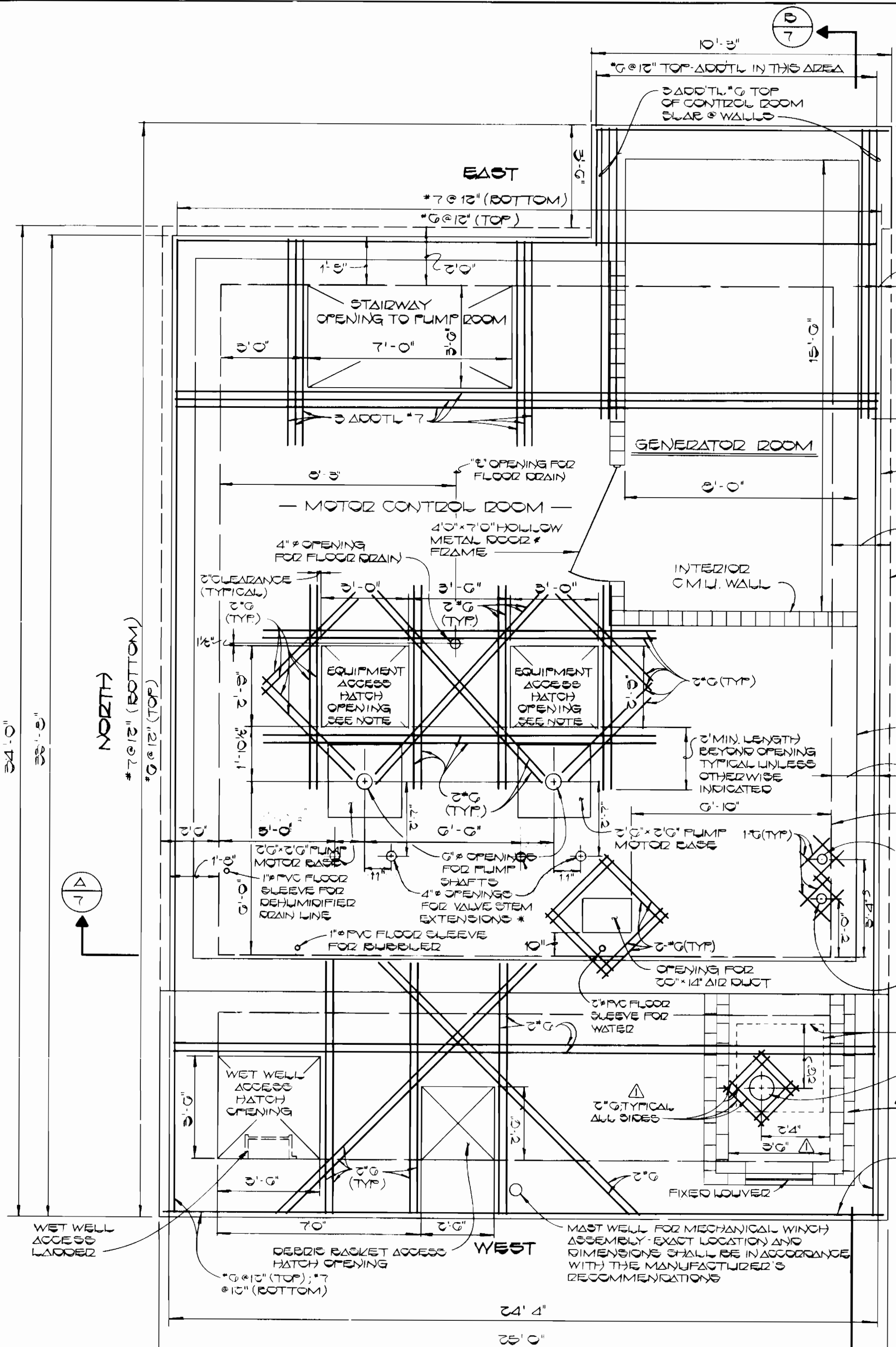
CHERRYTREE FARM  
WASTEWATER PUMPING STATION  
CONTRACT NO. 20-1356-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 6 OF 15

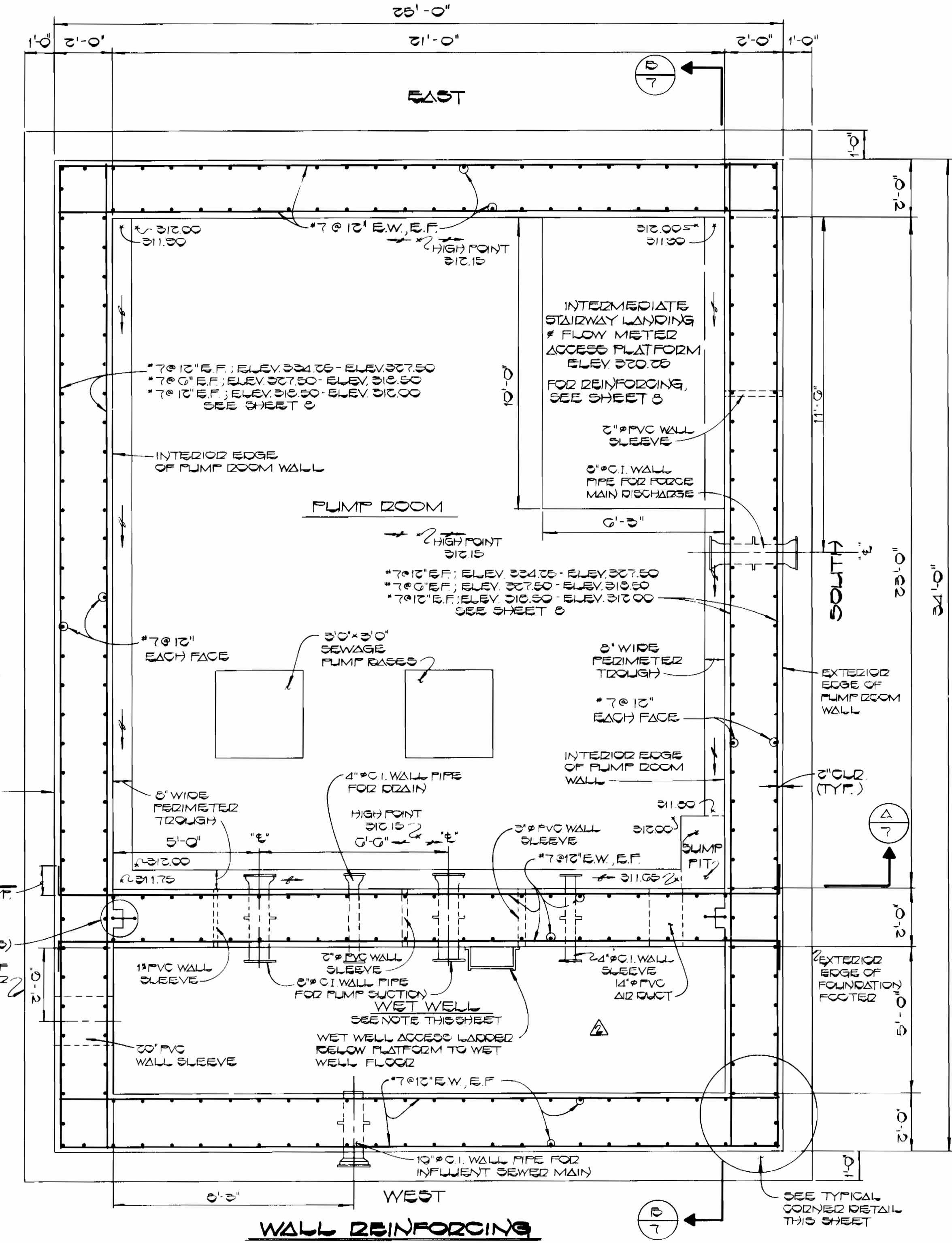
**GENERAL STRUCTURAL NOTES**

1. ALL MATERIALS AND METHODS OF ARCHITECTURAL AND STRUCTURAL CONSTRUCTION FOR THE PUMPING STATION SHALL CONFORM TO THE HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (VOLUME IV), DIVISION 6 OF THE CONTRACT SPECIFICATIONS AND THE LATEST O.S.H.A. STANDARDS, AS REQUIRED AND APPLICABLE.
2. DESIGN LIVE LOADS:  
ROOF - 30 P.S.F., FLOORS - 100 P.S.F. PLUS CONCENTRATED EQUIPMENT LOADS, GRATING PLATFORM AND HATCHES - 100 P.S.F., HORIZONTAL WIND LOAD - 20 P.S.F.
3. FLOTATION:  
THE ENTIRE SUB-STRUCTURE, COMPLETE IN PLACE AND BACKFILLED, IS DESIGNED TO OFFSET UPLIFT DUE TO HYDROSTATIC PRESSURE DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT THE POSSIBILITY OF FLOTATION PRIOR TO THE COMPLETION OF BACKFILLING OPERATIONS.
4. CONCRETE:  
A. ALL CONCRETE WORK, BOTH PLAIN AND REINFORCED, SHALL BE IN ACCORDANCE WITH THE LATEST A.C.I. SPECIFICATIONS.  
B. REINFORCING STEEL SHALL CONFORM TO A.S.T.M. DESIGNATION A-615, GRADE 60.  
C. ALL EXPOSED CORNERS SHALL BE CHAMFERED, 1" x 1" UNLESS OTHERWISE NOTED.  
D. ALL OPENINGS THROUGH WALLS SHALL BE WATERTIGHT.  
E. THE MECHANICAL AND ELECTRICAL PLANS MAY INDICATE THE LOCATIONS OF OPENINGS NOT SHOWN ON THE STRUCTURAL PLANS.  
F. ALL EXTERIOR CONCRETE WALLS BELOW FINISHED GRADE SHALL BE COATED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE SPECIFICATIONS.
5. EARTHWORK:  
A. ALL EXCAVATION FOR STRUCTURES SHALL BE KEPT FREE OF WATER UNTIL BACKFILL IS PROPERLY TAMPED IN PLACE TO FINISHED GRADE.  
B. NO BACKFILL SHALL BE PLACED UNTIL THE CONCRETE HAS REACHED ITS REQUIRED 28-DAY COMPRESSIVE STRENGTH.  
C. BACKFILL SHALL BE PLACED IN 6" LAYERS AND COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH A.S.H.T.O. DESIGNATION T-180 METHOD - C.  
D. CONTRACTOR SHALL ADEQUATELY PROTECT ALL WALLS DURING BACKFILL OPERATIONS.
6. REINFORCING STEEL:  
A. REINFORCING STEEL SHALL CONFORM TO A.S.T.M. DESIGNATION A-615, GRADE 60.  
B. REINFORCING STEEL SHALL BE FREE FROM MUD, OIL AND OTHER NON-METALLIC COATINGS THAT ADVERSELY AFFECT BONDING CAPACITY.  
C. ALL SPLICING OF BARS, PLACEMENT TOLERANCES AND BAR SPACINGS SHALL CONFORM TO A.C.I. 318-77.  
D. ALL STRUCTURAL STEEL SHALL BE A.S.T.M. A-36.  
E. ALL BOLTS EXCEPT NON-HEADED ANCHOR BOLTS SHALL BE A.S.T.M. A-325 HIGH STRENGTH BOLTS.  
F. ALL NON-HEADED ANCHOR BOLTS SHALL BE A.S.T.M. A-307.  
G. ALL STRUCTURAL ALUMINUM SHALL BE A.S.T.M. B-221.  
H. ALL ALLOY BOLTS IN CONTACT WITH ALUMINUM SHALL BE STAINLESS STEEL.  
I. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST AMERICAN WELDING SOCIETY (AWS) CODE.
8. MISCELLANEOUS:  
A. ALL ALUMINUM SURFACES IN CONTACT WITH STEEL OR CONCRETE SHALL BE COATED PRIOR TO ERECTION AND/OR INSTALLATION.  
B. THERE SHALL BE NO CONTACT BETWEEN DISSIMILAR METALS OR BETWEEN ALUMINUM AND CONCRETE.



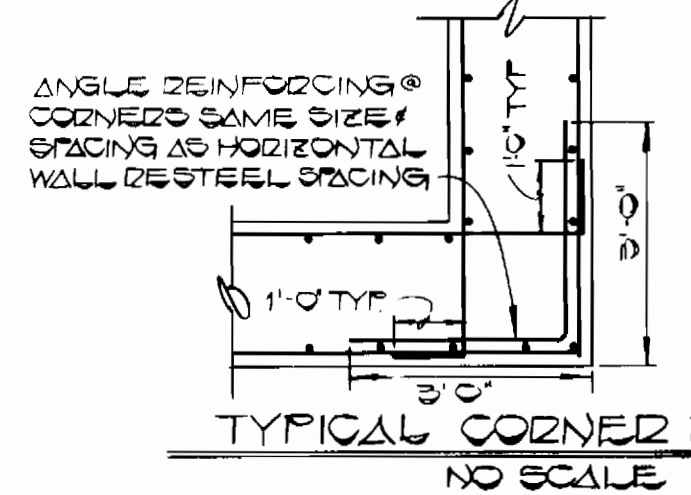
**CONTROL ROOM SLAB REINFORCING**  
SCALE 3/8" = 1'-0"

\* NOTE: THE EXACT LOCATIONS OF THE OPENINGS FOR THE PUMP VALVE STEM EXTENSIONS SHALL BE COORDINATED WITH THE PARTICULAR EQUIPMENT SELECTED



**WALL REINFORCING**  
SCALE 3/8" = 1'-0"

**WET WELL NOTE:**  
SEE SHEET 13 FOR ADDITIONAL ELEVATION VIEW OF THE WET WELL & DETAILS OF THE WET WELL ACCESS PLATFORM



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS  
*Robert M. Berman*  
CHIEF, BUREAU OF UTILITIES  
DATE: 6-4-86

FISHER, COLLINS AND CARTER, INC.  
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043

TERRELL A. FISHER  
DATE: 6/10/86

DES: P.W.K.					
DRN: D.B.S.					
CHK: T.A.F.	100	WET WELL MASONRY WALL REMOVED: MAY 03	3/11/03		
	000	ADD WET WELL SUPERSTRUCTURE	1-10-07		
DATE:	BY:	NO.	REVISION	DATE	

STRUCTURAL PLANS

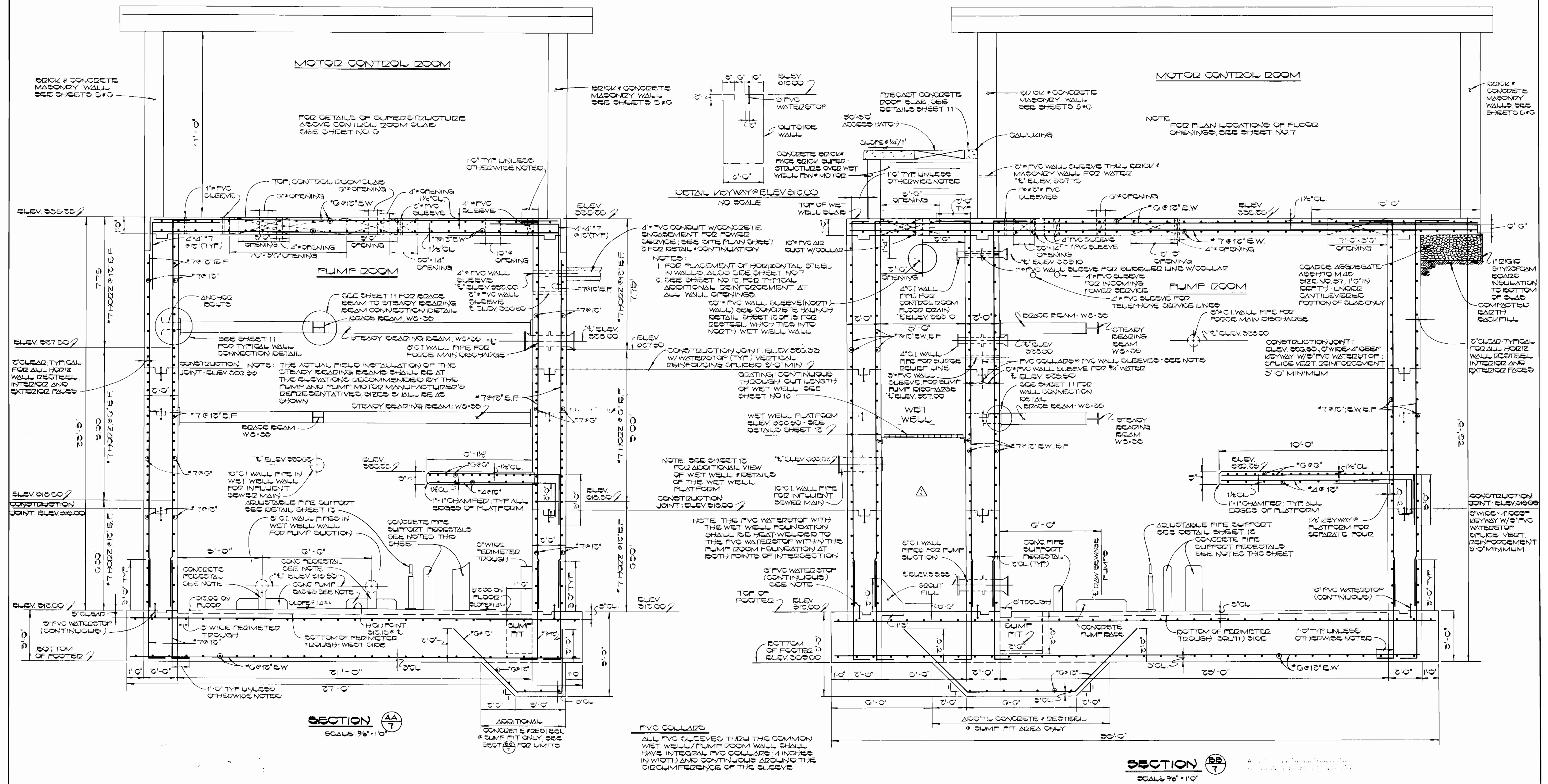
600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

CHERRYTREE FARM  
WASTEWATER PUMPING STATION  
CONTRACT NO. 20-1356-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 7 OF 15

**NOTES: CONCRETE SUPPORT PEDESTALS & BASES**

1. CONCRETE BASES & CONCRETE PIPE SUPPORT PEDESTALS ARE SHOWN SCHEMATICALLY ONLY IN THE STRUCTURAL SECTIONS. SEE SHEET 15 FOR PLAN DIMENSIONS, REINFORCEMENT AND ANCHOR BOLT REQUIREMENTS.
2. CONCRETE SUPPORTS SHALL BE PLACED UNDER THE RAW SEWAGE PUMPS, SWING CHECK VALVES, PUMP VALVES, THE LONG RADIUS BEND AND UNDER ALL OTHER EQUIPMENT IN THE PUMP ROOM & MOTOR CONTROL ROOM AS SHOWN OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
3. THE PLAN DIMENSIONS OF THE CONCRETE SUPPORT BASES & PEDESTALS AS SHOWN ON SHEET 15, MAY REQUIRE FIELD MODIFICATION TO CONFORM TO THE PARTICULAR EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS  
*R. L. ...*  
DATE: 6-4-96

CHIEF, BUREAU OF UTILITIES

FISHER, COLLINS AND CARTER, INC.  
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043

DATE: 6-5-96

CHIEF, LAND DEVELOPMENT DIVISION

DES: P.W.K.	
DRN: D.B.S.	
CHK: T.A.F.	
DATE:	
BY:	
NO.:	
REVISION:	
DATE:	

