

**COUNTY OF WESTCHESTER  
NEW YORK**

**DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION  
DIVISION OF ENGINEERING**

**ADDENDUM NO. 2**

**CONTRACT NO. 22-510**

**FOR**

**JACKSON AVENUE PUMPING STATION REHABILITATION  
BRONX VALLEY SANITARY SEWER DISTRICT  
TOWN OF GREENBURGH, NEW YORK**

The attention of the bidders is directed to the following changes, additions, and/or substitutions affecting the above-referenced contract(s).

**A. RE: GENERAL CONTRACT INFORMATION:**

**Item 1:** Bidders Questions and Responses

**Attached hereto.**

**B. RE: THE SPECIFICATIONS:**

**Item 1:** Specification 01540 Paragraph 1.03.G.2

**Delete** “384” and **Replace** with “156”

**Item 2:** Specification 01640

**Delete** table “Schedule Of Equipment Testing And Manufacture’s Services” and **Replace** with Attachment 2 in Addendum No. 2.

**Item 3:** Specification 08710 Section 3.06

**Delete** Paragraph 3.06 “Hardware Sets”

**Item 4:** Specification 15060, Paragraph 2.13

**Delete** Paragraph 2.13 “Insulation”

**Item 5:** Specification 16900

**Add** the following as paragraph 2.14

**2.14 HEAT DETECTORS**

Edwards Signaling, Rate Compensation Heat Detectors (302 series), sensor rated 194°F, suitable for use in Class 1, Div. 1 Group D hazardous areas, or equal.”

**Item 6:** Specification 33213

In paragraph 3.02.B **Delete** “One full 8-hour day” and **Replace** with “**12- hours**”

**C. RE: THE DRAWINGS:**

**Item 1:** Drawing E-006

In the upper Level Floor Plan Revise the callout “TELEMETRY PANEL AND PANEL MOUNTED RECEPTACLE” to the following,

“TELEMETRY PANEL AND PANEL MOUNTED RECEPTACLE INSTALLED ON 1” PLYWOOD TELECOM BACKBOARD, PAINTED BLACK”

**Item 2:** Drawing E-010

In note 2 of the Typical Ventilation Elementary, **Delete** “See spec section XXXXXX” **Replace** with “See specification section 15831”

**Item 3:** Drawing E-011

**Delete** Drawing E-011 **Replace** with Attachment 3 in Addendum No. 2.

**Item 4:** Drawing E-013

Add the following note to the Level Float Mounting Detail

“Note: Provide two (2) stainless steel mounting brackets, one at each side of the divided wet well. Coordinate location in field with Owner and Engineer.”

ALL PROVISIONS OF THE CONTRACT NOT AFFECTED BY THE FOREGOING SHALL REMAIN IN FULL FORCE AND EFFECT.

COUNTY OF WESTCHESTER  
DEPARTMENT OF PUBLIC WORKS

By: Hugh J. Greechan, Jr., P.E.  
Commissioner

Dated: March 20, 2024  
White Plains, New York

# Bidders Questions and Response

**BIDDER'S QUESTIONS AND RESPONSES****CONTRACT NO. 22-510  
JACKSON AVENUE PUMPING STATION REHABILITATION  
BRONX VALLEY SANITARY SEWER DISTRICT  
TOWN OF GREENBURGH, NEW YORK**

To All Contractors:

Contractors submitting proposals for the above-named project shall take note of the following changes, additions, deletions, clarifications, etc., in the Contract Documents, which shall become a part of and have precedence over anything contrarily shown or described in the Contract Documents, and all such shall be taken into consideration and be included in the Contractor's bid proposal.

Below are the **Questions** that have been submitted with **Responses**:

**Question 1:** *Please provide geotechnical information regarding the presence of rock, water and/or hazardous/contaminated materials. If there is no information available, how will the contractor be compensated for handling these unknown conditions, if encountered?*

**Response:** Geotechnical information is not available. The contract documents include provisions for unforeseen conditions.

**Question 2:** *Section 1.03.G of specification 01540-Temporary Bypass Pumping indicates the following elevations:*

- Forcemain Discharge Manhole Elevation – 241.5
- Ground elevation at pump station – 384

*The contract drawings show approximate ground elevation at the pump station of 156±. Please confirm if the elevation listed in the specification is an error.*

**Response:** This Specification has been modified in Addendum No. 2.

**Question 3:** *Please provide as-built drawings of the existing superstructure.*

**Response:** Available "Record Plans" can be found in Attachment 1 in Addendum No. 2.

**Question 4:** *Please provide the size and depth of the bypass pumping manhole shown on drawing G-008.*

**Response:** Additional information about the manhole is available in the "Record Plans" drawings in Attachment 1 in Addendum No. 2.

**Question 5:** *Specification 41220-Hoists and Cranes, section 3.04 refers to specification 01640 for manufacturer's representative's services, then indicates other services required by the representative. Specification 01640 does not list any manufacturer's service requirements for the hoists and cranes. Please confirm the contract requirements.*

**Response:** This Specification has been modified in Addendum No. 2.

**Question 6:** *The manufacturer's representative's services in specification 11291-Sluice Gates, section 3.03.B, do not match the services shown on the schedule in specification 01640 page 13. Please confirm the requirements.*

**Response:** Refer to response to question 5.

**Question 7:** *Specification 33213-Water Supply Well, sections 3.02 and 3.03 refer to specification 01640 for manufacturer's representative's services, then indicates other services required by the representative. Specification 01640 does not list any manufacturer's service requirements for the well pump system. Please confirm the contract requirements.*

**Response:** Refer to response to question 5.

**Question 8:** *Please provide additional information related to the Bypass Manhole shown on drawing G-008. Does this manhole include both a connection for the bypass discharge hookup and a valve on the existing forcemain to prevent the backflow of sewage into the pump station?*

**Response:** Additional information is available in the "Record Plans" drawings in Attachment 1.

**Question 9:** *There is a leader note on drawing G-007 "Provide extended valve operators to 6" below cover onto existing valves inside manhole." Additional details are needed in order to determine the exact scope of work required.*

**Response:** Additional information is available in the "Record Plans" drawings in Attachment 1.

**Question 10:** *Please advise if reinforcement is required for the concrete encased ductbanks shown on drawing E-003, and provide details if required.*

**Response:** reinforcement is not required for concrete encased ductbanks shown on E-003.

**Question 11:** *Could you please provide us borings for the project? How deep is the water table at this "location"? Is there any rock?*

**Response:** Refer to response to Question 1. Groundwater fluctuates throughout the season and can be as high as 1 foot below grade.

**Question 12:** *General Note #31 on drawing H-001 reads: "All ductwork open to the drywell shall be stainless steel 316. All ductwork open to the wetwell shall be fiberglass." There is no ductwork in the wetwell, but there is ductwork in the levels above the wetwell as shown on drawing H-005. Please provide clarification on the drawings as to which ductwork, if any, is scheduled to be fiberglass.*

**Response:** Duct work located on the wet well side of the building will be open to the wet well.

**Question 13:** *Find this RFI requesting clarification on door hardware schedule. They do not match between the drawings & specifications. Please advise what to use.*

**Response:** The hardware schedule on the drawings is to be used. This Specification has been modified in Addendum No. 2.

**Question 14:** *Division 15, Section 15060, Paragraph 2.13 states that piping shall be insulated in accordance with section 15260, Piping Insulation. However, Section 15260 does not exist in project specifications. Please clarify.*

**Response:** This Specification has been modified in Addendum No. 2.

**Question 15:** *Upon review, it was noted the specs contained the following language regarding the OCP: d) Owners Protective Liability Policy naming the County as insured, with a minimum limit of liability per occurrence of \$3,000,000 (where applicable, or as determined by the Director, Risk Management) Please confirm that an OCP policy is required for this project?*

**Response:** Refer to the contract documents for insurance requirements.

**Question 16:** *Regarding the MSA MultiGard 5000 Gas Detection System specified in 17650, please confirm that the contract requires this system, which is capable of monitoring up to 32 sample ports, even though there is only one sample port required in the contract.*

**Response:** Bid as specified.

# **ATTACHMENT 1**

LIST OF DRAWINGS

CONTRACT NO. 1460G - CONSTRUCTION

1. LOCATION PLAN AND SHEET INDEX
2. SITE DETAILS
3. TOP FLOOR - PLAN AND SECTIONS
4. MIDDLE FLOOR - PLAN AND SECTIONS
5. BASEMENT - PLAN AND SECTIONS
6. SCHEMATICS AND MISCELLANEOUS DETAILS
7. MISCELLANEOUS DETAILS
8. ARCHITECTURAL DETAILS

CONTRACT NO. 1460E - ELECTRICAL

- E-9 SITE AND TOP FLOOR PLAN  
E-10 MIDDLE AND BASEMENT FLOOR PLAN

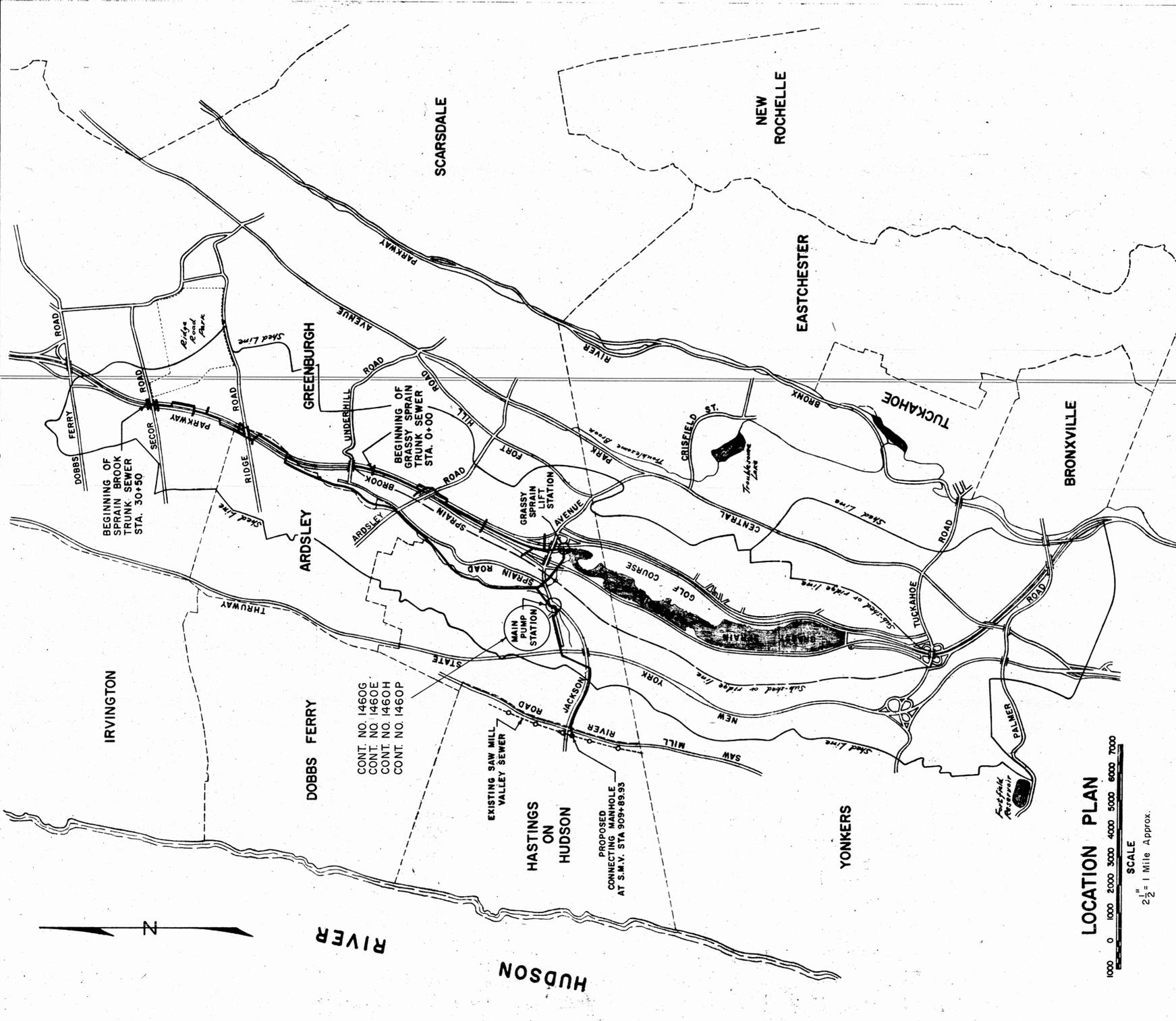
CONTRACT NO. 1460H - HEATING & VENTILATING

- HVP. 11 TOP FLOOR PLAN AND SECTION  
HVP. 12 MIDDLE AND BASEMENT FLOOR PLANS

CONTRACT NO. 1460P - PLUMBING

- HVP. 11 TOP FLOOR PLAN AND SECTION  
HVP. 12 MIDDLE AND BASEMENT FLOOR PLANS

APPROVED: EDWARD J. DELEHANTY, COMMISSIONER  
BY: *Guy E. Griffin*  
GUY E. GRIFFIN, DEPUTY COMMISSIONER



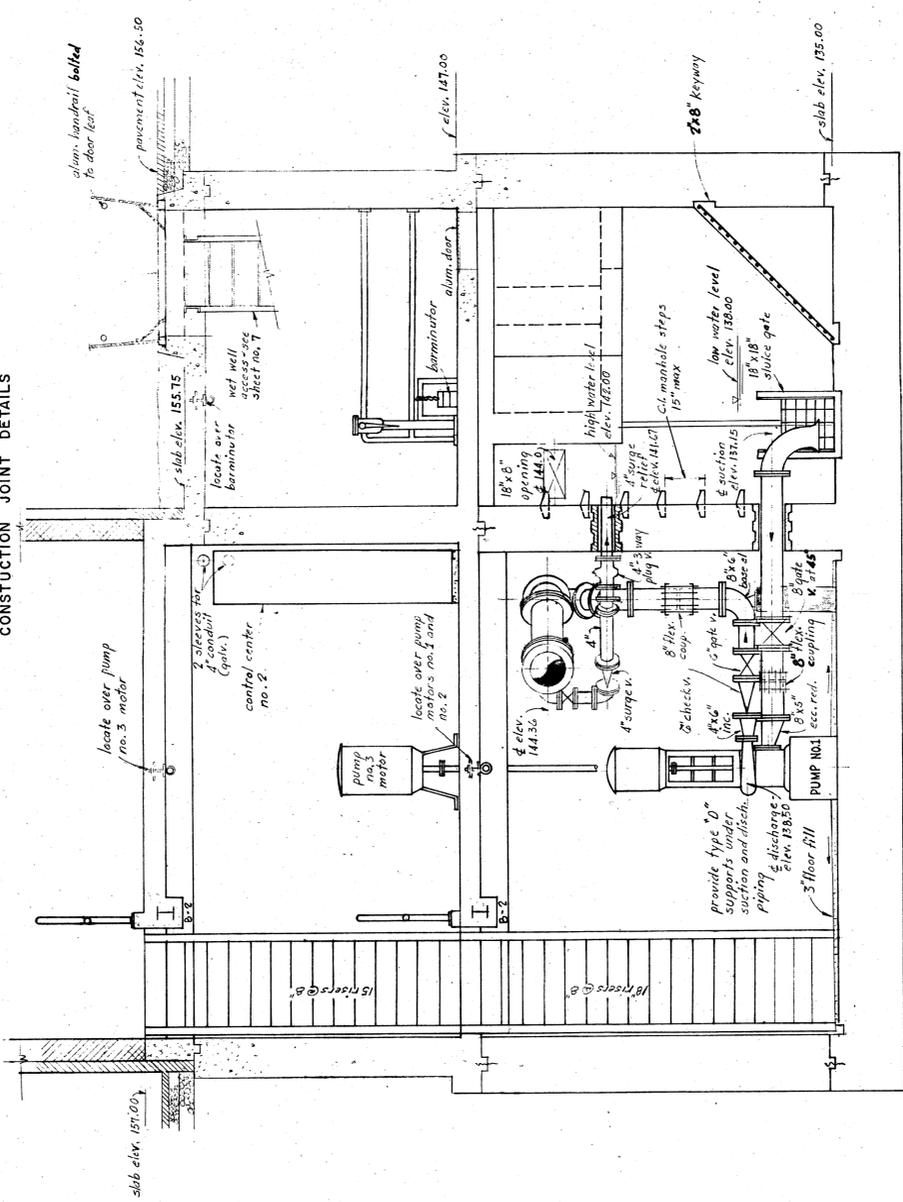
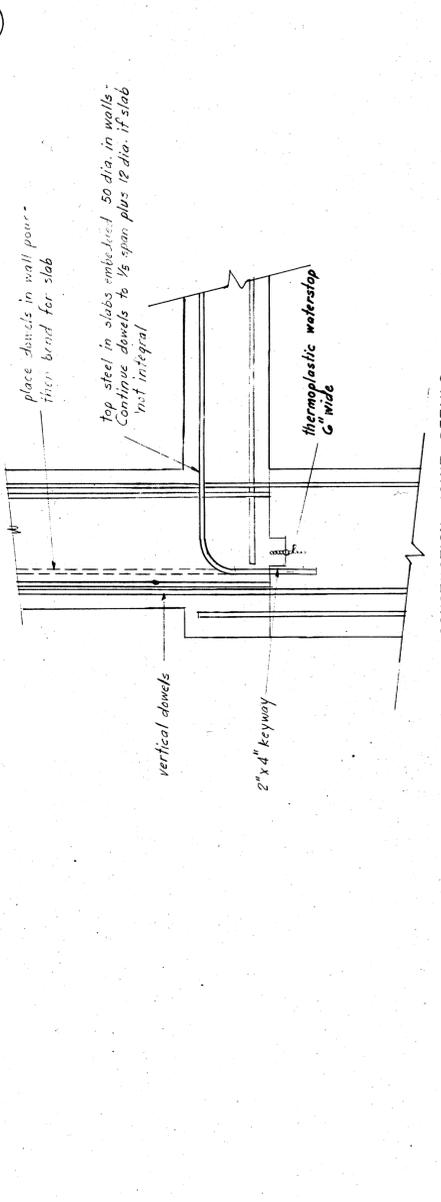
LOCATION PLAN



DESIGNED	DRAWN	TRACED	CHECKED	JAB	EST	GWT	PROJECT ENGINEER	NO.	LOCATION	DATE	BY	CKD.	REVISIONS	LOCATION PLAN AND DRAWING INDEX	FEBRUARY 1969	SHEET 1 OF 12 SHEETS
COUNTY OF WESTCHESTER DEPARTMENT OF PUBLIC WORKS DIVISION OF SEWERS EDWARD J. DELEHANTY, COMMISSIONER <i>Guy E. Griffin</i> GUY E. GRIFFIN, DEPUTY COMMISSIONER																
CONTRACT NO. 1460G FOR CONSTRUCTION OF SPRAIN PUMPING STATION FOR BRONX VALLEY SANITARY SEWER DISTRICT LOCATED IN THE TOWN OF GREENBURGH WESTCHESTER COUNTY, NEW YORK																



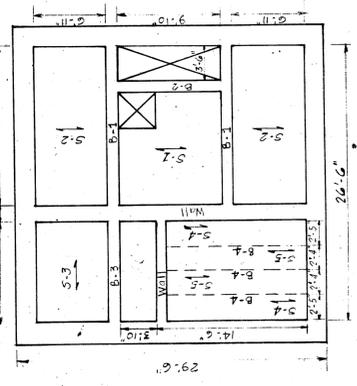




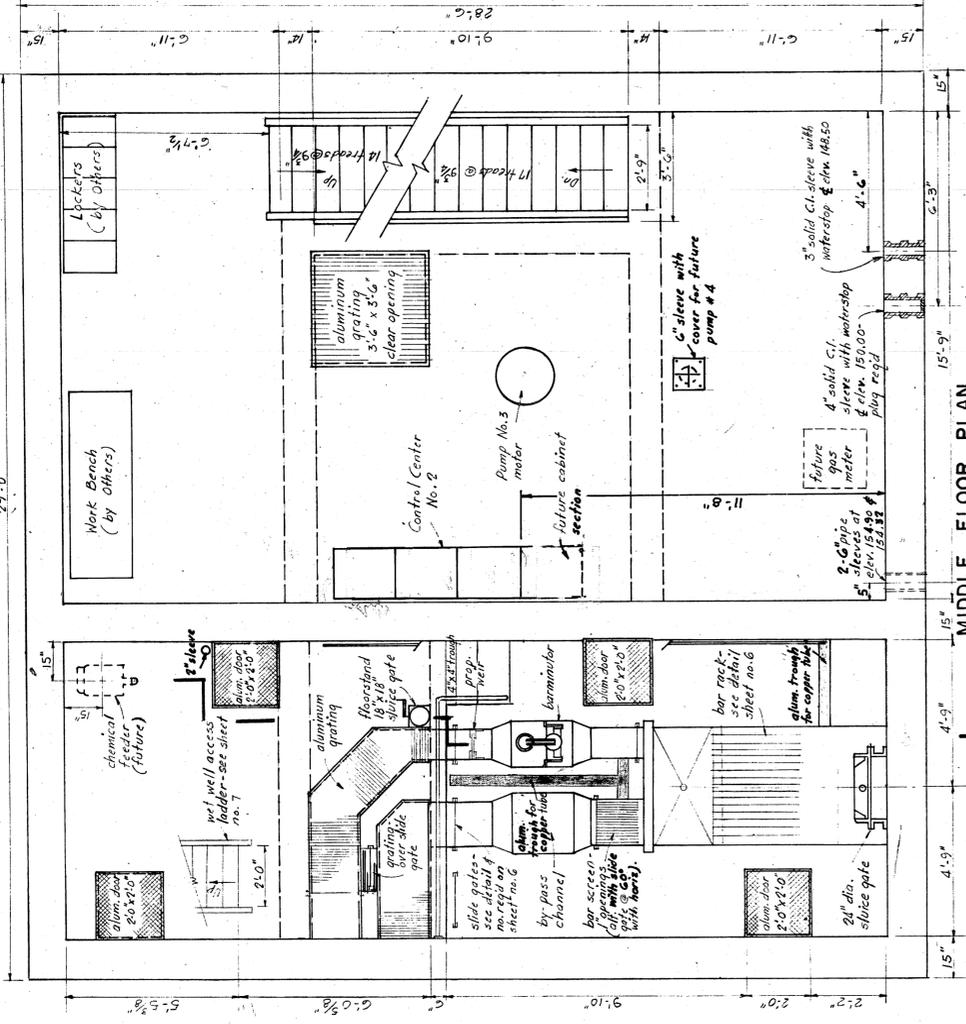
SECTION C-C

REINFORCED CONCRETE NOTES

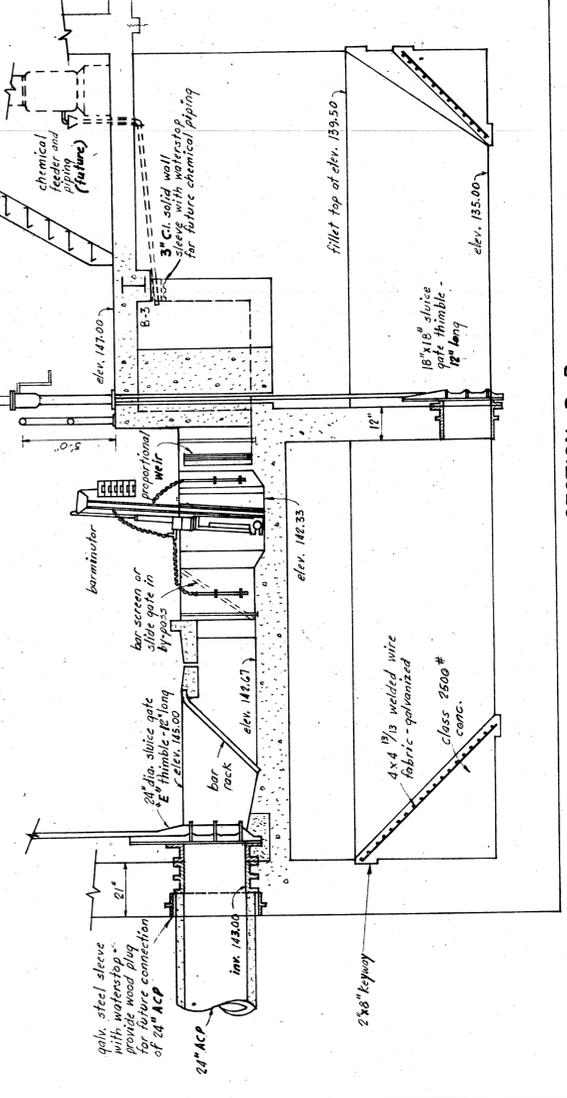
1.  $f_c = 3750$  p.s.i.  $f_s = 15000$  p.s.i.  $f_s = 20000$  p.s.i.
2. All slabs except basement are designed for a live load of  $300 \text{ lb/ft}^2$
3. Clear cover: walls - 3" outside below step - 2" outside above step  
Bottom slab - 3" bottom outside - 2" top inside
4. Provide bar supports in accordance with A.C.I. Detailing Manual
5. Construction joints shall be located where shown



STRUCTURAL PLAN  
MIDDLE FLOOR  
SCALE: 1/8" = 1'-0"