NET WELL MASONRY WALL REMOVED: MAY 03 2/1/03

STRUCTURAL SECTIONS

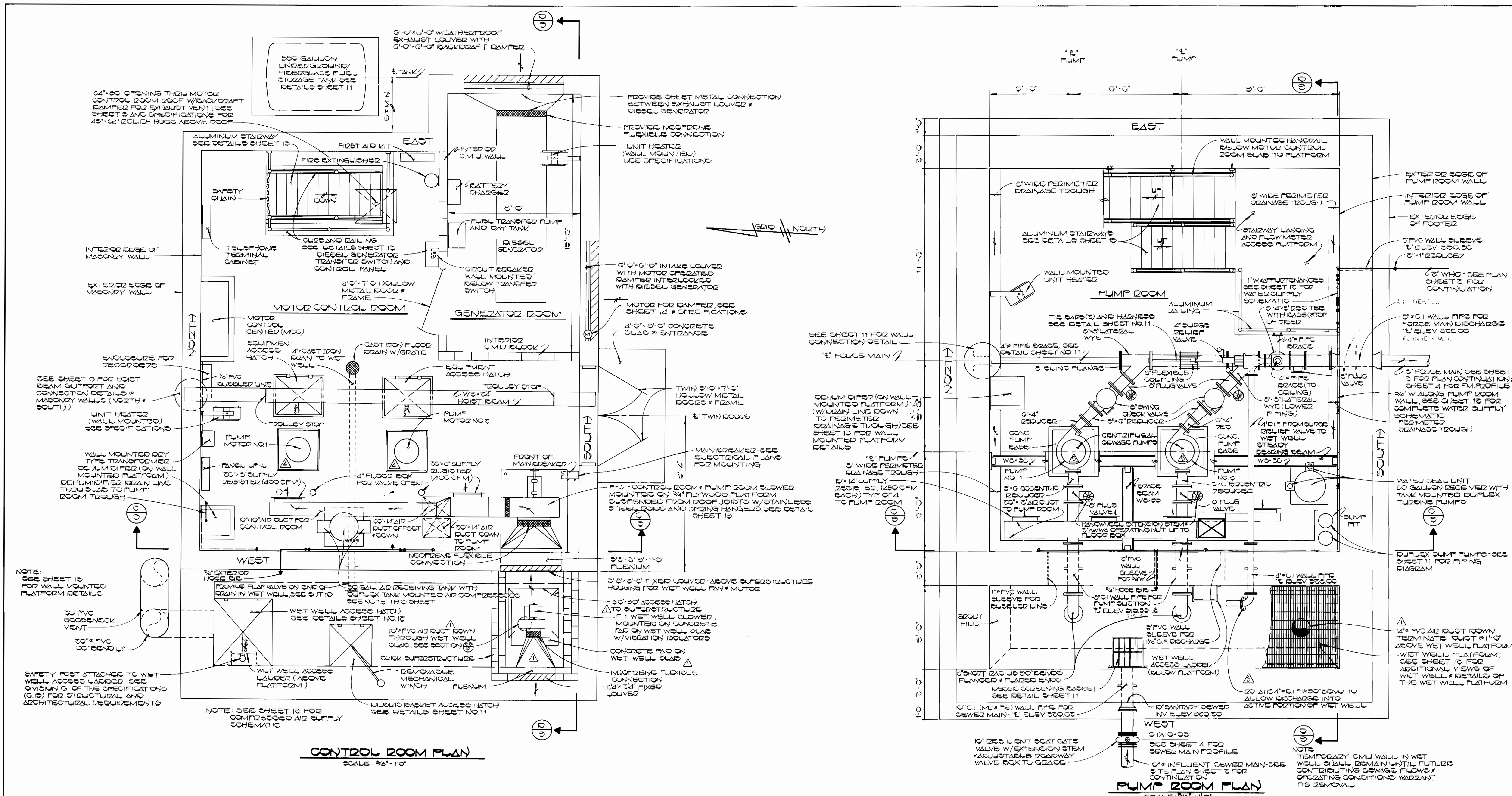
600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

CHERRYTREE FARM  
WASTEWATER PUMPING STATION  
CONTRACT NO. 20-1356-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 7 OF 15





**CONTROL ROOM PLAN**  
SCALE 3/8" = 1'-0"

**PUMP ROOM PLAN**  
SCALE 3/8" = 1'-0"

AS BUILT FROM INFORMATION PROVIDED BY LEE FOUNDATION

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

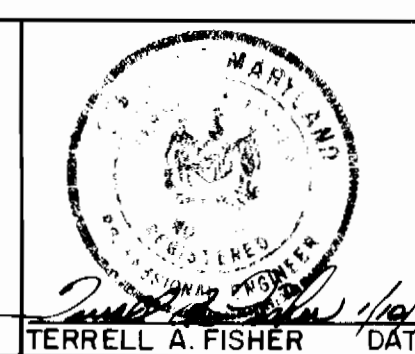
DIRECTOR OF PUBLIC WORKS DATE: 6-4-86  
 R. J. ... CHIEF, BUREAU OF UTILITIES

CHIEF, BUREAU OF ENGINEERING DATE: ...  
 ... CHIEF, LAND DEVELOPMENT DIVISION

FISHER, COLLINS AND CARTER, INC.  
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043

TERRELL A. FISHER DATE: 1/10/87



DES: P.W.K.	PCC	NEW CENTRIFUGAL PUMPS INSTALLED: MAY 03	9/1/03
DRN: D.B.S.	PCC	NEW 25HP MOTORS INSTALLED: MAY 02	9/1/03
CHK: T.A.F.	W.A.H.	WET WELL MASONRY WALL REMOVED: MAY 03	9/1/03
	D.B.S.	CORRECT PUMP SUCTION "E" ELEVATION IN PUMP ROOM PLAN	10-28-87
	D.B.S.	RELOCATE WET WELL FAN & MOTOR	10-28-87
DATE:	BY NO.	REVISION	DATE

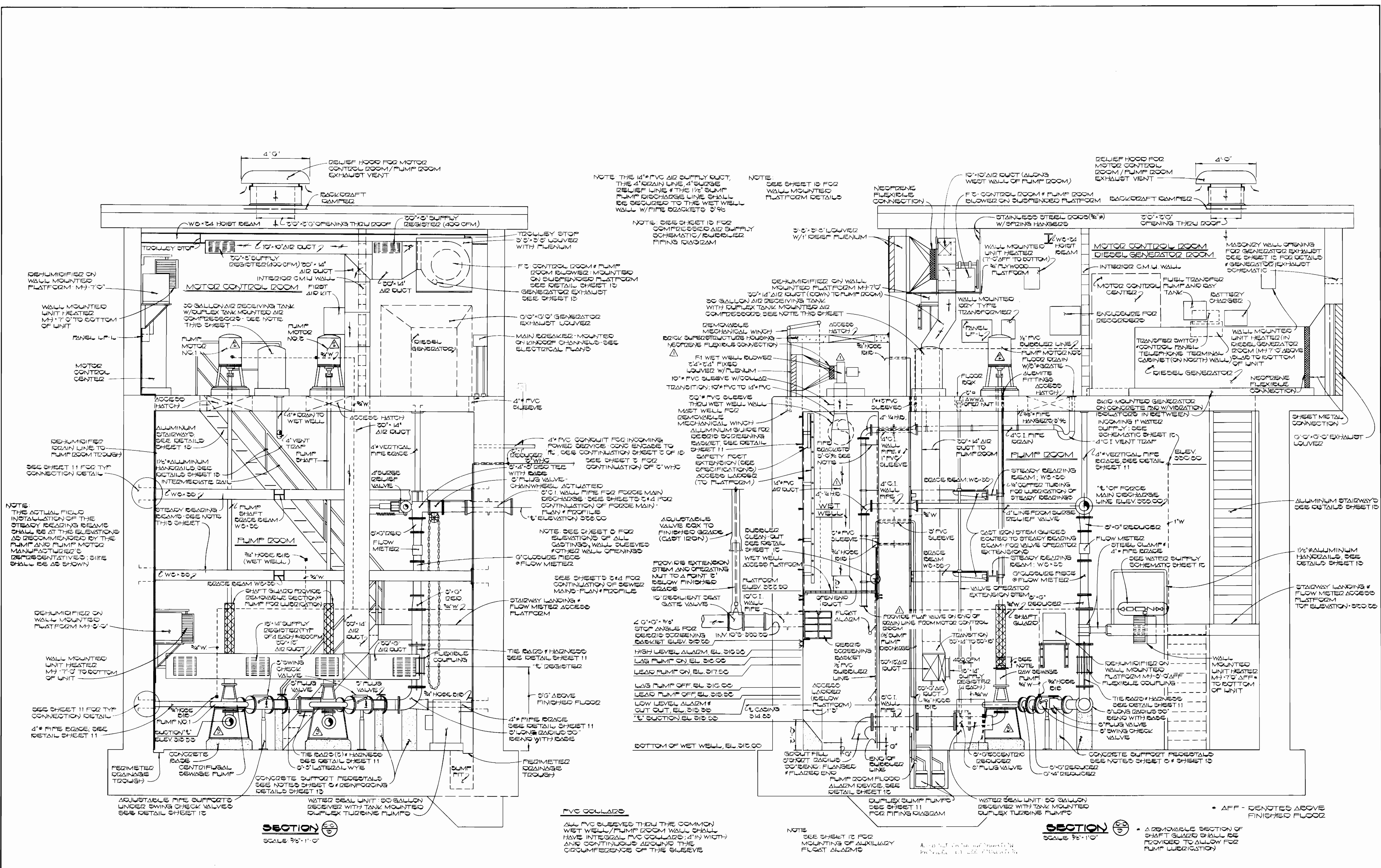
MECHANICAL PLANS

600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

**CHERRYTREE FARM  
WASTEWATER PUMPING STATION**  
CONTRACT NO. 20-1356-D

SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 OF 15



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS  
*John E. Harmer*  
DATE: 6-4-86

CHIEF, BUREAU OF ENGINEERING  
*Terrell A. Fisher*  
DATE: 6-4-86

CHIEF, LAND DEVELOPMENT DIVISION  
*Terrell A. Fisher*  
DATE: 6-4-86

FISHER, COLLINS AND CARTER, INC.  
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043

STATE OF MARYLAND  
REGISTERED PROFESSIONAL ENGINEERS  
TERRELL A. FISHER  
DATE: 6-4-86

DES: P.W.K.					
DRN: D.B.S.	P.C.C.	NEW CENTRIFUGAL PUMPS INSTALLED: MAY 03	6/1/03		
CHK: T.A.F.	J.J.F.	NEW GHP MOTORS INSTALLED: MAY 03	6/1/03		
DATE:	BY:	NO.	REVISION	DATE	

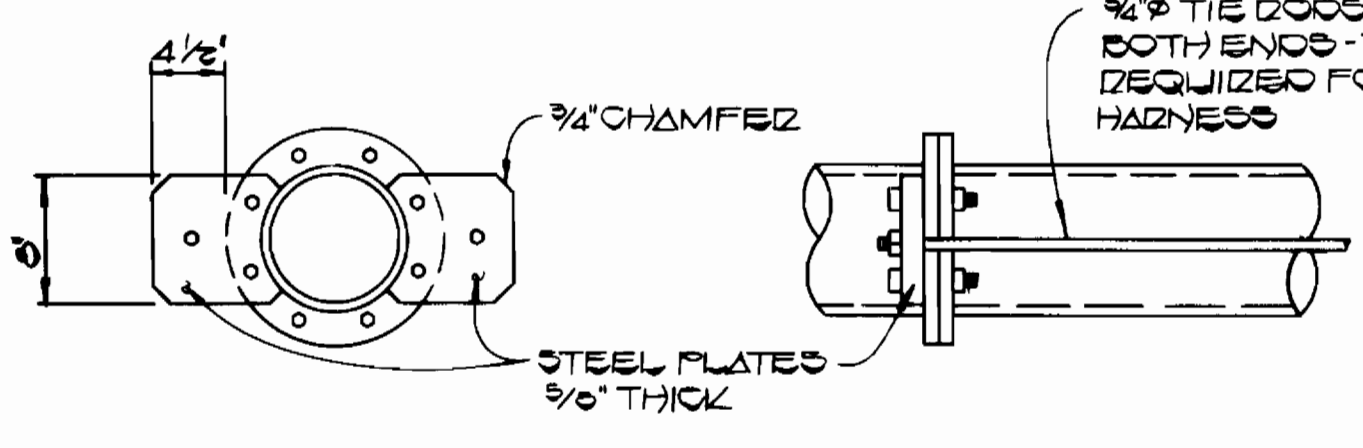
MECHANICAL SECTIONS

600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

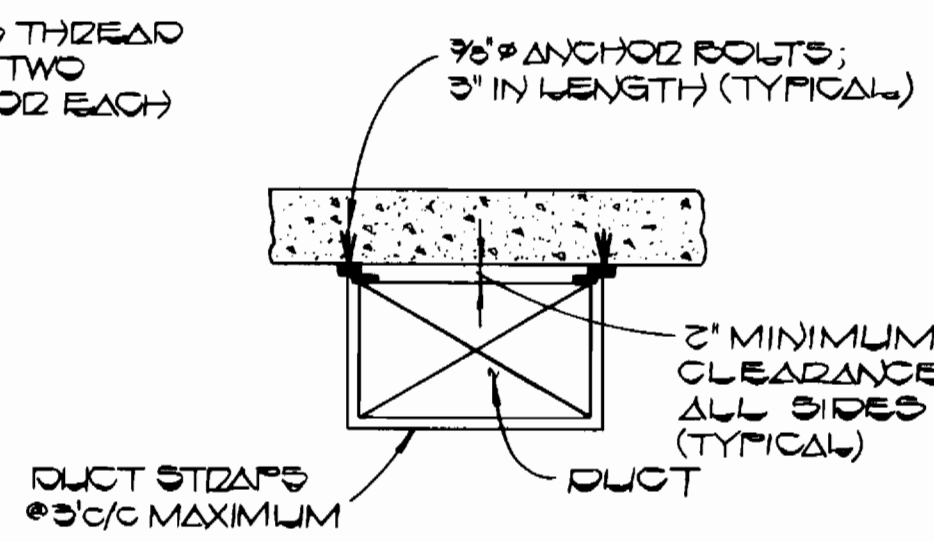
CHERRYTREE FARM  
WASTEWATER PUMPING STATION  
CONTRACT NO. 20-1356-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 10 OF 16

NOTES:  
 1. TWO TIE RODS REQUIRED FOR COUPLING.  
 2. THREAD BOLT ENDS FOR HEX HEAD NUTS.  
 3. PIPE HAZNESS SHALL BE INSTALLED ACROSS ALL FLEXIBLE COUPLINGS

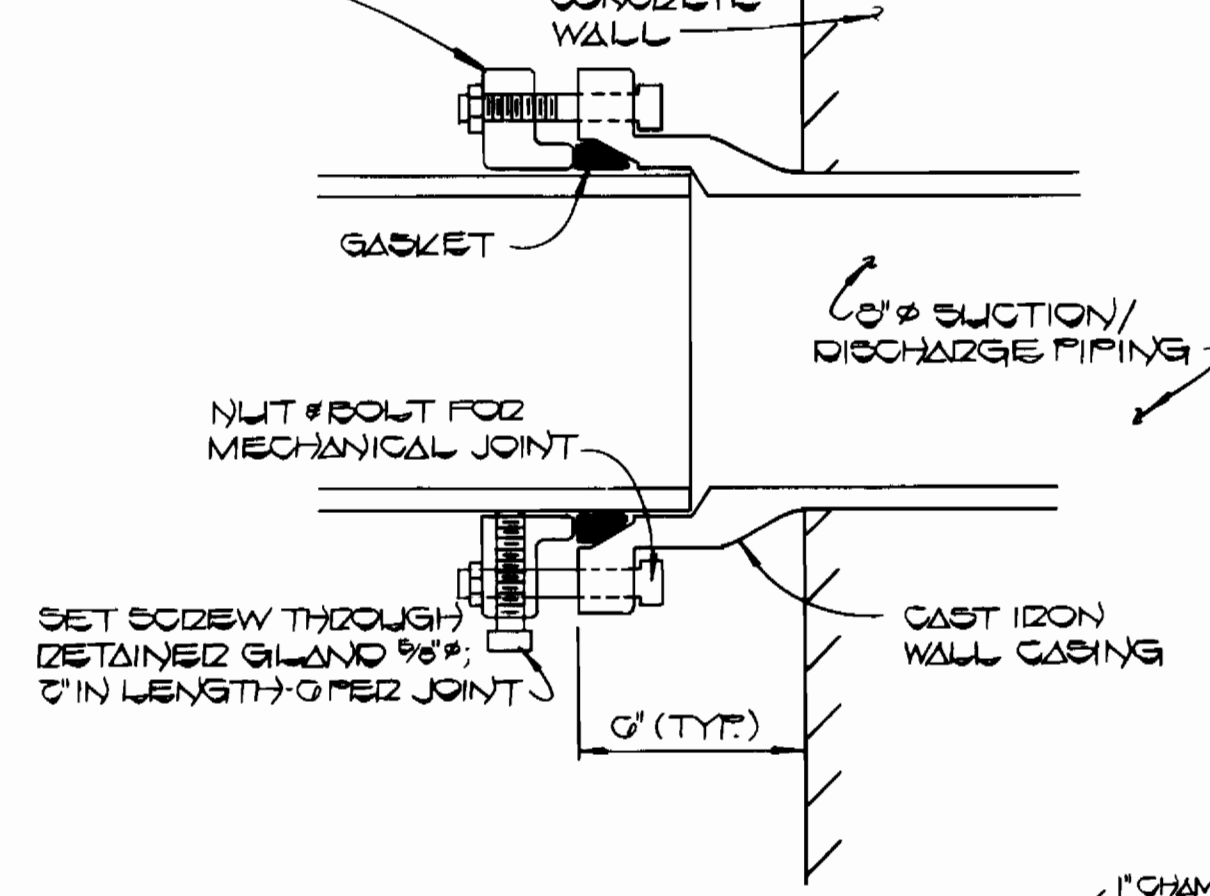


**PIPE HAZNESS DETAIL**  
NOT TO SCALE

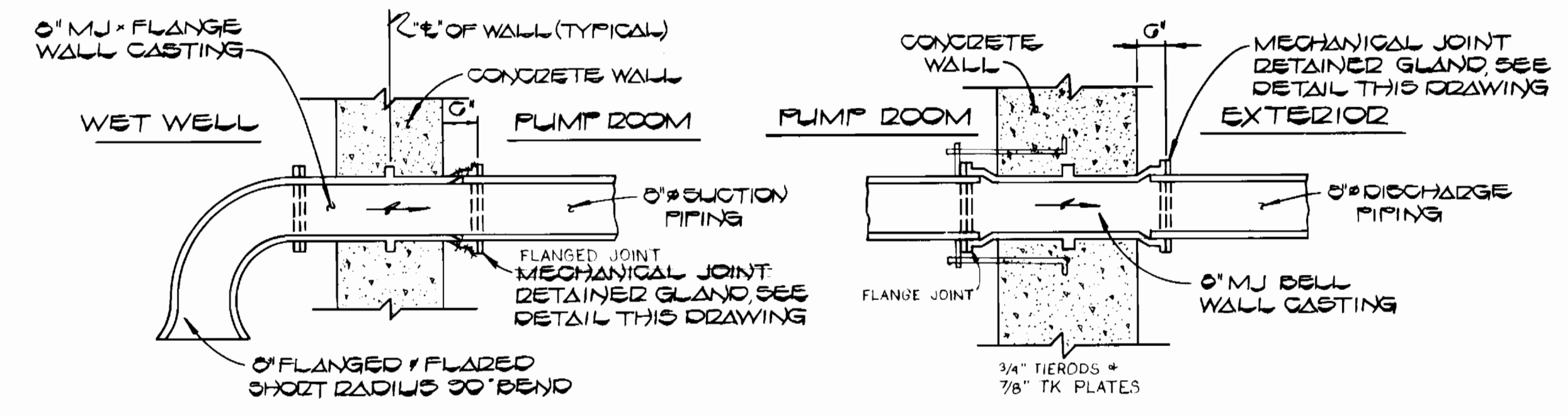


**TYPICAL DUCT INSTALLATION**  
NOT TO SCALE

TYPE "UL" SERIES 100 DUCTILE IRON RETAINED GLANDS PER ADA IRONING OR MECHANICAL JOINT RETAINED GLANDS F-1050 BY GLOW INC. OR EQUAL