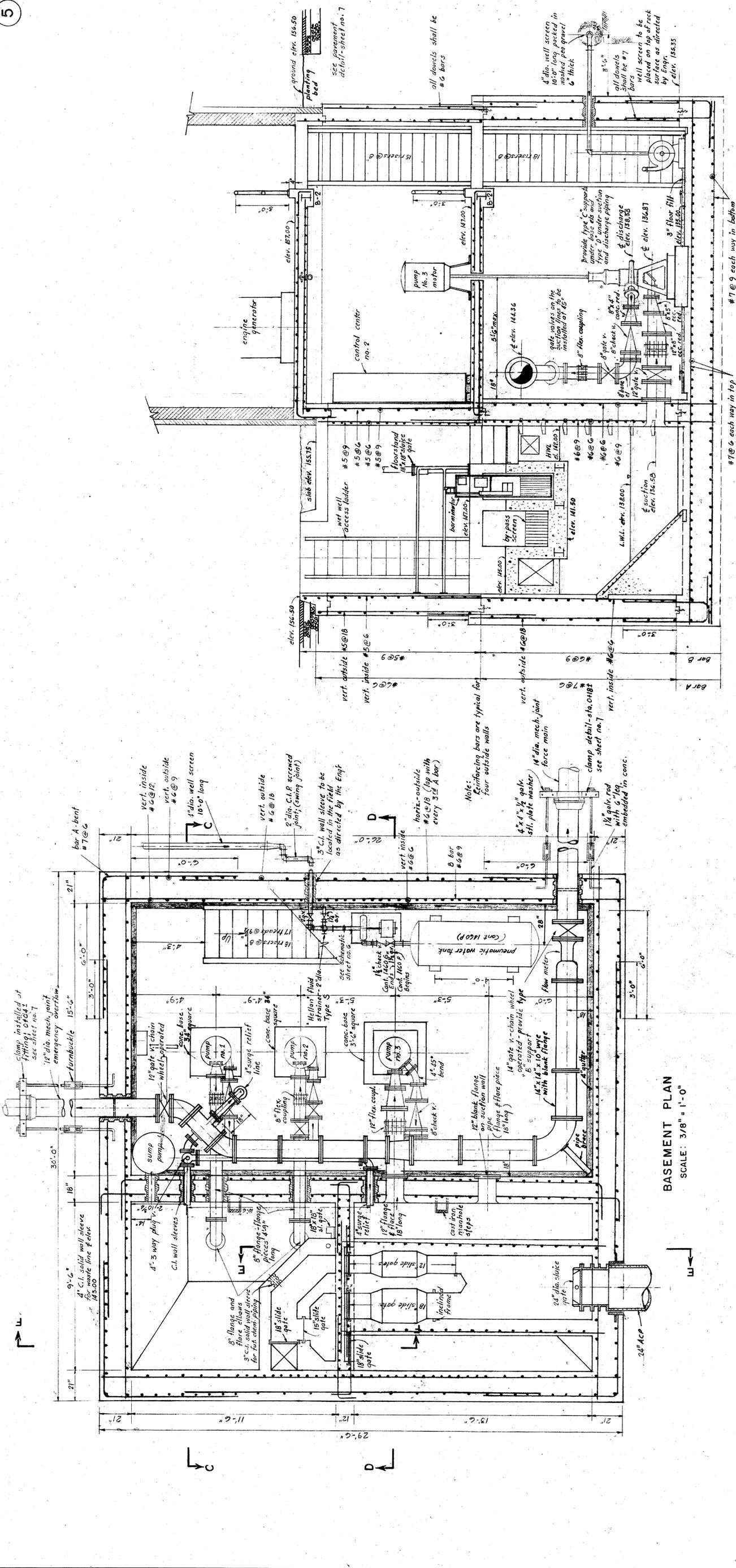
MIDDLE FLOOR PLAN  
SCALE: 3/8" = 1'-0"



SECTION B-B

RECORD PLAN

DESIGNED	GMT-JAR	PROJECT ENGINEER	NO.	LOCATION	DATE	BY	CKD.
DRAWN	GMT-NAP	AS BUILT ADDITIONS					
TRACED	EPT						
CHECKED	NAC:GMT						
COUNTY OF WESTCHESTER DEPARTMENT OF PUBLIC WORKS DIVISION OF SEWERS CONTRACT NO. 14606 FOR CONSTRUCTION OF SPRAIN PUMPING STATION FOR THE BRONX VALLEY SANITARY SEWER DISTRICT LOCATED IN THE TOWN OF GREENBURGH WESTCHESTER COUNTY, NEW YORK EDWARD J. DELEHANTY, COMMISSIONER BY: GUY E. GRIFFIN, DEPUTY COMMISSIONER							
MIDDLE FLOOR PLAN AND SECTIONS							
FEBRUARY 1969 SHEET 4 OF 12 SHEETS							



**RECORD PLAN**

**SECTION D - D**

**SECTION E - E**

**SECTION F - F**

**CONCRETE SLAB SCHEDULE**

MARK	DEPTH	SHORT SPAN	LONG SPAN	REMARKS
S-1	8"	#5@12	#5@18	Run bars straight through top of beam on way
S-2	8"	#5@12	#5@18	Hook all bars at openings in slabs
S-3	8"	#5@12	#5@18	Do not hook bottom bars @ beam webs
S-4	8"	#5@12	#5@18	Use 90° hooks - all top bars - cut 50 dia.
S-5	8"	#4@9	#4@12	#4@9
S-6	8"	#5@9	#5@12	#5@12

**STEEL BEAM SCHEDULE**

MARK	SIZE	LENGTH	BEARING PLATE
B-1	12 x 10 WF 53*	middle floor - 11'-2"	middle floor - 11'-2"
B-2	6 x 4 WF 16*	10' - 11 1/2"	standard 1/2" conn.
B-3	8 x 6 WF 28*	11' - 0"	14 x 1 1/2 x 0'-8"
B-4	6 x 6 WF 25*	15' - 0"	14 x 1 1/2 x 0'-8"

**CONCRETE BEAM SCHEDULE**

MARK	SIZE	LENGTH	REMARKS
B-5	12" x 12"	9' - 0"	3-#8 in bottom

**Notes:**

- All beam connections to be standard 1/2" series except as noted.
- All bearing plates shall be standard rolled steel of the thickness shown.

**CONTRACT NO. 1460 G**  
**FOR CONSTRUCTION OF**  
**SPRAIN PUMPING STATION**  
FOR THE  
**BRONX VALLEY SANITARY SEWER DISTRICT**  
LOCATED IN THE TOWN OF GREENBURGH  
WESTCHESTER COUNTY NEW YORK

**COUNTY OF WESTCHESTER**  
**DEPARTMENT OF PUBLIC WORKS**  
**DIVISION OF SEWERS**

**EDWARD J. DELEHANTY, COMMISSIONER**  
BY: **GUY E. GRIFFIN, DEPUTY COMMISSIONER**

**PROJECT ENGINEER**

**DESIGNED** GMT-NAR  
**DRAWN** GMT-NAR  
**TRACED** SFT  
**CHECKED** NHC-GMT

**AS BUILT ADDITIONS**

NO.	LOCATION	DATE	BY	CKD.

**REVISIONS**

NO.	LOCATION	DATE	BY	CKD.

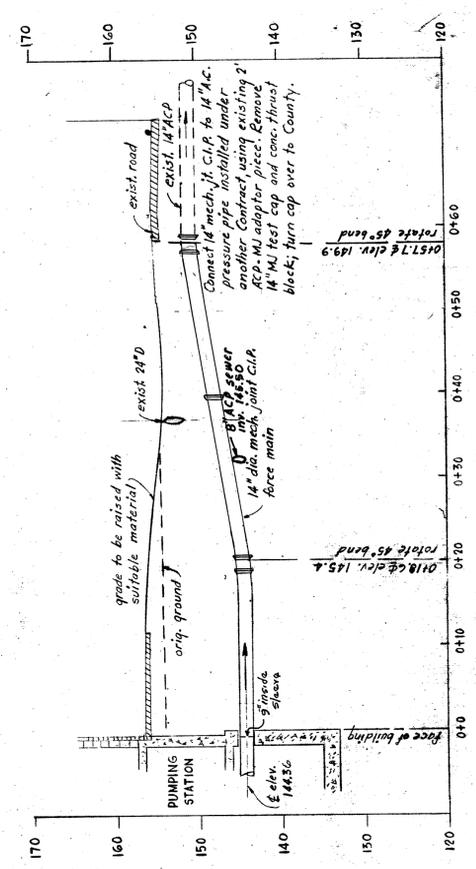
**BASEMENT**

**PLAN AND SECTIONS**

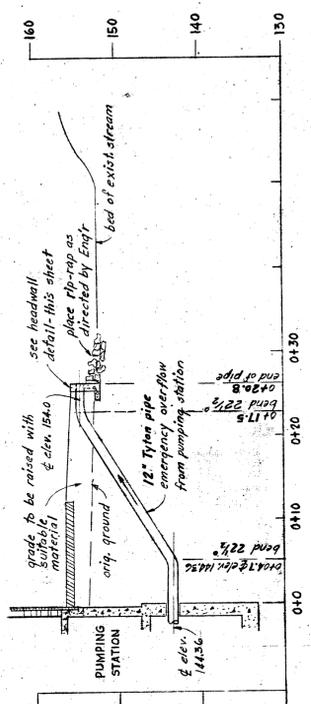
**FEBRUARY 1969**

**SHEET 5 OF 12 SHEETS**

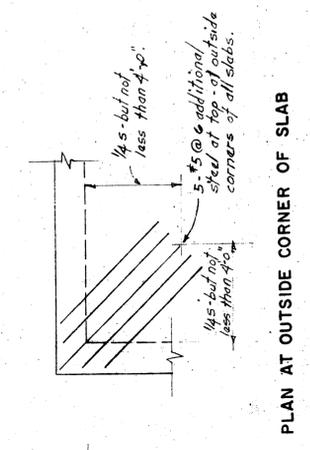




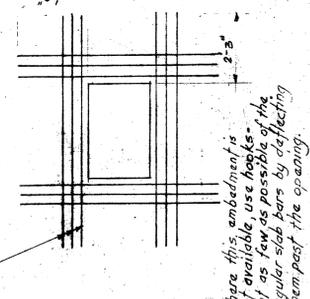
PROFILE - 14" FORCE MAIN  
 SCALES: HORIZ. 1" = 10'  
 VERT. 1" = 10'



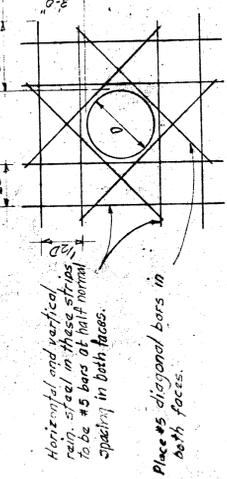
PROFILE - 12" EMERGENCY OVERFLOW  
 SCALES: HORIZ. 1" = 10'  
 VERT. 1" = 10'



PLAN AT OUTSIDE CORNER OF SLAB

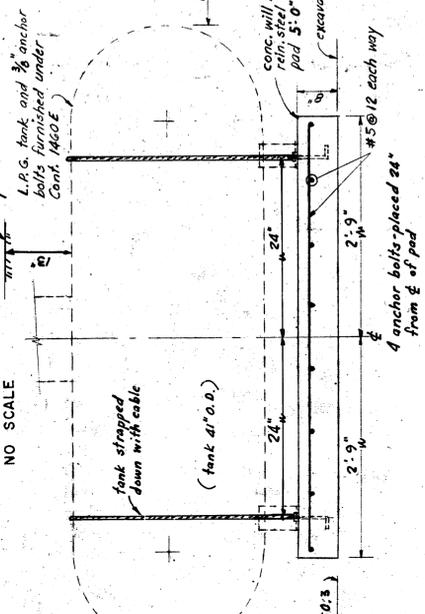


AT OPENINGS IN SLAB  
 LESS THAN 2'-6" SQUARE



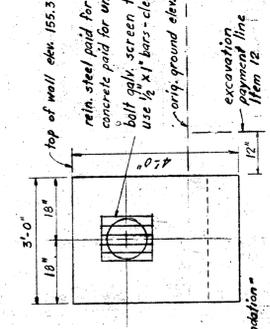
WALL OPENINGS

ADDITIONAL REINFORCEMENT



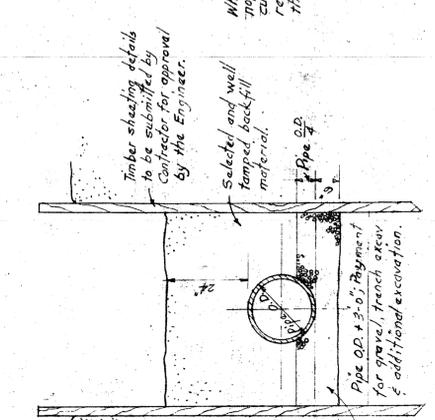
L.P.G. TANK DETAIL  
 SCALE: 3/4" = 1'-0"

WET WELL ACCESS DETAIL  
 SCALE: 1/2" = 1'-0"



HEADWALL DETAIL  
 SCALE: 1/2" = 1'-0"

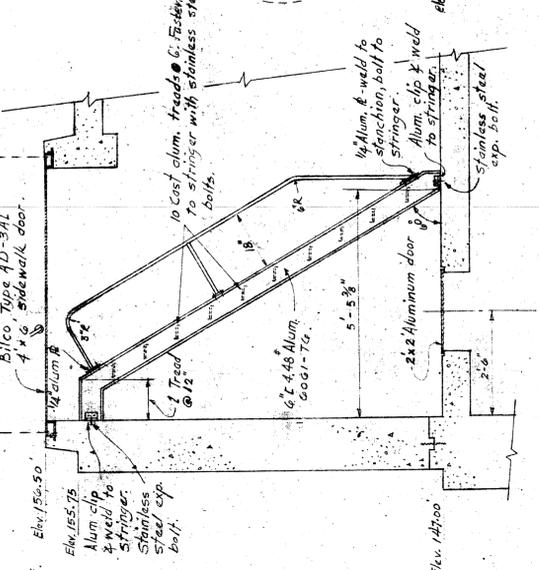
CLAMP DETAIL  
 SCALE: 1/2" = 1'-0"



UNSHEETED TRENCH - EARTH OR ROCK

SHEETED TRENCH - EARTH

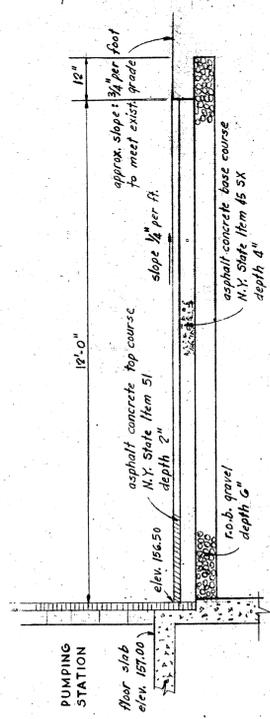
TYPICAL TRENCH DETAILS  
 SCALE: 1/2" = 1'-0"



GENERATOR PAD

PUMP BASES

PAD & BASE DETAILS  
 SCALE: 1" = 1'-0"



TYPICAL SECTION FOR PAVEMENT  
 SCALE: 1" = 2'

DESIGNED	MAR - PAE	COUNTY OF WESTCHESTER DEPARTMENT OF PUBLIC WORKS DIVISION OF SEWERS BRONX VALLEY SANITARY SEWER DISTRICT LOCATED IN THE TOWN OF GREENBURGH WESTCHESTER COUNTY, NEW YORK	CONTRACT NO. 1460G FOR CONSTRUCTION OF SPRAIN PUMPING STATION	REVISIONS		FEBRUARY 1969 SHEET 7 OF 12 SHEETS		
DRAWN	MAR - PAT			NO.	LOCATION		DATE	BY
TRACED	PAT - EST							
CHECKED	GAU - MAR							



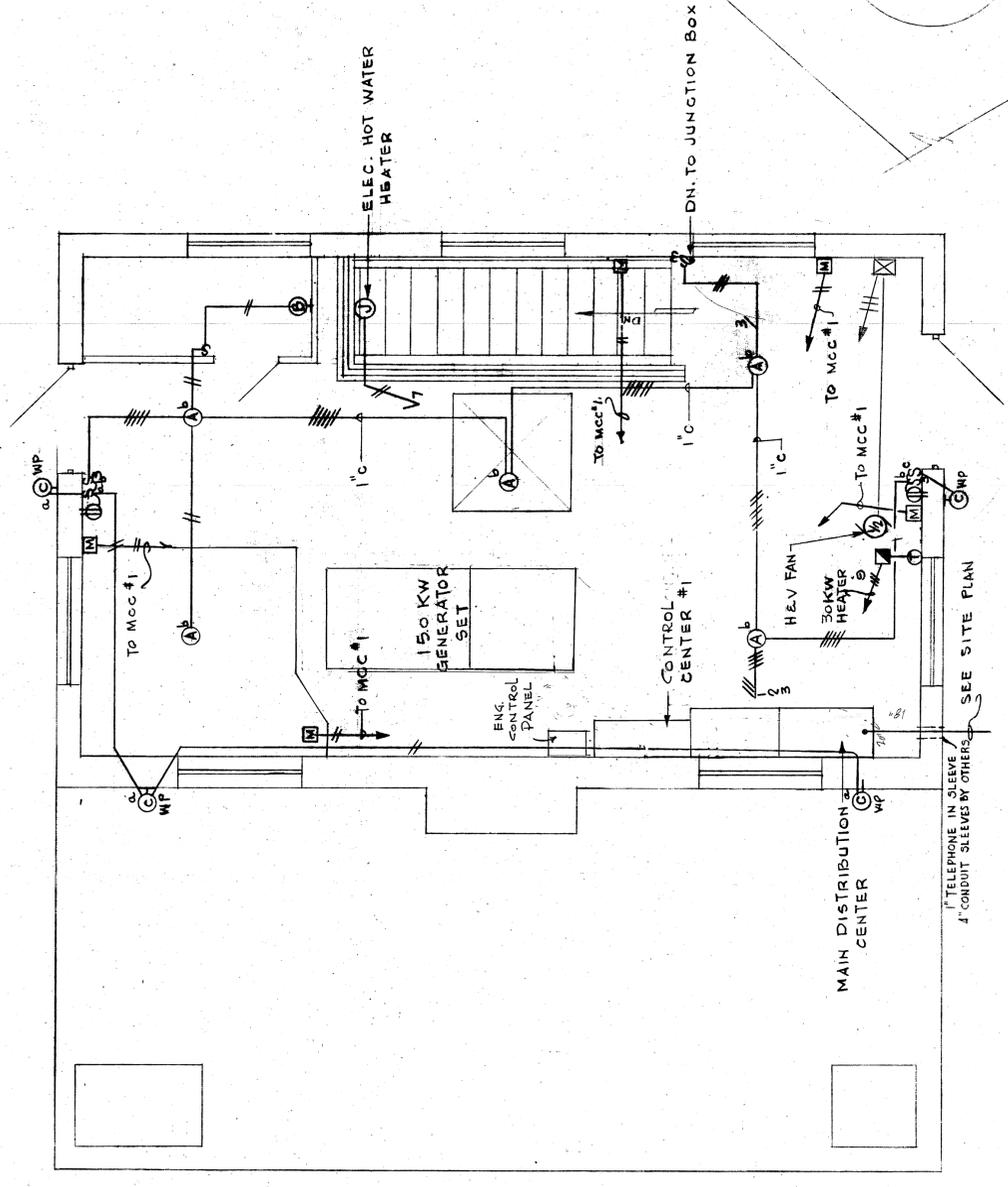
EDWARD J. DELEHANTY, COMMISSIONER  
 BY: GUY E. GRIFFIN, DEPUTY COMMISSIONER

PROJECT ENGINEER

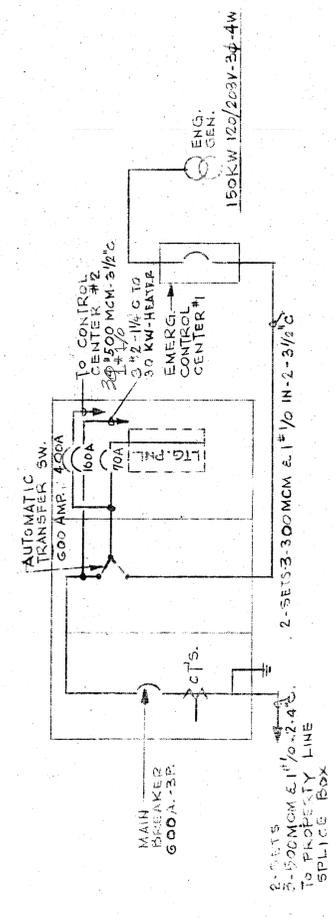
AS BUILT ADDITIONS

NO. LOCATION DATE BY CKD.





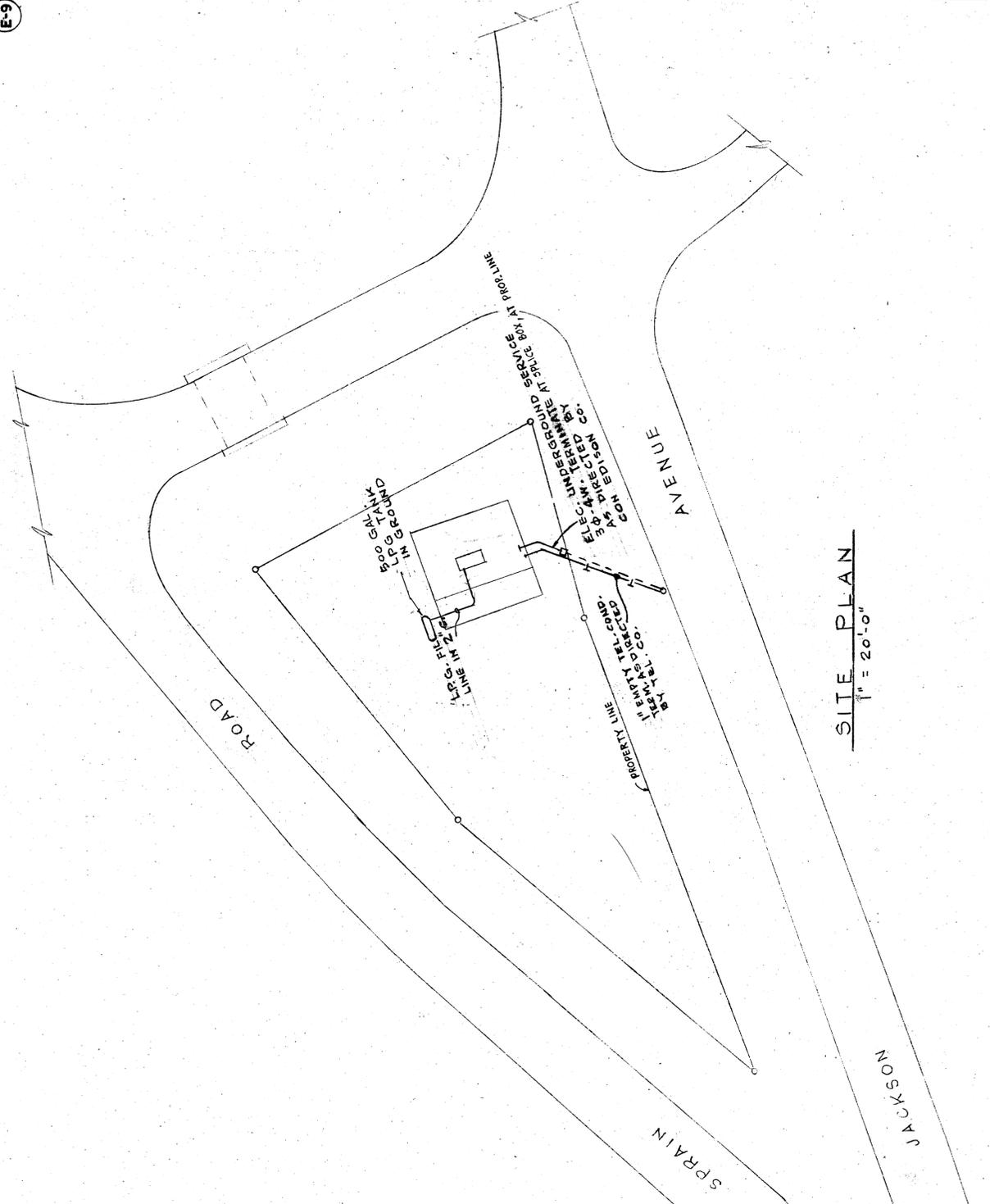
TOP FLOOR  
3/8" = 1'-0"



L.P.G. FUEL PIPING DIAGRAM  
NOTE: SEE SPECIFICATIONS

CKT. NO.	SERVES	CIRCUIT BREAKER	TRIP
1	LIGHTING	1	50A 20A
2	LIGHTING	1	50A 20A
3	LIGHTING	1	50A 20A
4	RECEPTACLES	1	50A 20A
5	FAN E-1	1	50A 20A
6	FAN E-2	1	50A 20A
7	HW HEATER	1	50A 20A
8	SUMP PUMP	1	50A 20A
9	H.V. UNIT	3	15A
10	PUMP & COMPRESSOR	3	100 50A
11	FLOW METER TRANSMITTER	1	50 20A
12-16	SPARES	1	50 20A

MAIN DISTRIBUTION CENTER DIAGRAM  
NOT TO SCALE



SITE PLAN  
1" = 20'-0"

RECORD PLAN

DESIGNED	M.F.D.	DATE	BY	CKD.
DRAWN	V.V.	LOCATION	DATE	BY
TRACED	F.G.	NO.	LOCATION	DATE
CHECKED	M.F.D.	NO.	LOCATION	DATE

AS BUILT ADDITIONS

ANTHONY J. DAMARINO, P.E.  
Consulting Engineer  
420 Livingston Avenue  
New York, N.Y. 10017

EDWARD DELEHANTY, COMMISSIONER  
BY: GUY B. GRIFFIN, DEPUTY COMMISSIONER

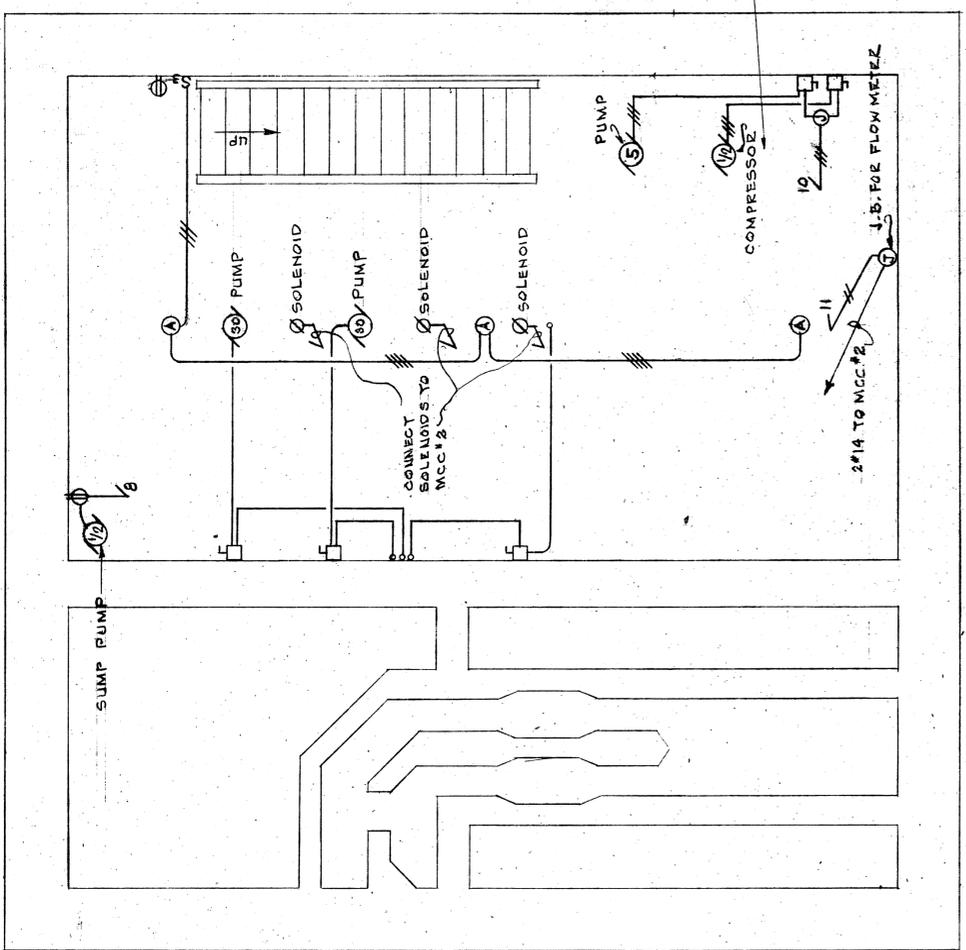
COUNTY OF WESTCHESTER  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF SEWERS