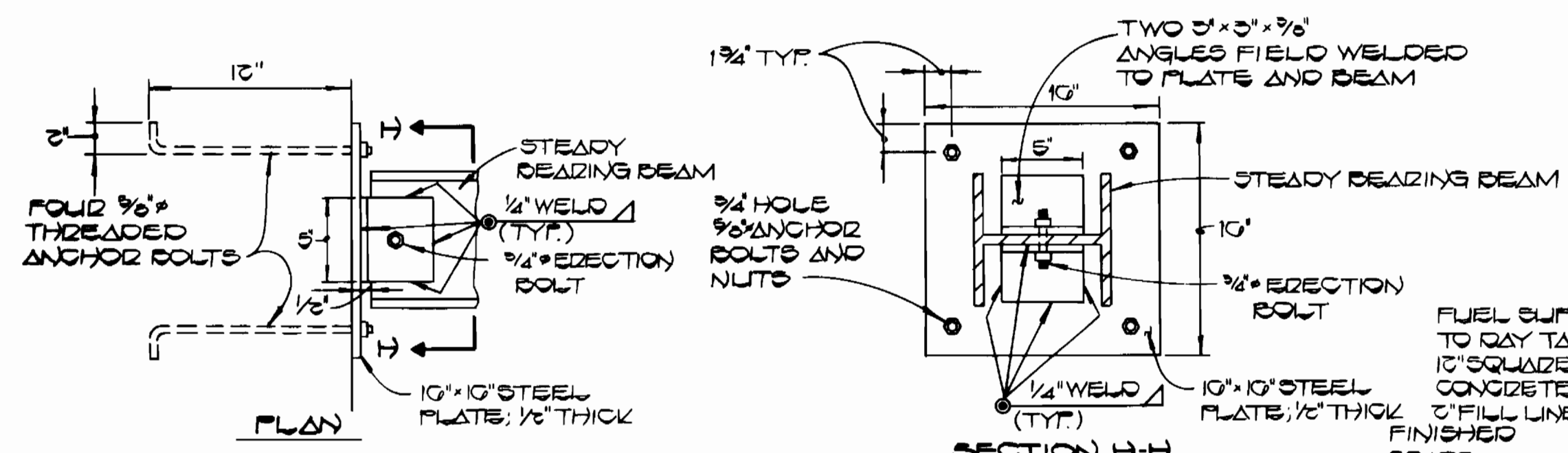


**MJ RETAINED GLAND DETAIL**  
NOT TO SCALE

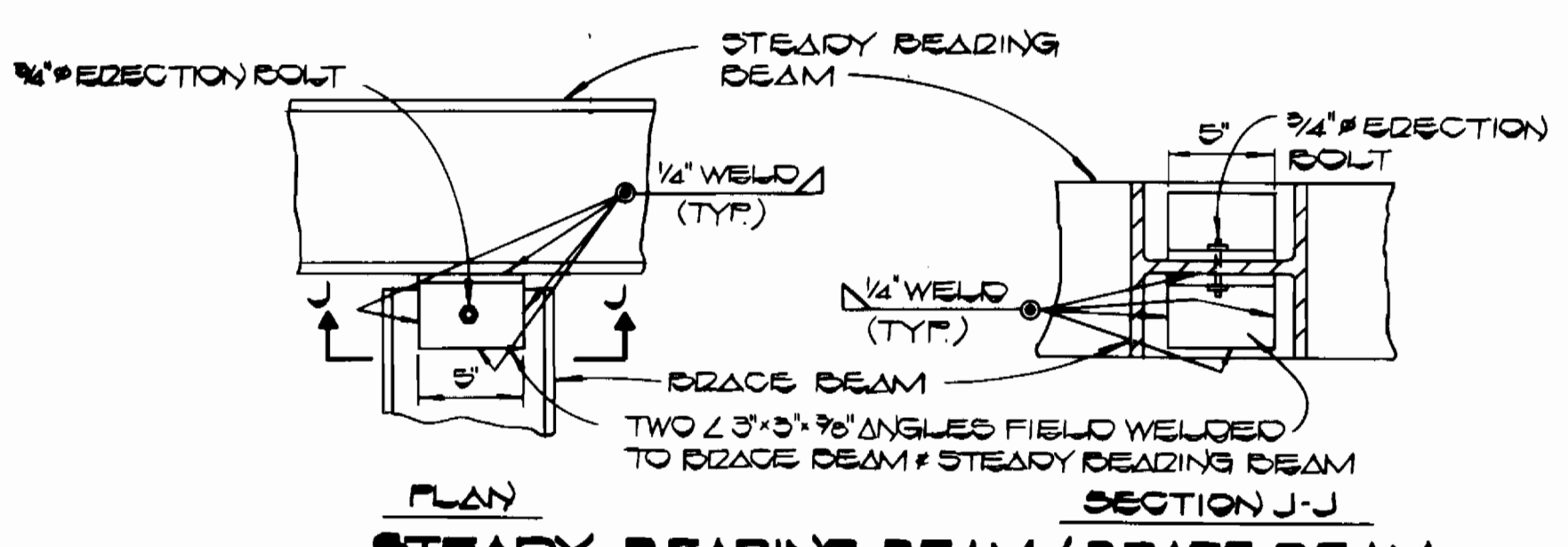


**WET WELL WALL CASTING DETAIL**  
NOT TO SCALE

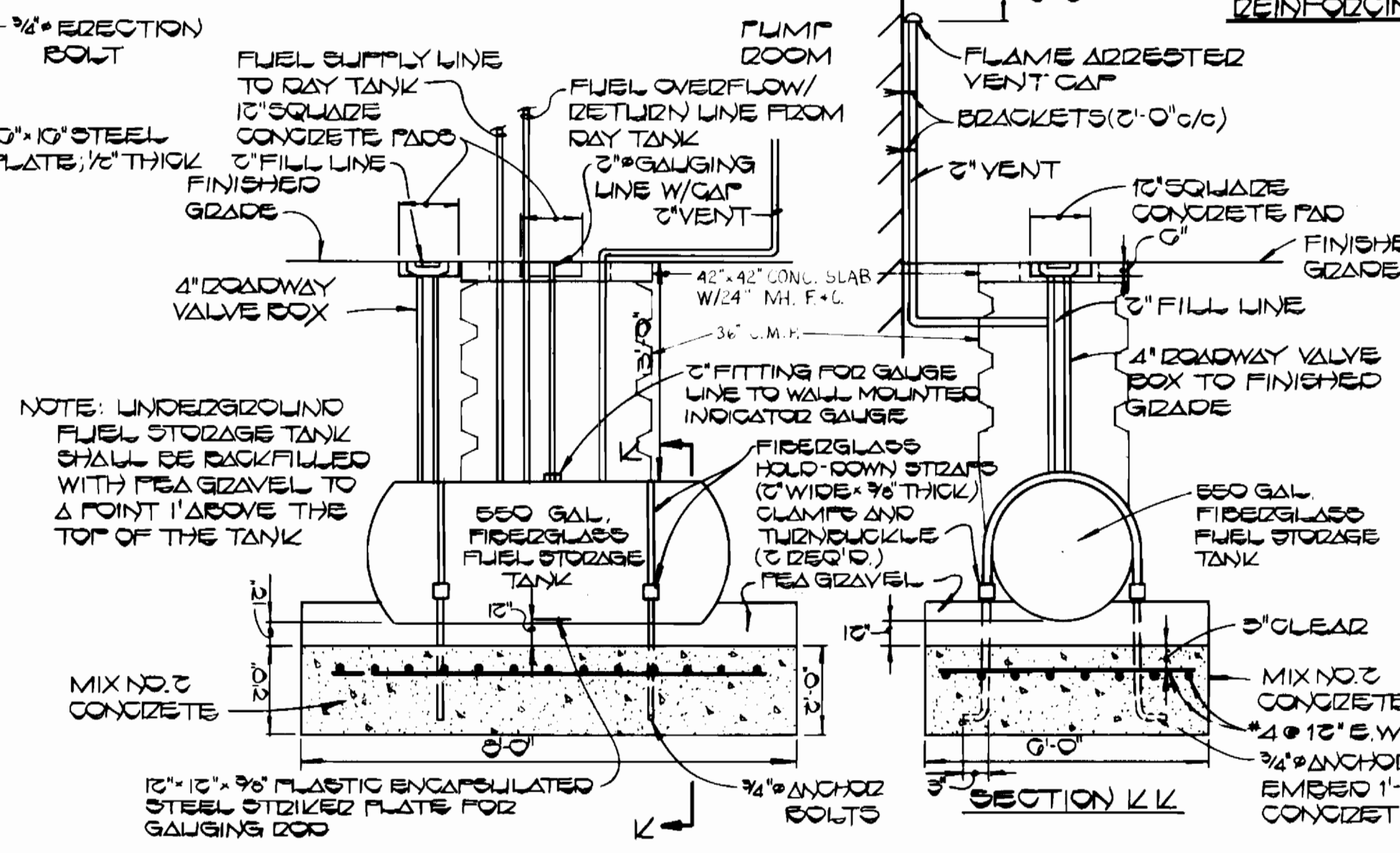
**FORCE MAIN WALL CASTING DETAIL**  
NOT TO SCALE



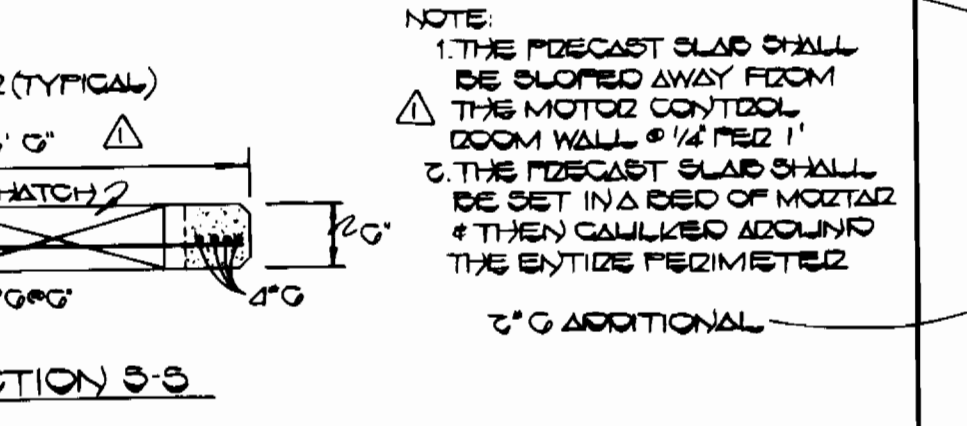
**STEADY BEARING AND BRACE BEAM WALL CONNECTION DETAILS**  
NO SCALE



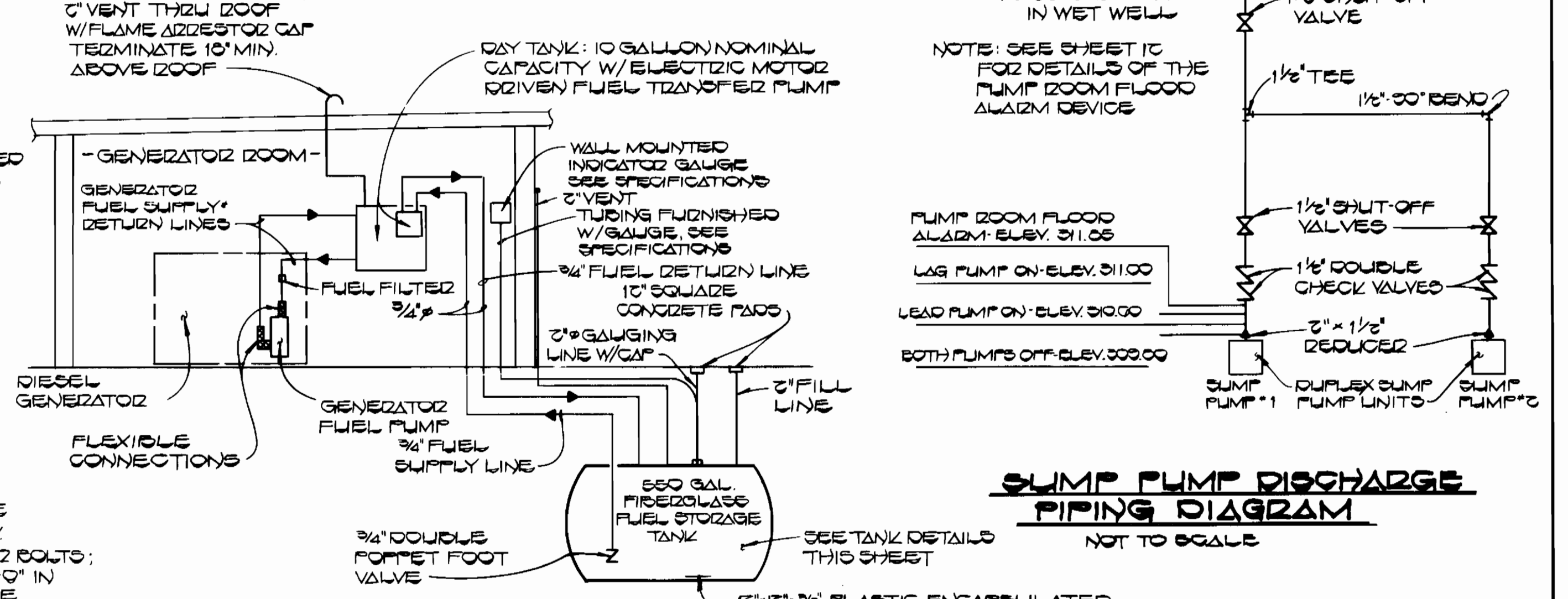
**STEADY BEARING BEAM / BRACE BEAM CONNECTION DETAILS**  
NO SCALE



**UNDERGROUND FUEL STORAGE TANK DETAILS**  
NOT TO SCALE

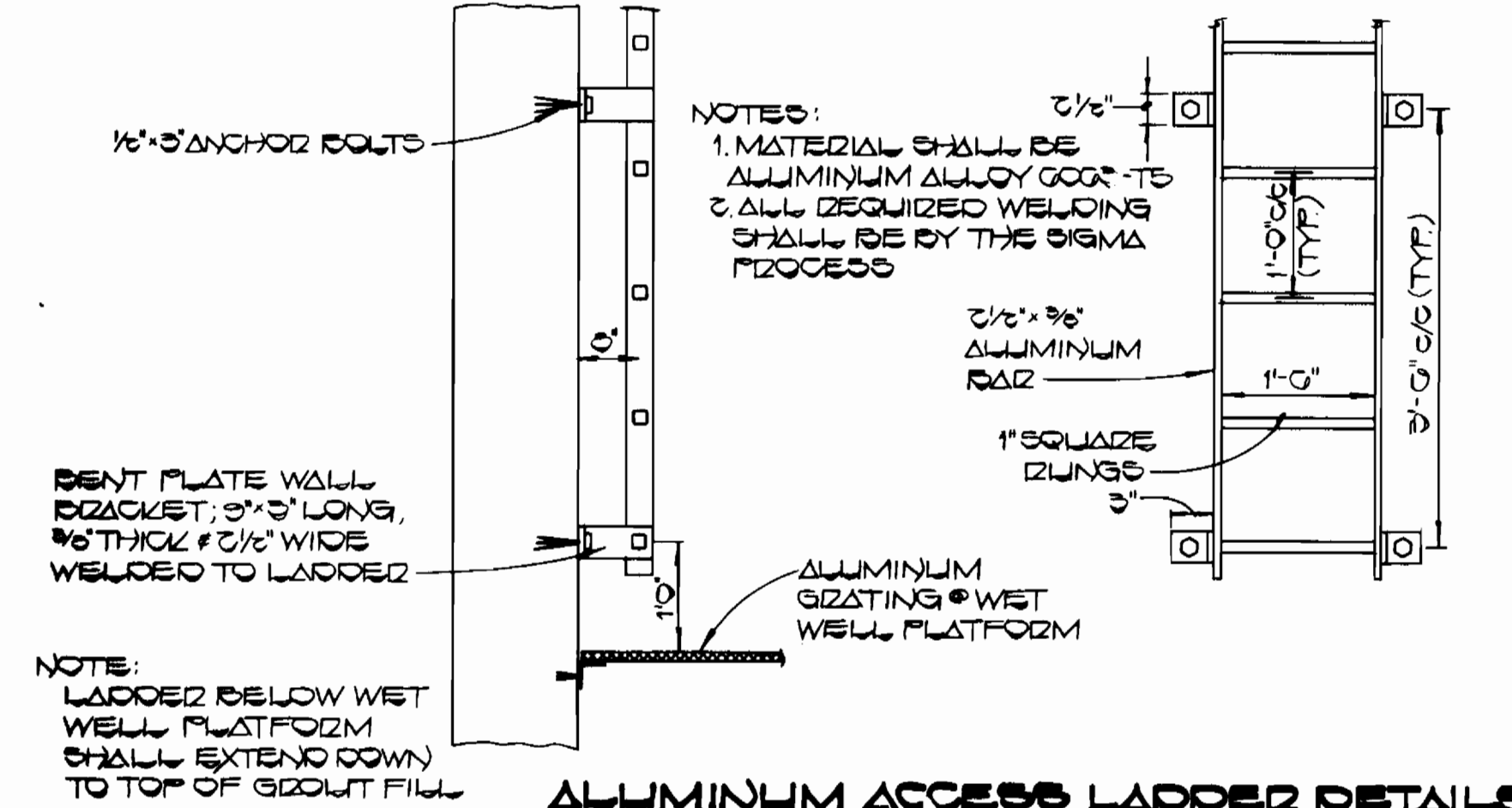


**REINFORCING DETAILS CONCRETE ROOF SLAB BRICK SUPERSTRUCTURE @ WET WELL**  
NO SCALE

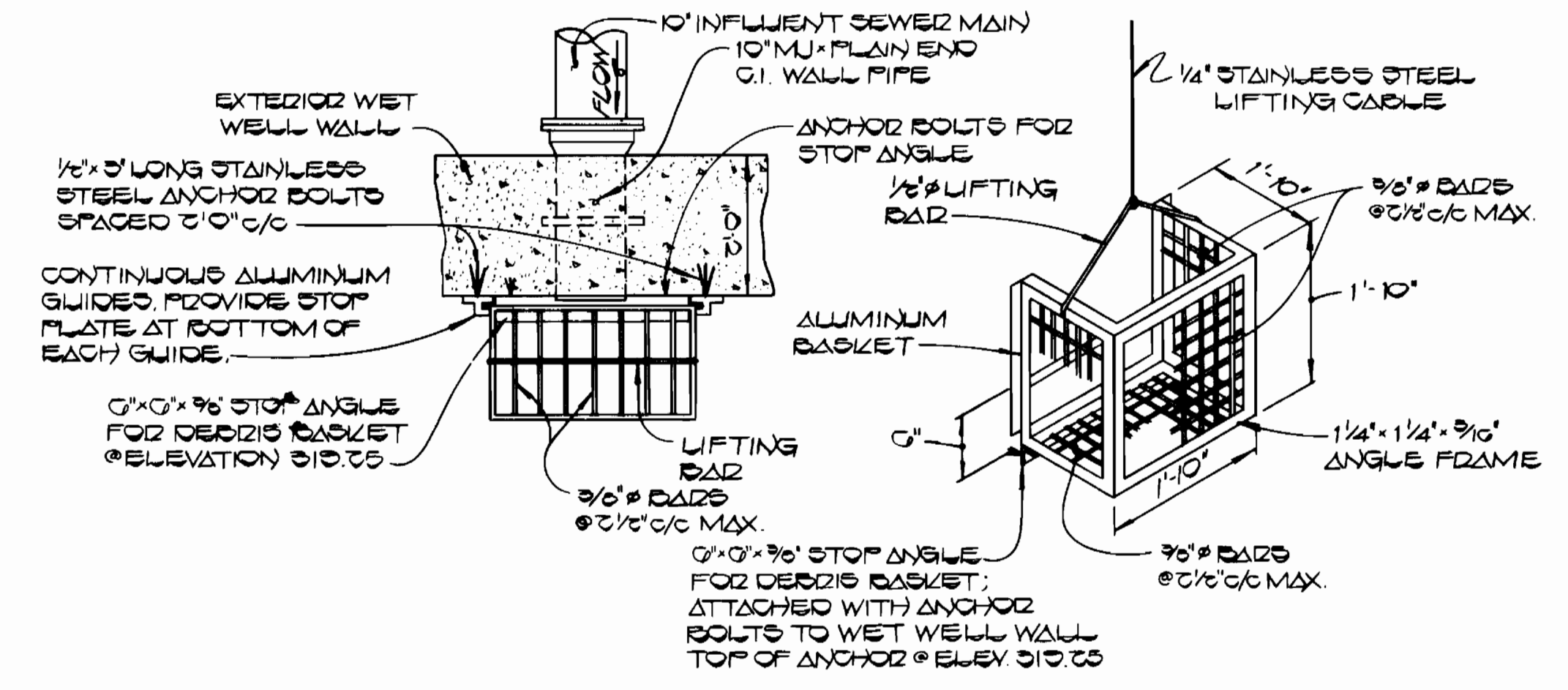


**FUEL PIPING DIAGRAM**  
NO SCALE

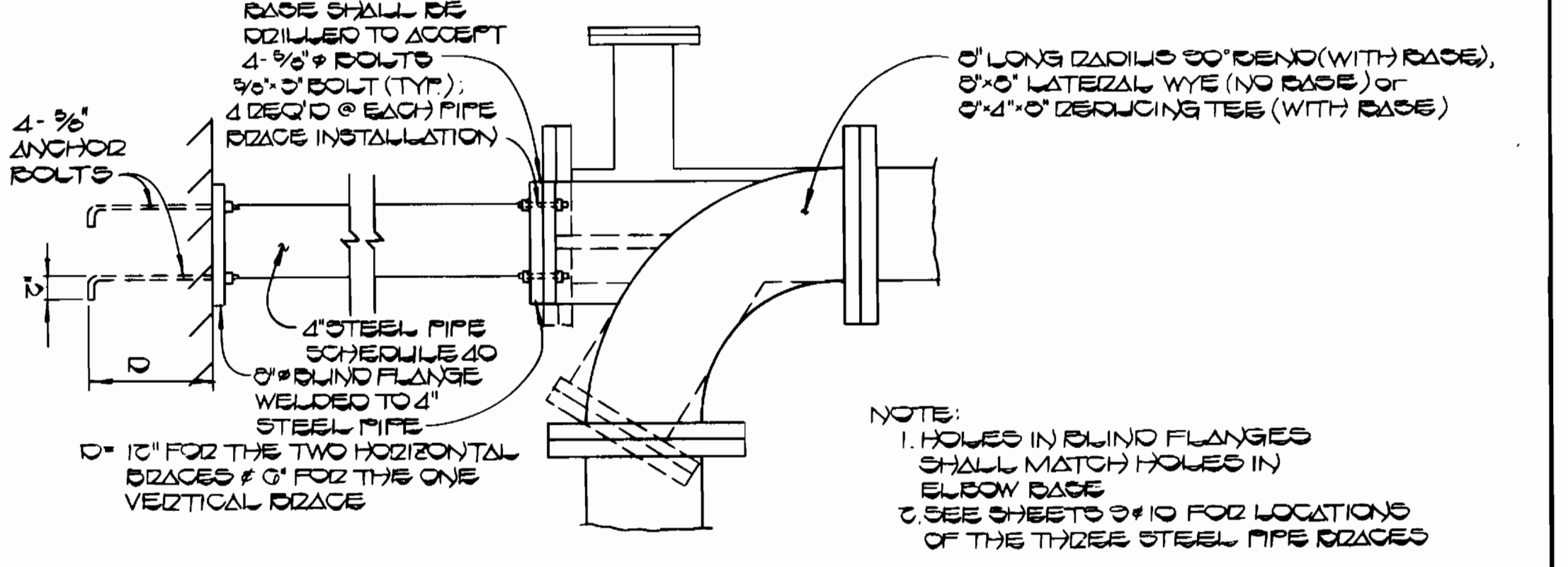
**SUMP PUMP DISCHARGE PIPING DIAGRAM**  
NOT TO SCALE



**ALUMINUM ACCESS LADDER DETAILS**  
NO SCALE



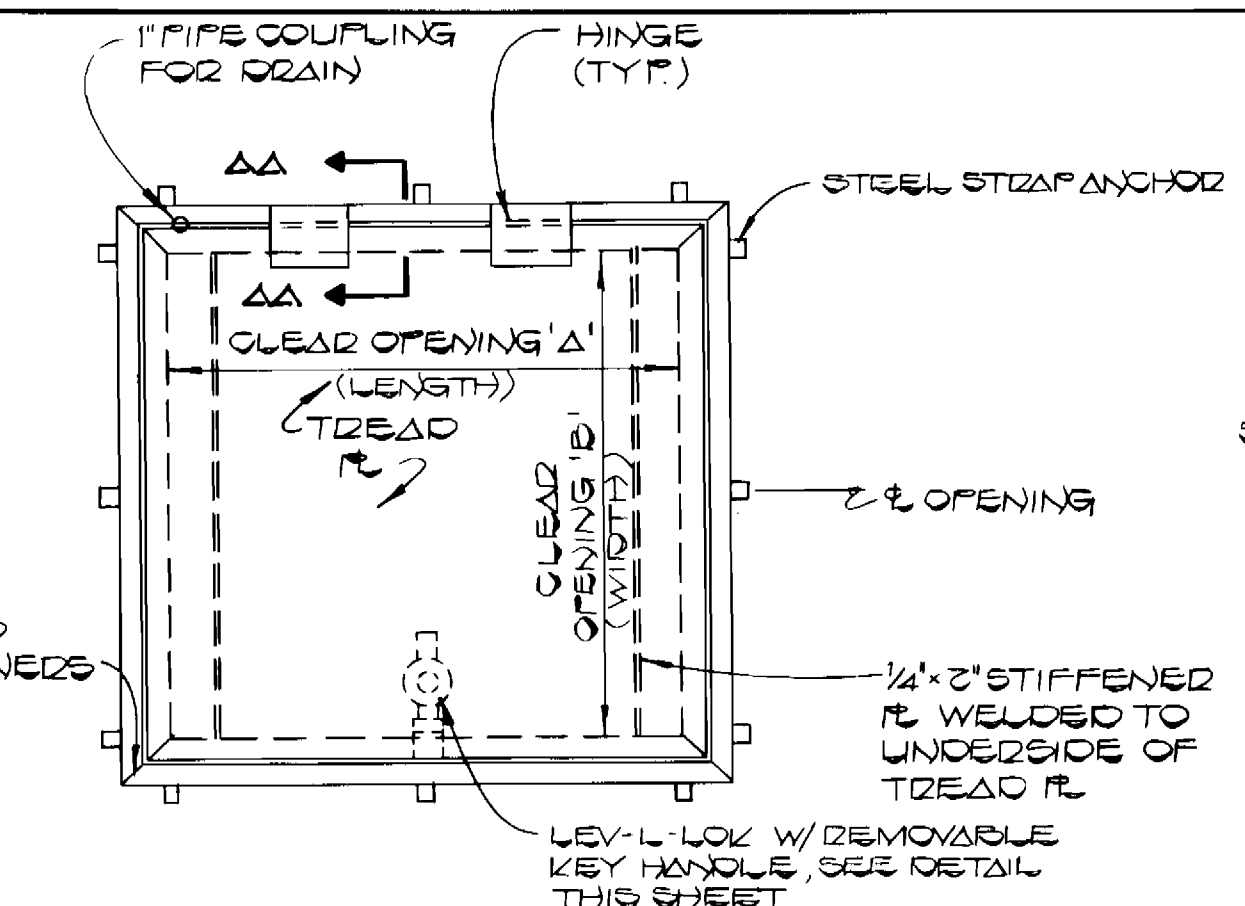
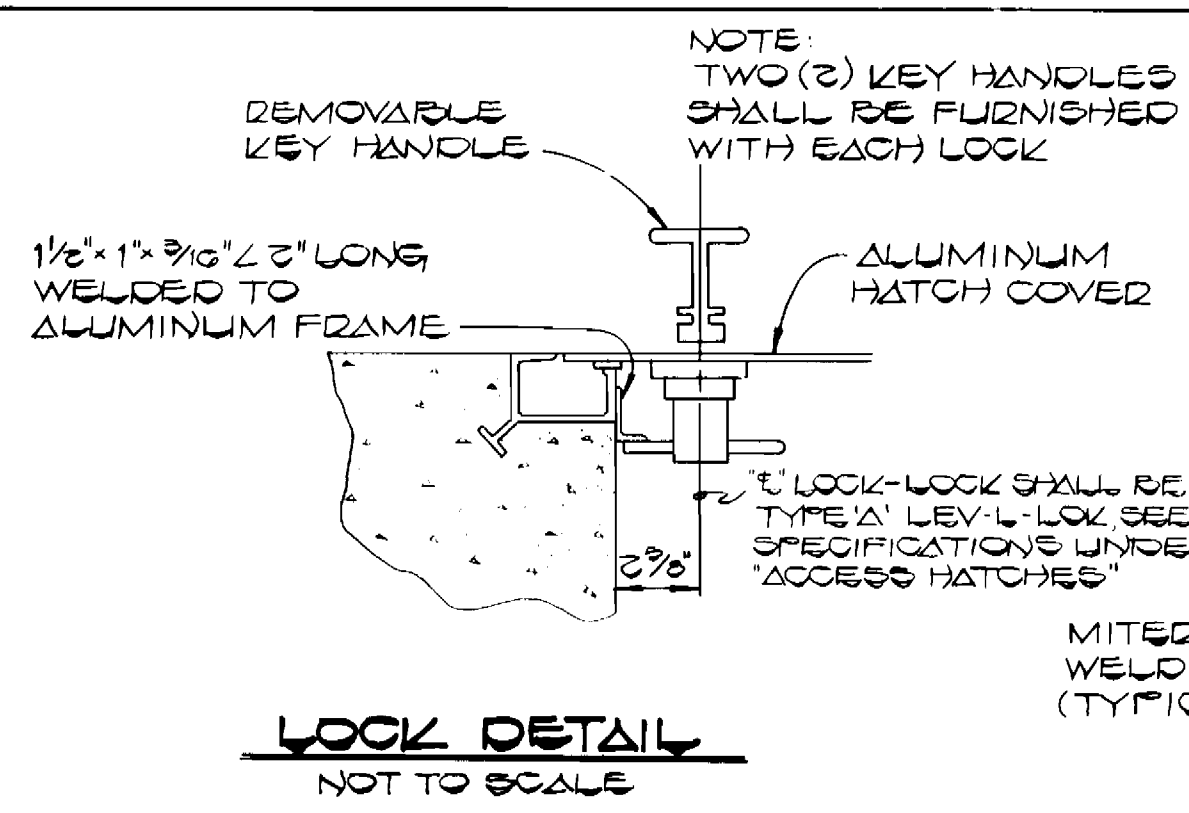
**DEBRIS SCREENING BASKET DETAILS**  
NOT TO SCALE



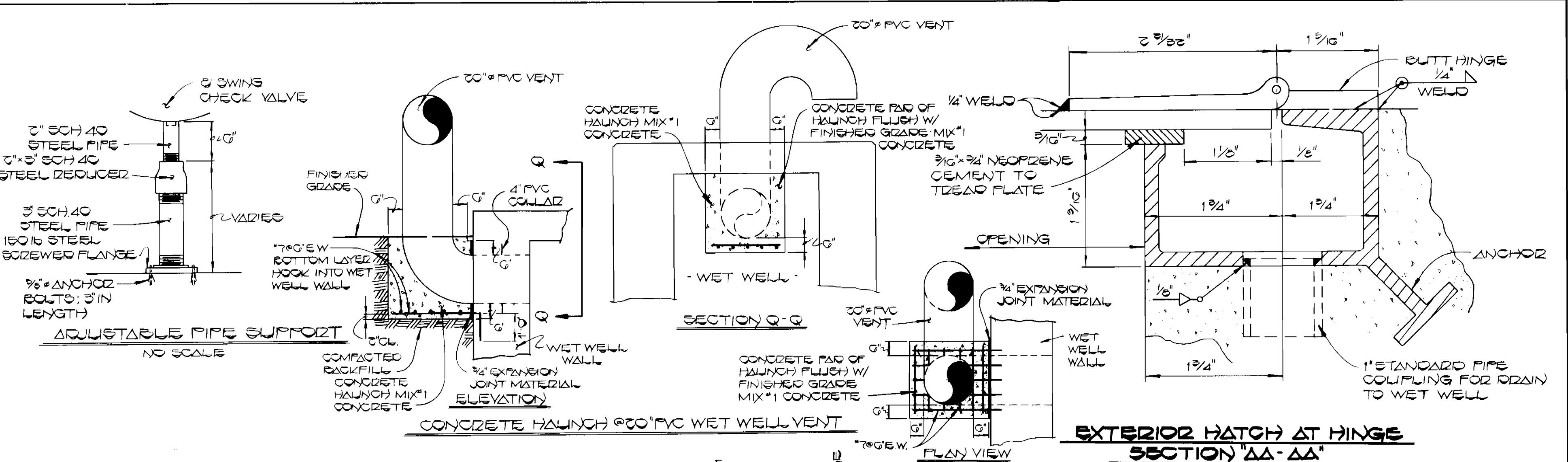
**STEEL PIPE BRACE DETAIL**  
NOT TO SCALE

AS-BUILT FROM INFORMATION PROVIDED BY LEE FOUNDATION

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS DATE: 6-4-86 CHIEF, BUREAU OF UTILITIES	FISHER, COLLINS AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 IRRELL A. FISHER DATE:	STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER IRRELL A. FISHER DATE:	DES: P.W.K. DRN: D.B.S. CHK: T.A.F. DATE:	ADD ROOF SLAB & BRICK SUPERSTRUCTURE @ WET WELL DETAIL 1-00-07 REVISION DATE:	600' SCALE MAP NO. _____ BLOCK NO. _____	CHERRYTREE FARM WASTEWATER PUMPING STATION CONTRACT NO. 20-1356-D SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 11 OF 15
			CHIEF, BUREAU OF ENGINEERING DATE:	CHIEF, LAND DEVELOPMENT DIVISION DATE:	AS-BUILT JOHN E. HARMS + ASSOC. DEC. 1987		



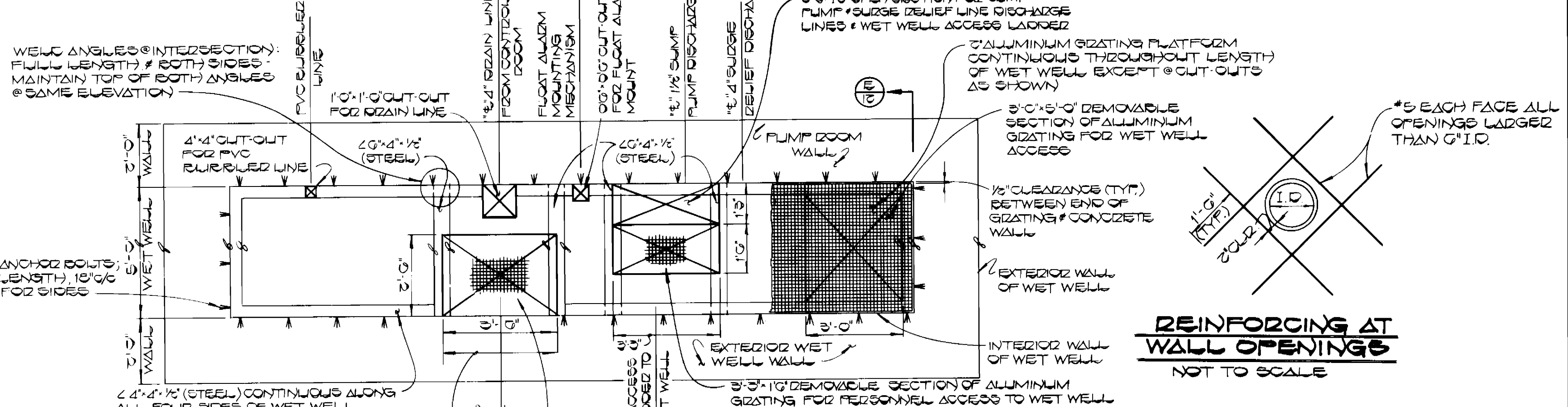
**EXTERIOR ALUMINUM ACCESS HATCH COVER TYPE A & B**  
NOT TO SCALE



**EXTERIOR HATCH AT HINGE SECTION AA-AA**  
NOT TO SCALE

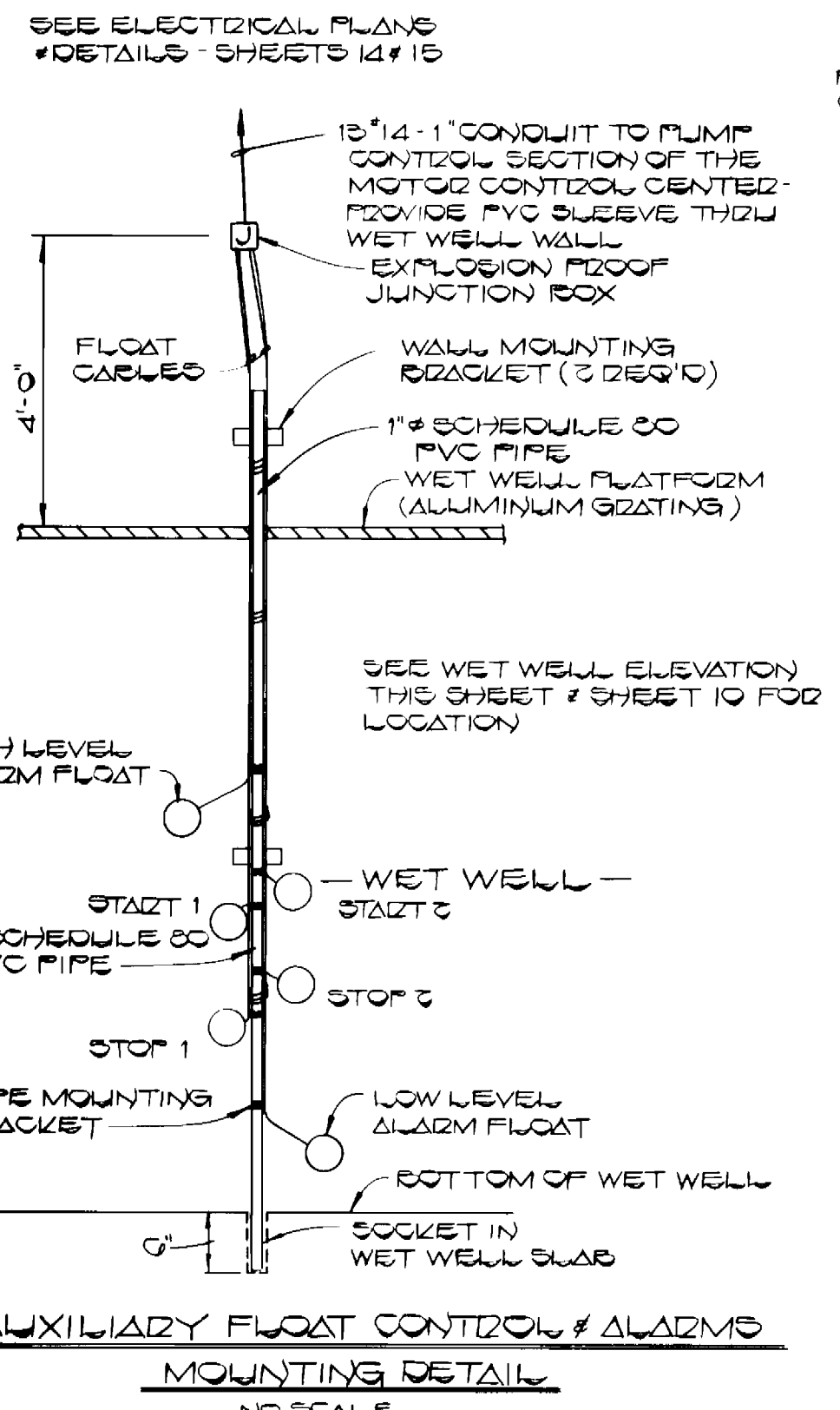
ACCESS HATCH LOCATION	ACCESS HATCH FUNCTION	ACCESS HATCH DIMENSION - IN. A (LENGTH) B (WIDTH)	TREAD PLATE	ADDITIONAL APPLICABLE REQUIREMENTS
TOP SLAB OF WET WELL	PERSONNEL ACCESS TO WET WELL	3'-0" 3'-0"	1/4"	EXTERIOR WATER-TIGHT HATCH, SEE SECTION AA-AA AND LOCK DETAIL *
TOP SLAB OF WET WELL	OPERATION OF DEBRID BASKET	2'-0" 2'-0"	1/4"	EXTERIOR WATER-TIGHT HATCH, SEE SECTION AA-AA AND LOCK DETAIL *
MOTOR CONTROL ROOM SLAB	EQUIPMENT ACCESS TO PUMP ROOM	3'-0" 2'-0"	1/4"	SEE SPECIFICATIONS
ROOF DEBRID BASKET STRUCTURE & WET WELL	ACCESS TO WET WELL DOWN & MOTOR	3'-0" 3'-0"	1/4"	EXTERIOR WATER-TIGHT HATCH W/ LOCK *SEE DETAILS THIS SHEET