CONTRACT NO. 1460E - ELECTRICAL WORK APPURTENANT,  
TO THE CONSTRUCTION OF THE  
SPRAIN PUMPING STATION  
FOR THE  
BRONX VALLEY SANITARY SEWER DISTRICT  
LOCATED IN THE TOWN OF GREENBURGH  
WESTCHESTER COUNTY NEW YORK

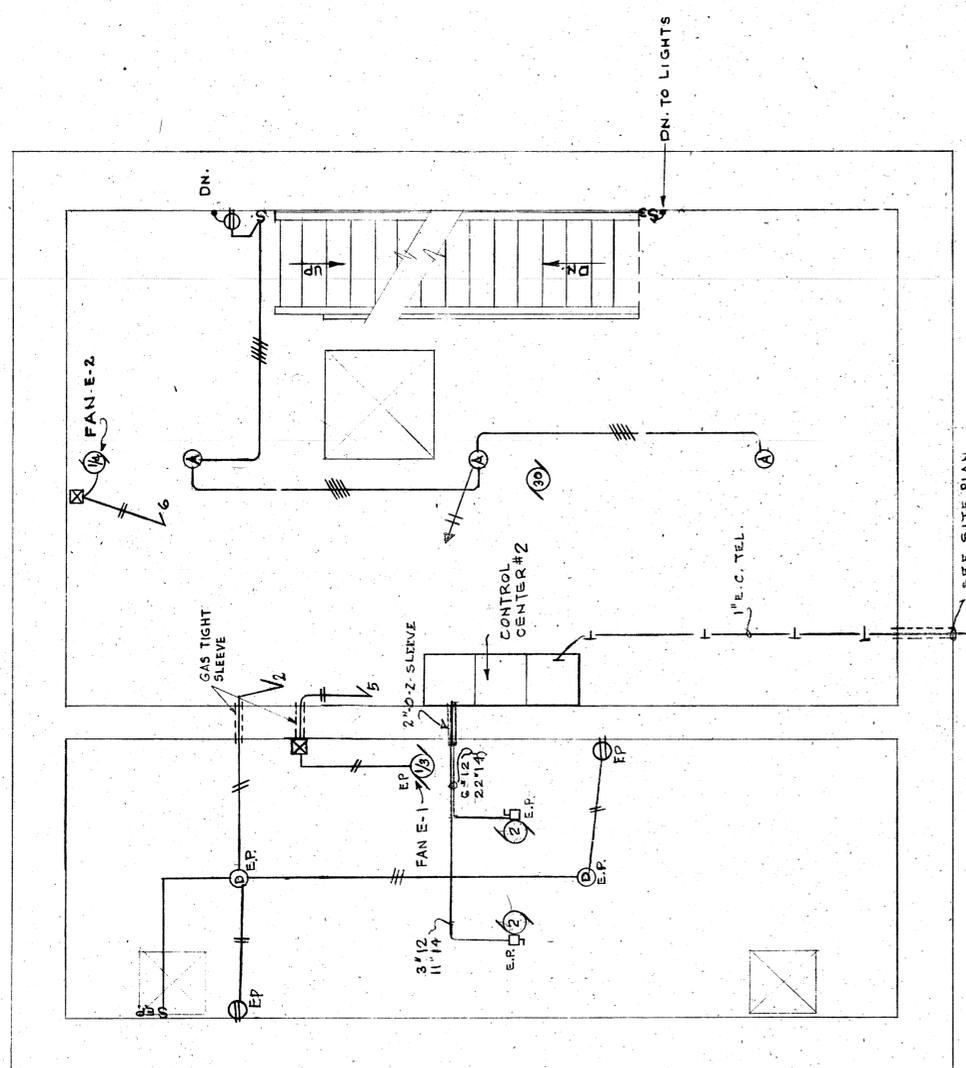
FEBRUARY 1969  
SHEET E-9  
OF  
12 SHEETS

**SYMBOLS (E-10)**

- INCANDESCENT LTG. FIXTURE
- INCANDESCENT WALL BRACKET
- ⊙ JUNCTION BOX
- S SINGLE POLE SWITCH
- S<sub>3</sub> THREE-WAY SWITCH
- ⊕ DUPLEX RECEPTACLE 20A. GROUND.
- ⊕ MOTOR NUMERAL DENOTES HORSEPOWER
- ⊕ DISCONNECT SWITCH
- ⊕ COMBINATION STARTER
- ⊕ DAMPER MOTOR
- HOME RUN TO MOTOR CONTROL CENTER
- HOME RUN TO LTG. PNL.
- ⊕ TICKS DENOTE NO. OF CKTS.
- ⊕ INDICATE WIRES WHEN MORE THAN TWO.
- EP EXPLOSION PROOF
- WP WEATHER PROOF



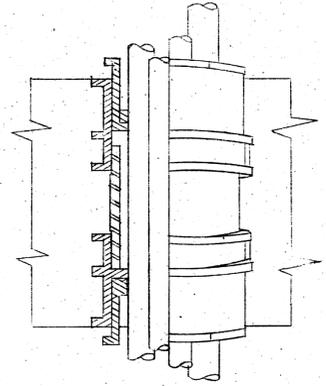
**BASEMENT FLOOR**  
3/8" = 1'-0"



**MIDDLE FLOOR**  
3/8" = 1'-0"

**LIGHTING FIXTURE SCHEDULE**

TYPE	CAT. NUMBER & MFR.	WATTS
A	MILLER #AE-3011	150W
B	PASS & SEYMOUR PORCELAIN BRKT. 100W	100W
C	MC-PHILBEN 43-40VT W/GUARD 100W	100W
D	RUSSELL & STOLL-CLG.-EXPL. PROOF 150W	150W



**RECORD PLAN**

DESIGNED	DRAWN	TRACED	CHECKED	NO.	LOCATION	DATE	BY
M.F.D.	V.V.	F.G.	M.F.D.				
				AS BUILT ADDITIONS			
COUNTY OF WESTCHESTER DEPARTMENT OF PUBLIC WORKS DIVISION OF SEWERS CONTRACT NO. 1460E - ELECTRICAL WORK APPURTENANT TO THE CONSTRUCTION OF THE SPRAIN PUMPING STATION FOR THE BRONX VALLEY SANITARY SEWER DISTRICT LOCATED IN THE TOWN OF GREENBURGH WESTCHESTER COUNTY, NEW YORK							
EDWARD DELEHANTY, COMMISSIONER BY: <i>Anthony J. Dimartino</i> DEPUTY COMMISSIONER							
ANTHONY J. DIMARTINO, P.E. Consulting Engineer 420 Livingston Avenue New York, N. Y. 10017							
FEBRUARY 1969 SHEET <b>E-10</b> OF <b>12</b> SHEETS							

**SYMBOLS**

SOIL WASTE DRAIN
COLD WATER
HOT WATER
PNEUMATIC WATER
COMPRESSED AIR
VALVE
CHECK VALVE
UNION
THERMOSTAT

**ABBREVIATIONS**

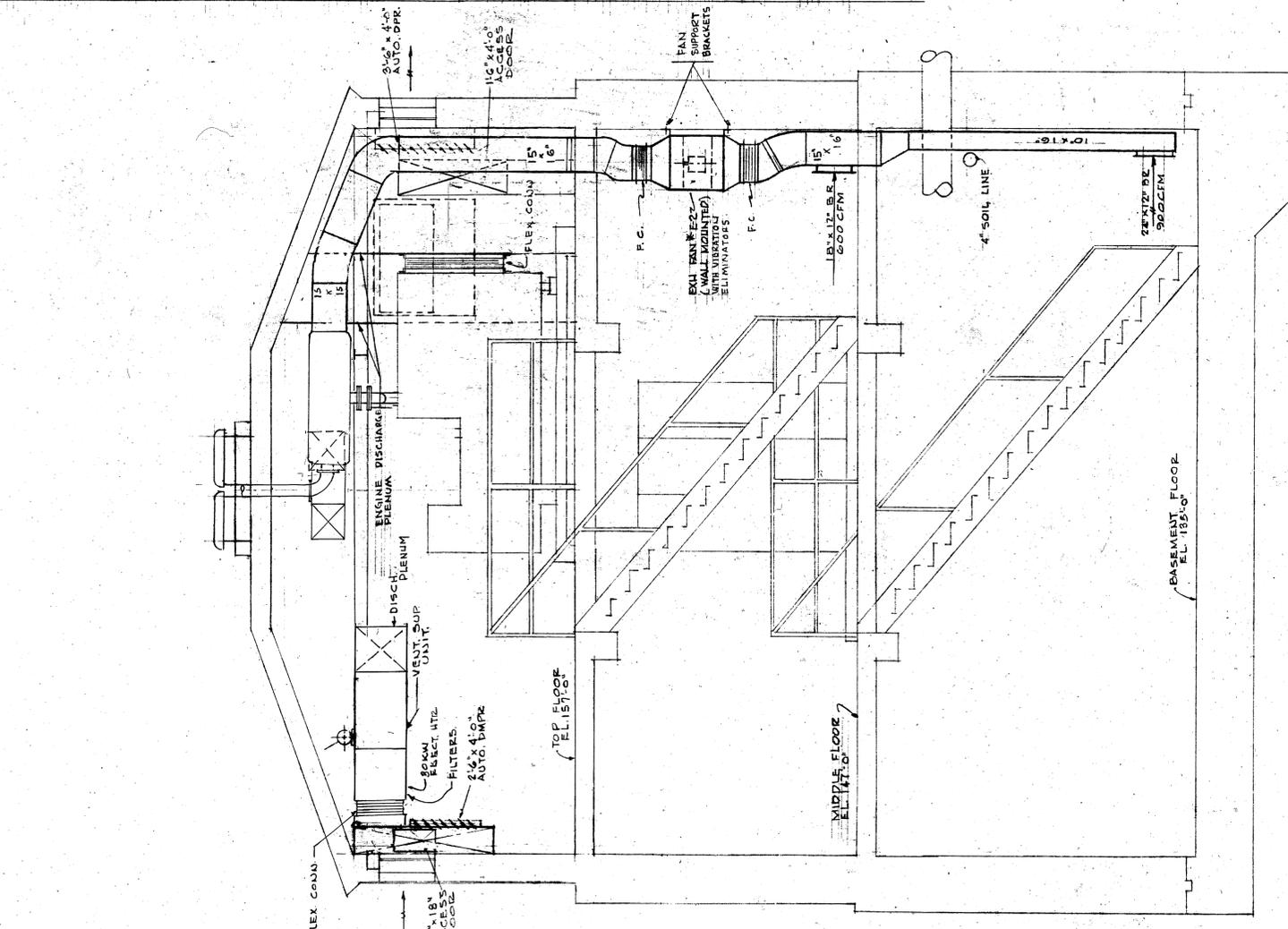
S	SOIL
V	WASTE
W	VENT
GW	COLD WATER
HW	HOT WATER
PC	PLUMBING
DN	DOWN
CO	CLEAN OUT
INV.	INVERT
EL.	ELEVATION
CH	CHEMICAL
COMP	COMPRESSED
MIN	MINIMUM
W.C.	WATER CLOSET
LAV.	LAVATORY
P.C.	POSSIBLE CONNECTION
B.R.	BOTTOM REGISTER

**FIXTURE CONNECTIONS**

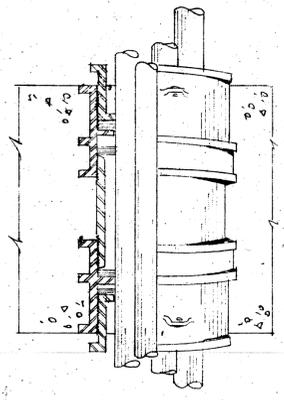
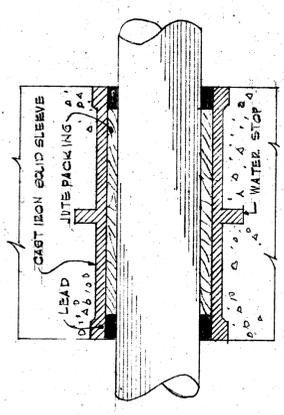
FIXTURE	MIN. CONN. SIZE
WATER CLOSET	4"
LAVATORY	1 1/2"

**NOTES:**

- CONNECT TO RAIN SEWAGE PUMPS AND INSTALL SOLENOID VALVE, FLOW RATE INDICATOR & NEEDLE VALVE AS INDICATED IN PNEUMATIC WATER SCHEMATIC.
- CONNECT TO FLOW METER & TRANSMITTER & INSTALL CHECK VALVES, NEEDLE VALVES, STRAINERS & UNIONS AS INDICATED IN FLOW METER FLUGH. CHECK SCHEMATIC ON SHEET 112-C.



**TOP FLOOR**  
SCALE 3/8" = 1'-0"



**SECTION A-A**  
SCALE 3/8" = 1'-0"

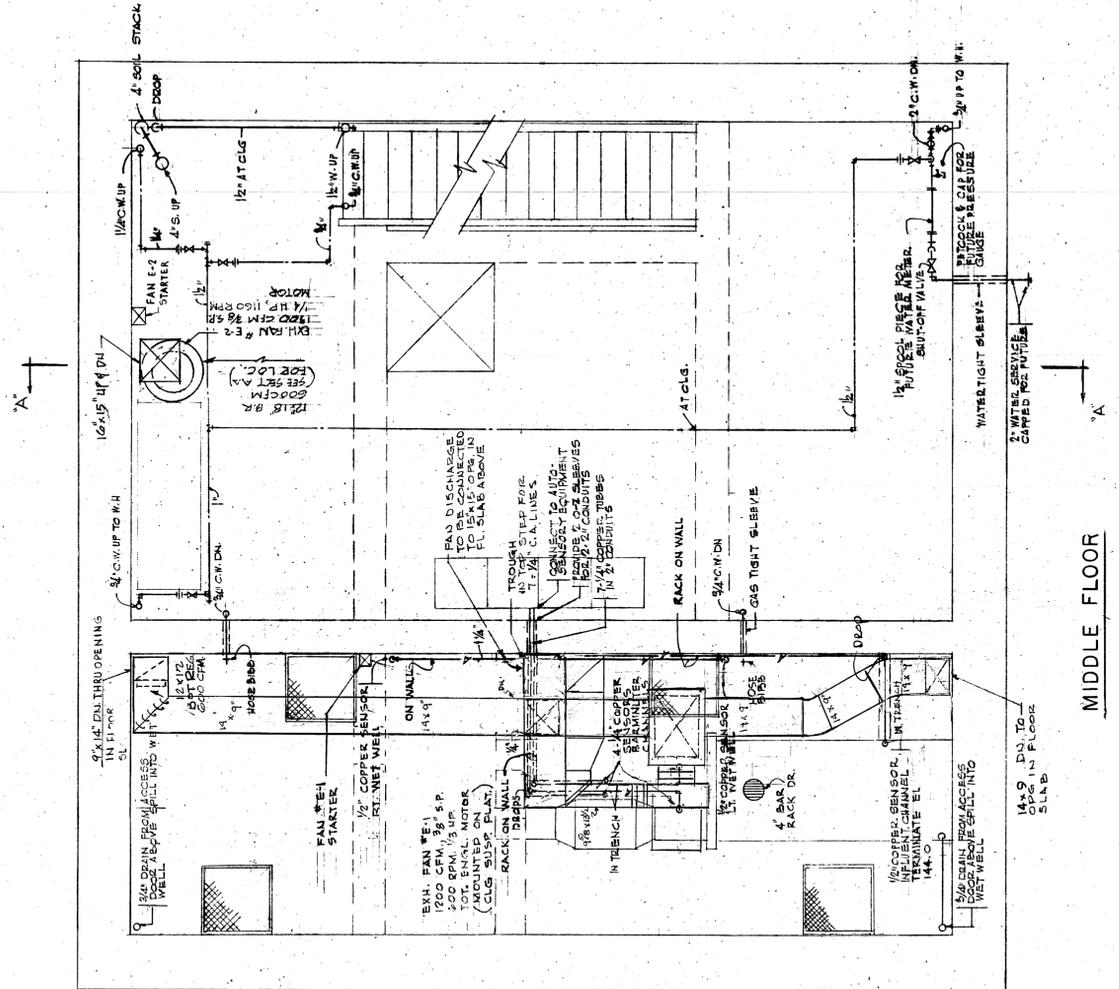
**RECORD PLAN**

DESIGNED	E.S.O.	ANTHONY J. DIMARTINO, P.E. Consulting Engineer 420 Lexington Avenue New York, N. Y. 10017	NO.	AS BUILT ADDITIONS	NO.	DATE	BY	CKD.
DRAWN	W.F.L.		LOCATION	SPRAIN PUMPING STATION	DATE	BY	CKD.	
TRACED	F.G.		NO.		NO.	DATE	BY	CKD.
CHECKED	A.J.D.		REVISIONS					

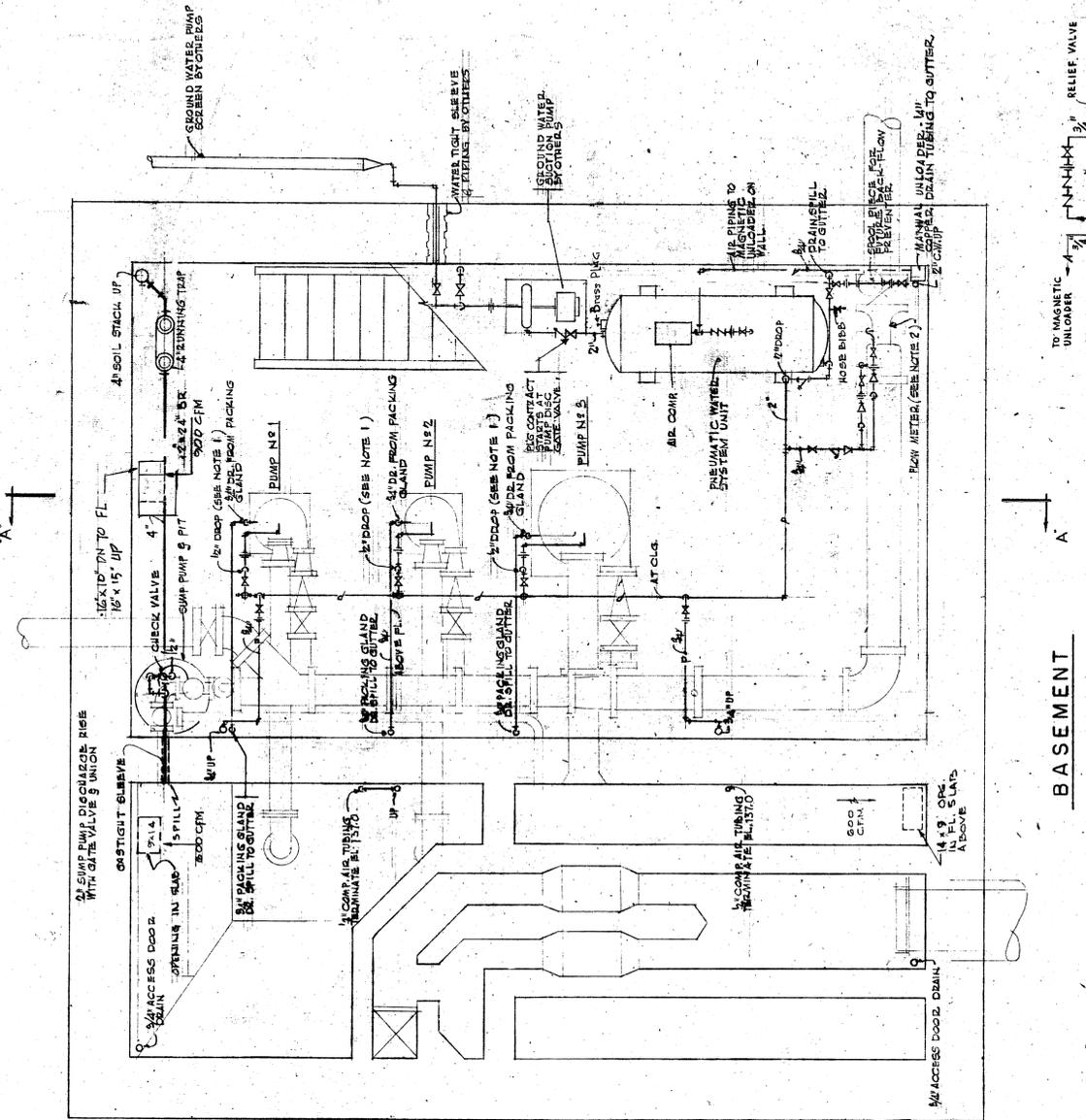
COUNTY OF WESTCHESTER  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF SEWERS  
 EDWARD J. BELCHANTY, COMMISSIONER  
 BY: GUY A. GRIFFIN, DEPUTY COMMISSIONER

CONTRACT NO. 1460H-HTG-B VENT. WORK APPURTENANT  
 CONTRACT NO. 1460P-PLUMBING WORK APPURTENANT  
 TO THE CONSTRUCTION OF THE  
 SPRAIN PUMPING STATION  
 FOR THE  
 BRONX VALLEY SANITARY SEWER DISTRICT  
 LOCATED IN THE TOWN OF GREENBURGH  
 WESTCHESTER COUNTY, NEW YORK

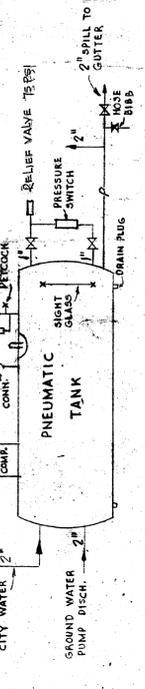
FEBRUARY 1969,  
 SHEET HVP-11  
 OF  
 12 SHEETS



MIDDLE FLOOR  
SCALE 3/8" = 1'-0"



BASEMENT  
SCALE 3/8" = 1'-0"



SCHEMATIC—PNEUMATIC SYSTEM

# RECORD PLAN

DESIGNED E.S.G. DRAWN J.T.W. TRACED F.G. CHECKED A.J.D.	ANTHONY J. DIMARTINO, P.E. Consulting Engineer 140 West 11th St. New York, N.Y. 10017	COUNTY OF WESTCHESTER DEPARTMENT OF PUBLIC WORKS DIVISION OF SEWERS  EDWARD DELEHANTY, COMMISSIONER BY: GUY A. GRIFFIN, DEPUTY COMMISSIONER	CONTRACT NO. 1460H - HIG. & VENT. WORK APPURTENANT CONTRACT NO. 1460H - PLUMBING WORK APPURTENANT TO THE CONSTRUCTION OF THE SPRAY PUMPING STATION FOR THE BRONX VALLEY SANITARY SEWER DISTRICT LOCATED IN THE TOWN OF GREENBURGH WESTCHESTER COUNTY, NEW YORK	MIDDLE & BASEMENT FLOOR PLANS	FEBRUARY 1969 SHEET HVP-12 OF 12 SHEETS
AS BUILT NO. LOCATION DATE BY 1 AS BUILT 12/5/68 J.F.		REVISIONS NO. LOCATION DATE BY CKD.			

# WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING

## PUMP STATION REHABILITATION PROGRAM

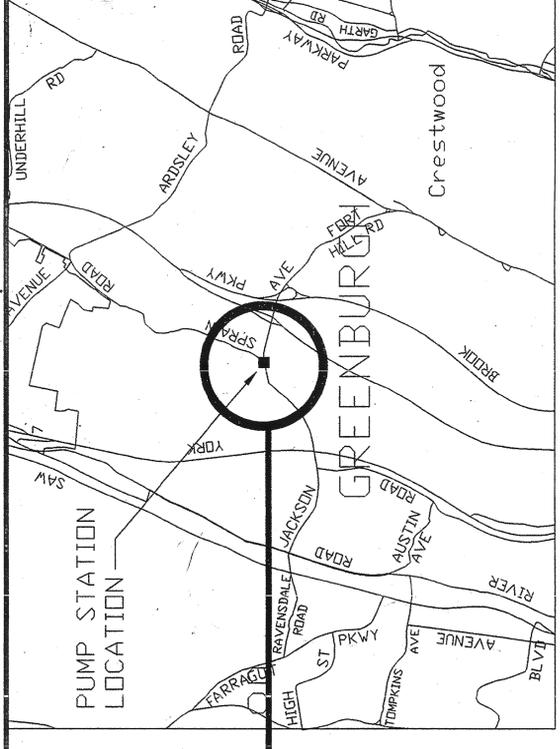
### SPRAIN PUMP STATION GREENBURGH, NEW YORK

CONTRACT NO. 96-572-GC, HV, E  
PROJECT NO. 96-572

LIST OF DRAWINGS

DEW. DRAWING NO.	SHEET NO.	TITLE
CONTRACT NO. 96-572-GC SPRAIN PUMP STATION		
202-01-T-1	T-1	TITLE SHEET
202-01-G-2	A-1	FLOOR PLANS, ELEVATIONS AND DETAILS
202-01-G-3	M-1	SITE PLAN AND LEGEND
202-01-G-4	M-2	PART SITE PLAN - TEMPORARY PIPING PLAN
202-01-G-5	M-3	BASEMENT & MIDDLE FLOOR PLAN - DEMOLITION
202-01-G-6	M-4	SECTIONS - DEMOLITION
202-01-G-7	M-5	BASEMENT & MIDDLE FLOOR PLAN
202-01-G-8	M-6	TOP FLOOR PLAN AND DETAIL
202-01-G-9	M-7	SECTIONS
202-01-G-10	M-8	HANDHOLE DETAILS AND BUDDLER DETAIL
CONTRACT NO. 96-572-HV SPRAIN PUMP STATION		
202-01-HV-11	H-1	BASEMENT & MIDDLE FLOOR PLAN - DEMOLITION
202-01-HV-12	H-2	TOP FLOOR PLAN - DEMOLITION
202-01-HV-13	H-3	SECTIONS - DEMOLITION
202-01-HV-14	H-4	BASEMENT & MIDDLE FLOOR PLAN
202-01-HV-15	H-5	TOP FLOOR PLAN
202-01-HV-16	H-6	SECTION AND SCHEDULES
CONTRACT NO. 96-572-E SPRAIN PUMP STATION		
202-01-E-17	E-1	SITE PLAN, LEGEND AND ELEVATION
202-01-E-18	E-2	BASEMENT AND MIDDLE FLOOR PLANS - DEMOLITION AND PHASING SCHEDULE
202-01-E-19	E-3	MAIN FLOOR PLAN - DEMOLITION
202-01-E-20	E-4	BASEMENT AND MIDDLE FLOOR PLANS - POWER
202-01-E-21	E-5	MAIN FLOOR PLAN - POWER
202-01-E-22	E-6	BASEMENT AND MIDDLE FLOOR PLANS - LIGHTING, FIXTURE SCHEDULE AND LIGHTING SINGLE LINE DIAGRAM
202-01-E-23	E-7	MAIN FLOOR PLAN - LIGHTING AND DETAIL
202-01-E-24	E-8	POWER SINGLE LINE DIAGRAM AND PANEL SCHEDULE
202-01-E-25	E-9	SINGLE LINE DIAGRAMS AND DETAIL

SITE LOCATION



SPRAIN PUMP STATION  
LOCATION MAP

**LYNCH  
ENGINEERING, P.C.**  
440 MANVILLE ROAD  
PLASANTVILLE, NY 10690

DRAWING NO. **T-1**

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

NUMBER	DATE	BY	REVISION

**RECORD DRAWING CERTIFICATION**

AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

CONTRACTOR: \_\_\_\_\_ PROJECT COORDINATOR: \_\_\_\_\_  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ TITLE: \_\_\_\_\_  
DATE: \_\_\_\_\_

PROJECT: 96-572  
NUMBER: 96-572  
CONTRACT: 96-572  
NUMBER: 96-572  
SHEET NO. 1 OF 25  
SCALE: NO SCALE  
DATE: 5/9/97  
DRAWING NO. 202-02-T-1  
REV. 0

WESTCHESTER COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF ENGINEERING  
TITLE SHEET

PUMP STATION REHABILITATION PROGRAM  
SPRAIN PUMP STATION  
GREENBURGH, NEW YORK

APPROVED FOR CONSTRUCTION: *Anthony M. Landi* 6/19/97  
ANTHONY M. LANDI, P.E.  
COMMISSIONER  
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR CONSTRUCTION: *Anthony P. Trelevicz* 6/19/97  
ANTHONY P. TRELEVICZ, P.E.  
COMMISSIONER  
DEPARTMENT OF ENVIRONMENTAL FACILITIES

RECOMMENDED FOR CONSTRUCTION: *Ralph L. Butler* 6/19/97  
RALPH L. BUTLER, P.E.  
FIRST DEPUTY COMMISSIONER  
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED FOR CONSTRUCTION: *Hugh J. Greechan* 6/19/97  
HUGH J. GREECHAN, P.E.  
DIRECTOR-DESIGN COORDINATION  
DEPARTMENT OF PUBLIC WORKS

IN CHARGE OF: DAB/J'OC  
MADE BY: LMS/CC/REF/DJ  
CHECKED BY: LE



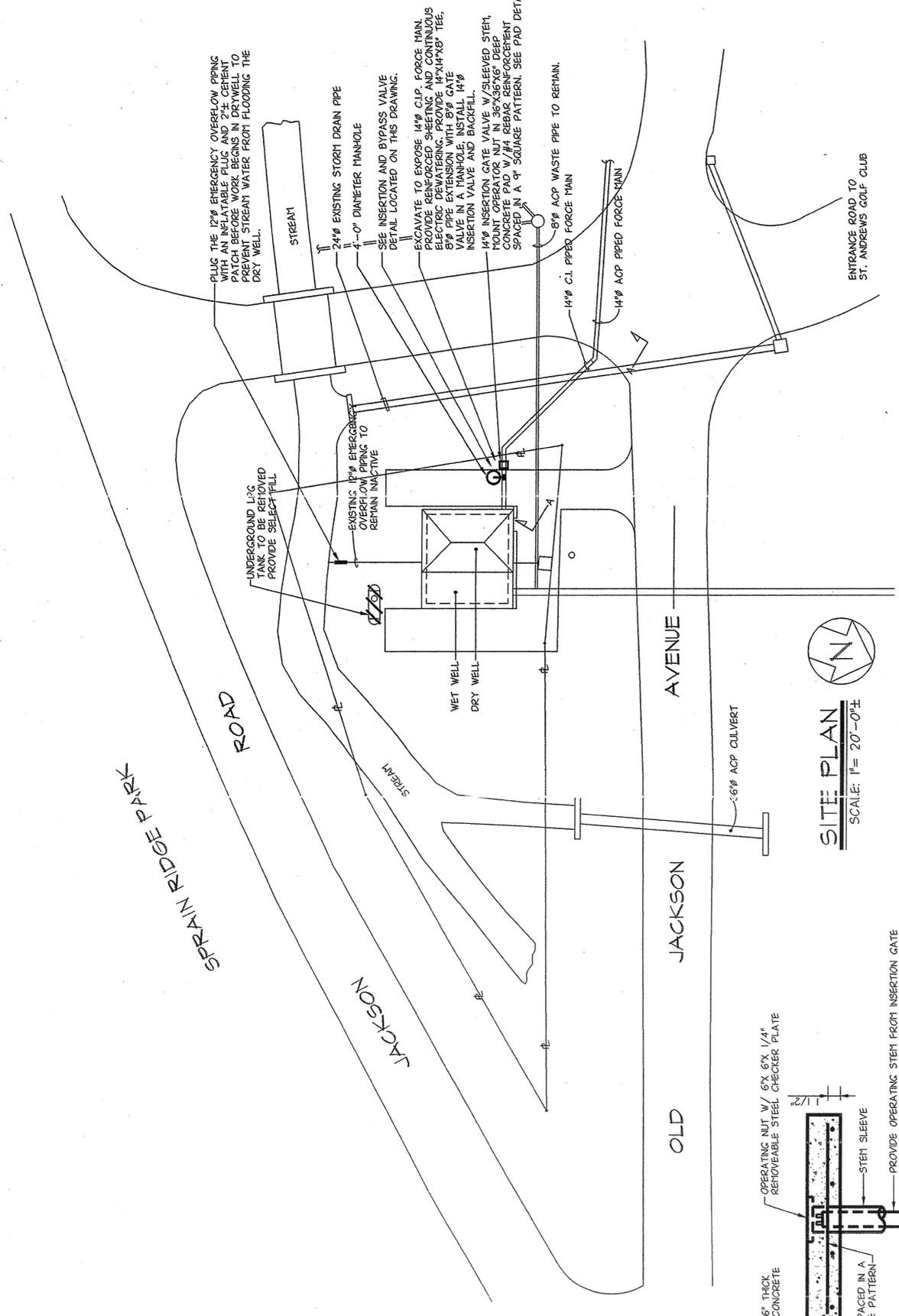
LEGEND	
SYMBOL	DESCRIPTION
—	EXISTING
—	NEW WORK
#####	EXISTING WORK TO BE REMOVED
	GATE VALVE
	CHECK VALVE
	REDUCER
	90° ELBOW
	45° ELBOW
	PIPE SPACER
	DENOTES SECTION I ON DWG. M-2
	DENOTES CONNECT NEW TO EXISTING
AFF	ABOVE FINISHED FLOOR
ACP	ASBESTOS PIPE
C.I.P.	CAST IRON PIPE
— — —	WELL WATER PIPING
— D —	DRAIN PIPING
	HOSE BIBB

NOTE: ALL WORK IS NEW UNLESS OTHERWISE NOTED.

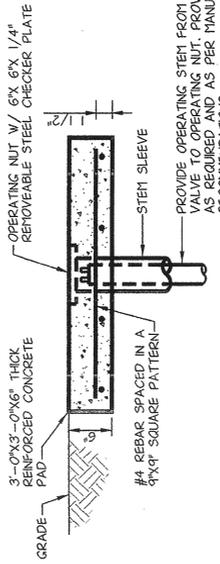
**GENERAL NOTES:**

1. LOCATE AND STAKE OUT UNDERGROUND UTILITIES PRIOR TO EXCAVATION (CODE 53).
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE ANY DAMAGED UTILITIES.
3. ACP WASTE PIPE TO REMAIN. DO NOT EXCAVATE THESE PIPES.
4. GENERAL CONTRACTOR TO HIRE SURVEYOR TO DEMARCATATE PROPERTY LINE.
5. GENERAL CONTRACTOR TO REPAIR, REGRADE AND SEED PROPERTY DAMAGED DURING THIS CONTRACT.
6. ALL EXCAVATION IS TO BE LIMITED BY THE PROPERTY LINE.
7. BACKFILL WITH CLEAN DRY BACKFILL MATERIAL.
8. ALL OPEN EXCAVATIONS TO BE PROPERLY FENCED AND BARRICADED.
9. ROADS AND ENTRANCE TO BE CLEAR OF ANY EQUIPMENT AND MAINTAINED AND CLEANED DAILY.
10. DUE TO HIGH WATER TABLE BACKFILL WITH DRY SUITABLE MATERIAL.
11. GENERAL CONTRACTOR TO DIG TEST PITS TO LOCATE EXISTING UTILITIES.
12. GENERAL CONTRACTOR SHALL PROVIDE ALL PENETRATIONS THROUGH SLAB FOR HV, CONTRACTOR, HV, CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND DIMENSIONS TO GENERAL CONTRACTOR.
13. NO SHUTDOWNS WILL BE PERMITTED ON A MONDAY OR FRIDAY.
14. ALL WORK WHICH EFFECTS THE OPERATION OF THE FACILITY SHALL BE PERFORMED BETWEEN TUESDAY THROUGH THURSDAY.
15. NO OVERTIME WILL BE PERMITTED UNLESS CONTRACTOR PAYS ENGINEERING CHARGES.

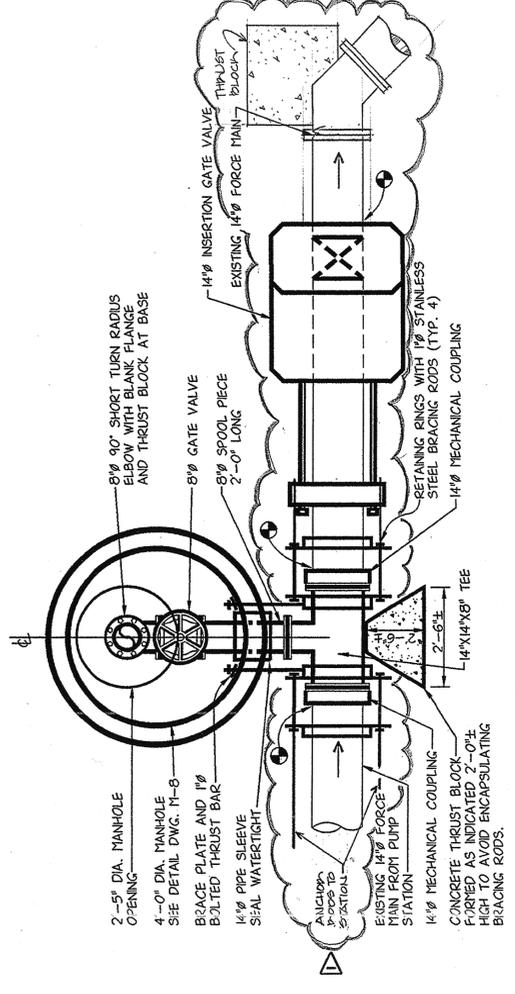
SEE PAD DETAIL THIS DWG.



**SITE PLAN**  
SCALE: 1" = 20'-0"

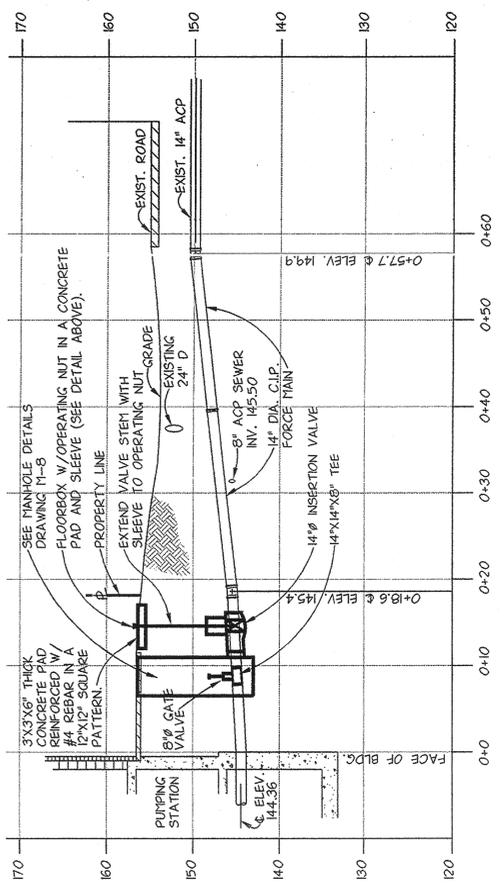


**PAD DETAIL**  
NO SCALE



**PART PLAN VIEW**

**INSERTION AND BYPASS VALVE DETAIL**  
SCALE: 1/2" = 1'-0"



**'A-A' PROFILE - 14" FORCE MAIN**  
SCALE: HORIZ. 1" = 10'  
VERT. 1" = 10'

**LYNCH ENGINEERING, P.C.**  
448 - 450 MANVILLE ROAD  
PLEASANTVILLE, NY 10570

INDUSTRIAL ENGINEERING

DRAWING NO. **M-1**  
9630

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

REVISION NUMBER	DATE	BY	APP'D	REVISION
1	01-27-99	LMS	DAB	A-S-BUILTS

RECORD DRAWING CERTIFICATION

AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

CONTRACTOR: \_\_\_\_\_  
NAME: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_  
TITLE: \_\_\_\_\_

PROJECT COORDINATOR: \_\_\_\_\_  
NAME: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_  
TITLE: \_\_\_\_\_

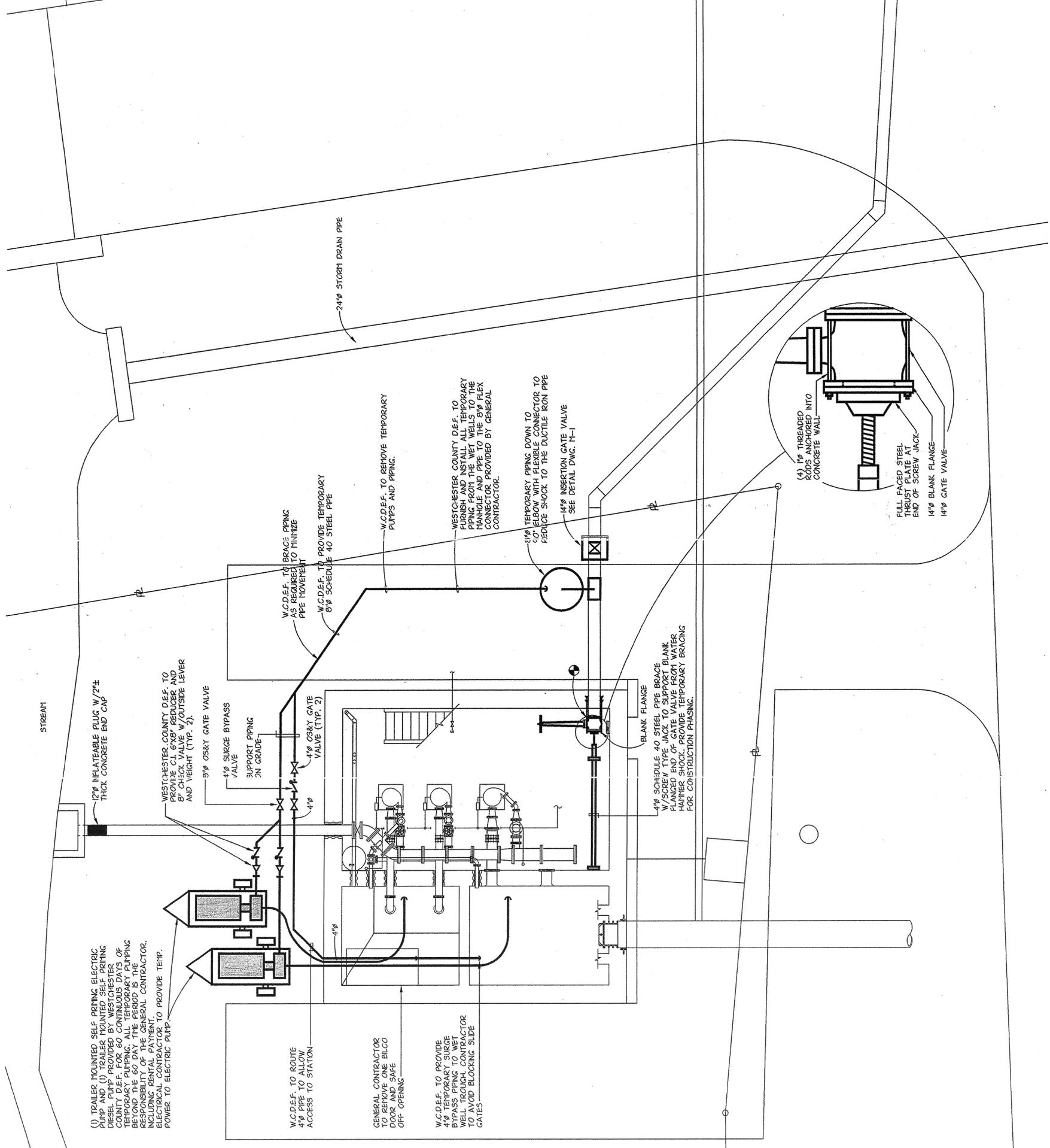
DATE: \_\_\_\_\_

PROJECT 96-572  
CONTRACT 96-572-0C  
SHEET NO. 3 OF 25  
SCALE: AS NOTED  
DATE: 05/09/97  
DRAWING NO. 9630

WESTCHESTER COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF ENGINEERING  
SITE PLAN AND LEGEND

PUMP STATION REHABILITATION PROGRAM  
SPRAIN PUMP STATION  
GREENBURGH, NEW YORK

IN CHARGE OF: DAB  
MADE BY: LMS  
CHECKED BY: L.E.



(1) TRAILER MOUNTED SELF PRIMING DIESEL PUMP PROVIDED BY WESTCHESTER COUNTY D.E.F. FOR 60 CONTINUOUS DAYS OF PUMPING. ALL ELECTRICAL WIRING BEYOND THE PUMPING RESPONSIBILITY OF THE GENERAL CONTRACTOR, INCLUDING RENTAL PAYMENT, ELECTRICAL CONTRACTOR TO PROVIDE TEMP. POWER TO ELECTRIC PUMP.

W.C.D.E.F. TO ROUTE 4" PIPE TO ALLOW ACCESS TO STATION

GENERAL CONTRACTOR TO REMOVE ONE BILCO OFF OPENING

W.C.D.E.F. TO PROVIDE 4" TEMPORARY SURGE BYPASS PIPING TO WET WELL THROUGH CONTRACTOR TO AVOID BLOCKING SLIDE GATES

WESTCHESTER COUNTY D.E.F. TO PROVIDE 2" OS&Y REDUCER AND 8" CHECK VALVE W/ OUTSIDE LEVER AND WEIGHT (TYP. 2).

4" SURGE BYPASS VALVE

SUPPORT PIPING 2" GRADE

4" OS&Y GATE VALVE (TYP. 2)

W.C.D.E.F. TO BRACE PIPING AS REQUIRED TO MINIMIZE PIPE MOVEMENT

W.C.D.E.F. TO PROVIDE TEMPORARY 8" SCHEDULE 40 STEEL PIPE

W.C.D.E.F. TO REMOVE TEMPORARY PUMPS AND PIPING.

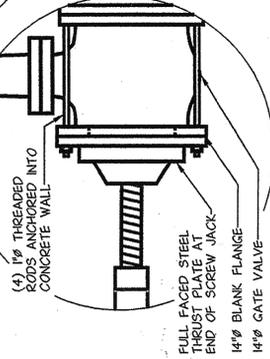
WESTCHESTER COUNTY D.E.F. TO FURNISH AND INSTALL ALL TEMPORARY PIPING FROM THE WET WELLS TO THE 4" GATE VALVE TO THE 8" FLEX CONNECTOR PROVIDED BY GENERAL CONTRACTOR.

6" W TEMPORARY PIPING DOWN TO CUT ELBOW WITH FLEXIBLE CONNECTOR TO REDUCE SHOCK TO THE DUCTILE IRON PIPE

14" INSERTION GATE VALVE SEE DETAIL DWG. H-1

BLANK FLANGE

4" SCHEDULE 40 STEEL PIPE BRACE W/ SCREW TYPE JACK TO SUPPORT BLANK FLANGED END OF GATE VALVE FROM WATER HAMMER SHOCK. PROVIDE TEMPORARY BRACING FOR CONSTRUCTION PHASING.



**PHASING OUTLINE:**

1. REFER TO SPECIFICATIONS FOR DETAILED PHASING SCHEDULE.
2. EXPOSE 14" DISCHARGE FORCE MAIN AND EXCAVATE FOR MANHOLE AND INSERTION GATE VALVE. PROVIDE CONTINUOUS DEWATERING FROM AN ELECTRIC DIAPHRAGM PUMP WITH A 100 FOOT POWER CABLE TO CONNECT TO POWER PANEL IN PUMP STATION.
3. PLUG THE 12" EMERGENCY OVERFLOW PIPE.
4. INSTALL INSERTION GATE VALVE.
5. INSTALL 14" FORCE MAIN DISCHARGE GATE VALVE AND TEMPORARY 14" DRESSER COUPLING IN PLACE OF EXISTING 14" GATE VALVE AND WET WELL. 14" DRESSER NOT SHOWN ON PHASING DRAWINGS.
6. WESTCHESTER COUNTY D.E.F. SHALL INSTALL TEMPORARY 8" AND 4" BYPASS PIPING AND VALVES AS INDICATED ON THIS DRAWING INTO NEW MANHOLE. DETAILED ON THIS DRAWING.
7. WESTCHESTER COUNTY D.E.F. TO INSTALL BYPASS SUBVERSIBLE PUMPS AND PIPING AS INDICATED ON THIS DWG.
8. WESTCHESTER COUNTY D.E.F. TO TEST BYPASS PUMPS BEFORE REMOVAL OF EXISTING PUMPS AND PIPING. PUMPS SHALL OPERATE OFF SELF CONTAINED ELECTRICAL CONTROLS AND SIZED TO MATCH NEW PUMP PARAMETERS AS SPECIFIED.
9. WITH THE BYPASS OPERATIONAL REMOVE THE 14" DRESSER PREVIOUSLY INSTALLED IN ITEM (5) FIVE ABOVE AND THE 14" FORCE MAIN LOCATED PARALLEL TO THE NORTH WALL. INSTALL A 4" STEEL PIPE BRACE WITH A SCREW JACK TO SUPPORT A BLANK FLANGED END OF THE 14" GATE VALVE. SEE DETAIL THIS DRAWING.
10. REMOVE ALL THE DISCHARGE PIPING AND PUMPS.
11. DURING OFF-HOURS AND LOW FLOW CONDITIONS REPLACE THE SUCTION GATE VALVES ONE AT A TIME. INCLUDE OVER THE IN BASE BID. PREPARE TIME TO BE INCLUDED IN BASE BID.
12. SURRENDER EXISTING PUMPS, MOTORS, BASES AND DRIVE SHAFT ASSEMBLIES TO WESTCHESTER COUNTY D.E.F. IN WORKING CONDITION.
13. INSTALL PUMPS, PIPING, VALVES, AND CONTROLS AS SPECIFIED AND AS DEPICTED ON DRAWINGS.
14. TEST NEW PUMPS AND CONTROLS FOR A MINIMUM OF (5) DAYS.
15. GENERAL CONTRACTOR SHALL REMOVE BYPASS PUMPS AND PIPING. SURRENDER PUMPS AND VALVES TO WESTCHESTER COUNTY D.E.F. IN GOOD WORKING CONDITION. GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY PUMP RENTAL CHARGES BEYOND 60 CONTINUOUS RENTAL DAYS.
16. INSTALL INFLUENT SLUDGE GATE VALVE DURING LOW FLOW CONDITIONS. ALL PREPARE TIME TO BE INCLUDED IN BASE BID.