**ACCESS HATCH SCHEDULE**

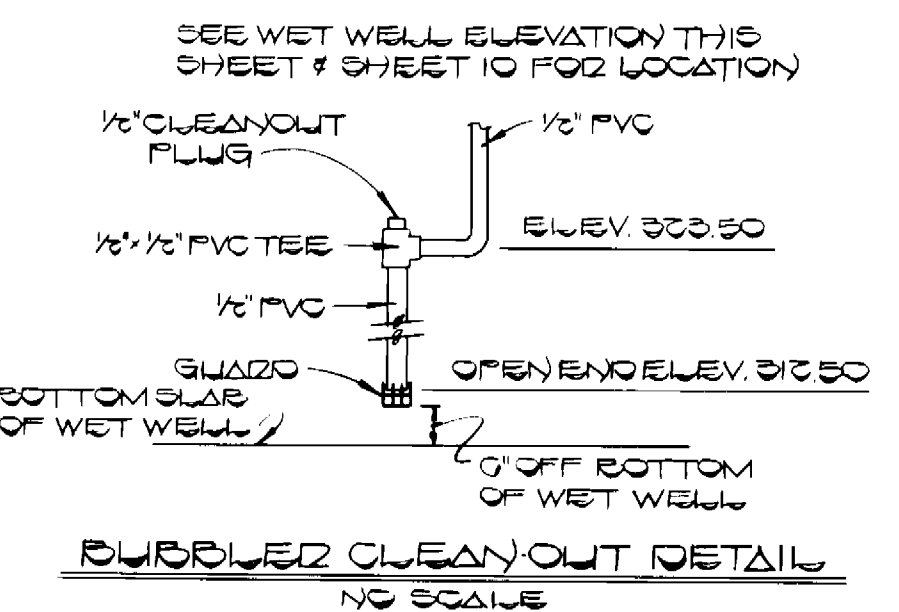


**WET WELL PLATFORM @ ELEV. 322.50**  
SCALE: 3/8" = 1'-0"

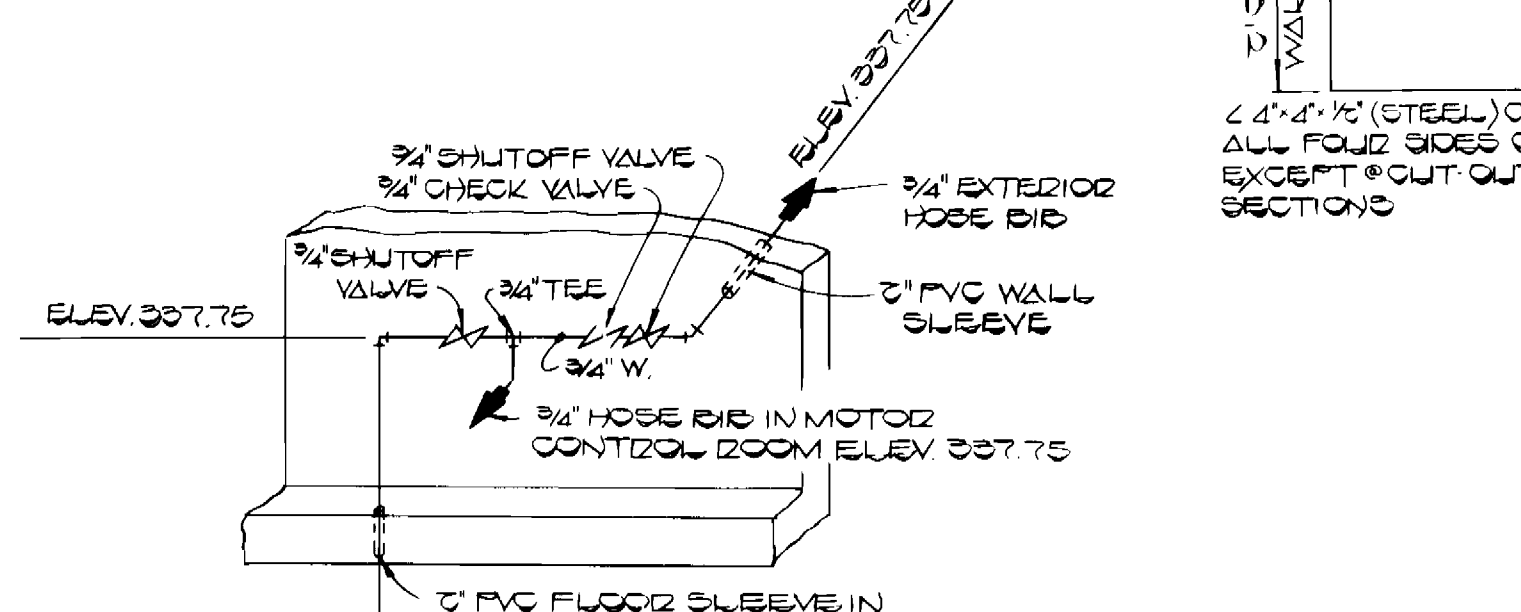
**REINFORCING AT WALL OPENINGS**  
NOT TO SCALE



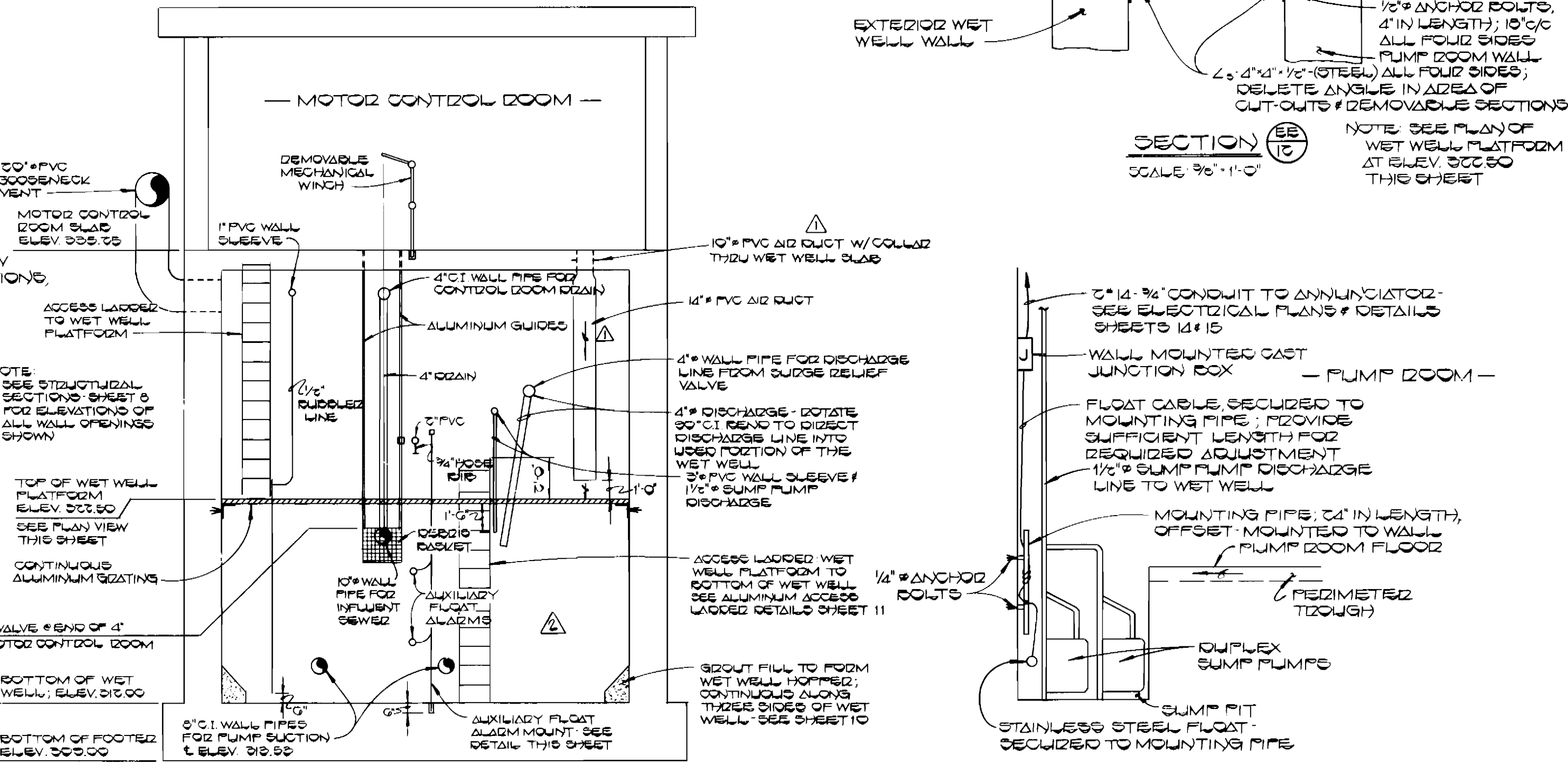
**AUXILIARY FLOAT CONTROL & ALARMS MOUNTING DETAIL**  
NO SCALE



**BUBBLED CLEAN-OUT DETAIL**  
NO SCALE



**WATER SUPPLY SCHEMATIC**  
NO SCALE

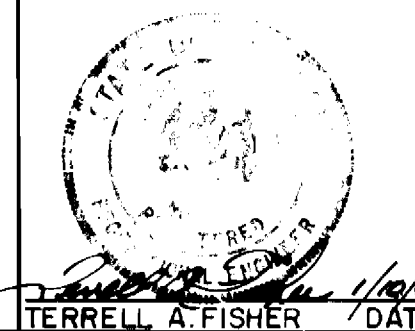


**WET WELL ELEVATION**  
SCALE: 3/8" = 1'-0"

**PUMP ROOM FLOOD ALARM DEVICE MOUNTING DETAIL**  
SCALE: 1/2" = 1'-0"

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
DIRECTOR OF PUBLIC WORKS  
DATE: 6-9-80  
CHIEF, BUREAU OF UTILITIES

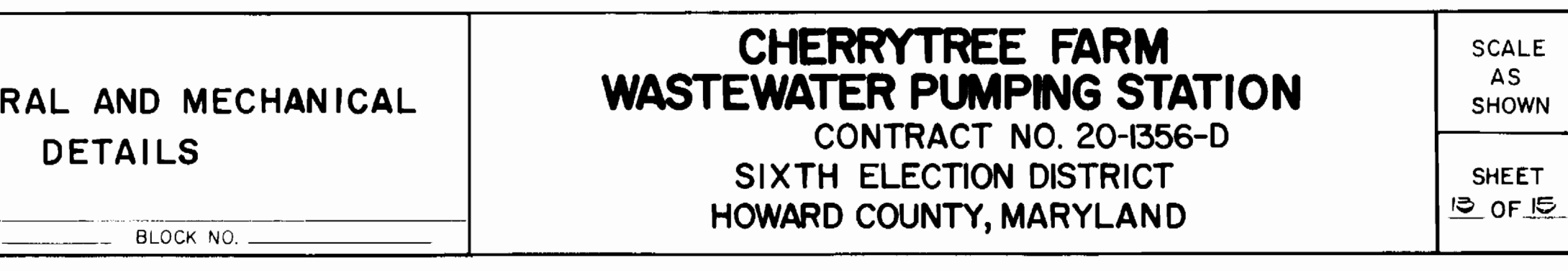
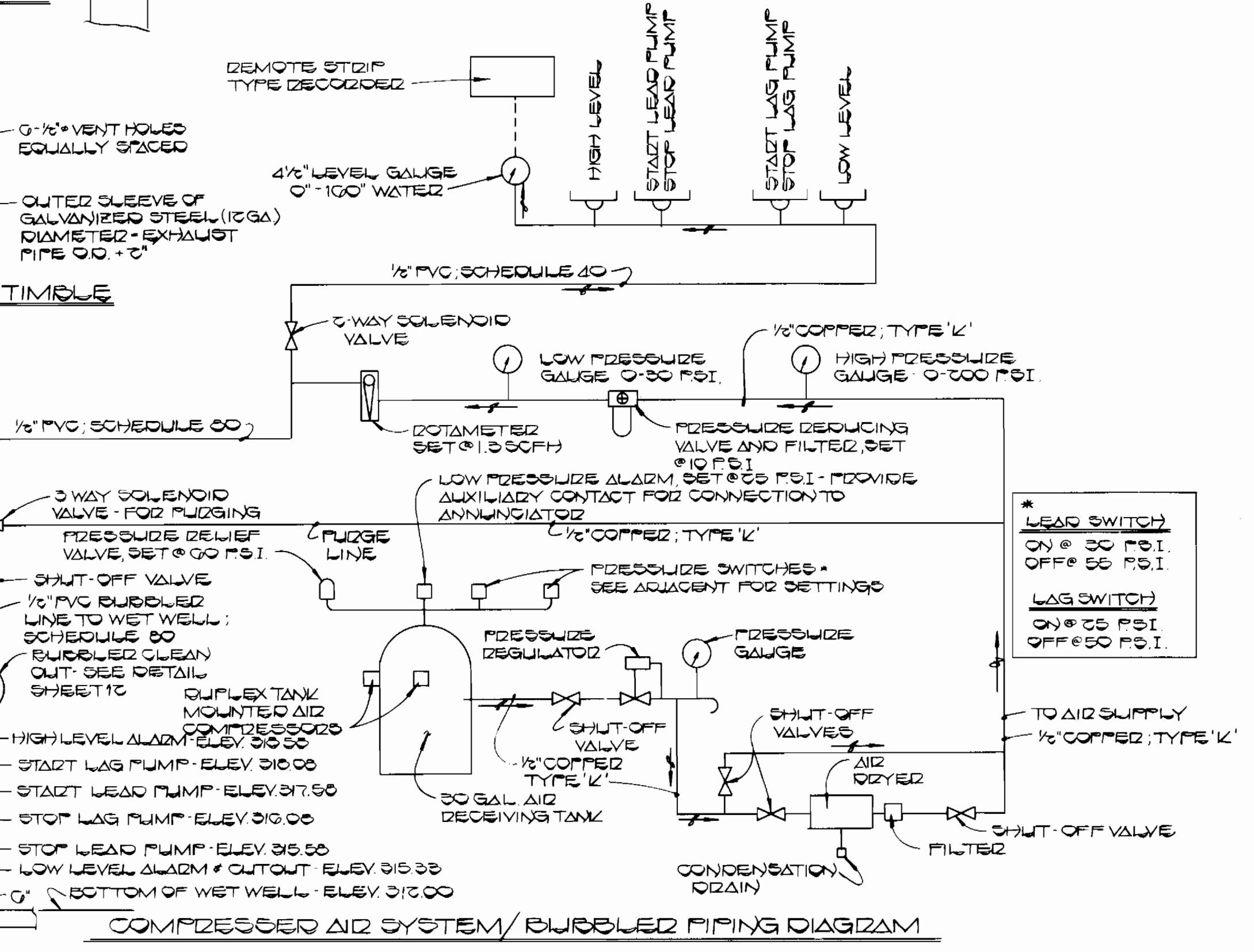
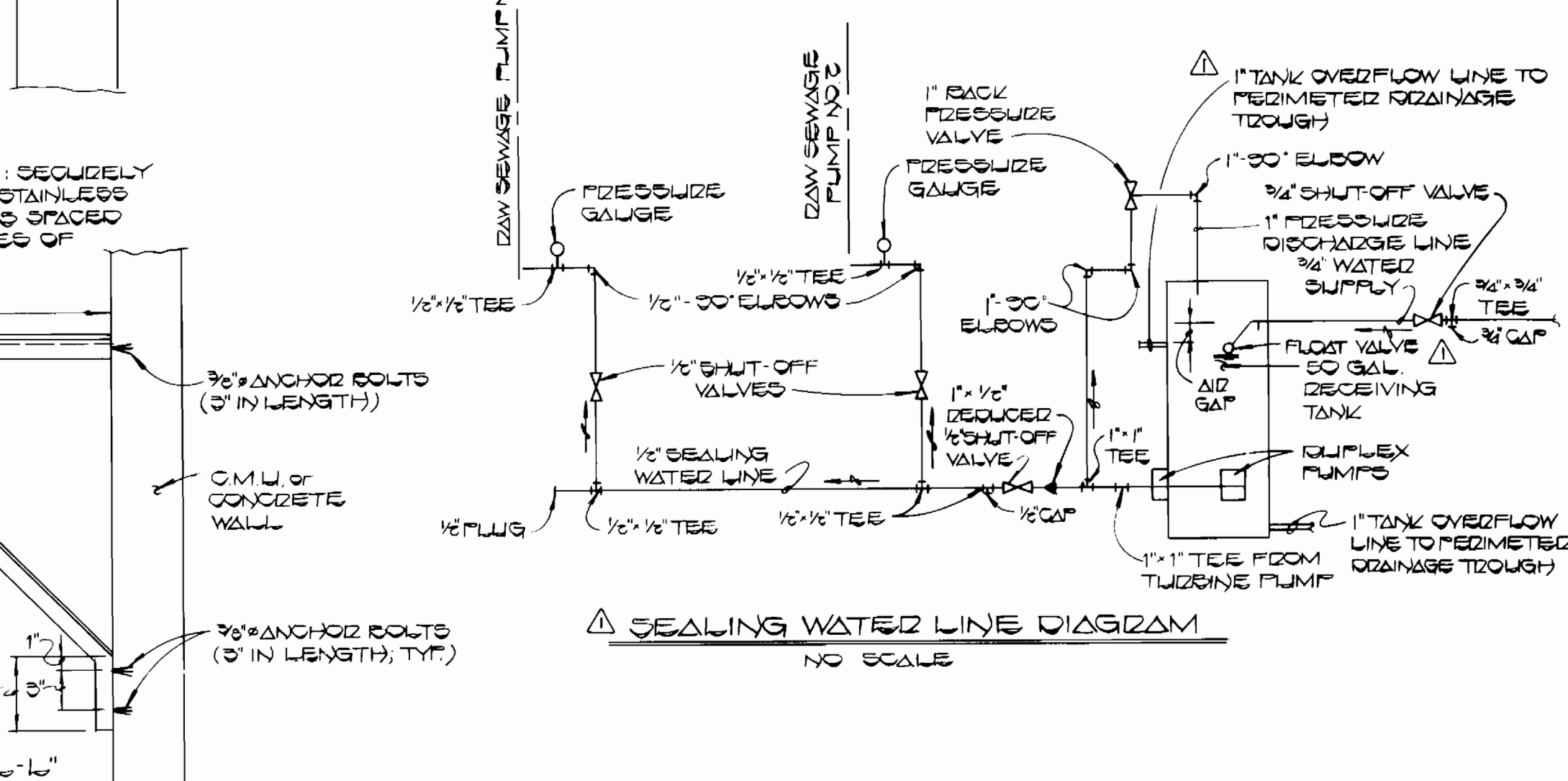
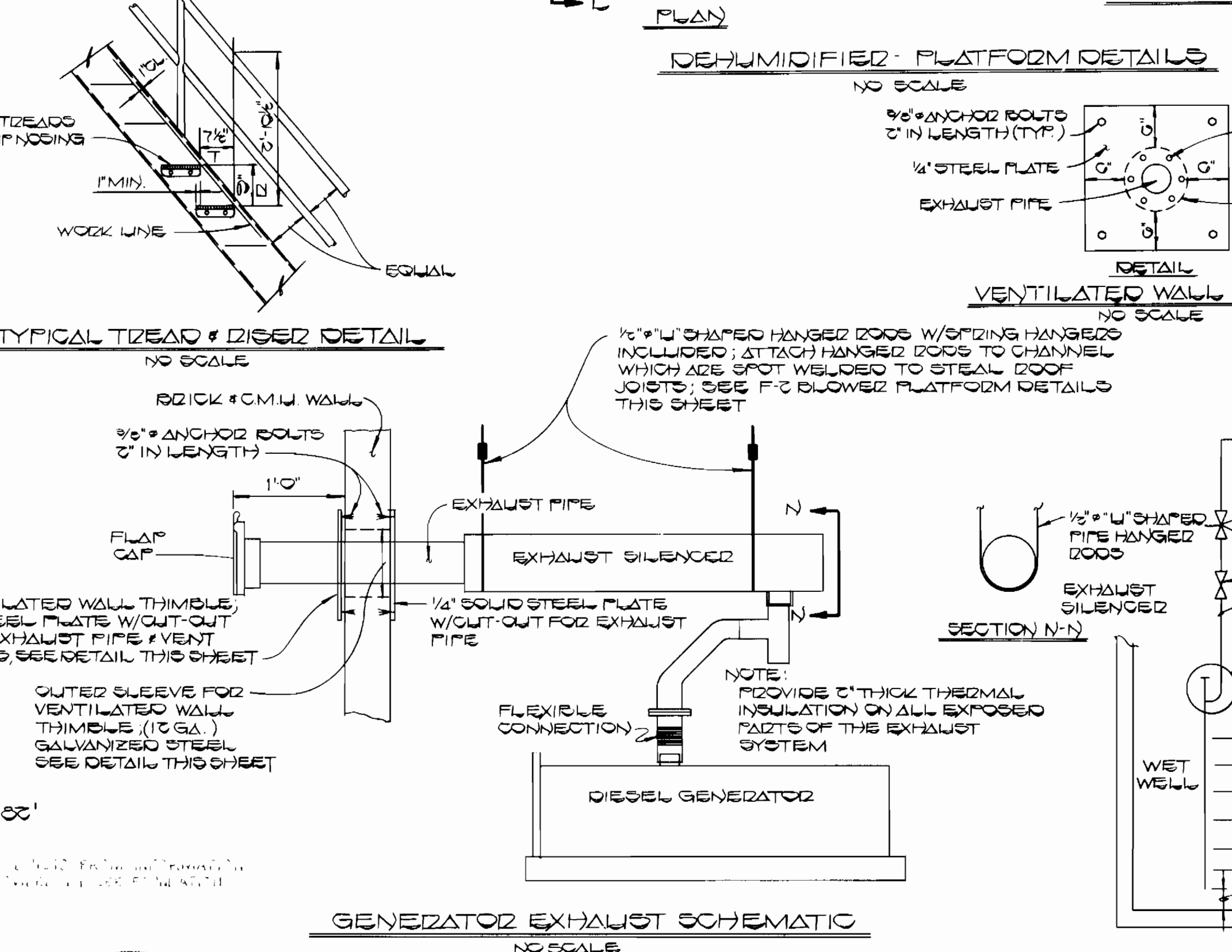
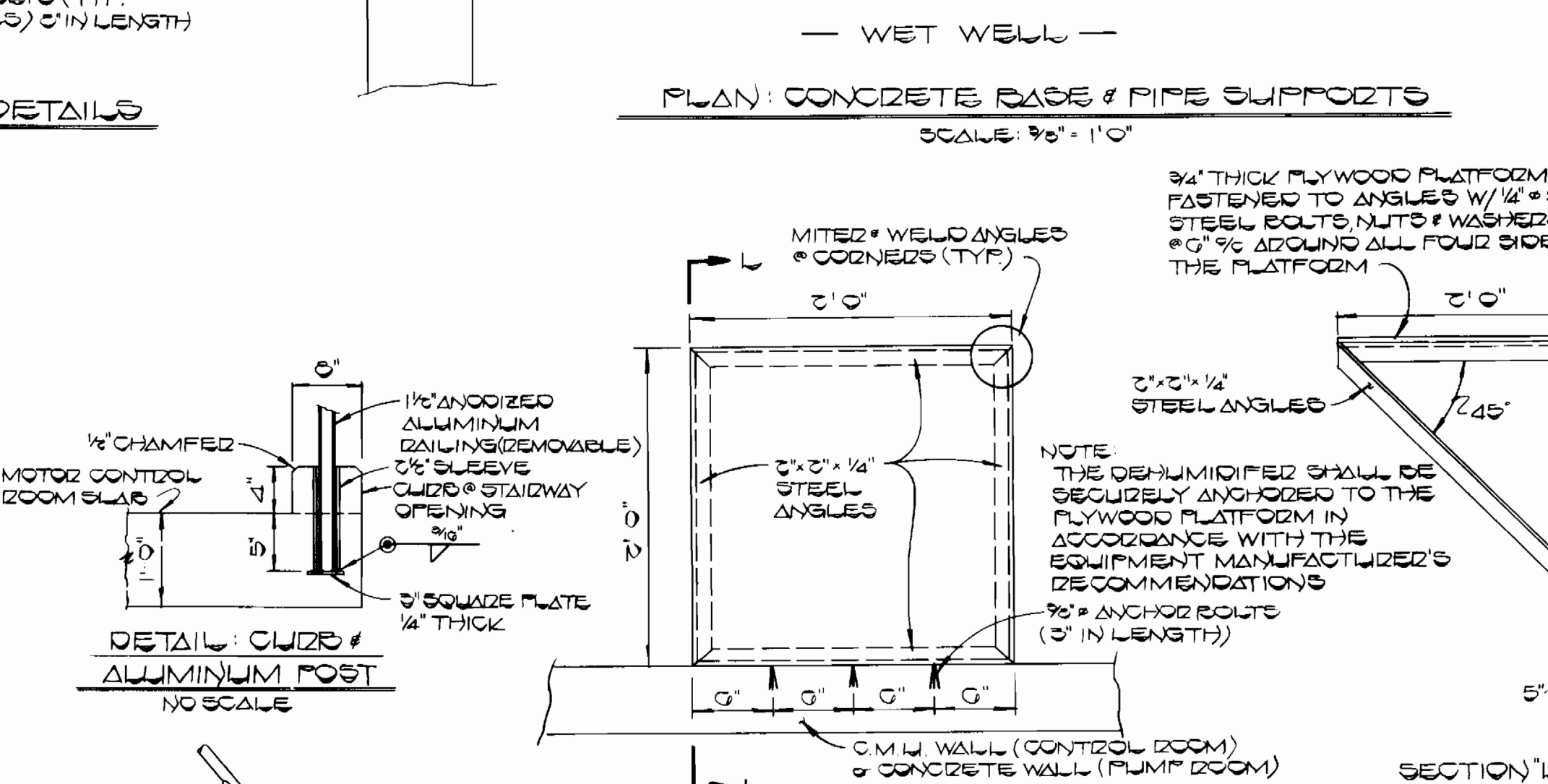
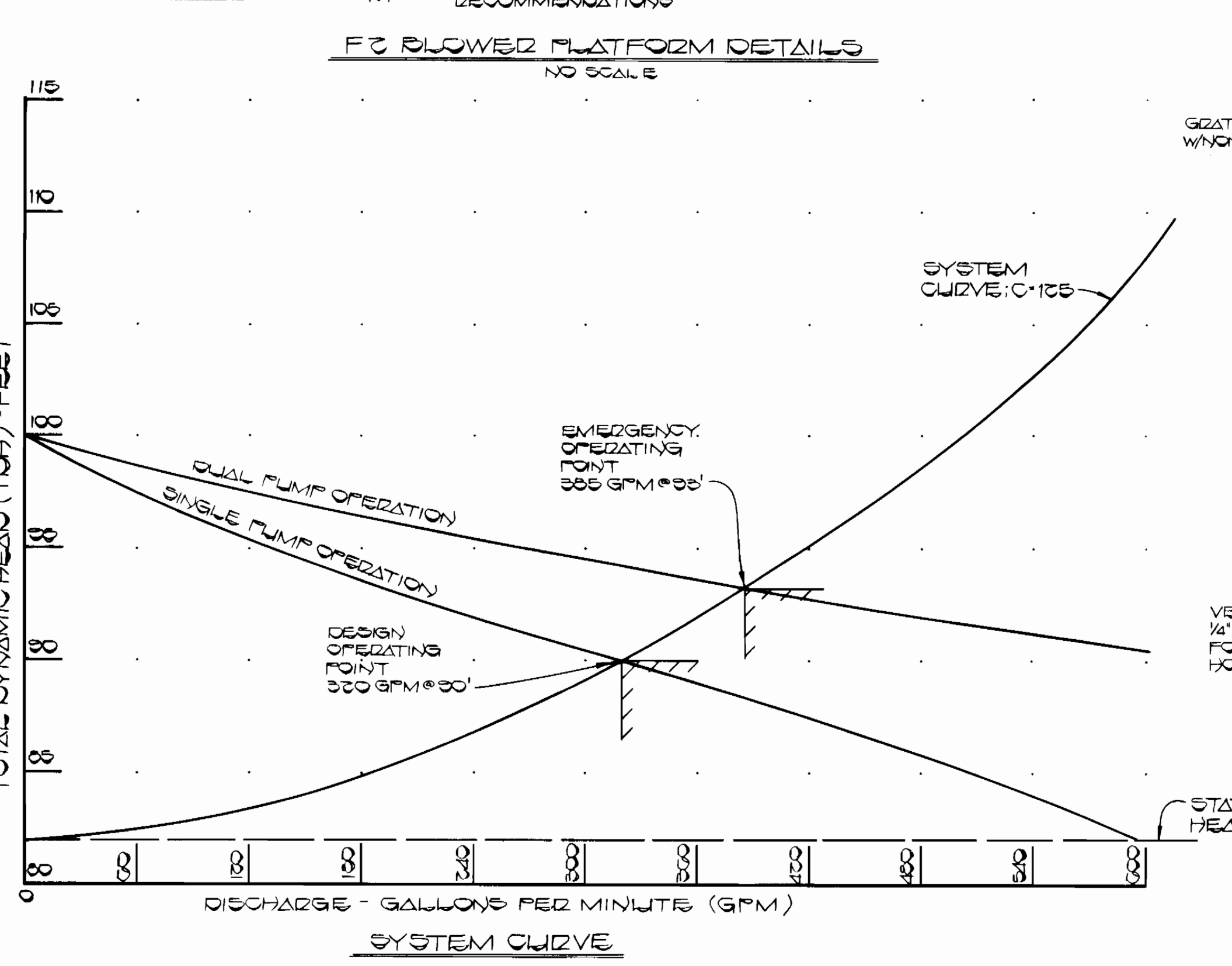
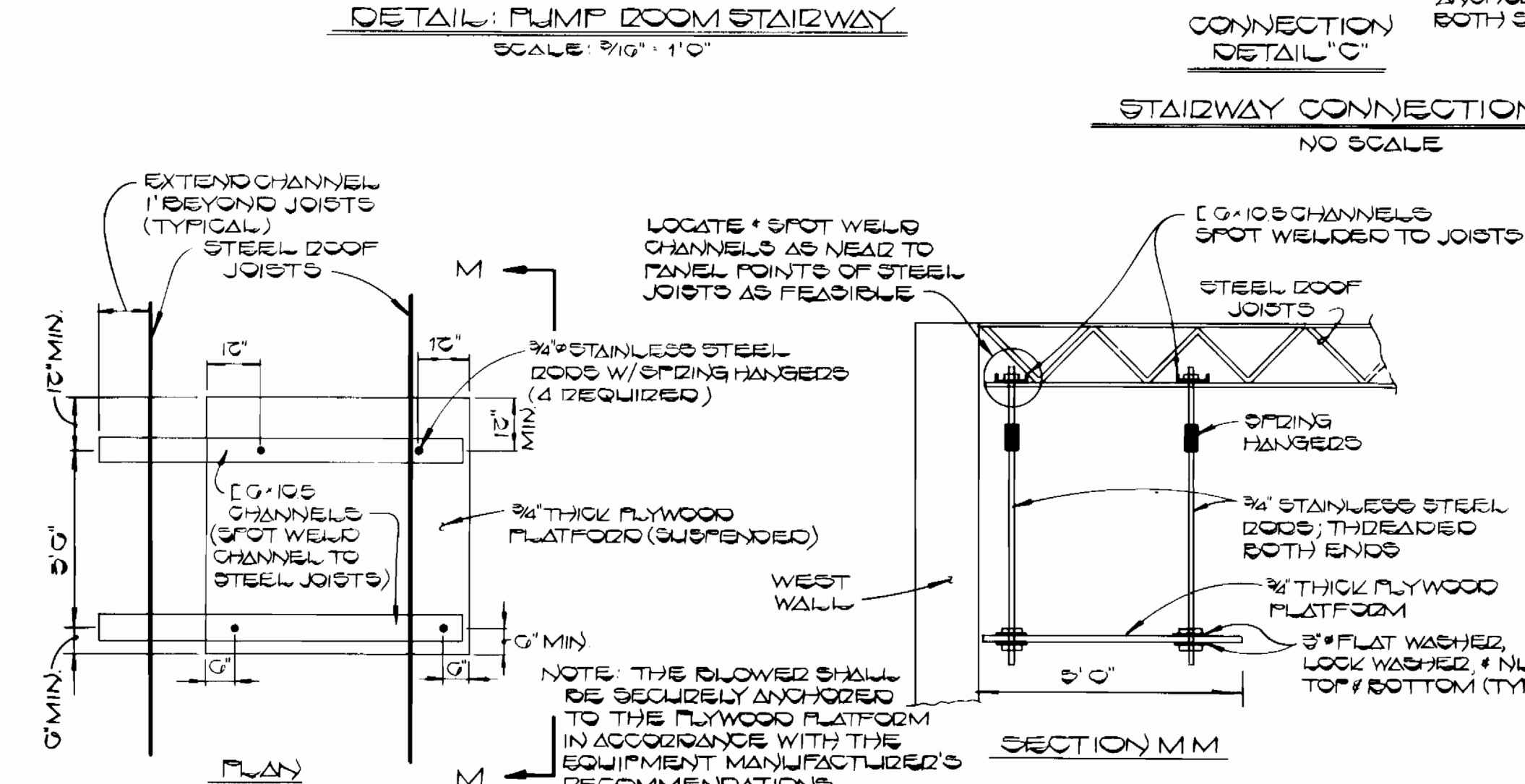
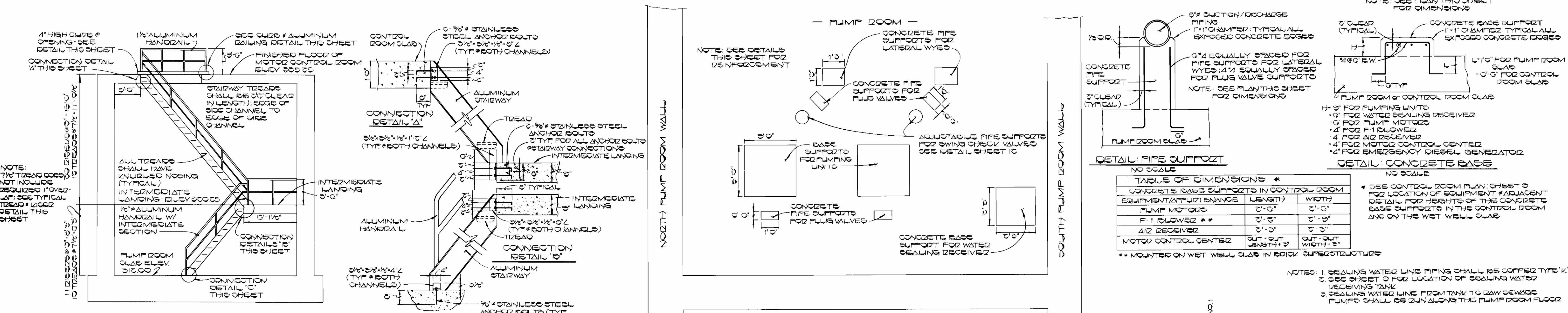
FISHER, COLLINS AND CARTER, INC.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043  
DATE: 6-8-80  
TERRELL A. FISHER



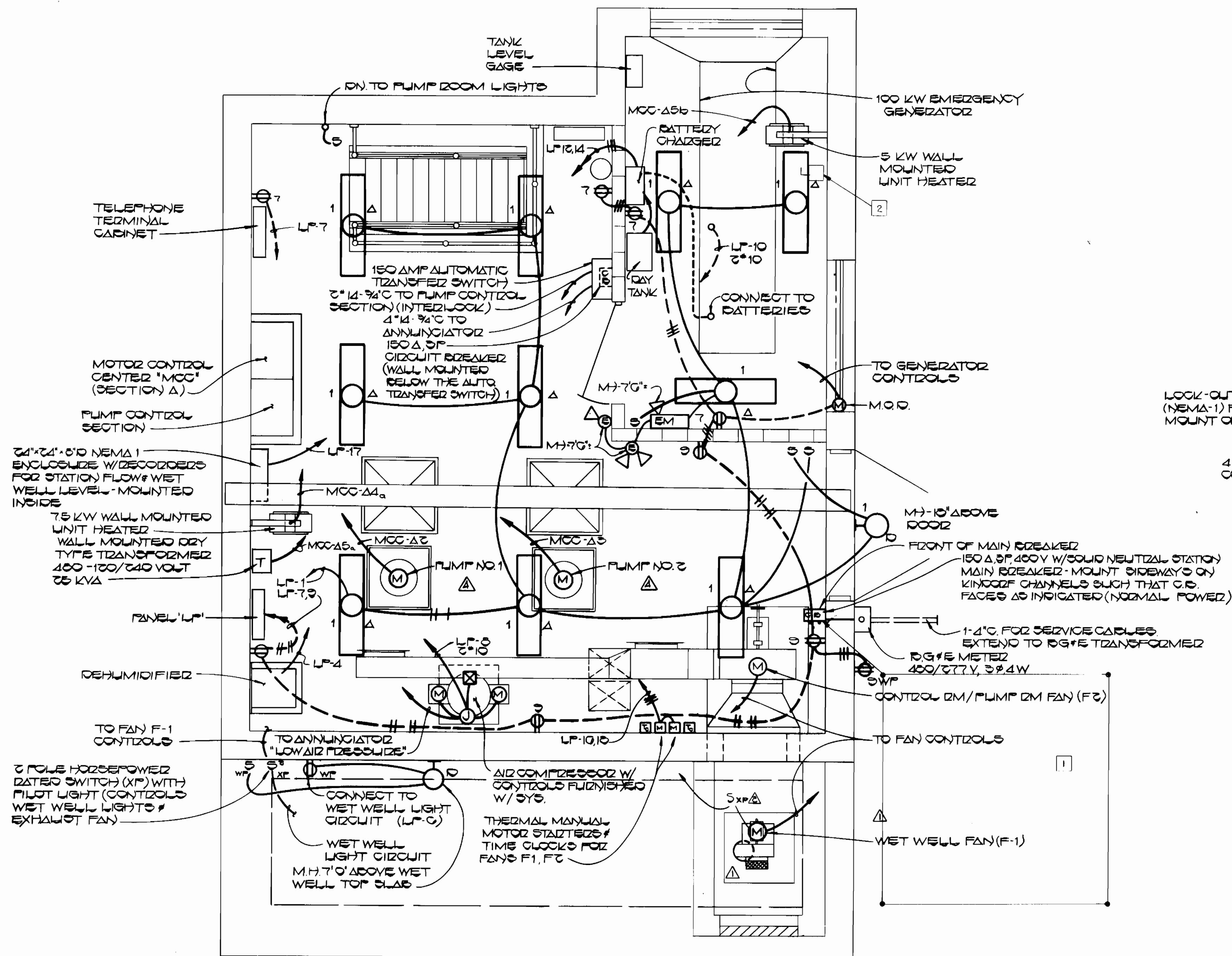
DES: P.W.K.			
DRN: D.B.S.			
CHK: T.A.F.			
DATE:	BY:	NO.	REVISION

STRUCTURAL AND MECHANICAL DETAILS  
600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

CHERRYTREE FARM  
WASTEWATER PUMPING STATION  
CONTRACT NO. 20-1356-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE AS SHOWN  
SHEET 12 OF 15

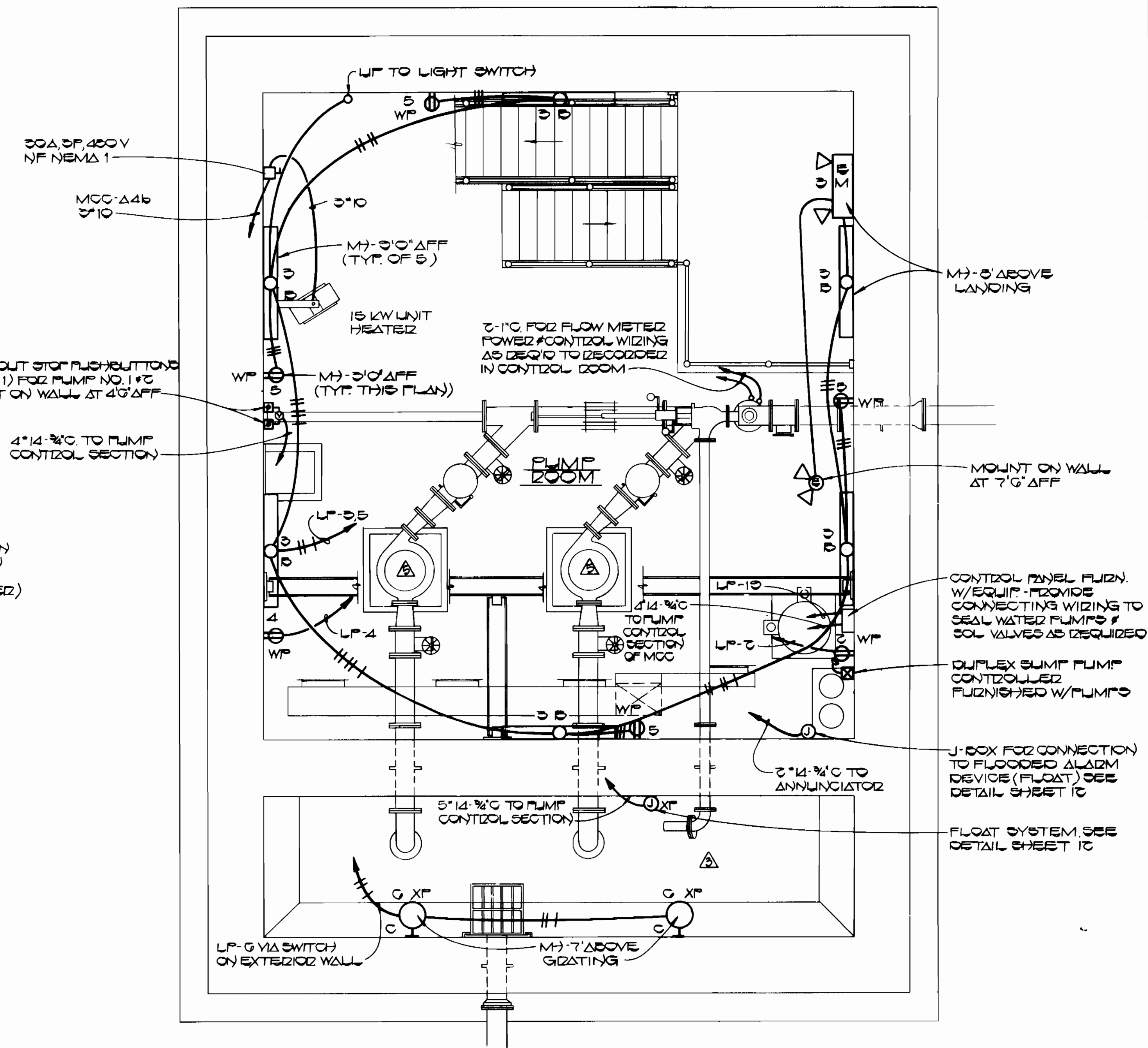


DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS: <i>Ruth Bruner</i> , DATE: 6-4-86 CHIEF, BUREAU OF UTILITIES: <i>Ruth Bruner</i> , DATE:		FISHER, COLLINS AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 CHIEF, BUREAU OF ENGINEERING: <i>Terrell A. Fisher</i> , DATE: <i>6/4/86</i> CHIEF, LAND DEVELOPMENT DIVISION: <i>Terrell A. Fisher</i> , DATE:		STATE OF MARYLAND PROFESSIONAL ENGINEER TERRELL A. FISHER DATE:		DES: P.W.K. DRN: D.B.S. CHK: T.A.F. DATE:		600' SCALE MAP NO. _____ BLOCK NO. _____		<b>CHERRYTREE FARM          WASTEWATER PUMPING STATION</b> CONTRACT NO. 20-1356-D SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		SCALE AS SHOWN SHEET 13 OF 15	
--	--	---	--	--	--	--	--	--	--	--	--	----------------------------------	--