**LYNCH ENGINEERING, P.C.**  
448 MANVILLE ROAD  
PLEASANTVILLE, NY 10970

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.  
DRAWING NO. **M-2**  
9630

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

**RECORD DRAWING CERTIFICATION**

AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

CONTRACTOR: \_\_\_\_\_ PROJECT COORDINATOR: \_\_\_\_\_  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

WESTCHESTER COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF ENGINEERING  
PART SITE PLAN - TEMPORARY PIPING PLAN  
SCALE: AS NOTED  
DATE: 05/09/97  
DRAWING NO. 202-02-G-4  
PROJECT NUMBER 96-572  
CONTRACT NUMBER 96-572-GC  
SHEET NO. 4 OF 25

**PART SITE PLAN - TEMPORARY PIPING PLAN**

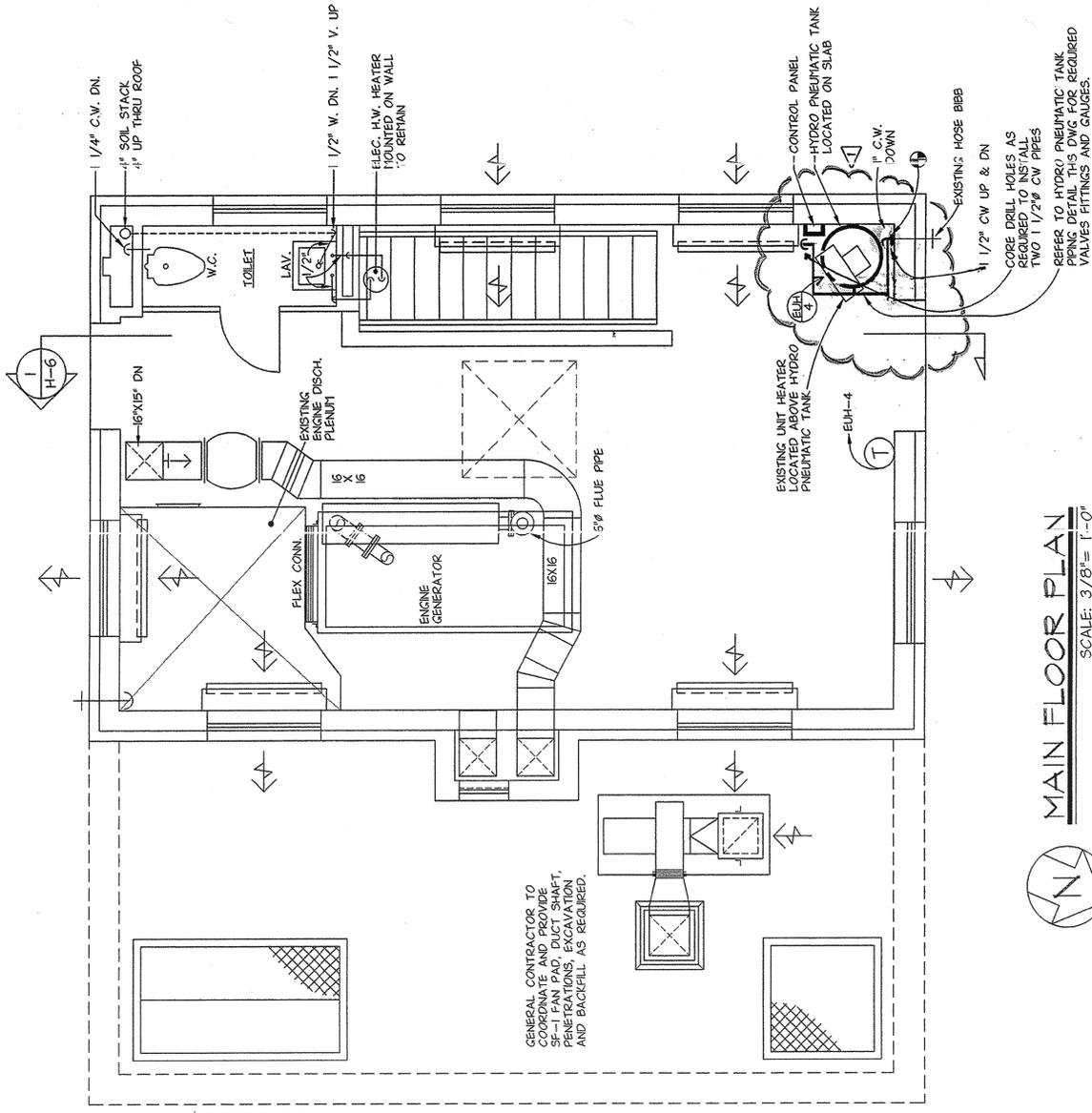
SCALE: 1" = 5'-0"

IN CHARGE OF: DAB  
MADE BY: LMS  
CHECKED BY: L.E.

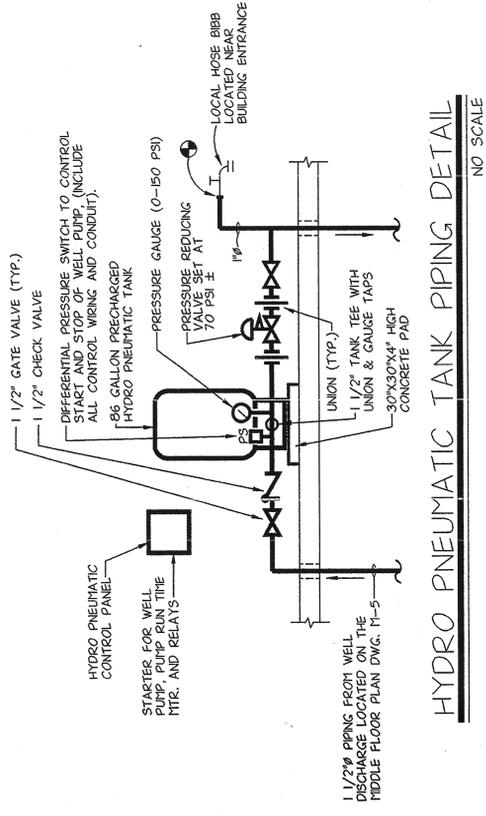








**MAIN FLOOR PLAN**  
SCALE: 3/8" = 1'-0"



**HYDRO PNEUMATIC TANK PIPING DETAIL**  
NO SCALE



**LYNCH ENGINEERING, P.C.**  
448 - 450 MANVILLE ROAD  
PLEASANTVILLE, NY 10570

NO ALTERATIONS PERMITTED HEREON EXCEPT AS  
NOTED UNDER REVISIONS OR SUBSECTION 2  
OF THE NEW YORK STATE EDUCATION LAW.  
DRAWING NO. **M-6**  
9630

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	01-27-99	LMS		AS-BUILTS

**RECORD DRAWING CERTIFICATION**

AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

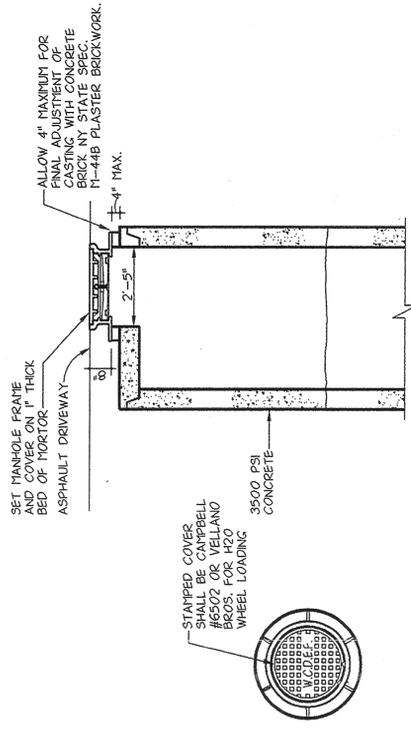
NAME \_\_\_\_\_ DATE \_\_\_\_\_ PROJECT COORDINATOR  
SIGNATURE \_\_\_\_\_ TITLE \_\_\_\_\_

PROJECT 96-572  
CONTRACT 96-572-GC  
SHEET NO. 8 OF 25  
SCALE: AS NOTED  
DATE: 05/09/97  
REV. NO. 0

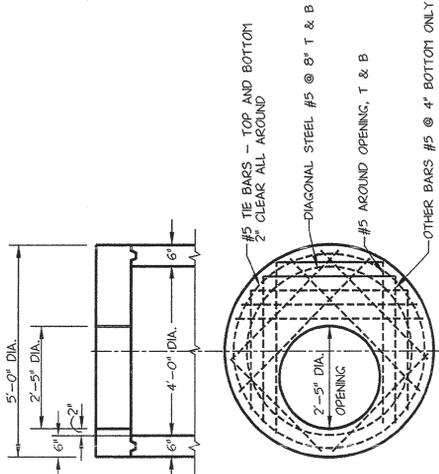
WESTCHESTER COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF ENGINEERING  
MAIN FLOOR PLAN AND DETAIL  
PUMP STATION REHABILITATION PROGRAM  
SPRAIN PUMP STATION  
GREENBURGH, NEW YORK

IN CHARGE OF DAB  
MADE BY LMS  
CHECKED BY L.E.

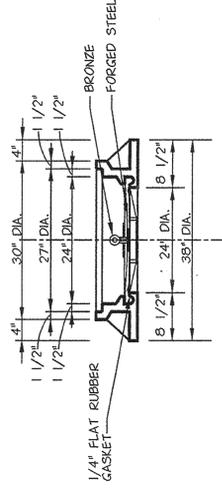




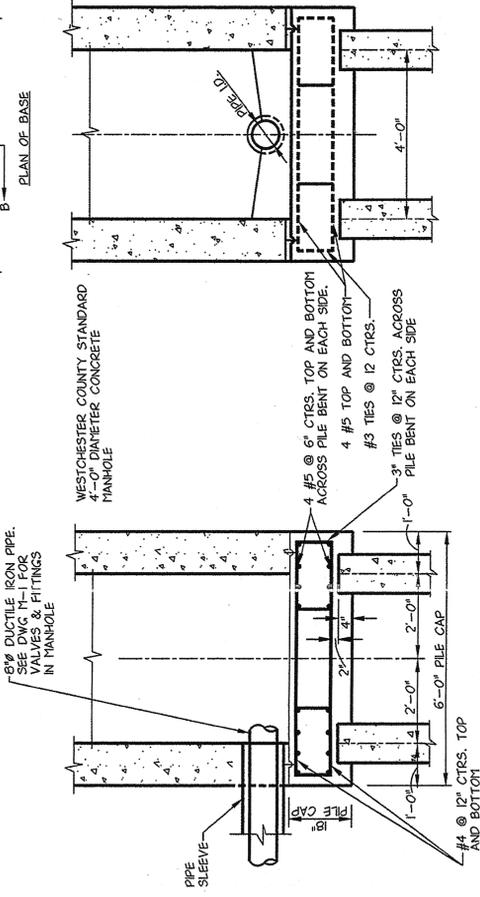
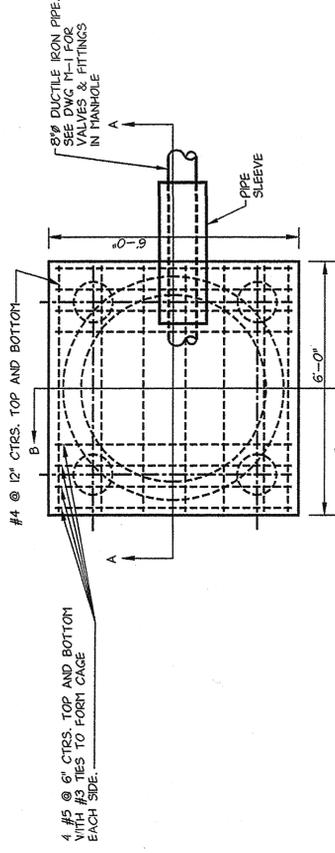
**DETAIL FOR MANHOLE RISER**  
NO SCALE



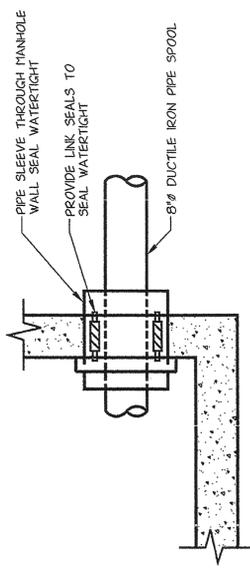
**POURED IN PLACE TOP SLAB FOR 4'-0\"/>**



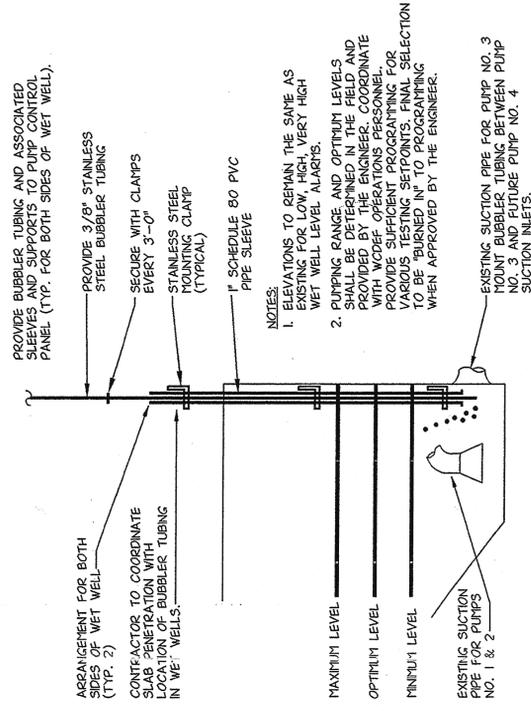
**WATER TIGHT FRAME AND INSIDE COVER - TYPE C**  
SCALE: 3/4"=1'-0"



**PILE FOUNDATION AT MANHOLES**  
SCALE: 1/2"=1'-0"



**MANHOLE WALL PENETRATION DETAIL**  
NO SCALE



**PUMP CONTROL BUBBLER DETAIL**  
NO SCALE



**LYNCH ENGINEERING, P.C.**  
448 - 450 MANVILLE ROAD  
PLEASANTVILLE, NY 10570

ALTERNATION PERMITTED HEREON EXCEPT AS NOTED OTHERWISE IN SECTION 2 OF THE NEW YORK STATE EDUCATION LAW.  
DRAWING NO. **M-8**  
9630

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

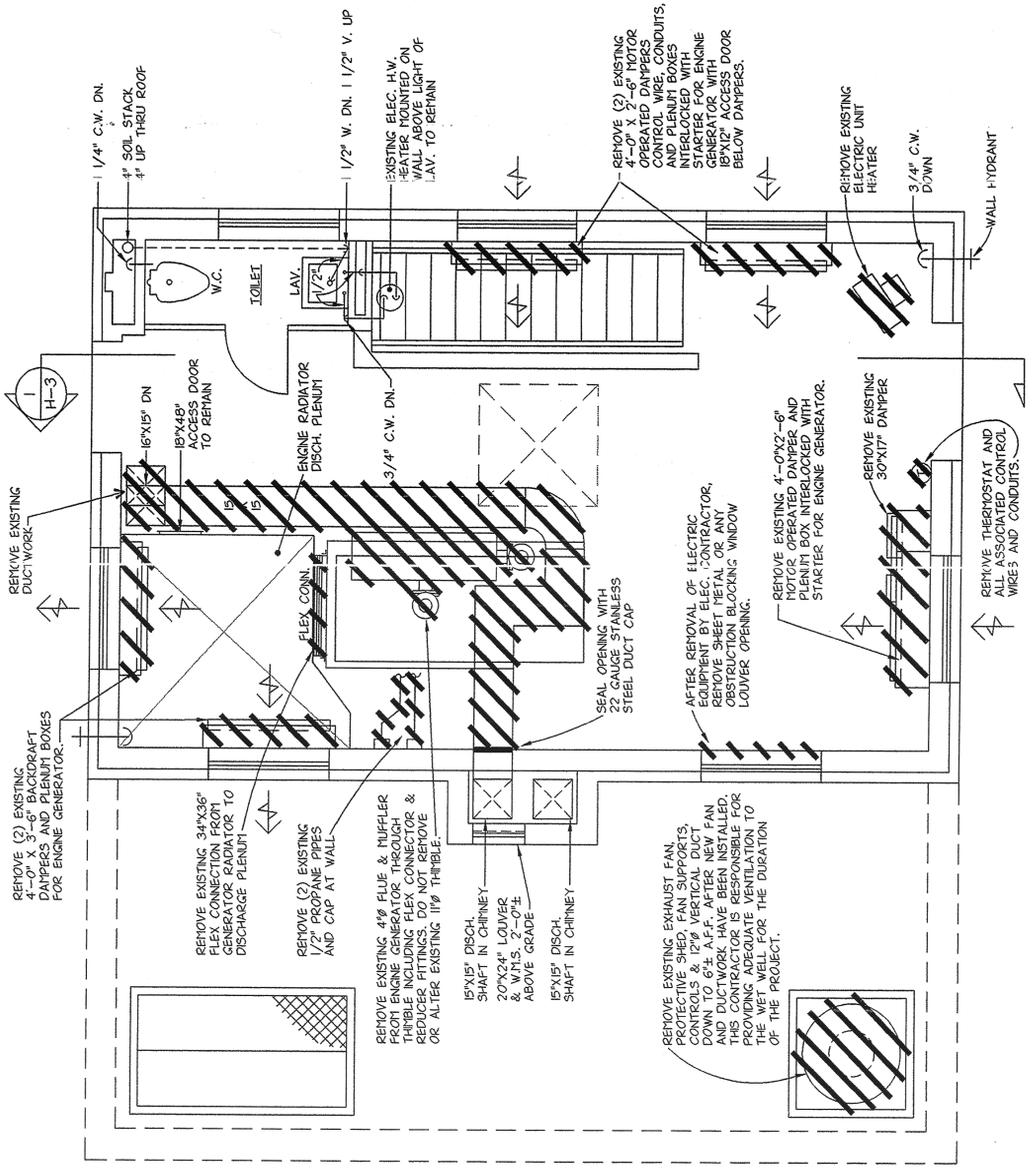
**RECORD DRAWING CERTIFICATION**

AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

CONTRACTOR	NAME	SIGNATURE	TITLE	DATE
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING MANHOLE AND BUBBLER DETAILS				
PROJECT COORDINATOR	NAME	SIGNATURE	TITLE	DATE
PROJECT	96-572			
CONTRACT NUMBER	96-572-GC			
SHEET NO.	10 OF 25			
SCALE	AS NOTED			
DATE	05/09/97			
DRAWING NO.	202-02-G-10			
REV. NO.	0			

IN CHARGE OF DAB  
MADE BY LMS  
CHECKED BY L.E.





**MAIN FLOOR PLAN - DEMOLITION**  
SCALE: 3/8" = 1'-0"



**LYNCH ENGINEERING, P.C.**  
448 - 450 MANVILLE ROAD  
PLEASANTVILLE, NY 10570

DRAWING NO. **H-2**  
9630

---

NO ALTERATION PERMITTED HEREON EXCEPT AS AUTHORIZED BY THE ENGINEER OR THE DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

---

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

---

**RECORD DRAWING CERTIFICATION**

AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

---

CONTRACTOR: James J. Bazzano, Inc.      PROJECT COORDINATOR: \_\_\_\_\_  
 NAME: \_\_\_\_\_      DATE: 10/13/92      SIGNATURE: \_\_\_\_\_      TITLE: \_\_\_\_\_

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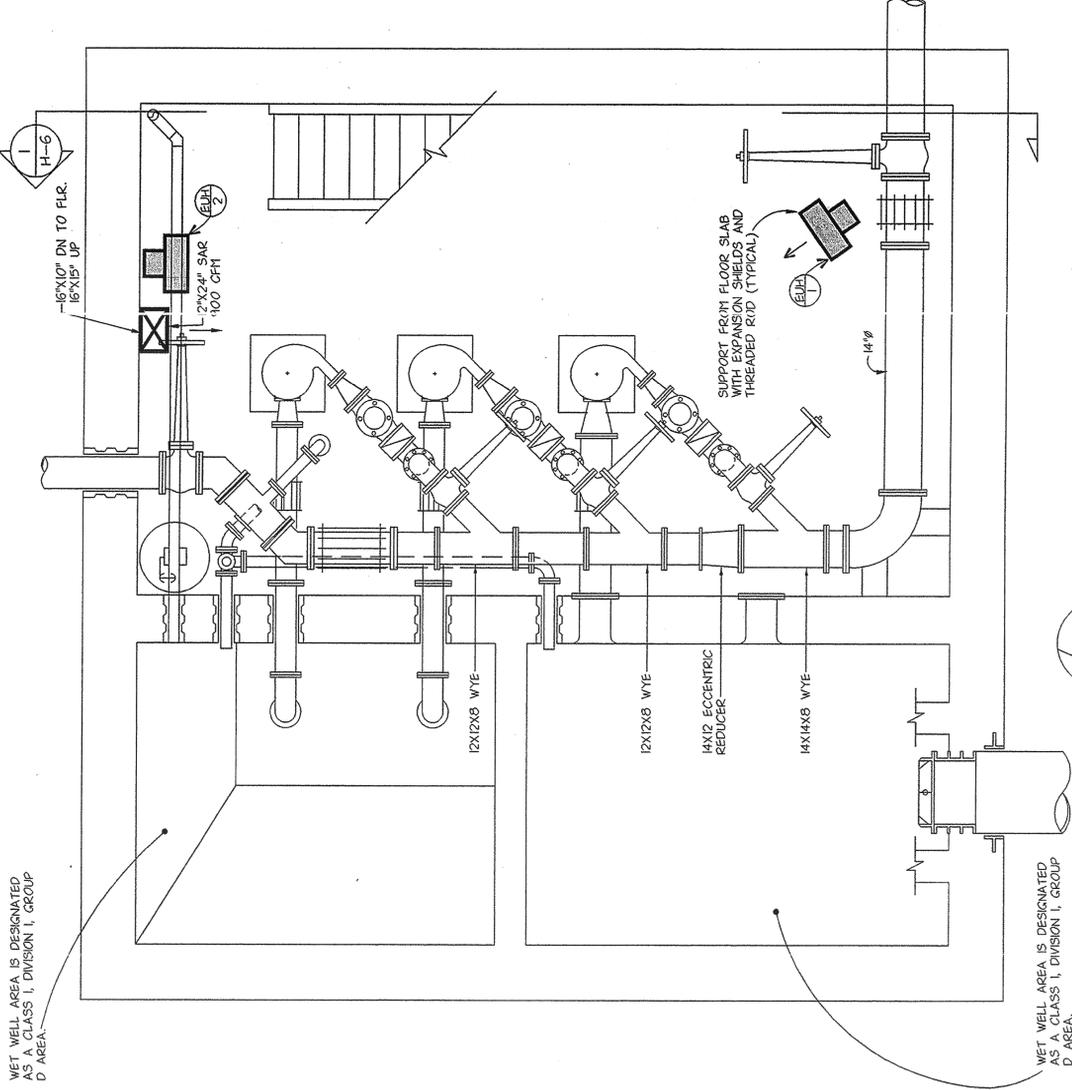
WESTCHESTER COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF ENGINEERING  
 MAIN FLOOR PLAN - DEMOLITION  
 PUMP STATION REHABILITATION PROGRAM  
 SPRAIN PUMP STATION  
 GREENBURGH, NEW YORK

---

PROJECT NUMBER: 96-572  
 DRAWING NUMBER: 96-572-HV  
 SHEET NO. 12 OF 25  
 SCALE: AS NOTED  
 DATE: 05/09/97  
 REV. NO. 0  
 202-02-HV-12 0

IN CHARGE OF: D.A.B.  
 MADE BY: L.M.S.  
 CHECKED BY: L.E.

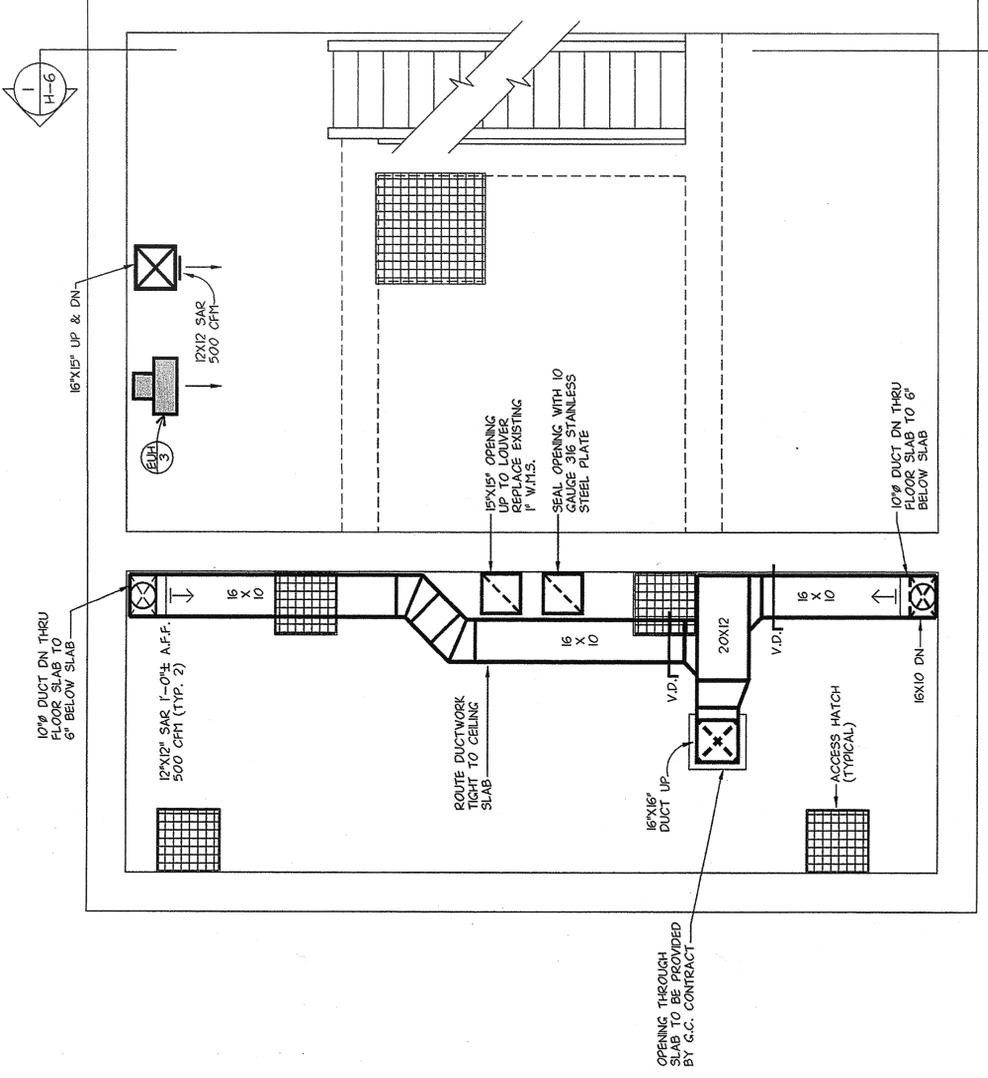




WET WELL AREA IS DESIGNATED AS A CLASS I, DIVISION I, GROUP D AREA.

WET WELL AREA IS DESIGNATED AS A CLASS I, DIVISION I, GROUP D AREA.

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



**MIDDLE FLOOR PLAN**  
SCALE: 3/8"=1'-0"

**GENERAL NOTE:**  
1. G.C. CONTRACTOR SHALL PROVIDE ALL PENETRATIONS THROUGH SLAB. THIS CONTRACTOR TO COORDINATE EXACT OPENING DIMENSIONS WITH G.C. CONTRACTOR.