**CONTROL ROOM PLAN**  
SCALE: 3/8" = 1'-0"

NOTE: SEE ONE LINE DIAGRAM FOR WIRING BETWEEN DISTRIBUTION EQUIPMENT



**PUMP ROOM PLAN**  
SCALE: 3/8" = 1'-0"

NOTE: AFF = ABOVE FINISHED FLOOR

AS-BUILT FROM INFORMATION PROVIDED BY LEE FOUNDATION

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

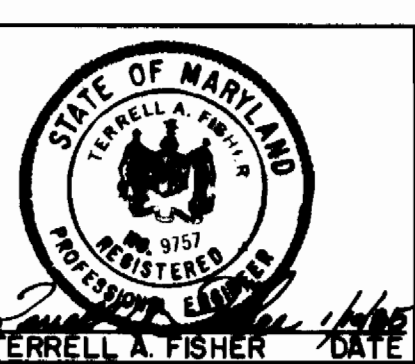
DATE: 6-6-86  
DATE: 6-9-86

CHIEF, BUREAU OF ENGINEERING  
CHIEF, BUREAU OF UTILITIES

FISHER, COLLINS AND CARTER, INC.  
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043

REGISTERED PROFESSIONAL ENGINEER  
TERRELL A. FISHER



DES: P.W.K.	PC	NEW CENTRIFUGAL PUMPS INSTALLED: MAY 03	2/1/03
DRN: D.B.S.	PC	NEW 25HP MOTORS INSTALLED: MAY 03	2/1/03
CHK: T.A.F.	PC	WET WELL MASONRY WALL REMOVED: MAY 03	2/1/03
DATE:	L.K.	CHANGE ORDER GROUND FIELD	
	L.K.	3 POLE DISCONNECT PER NEG.	
	D.A.N.	ADD EXPLOSION-PROOF SWITCH TO WET WELL FAN MONITOR.	5-2-87
	D.B.D.	RELOCATE WET WELL FAN	1-20-87
BY NO.		REVISION	DATE

600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

**CHERRYTREE FARM  
WASTEWATER PUMPING STATION**

CONTRACT NO. 20-1356-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

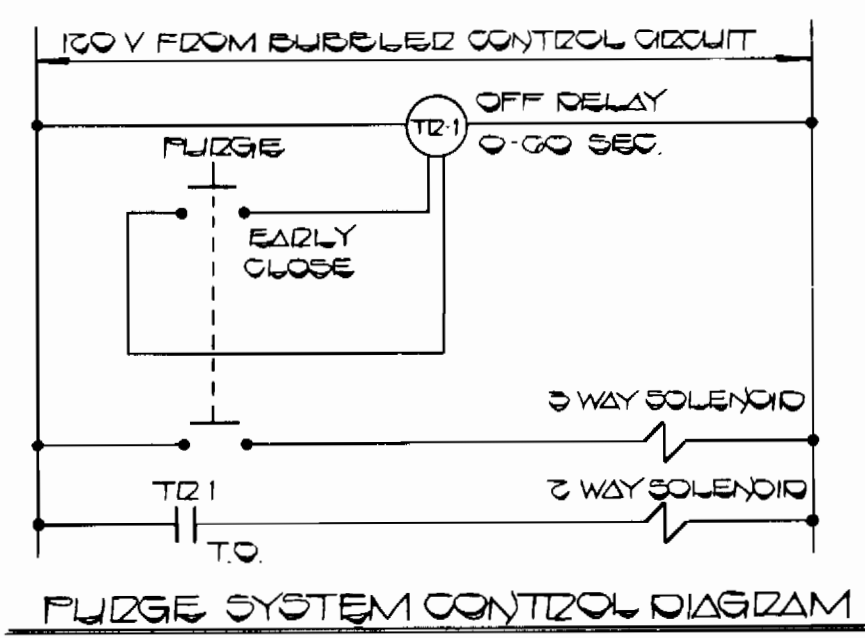
SCALE AS SHOWN  
SHEET 14 OF 15

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	FIXTURE-FLUORESCENT - TYPE AS INDICATED
	FIXTURE-INCANDESCENT OR HID - WALL MOUNTED
	SWITCH - SINGLE POLE - M.H. 4'-0"
	RECEPTACLE - 20 A - 125 V - SIMPLEX - M.H. -18"
	RECEPTACLE - 20 A - 125 V - DUPLEX - M.H. -18"
	CONDUIT - ON CEILING OR WALL
	CONDUIT - IN/OR UNDER FLOOR SLAB OR UNDERGROUND
	HOME RUN TO PANEL *
	MOTOR - HORSEPOWER AS INDICATED
	TIME CLOCK
	WEATHERPROOF DEVICE
	EXPLOSIONPROOF DEVICE
	UNDERGROUND
	GROUND
	MOUNTING HEIGHT
	SWITCH - DOUBLE POLE, WITH PILOT LIGHT
	JUNCTION BOX - SIZE PER NEC OR AS INDICATED
	EMERGENCY UNIT - NO. OF HEADS AS INDICATED
	DISCONNECT SWITCH - TYPE AND RATING AS INDICATED - NON-FUSED, FUSED
	MANUAL MOTOR STARTER, HP RATED SWITCH - TYPE AND RATING AS INDICATED
	ENCLOSED CIRCUIT BREAKER
	PANELBOARD - MH 6'-6" TO TOP
	SPECIAL CABINET - TYPE AS NOTED
	GENERATOR
	AMMETER SWITCH, AMMETER
	VOLTMETER SWITCH, VOLTMETER
	EMERGENCY LIGHT - REMOTE HEAD(S)

\*NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS AND NUMBER OF CROSSLINES INDICATES NUMBER OF 12 CONDUCTORS. WHERE NO CROSSLINES APPEAR 2 \* 12 CONDUCTORS ARE IMPLIED UNLESS OTHERWISE NOTED.

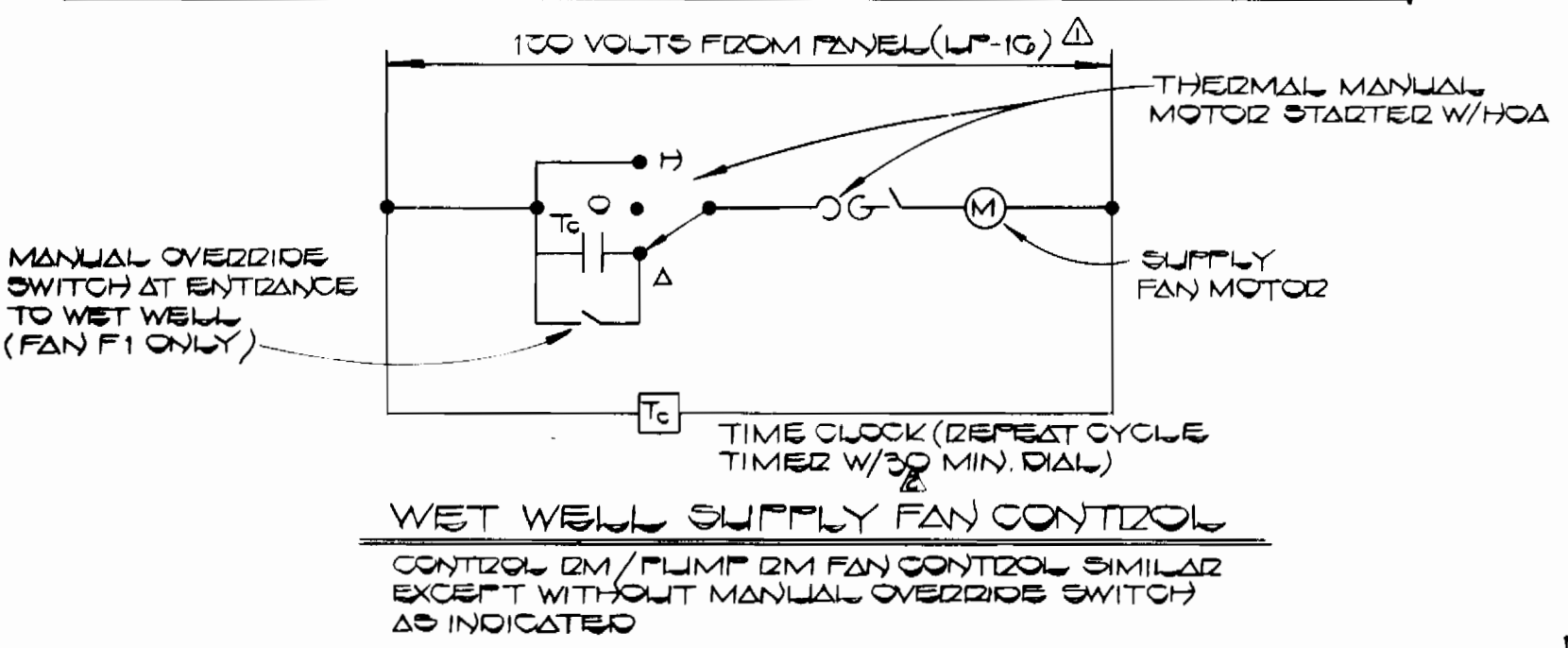
MOTOR CONTROL CENTER SCHEDULE 277/480 VOLT - 3 PHASE - 4 WIRE												
CIR. NO.	EQUIPMENT DESCRIPTION	H.P.	BASIC DEVICE	AUX. DESC.	STARTER		COND. SIZE	GND. WIRE SIZE	CIRCUIT BREAKER			
					SIZE	POLES			FR	TRIP	POLES	
A1	MAIN LUGS W/METERING											
A2	SEWAGE PUMP NO. 1	25	MCP	A,B,C,D	2	3	3	8	3/4	10		
A3	SEWAGE PUMP NO. 2	25	MCP	A,B,C,D	2	3	3	8	3/4	10		
A4a	UNIT HEATER-CONTROL RM		CIR. BRKR.				3	12	3/4	12	100	15
A4b	UNIT HEATER-PUMP RM		CIR. BRKR.				3	10	3/4	10	100	30
A5a	TRANSFORMER-PANEL "LP"		CIR. BRKR.				2	6	1	10	100	60
A5b	UNIT HEATER-GEN. RM		CIR. BRKR.				3	12	3/4	12	100	15
A6	SPACE & BUS											
B	PUMP CONTROL SECTION		SEE SPECS.									

**AUXILIARY DESCRIPTION**  
 A. CONTROL TRANSFORMER  
 B. RED & GREEN INDICATING LIGHTS  
 C. HAND-OFF AUTOMATIC SWITCH  
 D. ELAPSED TIME METER