**LYNCH ENGINEERING, P.C.**  
448 - 460 MANTVILLE ROAD  
PLEASANTVILLE, NY 10570

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.  
DRAWING NO. **H-4**  
9830

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

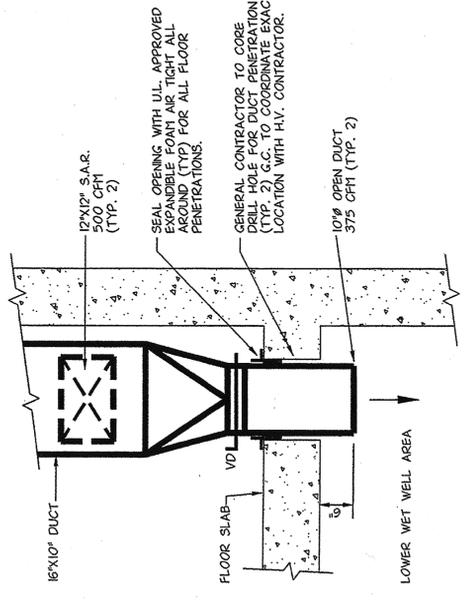
**RECORD DRAWING CERTIFICATION**

AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

CONTRACTOR: **TOPANJEBO AHD. PARSISBOH, INC.**  
NAME: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_  
TITLE: \_\_\_\_\_  
DATE: **10/19/18**  
PROJECT COORDINATOR: \_\_\_\_\_  
NAME: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_  
TITLE: \_\_\_\_\_  
DATE: \_\_\_\_\_

PROJECT NUMBER: **96-572**  
SUBPROJECT NUMBER: **0796-572-HV**  
SHEET NO. **14 OF 25**  
DATE: **05/09/17**  
SCALE: **AS NOTED**  
DRAWING NO.: **202-02-HV-14**  
REV. NO.: **0**

**WESTCHESTER COUNTY, NEW YORK**  
**DEPARTMENT OF PUBLIC WORKS**  
**DIVISION OF ENGINEERING**  
**BASEMENT & MIDDLE FLOOR PLAN**  
**PUMP STATION REHABILITATION PROGRAM**  
**SPRAIN PUMP STATION**  
**GREENBURGH, NEW YORK**



**TYPICAL WET WELL DUCT PENETRATION DETAIL**  
NO SCALE

IN CHARGE OF: **DAB**  
MADE BY: **LMS**  
CHECKED BY: **L.E.**



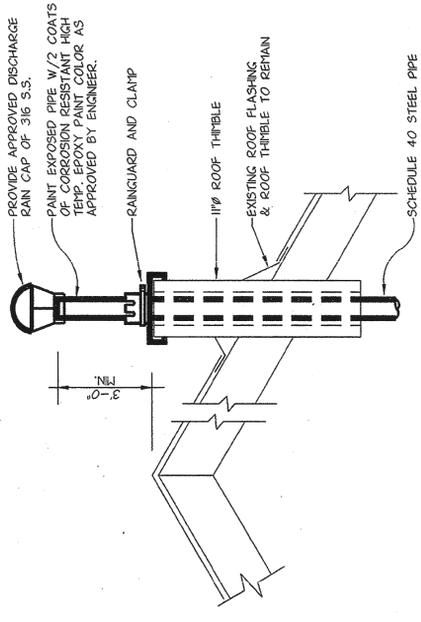
# FAN SCHEDULE

UNIT NO.	SERVICE	CFM	SP (W/G)	TIP SPEED	RPM	BHP	MOTOR			ARRANGEMENT	TYPE	MFR. & MODEL NO.	REMARKS
							HP	PH	HZ				
SF-1	WET WELL	1750	1/2	-	1426	.35	1/2	208	3	60	UTILITY	COOK B5 CPV	-
SF-2	DRY WELL	1100	1/2	-	1580	.46	3/4	208	3	60	IN-LINE	COOK MCVB	-

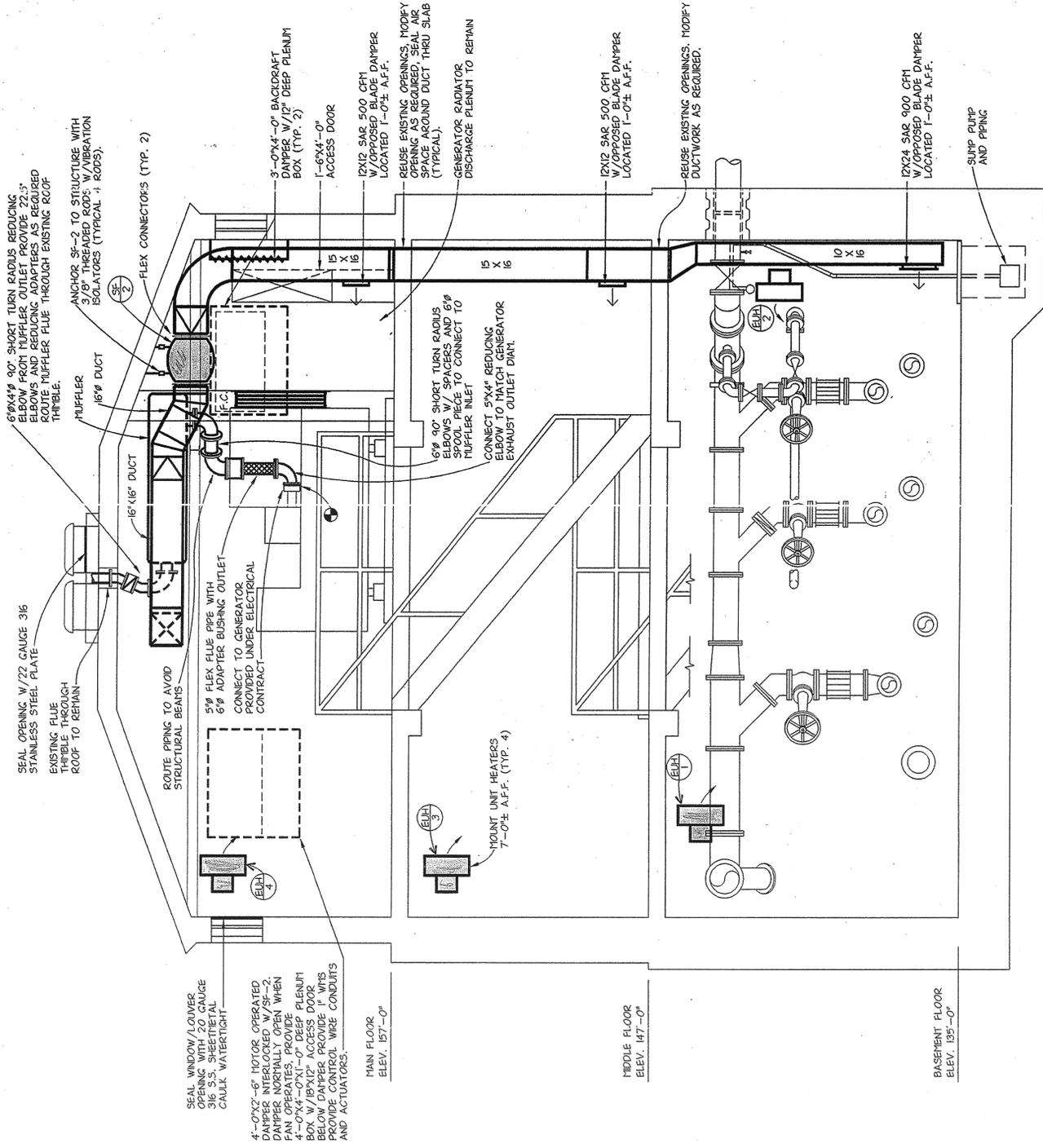
\* CORROSION RESISTANT MOTOR

# ELECTRIC UNIT HEATER SCHEDULE

UNIT NO.	AREA SERVED	CAPACITY (KW)	BTUH OUTPUT	FAN SECTION			ELECTRICAL DATA	MFR. & MODEL NO.
				CFM	RPM	EAT		
EUH-12	DRY WELL BASEMENT LEVEL	7.5	25,600	530	1550	50	208V-3Ø-60 HZ	MOORE HE-75
EUH-3	DRY WELL MIDDLE FLOOR	7.5	25,600	530	1550	50	208V-3Ø-60 HZ	MOORE HE-75
EUH-4	DRY WELL TOP FLOOR	7.5	25,600	530	1550	50	208V-3Ø-60 HZ	MOORE HE-75



FLUE DETAIL  
NO SCALE



SECTION  
H-4 H-5  
SCALE: 3/8" = 1'-0"



NO ALTERATION PERMITTED HEREON EXCEPT AS INDICATED BY A CORRECTED REVISION 2 OF THE NEW YORK STATE EDUCATION LAW.  
DRAWING NO. H-6  
9830

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

PROJECT COORDINATOR  
NAME: \_\_\_\_\_ DATE: 10/19/98  
SIGNATURE: \_\_\_\_\_ TITLE: \_\_\_\_\_  
CONTRACTOR: WESTCHESTER COUNTY, NEW YORK  
DIVISION OF PUBLIC WORKS  
SCALE: AS NOTED  
DATE: 05/09/97  
DRAWING NO.: 202-02-HV-16  
REV. NO.: 0

IN CHARGE OF: DAB  
MADE BY: LMS  
CHECKED BY: L.E.

### LEGEND

SYMBOL	DESCRIPTION
—	NEW EQUIPMENT, DEVICE, CONDUIT, ETC.
---	EXISTING EQUIPMENT TO REMAIN
- - -	EXISTING EQUIPMENT TO BE REMOVED
2" x 4" x 4"	2" x 4" x 4" LIGHT FIXTURE QUANTITY WATTAGE
□	WALL MOUNTED EXTERIOR FIXTURE
S	SINGLE POLE SWITCH
S3	THREE WAY SWITCH
S4	MANUAL STARTER
⊕	120V. 1Ø 20A DUPLEX RECEPTACLE
⊕	208V. 1Ø 20A DUPLEX RECEPTACLE
⊕	LIGHTING PANEL
⊕	DISCONNECT SWITCH
⊕	COMBINATION STARTER
⊕	MOTOR STARTER
⊕	MOTOR— NUMBER INDICATES HORSEPOWER
⊕	METER
⊕	CURRENT TRANSFORMER AND METER PAN
⊕	REMOVE AND RELOCATE
⊕	EXISTING TO REMAIN
⊕	WIREWAY 2 #12, 1 #12 GND., 3/4" C UNLESS OTHERWISE NOTED
⊕	120V. CIRCUIT HORN/LIN
⊕	208V. 1 CIRCUIT HORN/LIN
⊕	WIREWAY— CROSSLINES INDICATE NUMBER OF CONDUCTORS WHERE MORE THAN TWO
⊕	SUCTION VALVE TAMPER SWITCH
⊕	JUNCTION BOX
⊕	L-2/C #12S1 ONE TWO CONDUCTOR TWISTED SHIELDED PAIR 16 GA.
GFR	GROUND FAULT RECEPTACLE
AFF	ABOVE FINISHED FLOOR
MLO	MAN LUGS ONLY
MCB	MAIN CIRCUIT BREAKER
⊕	EMERGENCY BATTERY PACK WITH HEADS
⊕	TELEPHONE OUTLET
⊕	STOPLOCK PUSHBUTTON
⊕	EMERGENCY LIGHTING RECYCOTE HEADS
XP	EXPLOSION PROOF
⊕	TRANSFORMER

DEMOLITION NOTES:  
 1-UNLESS OTHERWISE NOTED, ALL DEVICES, EQUIPMENT, ETC. SHALL BE DISCONNECTED AND REMOVED.  
 2-CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO VERIFY EXISTING CONDITIONS.

**LYNCH**  
**ENGINEERING, P.C.**  
 448 - 450 MANVILLE ROAD  
 PLEASANTVILLE, NY 10570



NO ALTERATION PERMITTED HEREON EXCEPT AS SHOWN ON SHEET NO. 2 OF THE NEW YORK STATE EDUCATION LAW.  
 DRAWING NO. **E-1**  
 9850

REVISION NUMBER	DATE	MADE BY	APPR'D BY	REVISION
Δ	05/13/99	DJ	JOC	AS BUILT

**RECORD DRAWING CERTIFICATION**

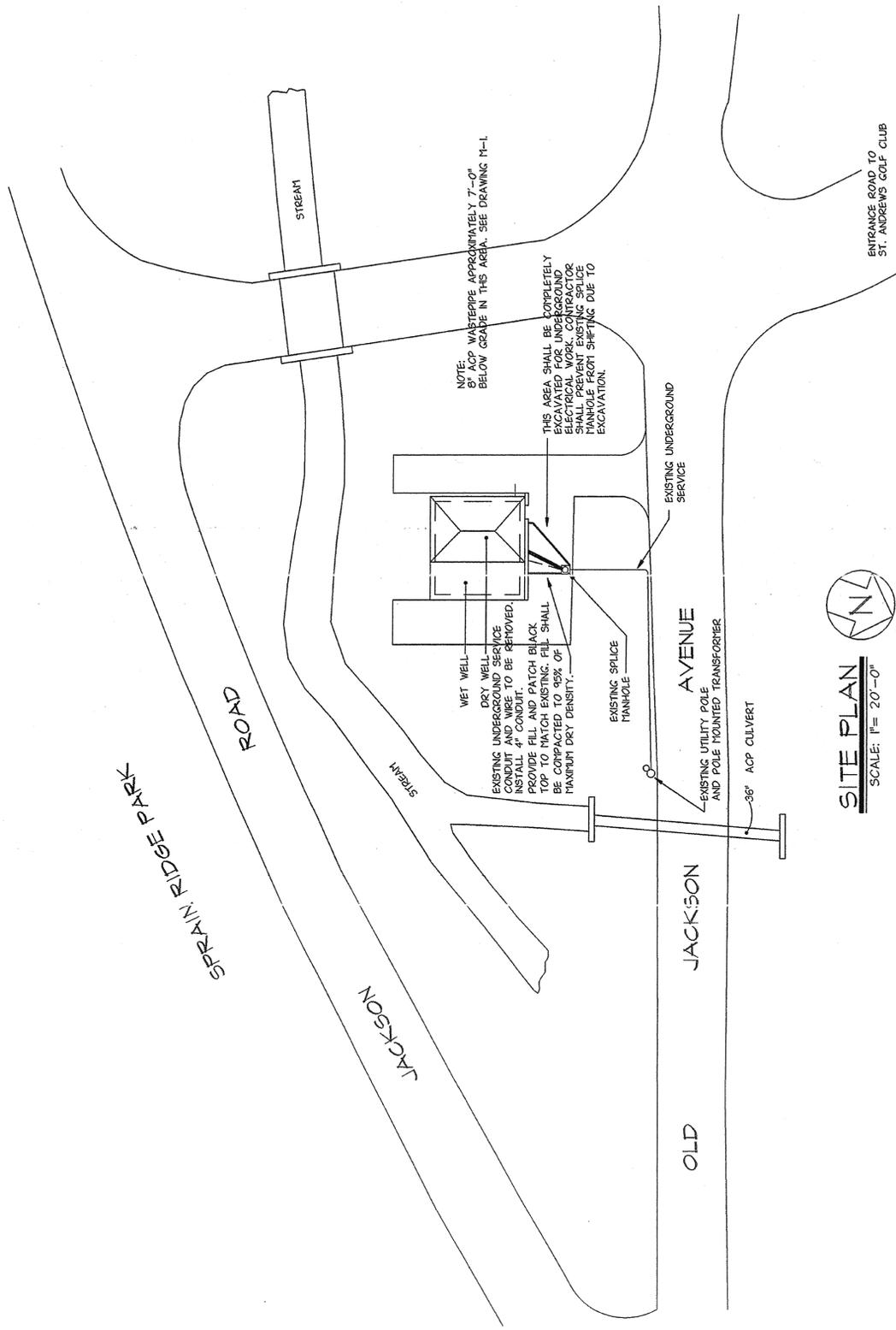
AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

CONTRACTOR: \_\_\_\_\_ PROJECT COORDINATOR: \_\_\_\_\_  
 NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 TITLE: \_\_\_\_\_

WESTCHESTER COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF ENGINEERING  
 SITE PLAN, LEGEND AND ELEVATION

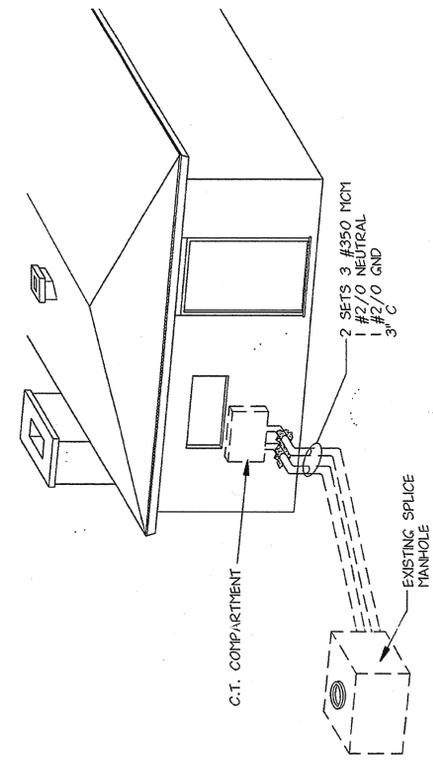
PUMP STATION REHABILITATION PROGRAM  
 ST. ANDREWS GOLF CLUB  
 GREENBURGH, NEW YORK

PROJECT NO. 96-572  
 CONTRACT NO. 96-572-E  
 SHEET NO. 17 OF 25  
 SCALE: AS NOTED  
 DATE: 05/09/97  
 DRAWING NO. 202-02-E-17



**SITE PLAN**  
 SCALE: 1"= 20'-0"

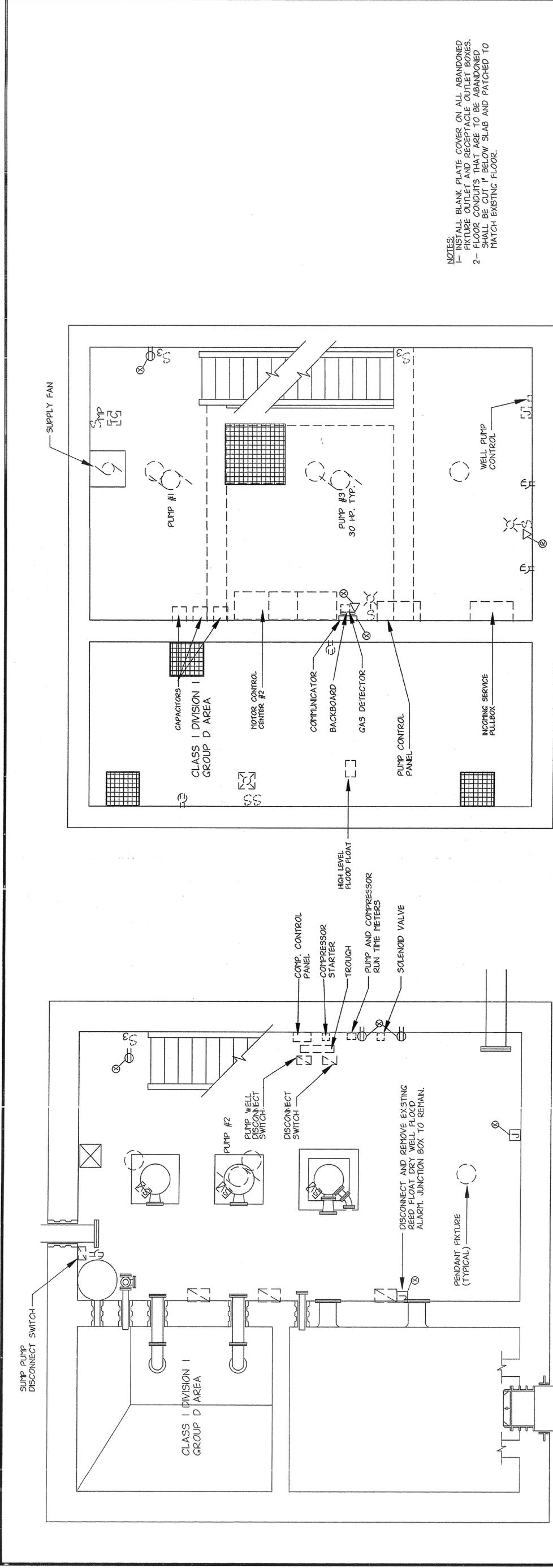
NOTE: CONTRACTOR SHALL CALL FOR A CODE 53 BEFORE COMMENCING ANY EXCAVATION



**EXTERIOR ELEVATION**  
 NO SCALE

NOTE: CONTRACTOR SHALL VERIFY UTILITY COMPANY'S CABLE TYPE DURING WALK THRU FOR SPlice KIT SELECTION

IN CHARGE OF: J. D'C  
 MADE BY: DJ  
 CHECKED BY: L.E.



**BASEMENT PLAN - DEMOLITION**  
SCALE: 3/8"=1'-0"

**MIDDLE FLOOR PLAN - DEMOLITION**  
SCALE: 3/8"=1'-0"

- NOTES:  
 1- INSTALL BLANK PLATE COVER ON ALL ABANDONED FIXTURE OUTLET AND RECEPTACLE OUTLET BOXES.  
 2- FLOOR CONDUITS THAT ARE TO BE ABANDONED SHALL BE CUT 1" BELOW SLAB AND PATCHED TO MATCH EXISTING FLOOR.

**LYNCH ENGINEERING, P.C.**  
 448 - 450 MANVILLE ROAD  
 PLEASANTVILLE, NY 10570

DRAWING NO. **E-2**  
 NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED IN DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

REVISION NUMBER	DATE	MADE BY	J O'C	APP'D BY	REVISION
1	03/21/04	DJ			AS BUILT

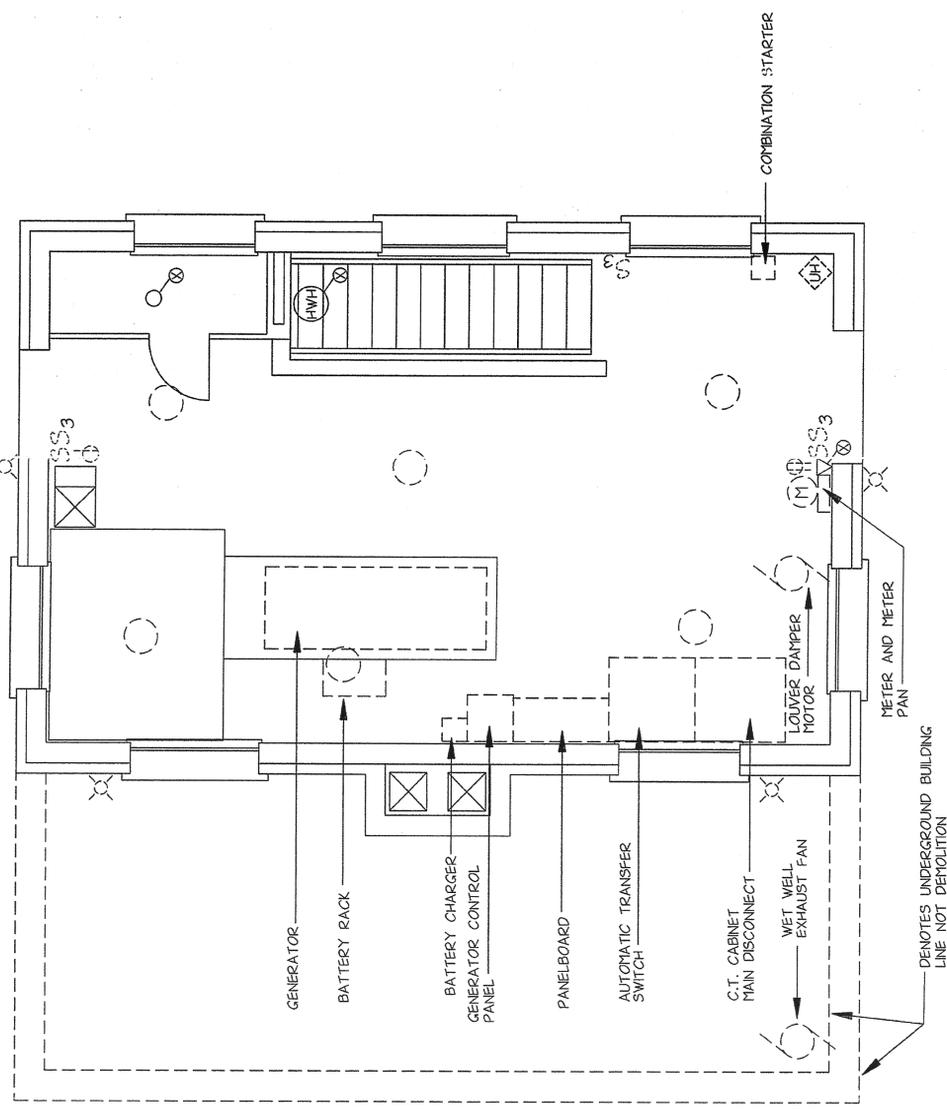
**RECORD DRAWING CERTIFICATION**

AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

CONTRACTOR NAME: _____ SIGNATURE: _____ TITLE: _____ DATE: _____	PROJECT COORDINATOR NAME: _____ SIGNATURE: _____ TITLE: _____ DATE: _____
--	---

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING BASEMENT AND MIDDLE FLOOR PLANS - DEMOLITION PUMP STATION REHABILITATION PROGRAM SHALANAU, NEW YORK GREENBURGH, NEW YORK	PROJECT NUMBER: 96-572 DRAWING NUMBER: 96-572-E SHEET NO. 18 OF 25 SCALE: AS NOTED DATE: 05/09/97 DRAWING NO.: 202-02-E-18 REV. NO.: 0
--	--

IN CHARGE OF: J O'C  
 MADE BY: REF/DJ  
 CHECKED BY: L.E.



NOTE:  
 THE FOLLOWING EQUIPMENT SHALL BE TURNED OVER TO THE OWNER IN WORKING CONDITION  
 1) GENERATOR AND ALL ACCESSORIES  
 2) BATTERIES AND RACK  
 3) BATTERY CHARGER  
 4) GENERATOR CONTROL PANEL  
 5) AUTOMATIC TRANSFER SWITCH  
 6) PUMP CONTROL PANEL

**MAIN FLOOR PLAN - DEMOLITION**  
 SCALE: 3/8" = 1'-0"



IN CHARGE OF J D/C  
 MADE BY REF/DJ  
 CHECKED BY L.E.



**LYNCH ENGINEERING, P.C.**  
 448 - 460 MANVILLE ROAD  
 PLEASANTVILLE, NY 10570

NO ALTERATION PERMITTED HEREON EXCEPT AS PERMITTED BY SECTION 2 OF THE NEW YORK STATE EDUCATION LAW.  
 DRAWING NO. **E-3**  
 9630

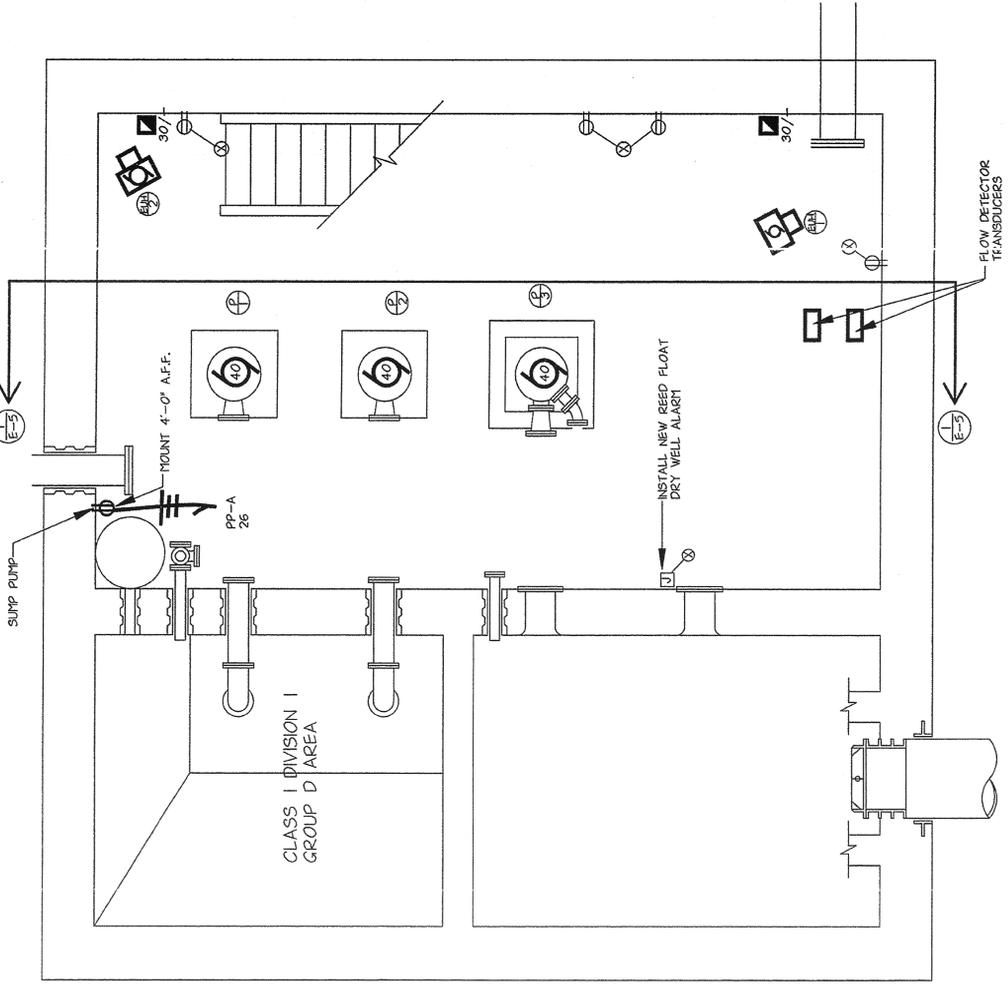
REVISION NUMBER	DATE	MADE BY	J O'C	APP'D BY	REVISION
1	03/31/99	DJ			AS BUILT

**RECORD DRAWING CERTIFICATION**  
 AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

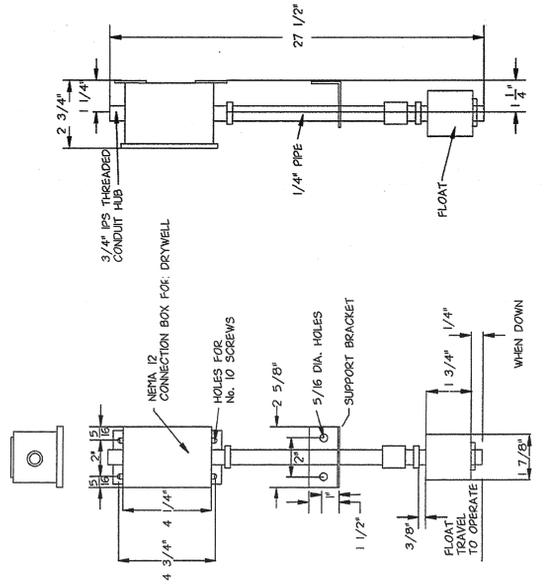
CONTRACTOR: \_\_\_\_\_ PROJECT COORDINATOR: \_\_\_\_\_  
 NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 TITLE: \_\_\_\_\_

WESTCHESTER COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF ENGINEERING  
 MAIN FLOOR PLAN - DEMOLITION

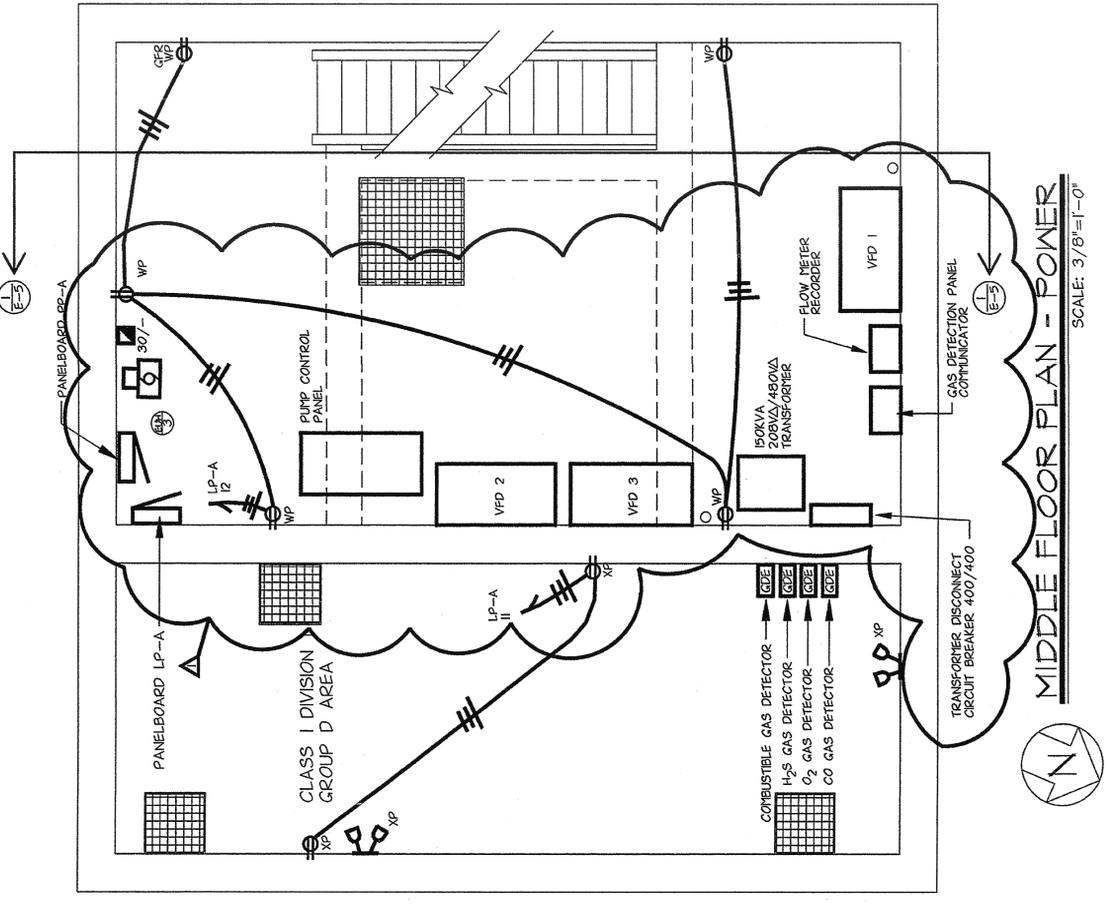
PROJECT NUMBER: 96-572  
 CONTRACT NUMBER: 96-572-E  
 SHEET NO. 19 OF 25  
 SCALE: AS NOTED  
 DATE: 05/09/97  
 DRAWING NO. 202-02-E-19  
 REV. NO. 0



**BASEMENT PLAN - POWER**  
SCALE: 3/8"=1'-0"



**DRY WELL FLOOD ALARM DETAIL**  
NO SCALE



**MIDDLE FLOOR PLAN - POWER**  
SCALE: 3/8"=1'-0"

NOTES:  
1- PROVIDE 3" HIGH HOUSKEEPING PAD UNDER ALL VFD'S AND TRANSFORMERS. ALL SIDES OF VFD AND SHALL HAVE A 45 CHAMFER. CONCRETE FOR PADS SHALL BE MINIMUM 3000PSI.  
2- INSTALL SEALOFFS ON AND COMPOUND IN ALL JOINTS ENTERING CLASS I DIVISION 1 GROUP D AREAS.



**LYNCH ENGINEERING, P.C.**  
448 - 450 HANTVILLE ROAD  
PLEASANTVILLE, NY 10570

NO ALTERATION PERMITTED HEREON EXCEPT AS INDICATED BY A CORRECTED REVISION 2 OF THE NEW YORK STATE EDUCATION LAW.  
DRAWING NO. **E-4**  
9630

REVISION NUMBER	DATE	MADE BY	APP'D BY	J. O'CONNOR	AS BUILT	REVISION
Δ 03/31/97		DJ				AS BUILT

**RECORD DRAWING CERTIFICATION**

AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

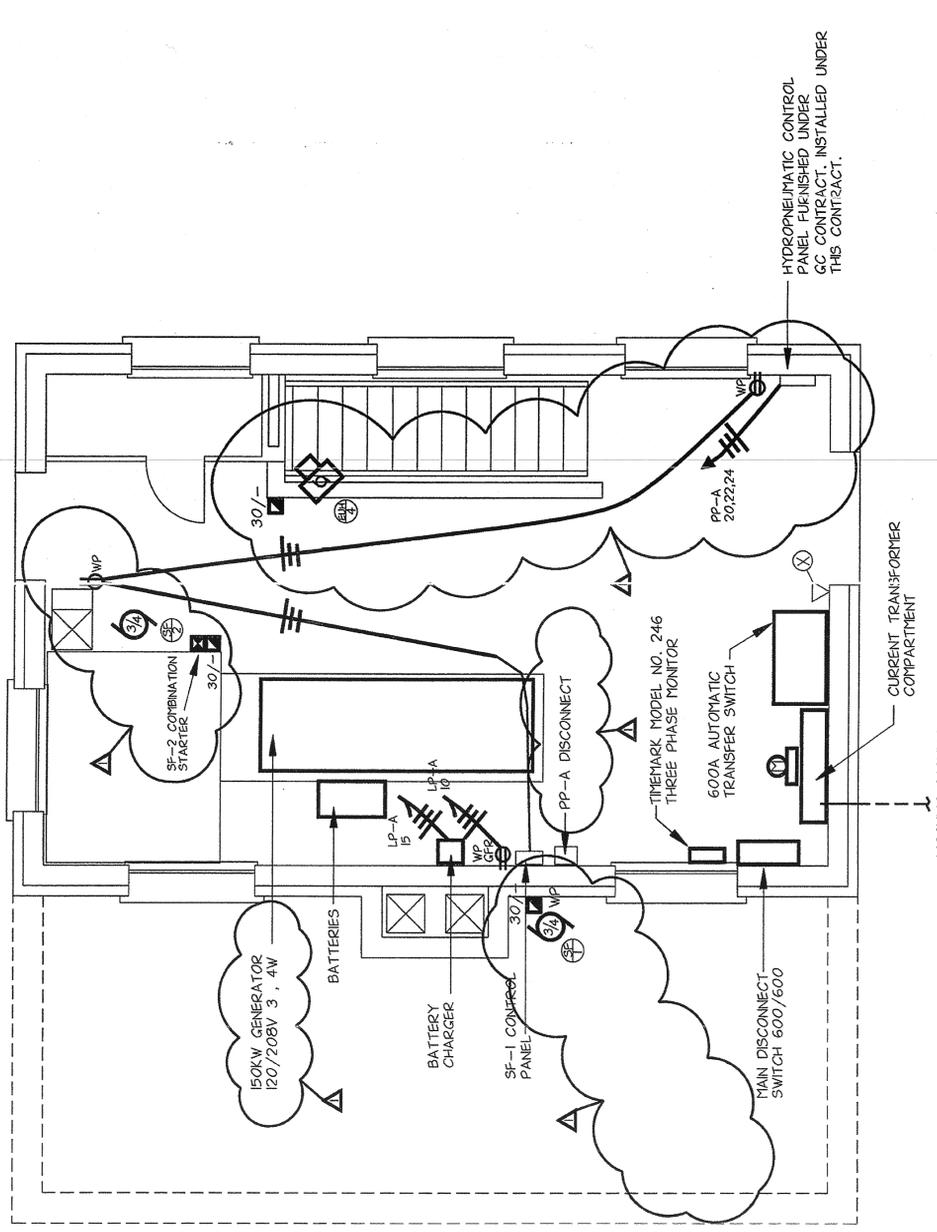
NAME	SIGNATURE	TITLE	DATE	PROJECT COORDINATOR

WESTCHESTER COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF ENGINEERING  
BASEMENT AND MIDDLE FLOOR PLANS - POWER

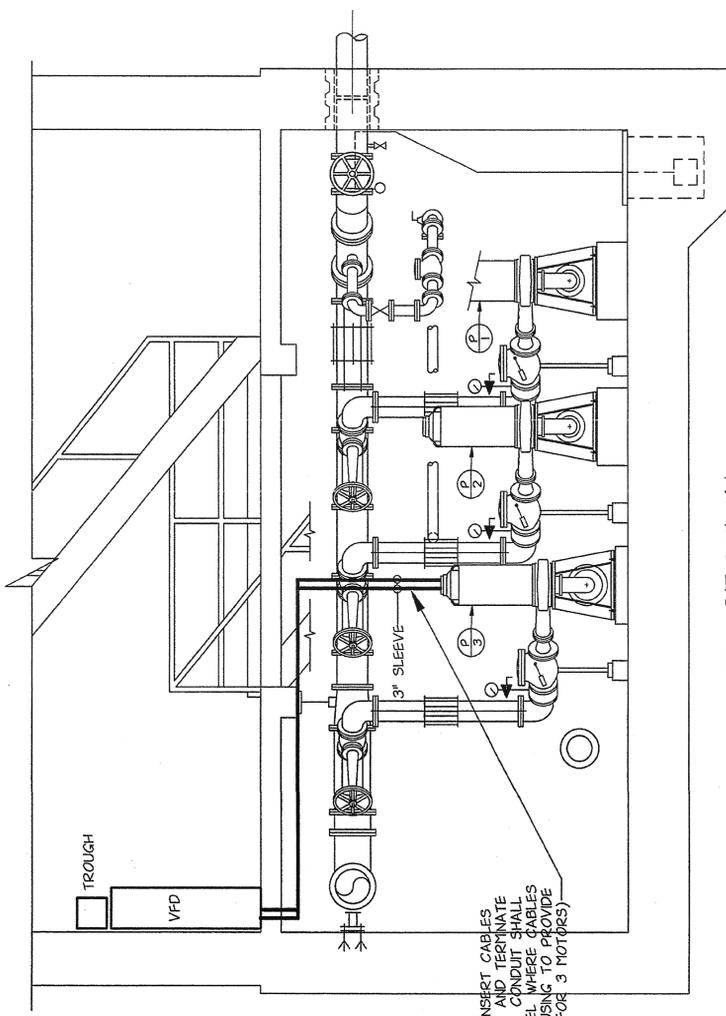
PUMP STATION REHABILITATION PROGRAM  
KAWANUMBA PUMP STATION  
GREENBURGH, NEW YORK

PROJECT NUMBER	DATE	SHEET NO.	OF	REVISION NO.
96-572		20 DF	25	
96-572-E				
SCALE:	AS NOTED			
DATE:	05/09/97			
DRAWING NO.	202-02-E-20			

IN CHARGE OF J. O'CONNOR  
MADE BY REF/DJ  
CHECKED BY L.E.



**MAIN FLOOR PLAN - POWER**  
SCALE: 3/8"= 1'-0"



CONTRACTOR TO INSERT CABLES THROUGH SLEEVES AND TERMINATE IN VFD'S. END OF CONDUIT SHALL BE 2" BELOW LEVEL WHERE CABLES ENTER MOTOR HOUSING TO PROVIDE DRIP LOOP (TYP. FOR 3 MOTORS)

**LYNCH ENGINEERING, P.C.**  
448 - 450 MARVILLE ROAD  
PLEASANTVILLE, NY 10970

DRAWING NO. **E-5**  
9630

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

REVISION NUMBER	DATE	BY	APP'D	J O'CONNOR	AS BUILT	REVISION

**RECORD DRAWING CERTIFICATION**

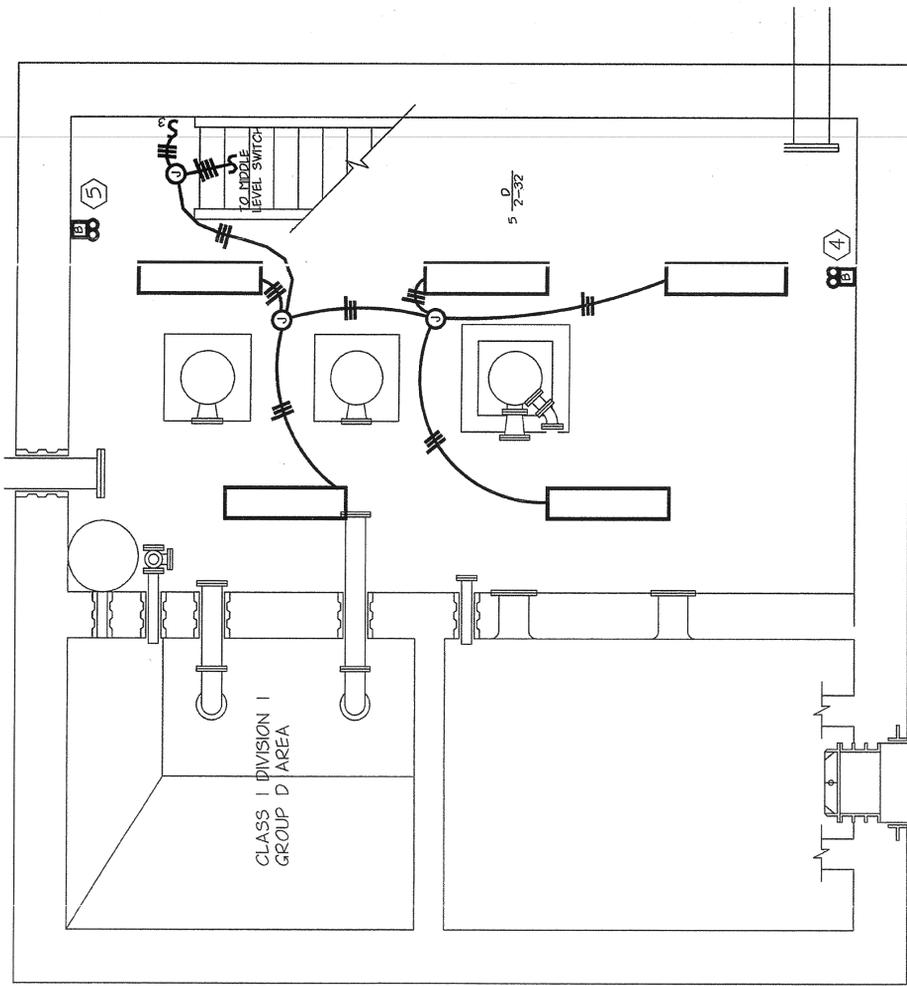
AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

CONTRACTOR NAME: _____ SIGNATURE: _____ TITLE: _____	PROJECT COORDINATOR NAME: _____ SIGNATURE: _____ TITLE: _____
---	--

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING MAIN FLOOR PLAN - POWER	PROJECT NUMBER: 96-572 CONTRACT NUMBER: 96-572-E SHEET NO. 21 OF 25 SCALE: AS NOTED DATE: 05/09/97 DRAWING NO. 202-02-E-21 REV. 0
--	---

PUMP STATION REHABILITATION PROGRAM  
SPRAIN PUMP STATION  
GREENBURGH, NEW YORK

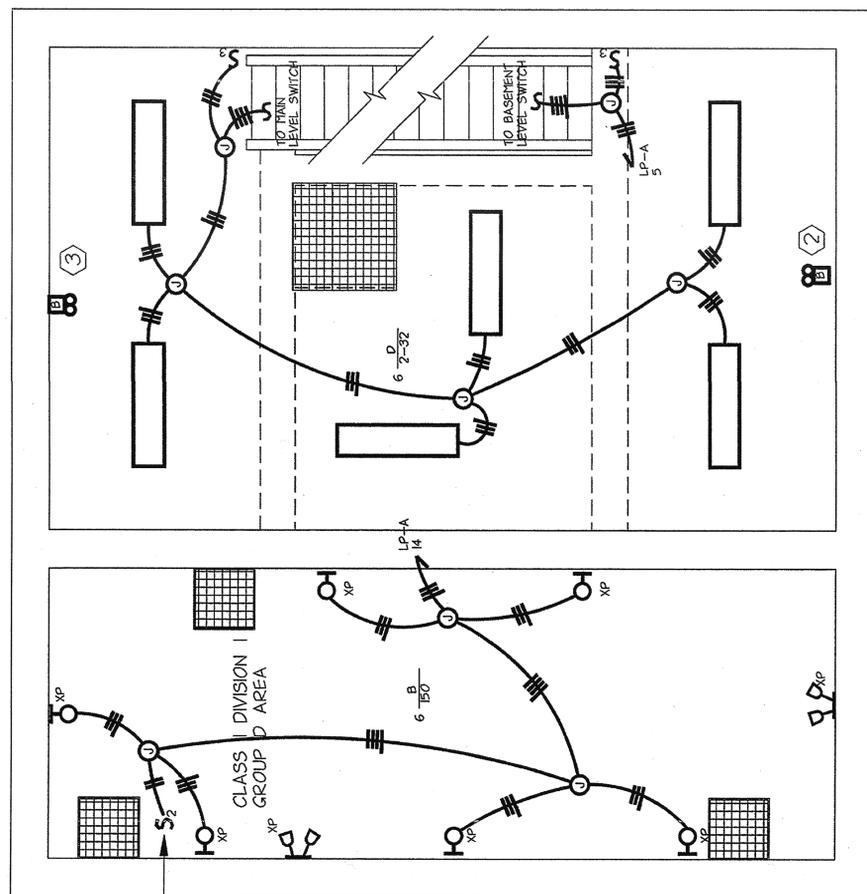
IN CHARGE OF: J O'CONNOR  
MADE BY: REF/DJ  
CHECKED BY: L.E.



NOTE:  
1- ALL FIXTURES TO BE MOUNTED 9'-0" A.F.F.  
UNLESS OTHERWISE NOTED.

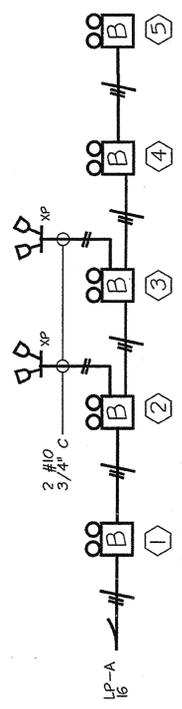
**BASEMENT PLAN - LIGHTING**  
SCALE: 3/8"=1'-0"

SCHEDULE OF LIGHTING FIXTURES					
TYPE	LAMPS WATTS	MOUNTING	VOL-TAGE	FIXTURE MANUFACTURER AND CATALOG NUMBER	REMARKS
A	2-32 FL	WALL	120V	LITHONIA VDC	T-8 LAMPS, ELECTRONIC BALLAST, VANDAL SHIELDS
B	150W HPS	WALL	120V	CROUSE HINDS HAZARD GUARD EV9BX42151	WITH GUARD, 30% REFLECTOR, HIGH POWER FACTOR (BALLAST MINIMUM 90%)
C	100W HPS	WALL	120V	MOLDCAST PARACYL	VANDAL PROOF SHIELD, HARDWARE WITH PHOTOCELL/FIXTURE
D	2-32 FL	CEILING/PENDENT	120V	LITHONIA DM	T-8 LAMPS, ELECTRONIC BALLAST, HIGH IMPACT ACRYLIC DIFFUSER
F					
LITHONIA NEMA SERIES 12V/12W HALOGEN LAMPS, AMMETER, VOLTMETER, LOAD DISCONNECT SWITCH CROUSE HINDS ELPS SERIES 12VDC, TUNGSTEN HALOGEN LAMP					



NOTE:  
1- ALL FIXTURES TO BE MOUNTED 9'-0" A.F.F.  
UNLESS OTHERWISE NOTED.

**MIDDLE FLOOR PLAN - LIGHTING**  
SCALE: 3/8"=1'-0"



**EMERGENCY BATTERY PACK SINGLE LINE DIAGRAM**  
NO SCALE

NOTE:  
1- ALL FIXTURES TO BE MOUNTED 9'-0" A.F.F.  
UNLESS OTHERWISE NOTED.