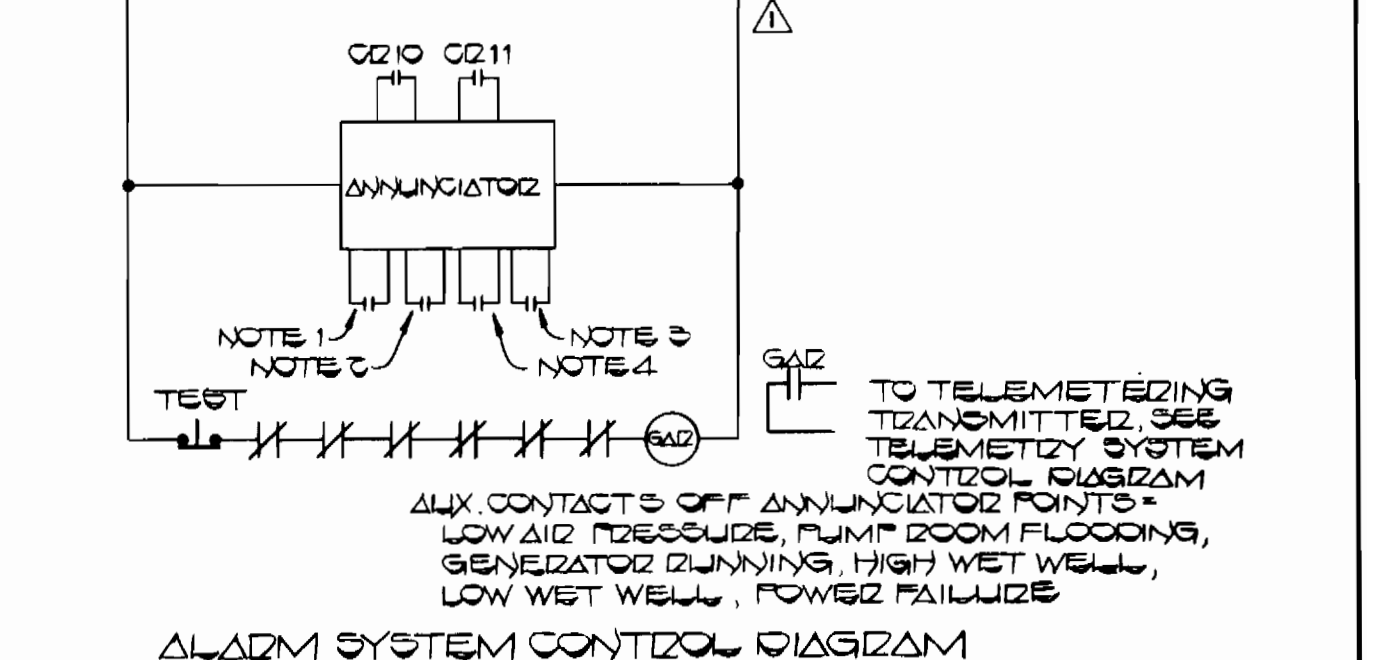
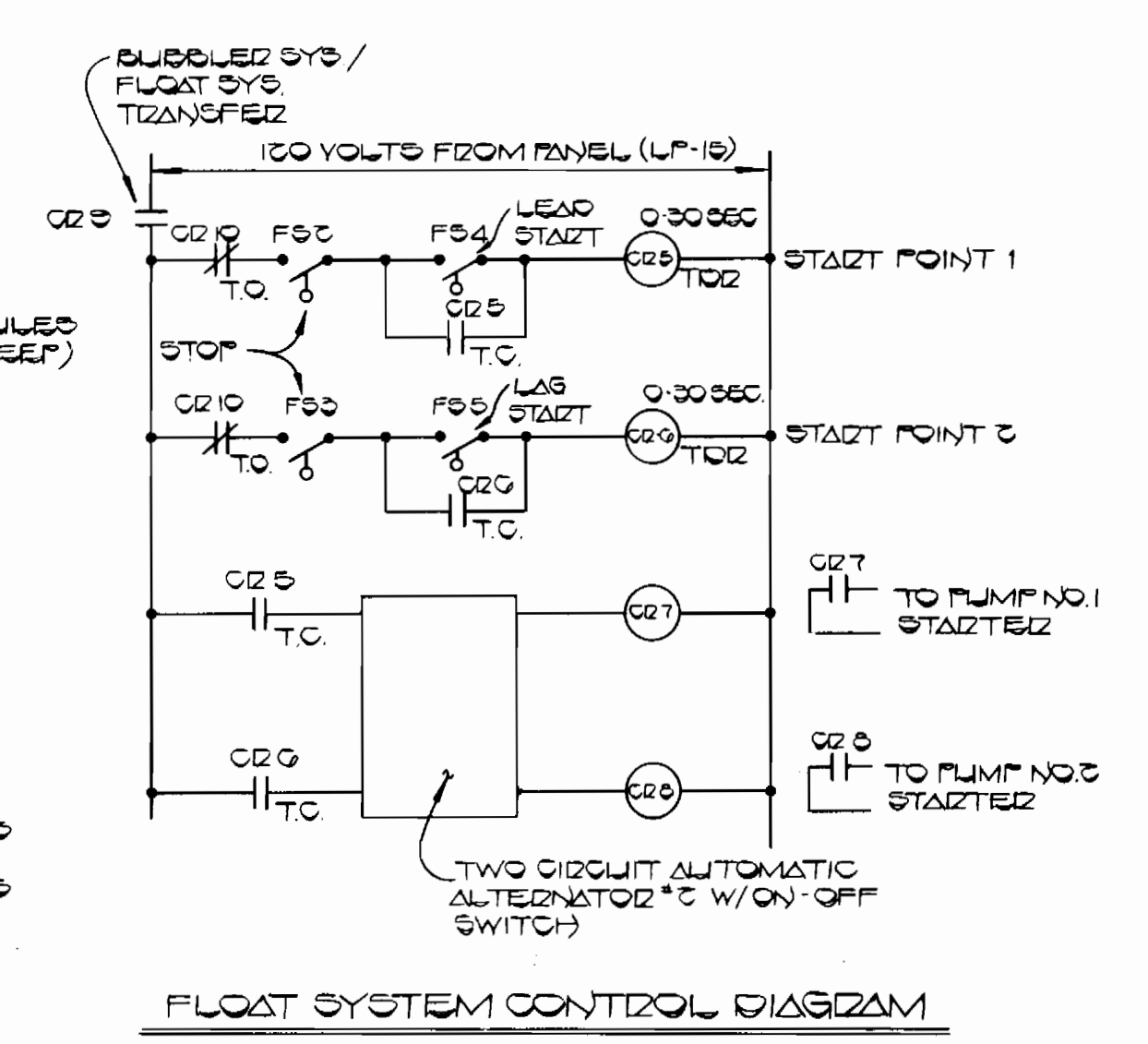
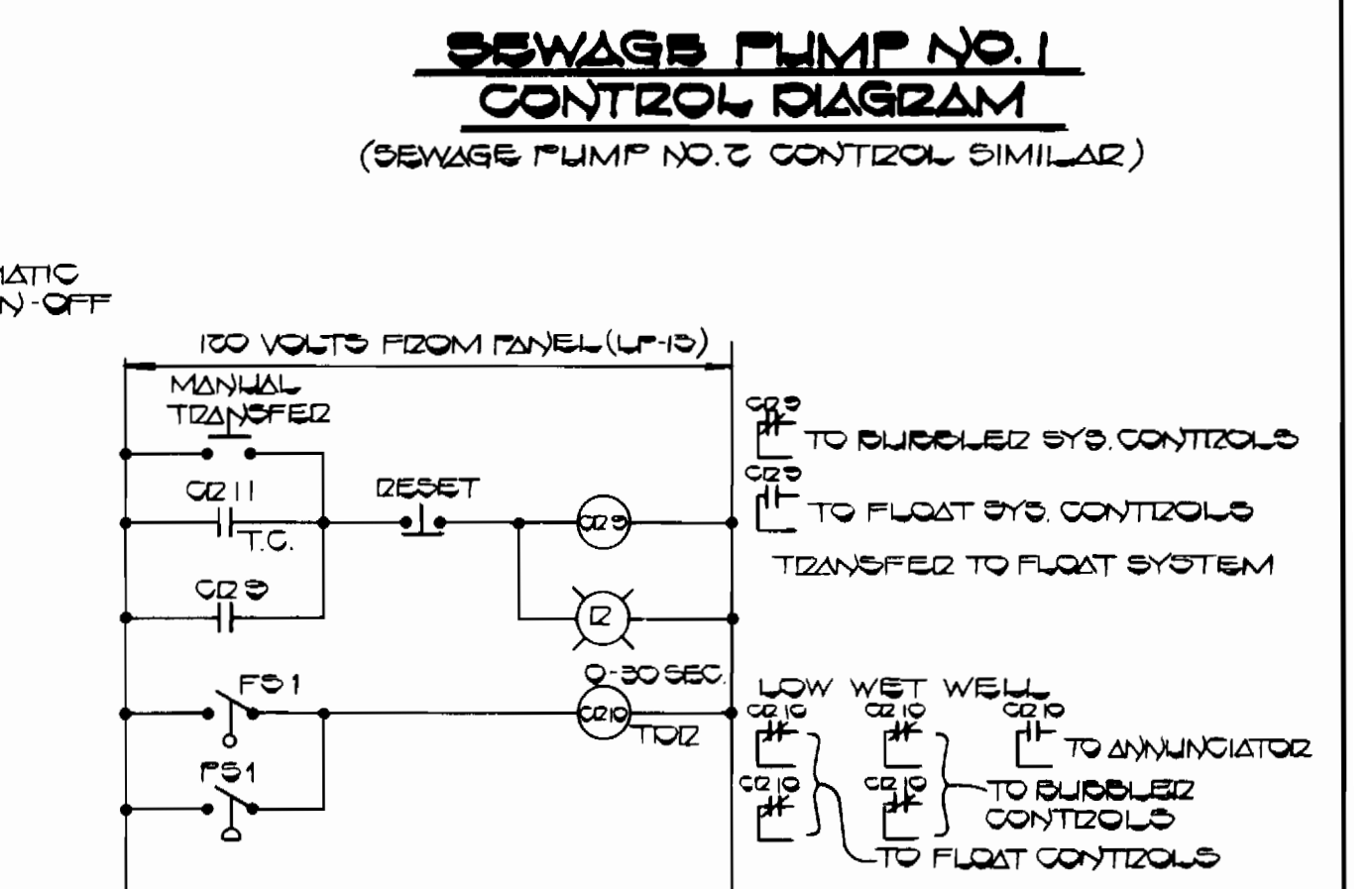
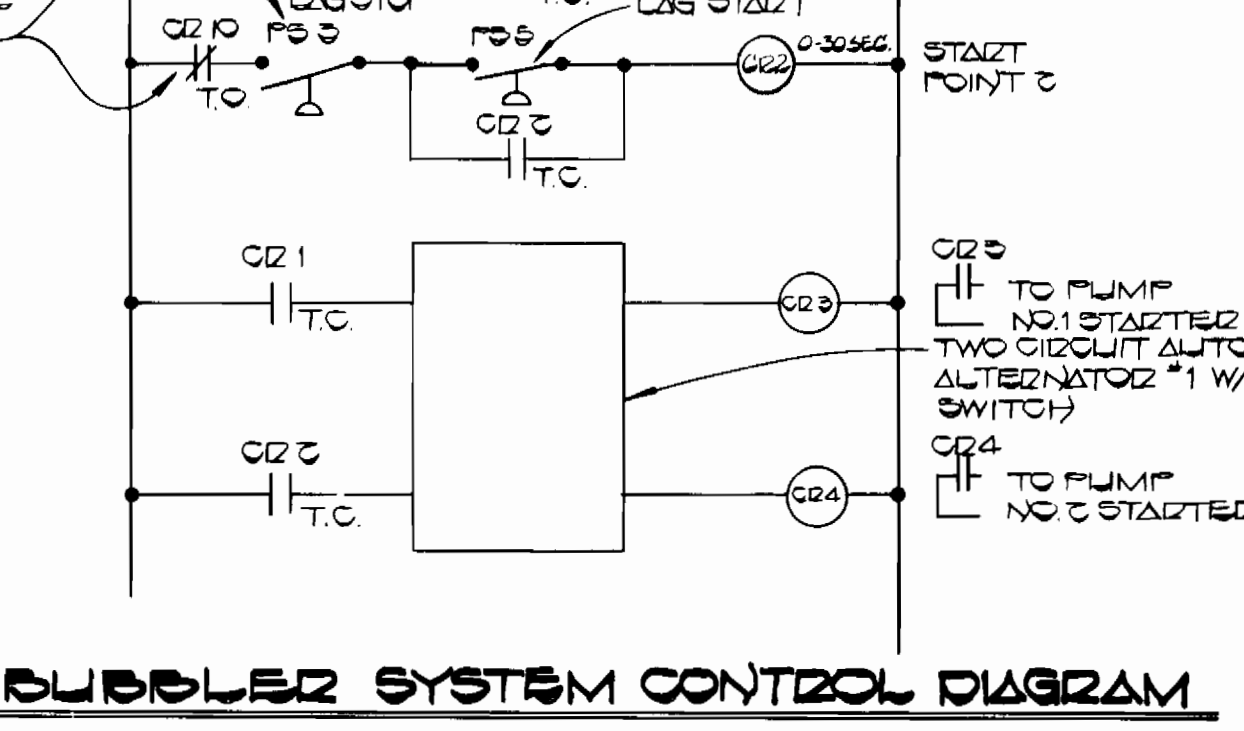
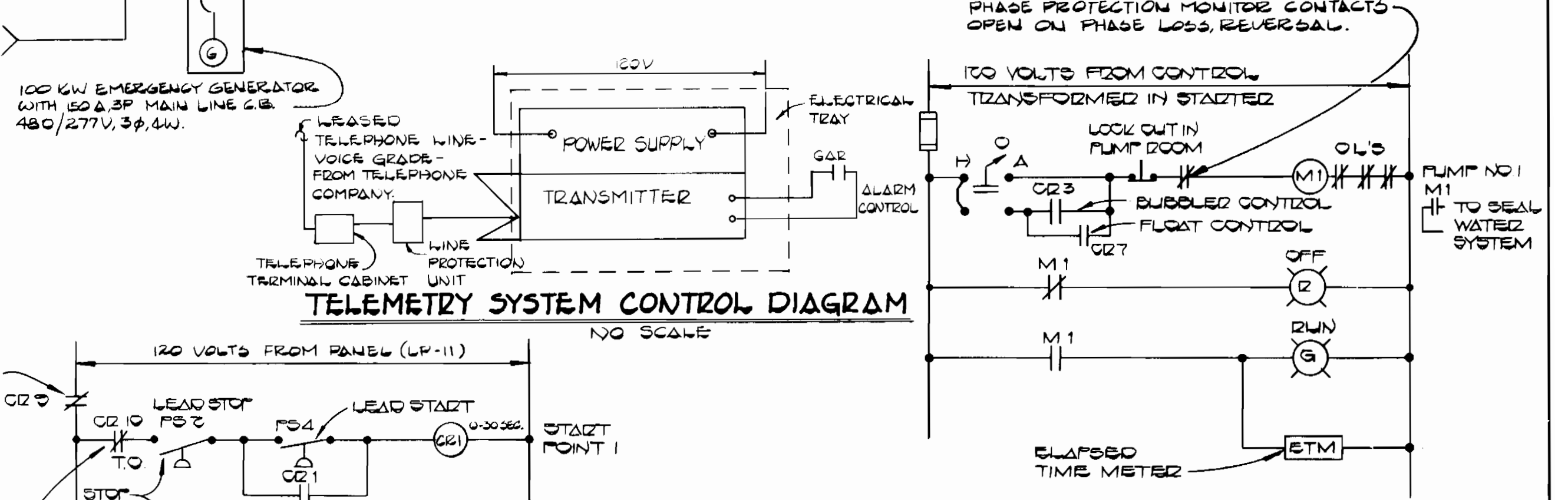
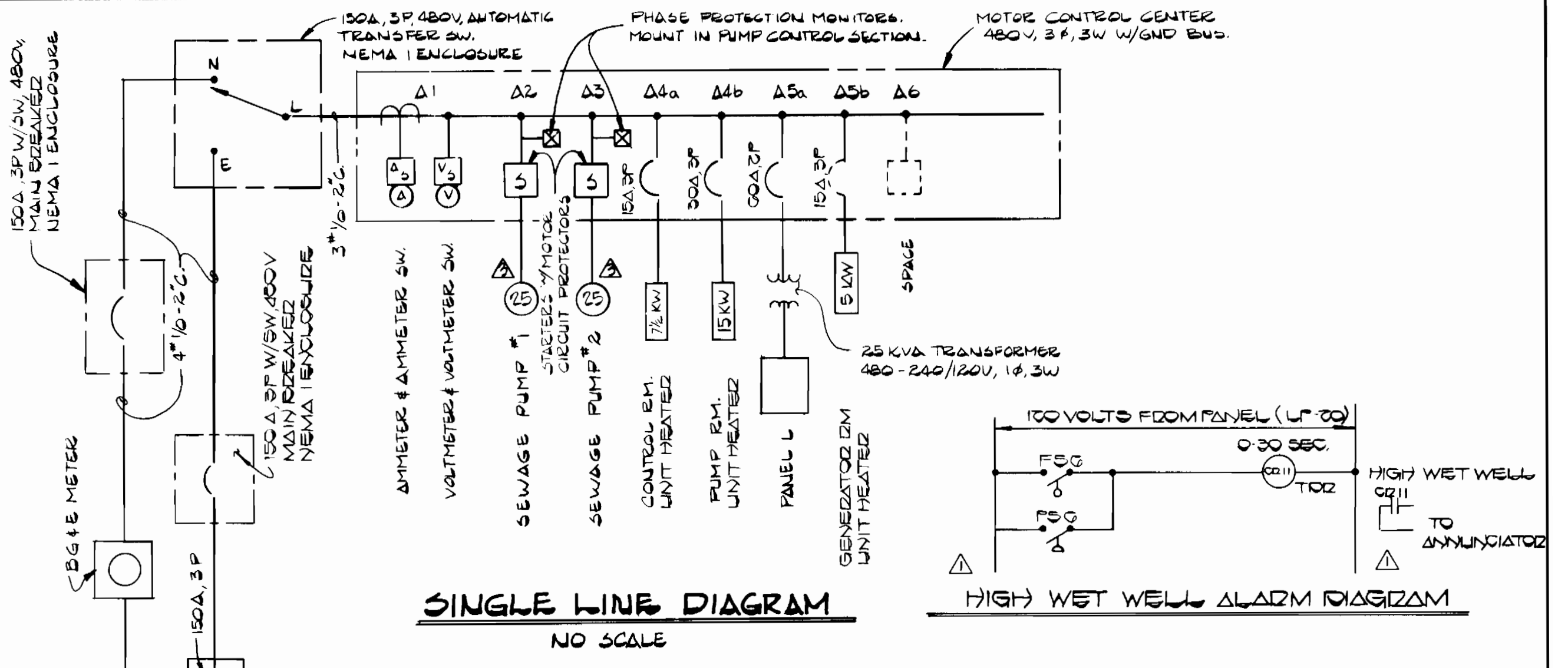
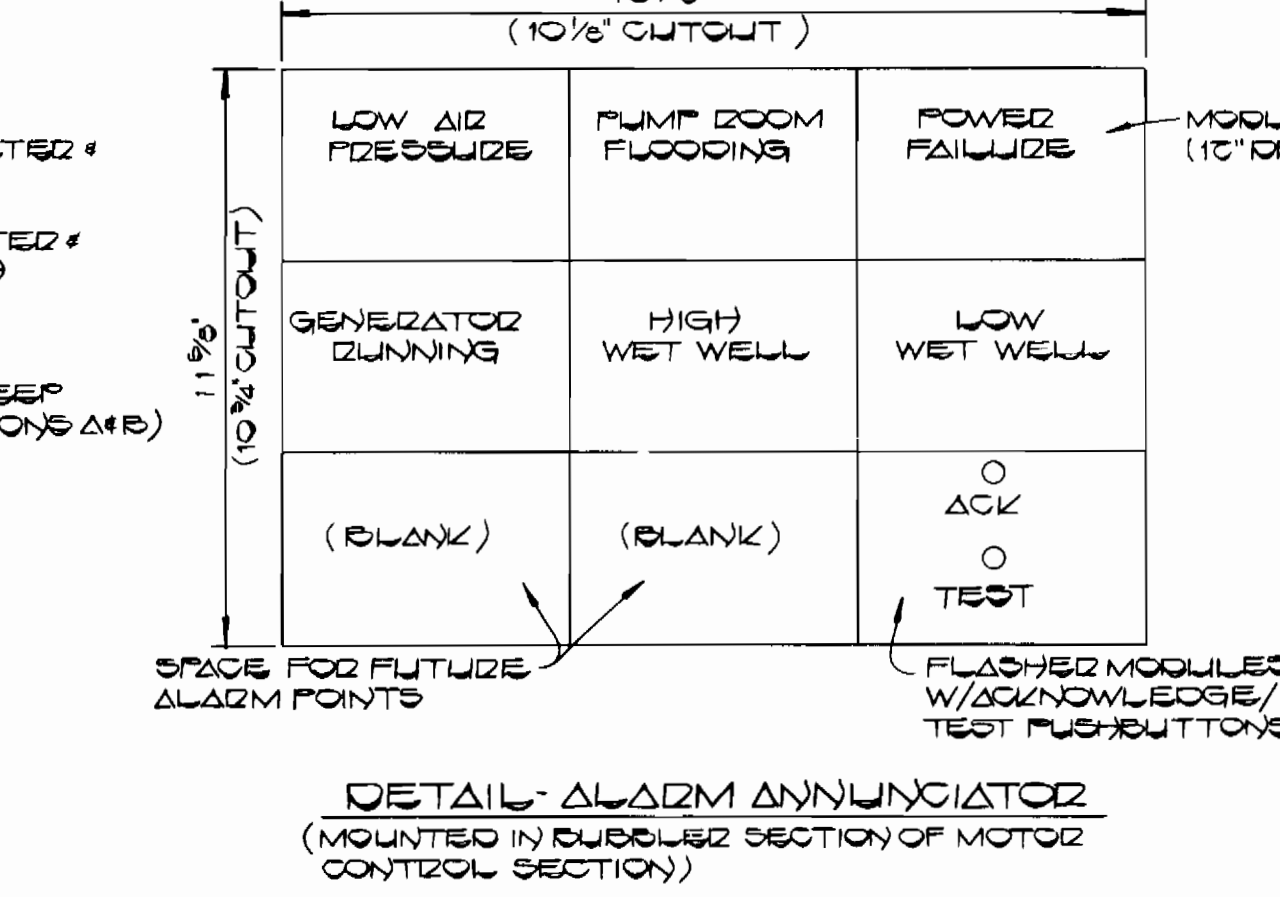
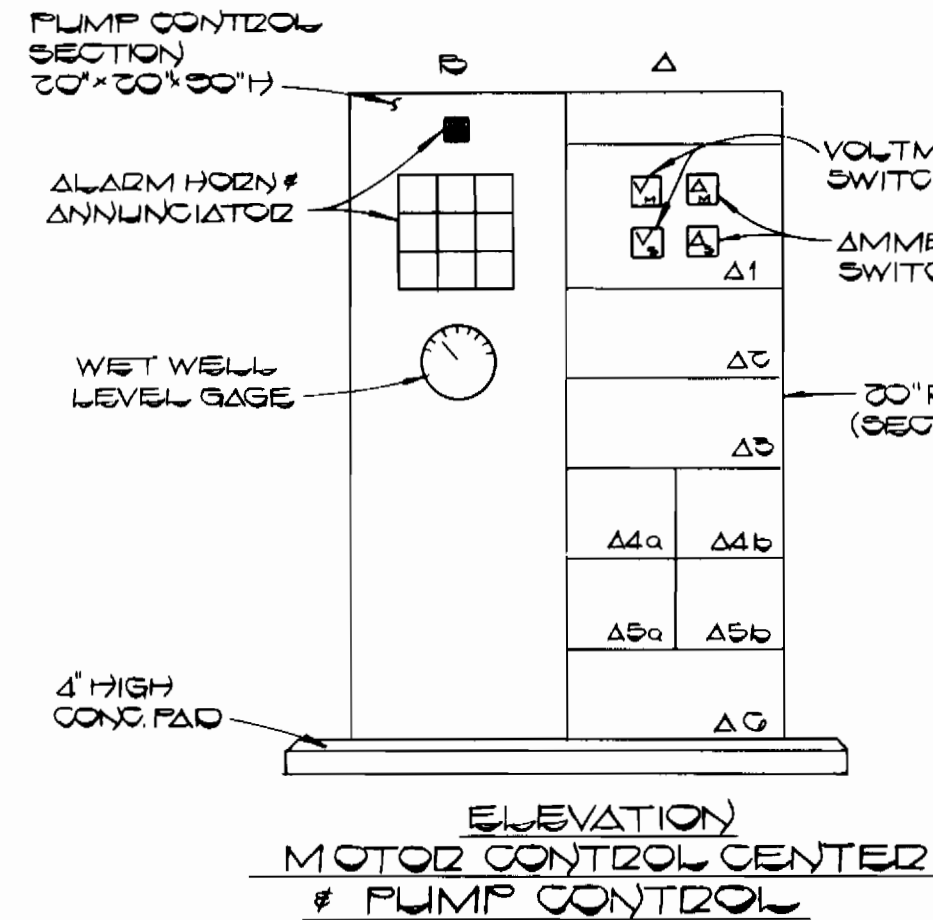


PANEL SCHEDULE "LP" - 120/240 VOLTS, 1 PHASE, 3 WIRE - SN-SURFACE							
CIR	FOR	BREAKER FR POLE	CAL	CIR	FOR	BREAKER FR POLE	CAL
1	LIGHTS-CONTROL RM., GEN. RM.	100	1	20	2	RECEPTACLE - SUMP PUMP	100
3	LIGHTS - PUMP ROOM	100	1	20	4	DEHUMIDIFIERS	100
5	RECEPTACLES - PUMP ROOM	100	1	20	6	LIGHTS - WET WELL	100
7	RECEPTACLES - GENERATOR ROOM	100	1	20	8	AIR COMPRESSOR SYSTEM	100
9	RECEPTACLES - CONTROL ROOM	100	1	20	10	GENERATOR JACKET WATER HEATER	100
11	CONTROL - BUBBLER SYSTEM	100	1	20	12	GENERATOR BATTERY CHARGER	100
13	CONTROL - ALARM SYSTEM	100	1	20	14	DAY TANK	100
15	CONTROL - FLOAT SYSTEM	100	1	20	16	WET WELL AIR SUPPLY FAN	100
17	FLOW & LEVEL RECORDERS	100	1	20	18	BUILDING AIR SUPPLY FAN	100
19	SEAL WATER SYSTEM	100	1	20	20	HIGH WET WELL ALARM	100
21	TELEMETRY SYSTEM	100	1	-	22	SPACE & BUS	100
23	SPACE & BUS	100	1	-	24	SPACE & BUS	100
25	SPACE & BUS	100	1	-	26	SPACE & BUS	100
27	SPACE & BUS	100	1	-	28	SPACE & BUS	100
29	SPACE & BUS	100	1	-	30	SPACE & BUS	100

MAIN BREAKER - 100 A FRAME, 100A. CALIB. - TOP PROVIDE GROUND BUS



FIXTURE SCHEDULE	
FIXTURE TYPE	DESCRIPTION
A	INDUSTRIAL FLUORESCENT, 1' X 4', 2 LAMP, WITH NO UPLIGHT, PENDANT SUSPENDED M.H. 10' LITHONIA AFST SERIES OR EQUAL
B	WRAP AROUND FLUORESCENT, ENCLOSED & GASKETED 1' X 4', 2 LAMP, WALL MOUNTED - MORRIS KURTZON B-40 OR EQUAL.
C	INCANDESCENT WALL BRACKET, EXPLOSION PROOF, WITH GLOBE GUARD & 100 WATT LAMP. CROUSE HINDS EVBX 204 OR EQUAL.
D	EXTERIOR WALL MOUNT, 50 WATT H.P.S., IMPACT RESISTANT POLYCARBONATE BODY AND LENS HUBBELL NRG 302PC, 120VOLT, WITH PHOTOELECTRIC CONTROL.
EMER. LIGHTS	120V AC, 6V DC SOLID STATE UNIT WITH MAINTENANCE FREE LEAD CALCIUM BATTERIES AND 2 HEADS SURE-LITES MODEL 1200 OR EQUAL.



- FOR LOW PRESSURE ALARM, CONNECT TO LOW PRESSURE ALARM SWITCH ON AIR RECEIVED TANK DIRECTLY TO ANNUNCIATOR POINT
- FOR PUMP ROOM FLOODING ALARM, CONNECT SUMP FLOAT ALARM CONTACTS DIRECTLY TO ANNUNCIATOR POINT
- FOR GENERATOR RUNNING ALARM, CONNECT AUXILIARY CONTACTS ON EMERGENCY POWER MONITOR DELAY IN TRANSFER SWITCH DIRECTLY TO ANNUNCIATOR POINT. (CONTACTS CLOSE WHEN STATION HAS EMERGENCY POWER.)
- FOR POWER FAILURE ALARM, CONNECT AUXILIARY CONTACTS ON NORMAL POWER MONITOR DELAY IN TRANSFER SWITCH DIRECTLY TO ANNUNCIATOR. (CONTACTS CLOSE ON LOSS OF NORMAL POWER.)

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: Mark F. Newmyer  
 Chief, Bureau of Engineering: [Signature]  
 Chief, Bureau of Utilities: [Signature]  
 Chief, Land Development Division: [Signature]

FISHER, COLLINS AND CARTER, INC.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVENUE  
 ELLICOTT CITY, MARYLAND 21043  
 Project Engineer: Terrell A. Fisher

DES. P.W.K.	
DRN. D.B.S.	
CHK. T.A.F.	
DATE:	
BY NO.	
REVISION	

ELECTRICAL DETAILS  
 600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

CHERRYTREE FARM  
 WASTEWATER PUMPING STATION  
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 SIXTH ELECTION DISTRICT  
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