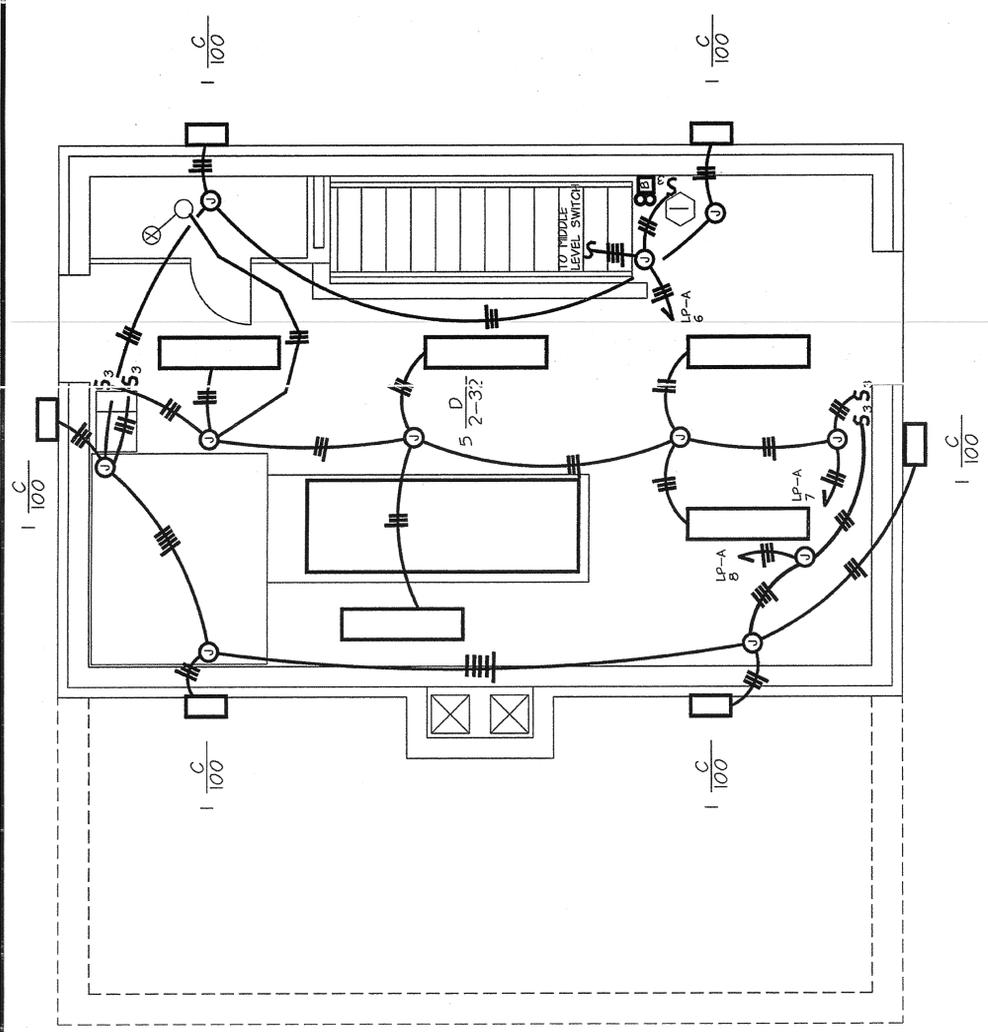
IN CHARGE OF J. D'C  
MADE BY REF/DJ  
CHECKED BY L.E.

**LYNCH**  
ENGINEERING, P.C.  
448 - 450 MANVILLE ROAD  
PLEASANTVILLE, NY 10570

DRAWING NO. **E-6**  
9630

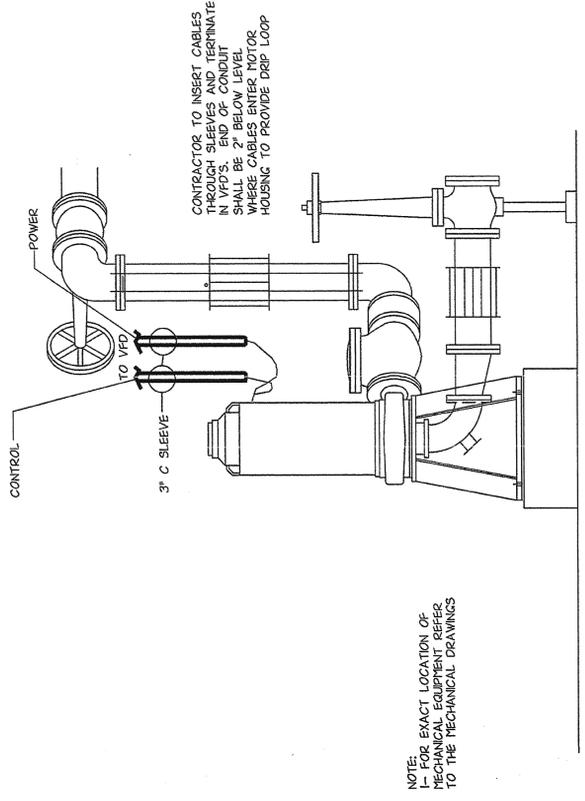
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

REVISION NUMBER	DATE	J. D'C	DU	AS BUILT	REVISION
<b>RECORD DRAWING CERTIFICATION</b>					
<input type="checkbox"/> AS BUILT-CHANGES AS NOTED <input checked="" type="checkbox"/> AS BUILT-NO CHANGES					
NAME		SIGNATURE		PROJECT COORDINATOR	
TITLE		DATE		DATE	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING BASEMENT AND MIDDLE FLOOR PLANS - LIGHTING FIXTURE SCHEDULE AND LIGHTING SINGLE LINE DIAGRAM SCALE: AS NOTED DATE: 05/09/87 DRAWING NO. 202-02-E-22 SHEET NO. 22 OF 25 CONTRACT NUMBER 96-572-E SUBJECT 96-572					



**MAIN FLOOR PLAN - LIGHTING**  
SCALE: 3/8" = 1'-0"

IN CHARGE OF J O/C  
 MADE BY REF/DJ  
 CHECKED BY L.E.



**TYPICAL PUMP WIRING DIAGRAM**  
SCALE: 3/8" = 1'-0"

NOTE:  
 1- FOR EXACT LOCATION OF MECHANICAL EQUIPMENT REFER TO THE MECHANICAL DRAWINGS



**LYNCH ENGINEERING, P.C.**  
 100 HAWTHORNE ROAD  
 PLEASANTVILLE, NY 10970

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.  
 DRAWING NO. **E-7**  
 9630

REVISION NUMBER	DATE	MADE BY	APPR'D BY	AS BUILT
1	03/31/99	DJ	J O/C	AS BUILT

**RECORD DRAWING CERTIFICATION**  
 AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

CONTRACTOR: \_\_\_\_\_  
 NAME: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_  
 TITLE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

PROJECT COORDINATOR: \_\_\_\_\_  
 NAME: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_  
 TITLE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

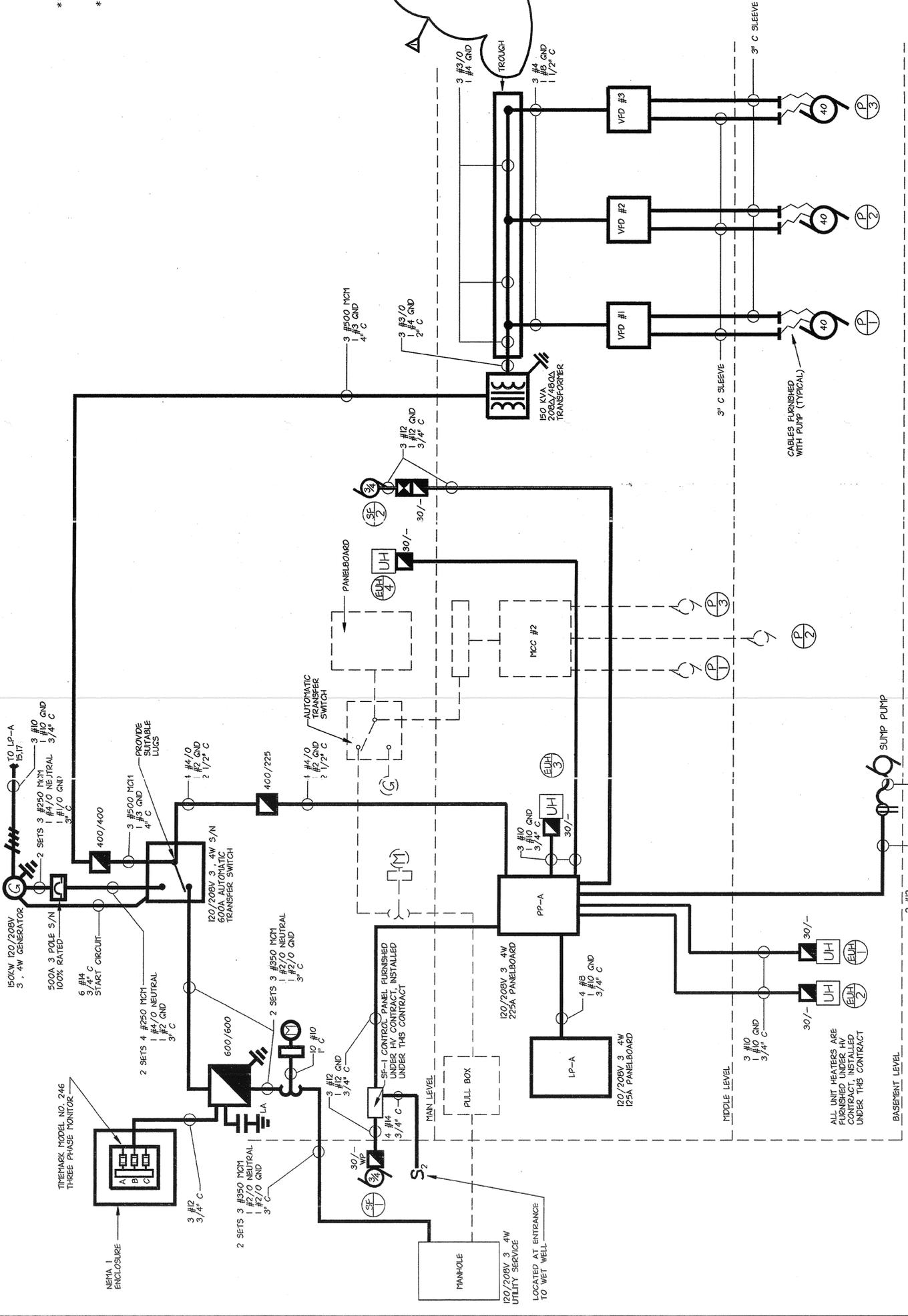
PROJECT 96-572  
 CONTRACT 96-572-E  
 SHEET NO. 23 OF 25  
 SCALE: AS NOTED  
 DATE: 05/09/97  
 DRAWING NO. 202-02-E-23  
 REV. 0

WESTCHESTER COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF ENGINEERING  
 MAIN FLOOR PLAN - LIGHTING  
 -AND DETAIL  
 PUMP STATION REHABILITATION PROGRAM  
 SPENIN PUMP STATION  
 GREENBURGH, NEW YORK

LP-A		120/208V		3		4W		125A		MLO	
DESCRIPTION	KW	BKR.	CT. NO.	PHASE	CCT. NO.	POLES	BKR.	CT. NO.	PHASE	BKR.	CT. NO.
FLOW METER	.1	20	1	A	2	1	20	1	A	20	1
GAS DETECTOR PANEL	.1	20	1	B	4	1	30	1	B	30	1
LIGHTING	.5	20	1	C	6	1	20	1	C	20	1
LIGHTING	.5	20	1	A	8	1	20	1	A	20	1
COMMUNICATOR	.1	20	1	B	10	1	20	1	B	20	1
RECEPTACLES	.4	20	1	C	12	1	20	1	C	20	1
SPARE	—	20	1	A	14	1	20	1	A	20	1
BATTERY CHARGER	1.5	30	1	B	16	1	20	1	B	20	1
BLOCK HEATER	1.8	30	1	C	18	1	20	1	C	20	1
SPARE	—	20	1	A	20	1	20	1	A	20	1
SPARE	—	20	1	B	22	1	20	1	B	20	1
SPARE	—	20	1	C	24	1	20	1	C	20	1

\* GROUND FAULT TYPE CIRCUIT BREAKER  
 \*\* HANDLE LOCK ON CIRCUIT BREAKER

PP-A		120/208V		3		4W		225A		MCB	
DESCRIPTION	KW	BKR.	CT. NO.	PHASE	CCT. NO.	POLES	BKR.	CT. NO.	PHASE	BKR.	CT. NO.
LP-A	12.5	50	3	A	1	3	30	1	A	30	1
EJH-3	7.5	30	3	B	3	3	30	1	B	30	1
EJH-2	7.5	30	3	C	5	3	30	1	C	30	1
SPARE	—	20	1	A	7	3	30	1	A	30	1
SPARE	—	20	1	B	9	3	30	1	B	30	1
SPARE	—	20	1	C	11	3	30	1	C	30	1
SPARE	—	20	1	A	13	3	30	1	A	30	1
SPARE	—	20	1	B	15	3	30	1	B	30	1
SPARE	—	20	1	C	17	3	30	1	C	30	1
SPARE	—	20	1	A	19	3	30	1	A	30	1
SPARE	—	20	1	B	21	3	30	1	B	30	1
SPARE	—	20	1	C	23	3	30	1	C	30	1
SPARE	—	20	1	A	25	3	30	1	A	30	1
SPARE	—	20	1	B	27	3	30	1	B	30	1
SPARE	—	20	1	C	29	3	30	1	C	30	1
SPARE	—	20	1	A	31	3	30	1	A	30	1



NOTE: CONDUIT FOR CABLES FURNISHED WITH 400V MOTORS SHALL BE INSTALLED UNDER THIS CONTRACT. WHERE CABLES ENTER MOTOR HOUSING TO PROVIDE DRIP LOOP

**POWER SINGLE LINE DIAGRAM**  
 NO. SCALE

**LYNCH ENGINEERING, P.C.**  
 448 - 450 MANVILLE ROAD  
 PLEASANTVILLE, NY 10570

INDUSTRIAL & COMMERCIAL ENERGY MANAGEMENT

NO. ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7709 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

DRAWING NO. **E-8**  
 9630

RECORD DRAWING CERTIFICATION

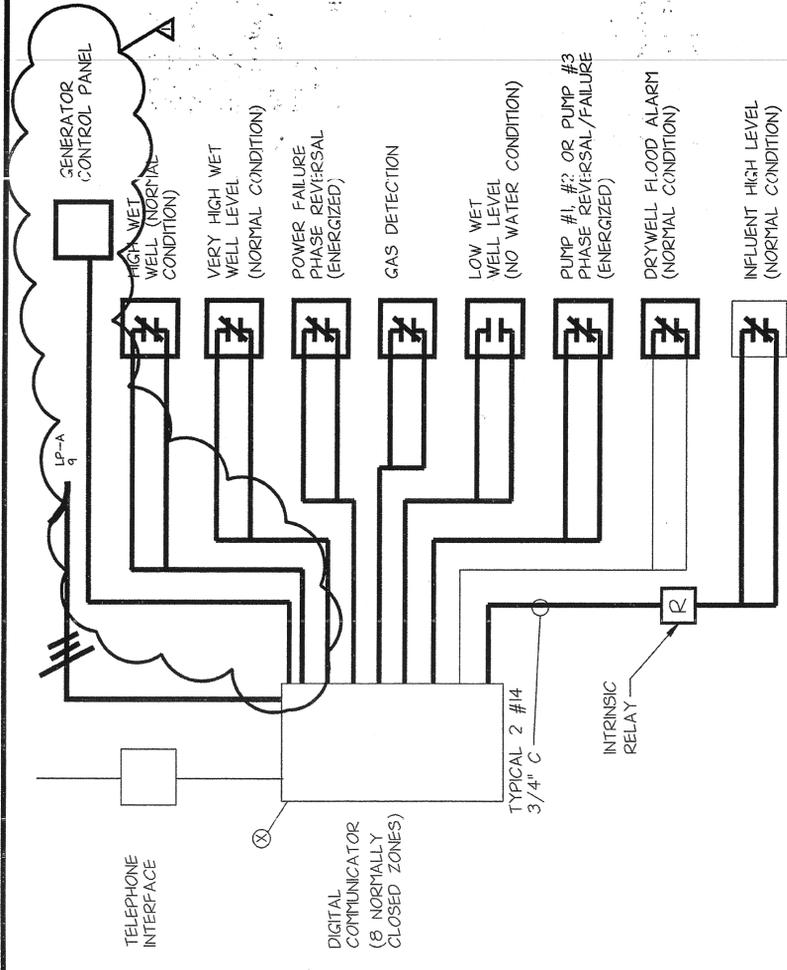
AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

CONTRACTOR: \_\_\_\_\_ PROJECT COORDINATOR: \_\_\_\_\_  
 NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 TITLE: \_\_\_\_\_

WESTCHESTER COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF ENGINEERING

PROJECT: 96-572  
 NUMBER: 96-572-E  
 SHEET NO. 24 OF 25  
 SCALE: AS NOTED  
 DATE: 05/09/97  
 DRAWING NO. 202-02-E-24  
 REV. 0

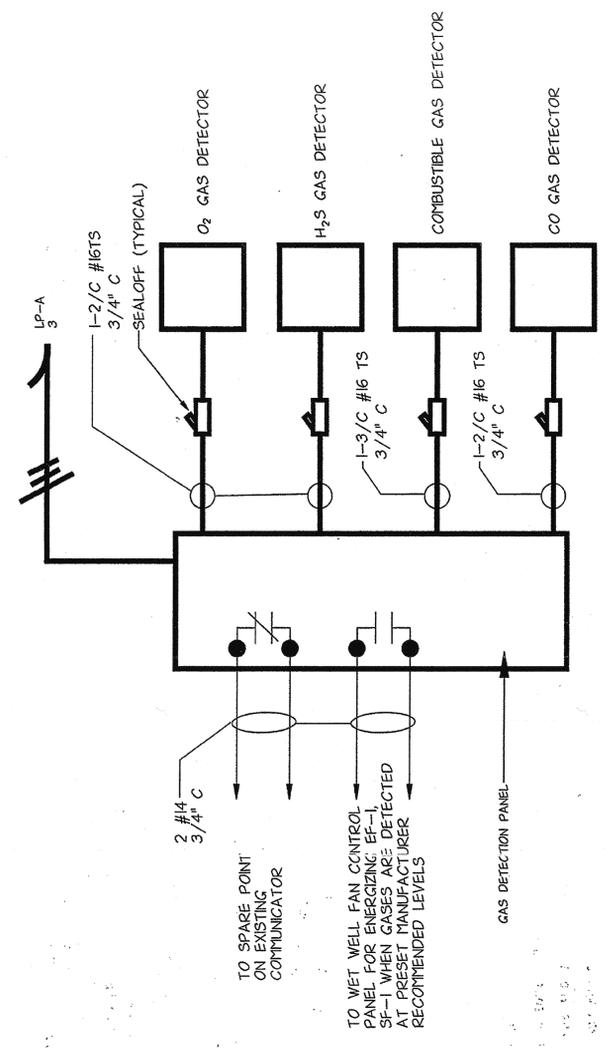
IN CHARGE OF: J. O'C  
 MADE BY: REF/DJ  
 CHECKED BY: L.E.



NOTE:  
 1- THE FOLLOWING ALARM CONTACT POINTS WILL BE LOCATED IN PUMP CONTROL PANEL:  
 1) LOW WET WELL LEVEL  
 2) HIGH WET WELL LEVEL  
 3) VERY HIGH WET WELL LEVEL  
 4) PUMP #1, PUMP #2, PUMP #3, ALARMS

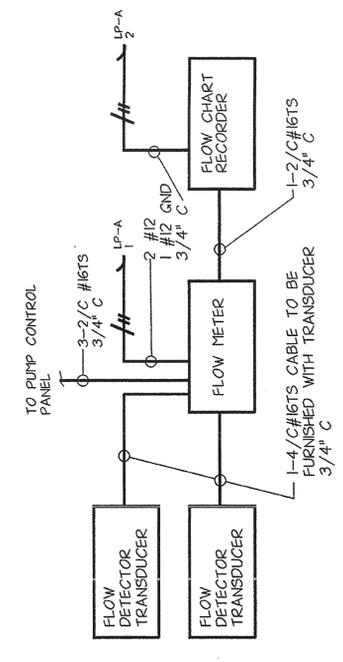
**COMMUNICATOR - SINGLE LINE DIAGRAM**

NO SCALE



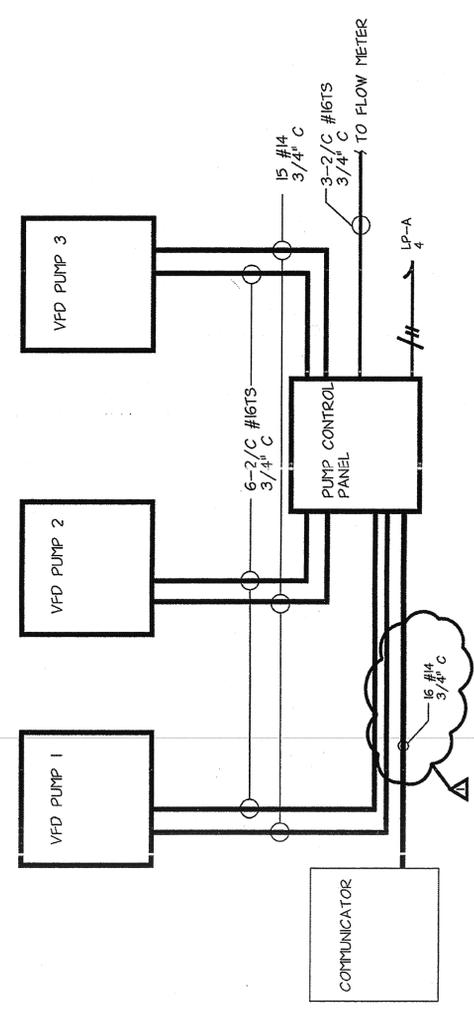
**GAS MONITORING SINGLE LINE DETAIL**

NO SCALE



**FLOW METERING SINGLE LINE DIAGRAM**

NO SCALE



**PUMP CONTROL SINGLE LINE DIAGRAM**

NO SCALE

**LYNCH ENGINEERING, P.C.**  
 445 W. MAINVILLE ROAD  
 PLAINVILLE, NY 12070

DRAWING NO. **E-9**  
 NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

REVISION NUMBER	DATE	MADE BY	APPR'D BY	AS BUILT	REVISION
1	03/31/99	JOC			

**RECORD DRAWING CERTIFICATION**

AS BUILT-CHANGES AS NOTED  
 AS BUILT-NO CHANGES

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_ TITLE: \_\_\_\_\_  
 PROJECT COORDINATOR

PROJECT NUMBER: 96-572  
 CONTRACT NUMBER: 96-572-E  
 SHEET NO.: 25 OF 25  
 SCALE: AS NOTED  
 DATE: 05/09/97  
 DRAWING NO.: 202-02-E-25  
 REV. NO.: 0

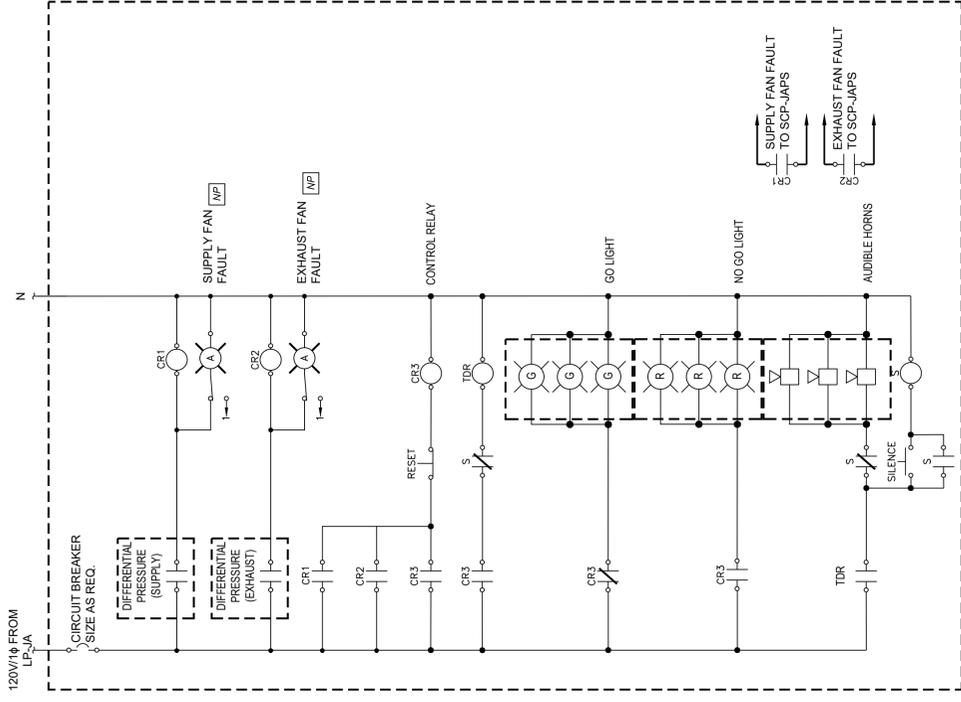
IN CHARGE OF: JOC  
 MADE BY: REF/DJ  
 CHECKED BY: L.E.

## **ATTACHMENT 2**

**SCHEDULE OF EQUIPMENT TESTING AND MANUFACTURER'S SERVICES**

Equipment Item	Spec. Section	Performance Affidavit	Shop Tests	Field Tests	Installation Cert.	Services of Manufacturer's Representative			Operation & Maintenance Manual
						Installation Days	Final Acceptance Days	Instruction Days	
Sluice Gates	11291	Yes	Yes	Yes	Yes	1/2	1/2	1/2	Yes
Dry Pit Submersible Pumps	11303	Yes	Yes	Yes	Yes	1	1	1	Yes
Programmable Logic Controllers (PLCs)	17095	No	Yes	Yes	Yes	2	1	1	Yes
Bubbler Level Sensing Equipment	17095	No	Yes	Yes	Yes	--	1/2	1/2	Yes
Level Measurement (Suspended Pressure Transducer Type)	17095	No	No	Yes	Yes	--	1/2	1/2	Yes
Flow Meters (Magnetic Type)	17095	No	No	Yes	Yes	1/2	1/2	1/2	Yes
Pressure Transmitters and Associated Flow Measuring Equipment	17095	No	No	Yes	Yes	1/2	1/2	1/2	Yes
Circular Chart Recorders	17095	No	No	Yes	Yes	1/2	1/2	1/2	Yes
Gas Detection System	17650	No	No	Yes	Yes	1	1/2	1/2	Yes
Water Supply Well	33213	No	No	Yes	Yes	1/2	1	1/2	Yes
Hoists and Cranes	41220	No	No	Yes	Yes	1/2	1/2	1/2	Yes

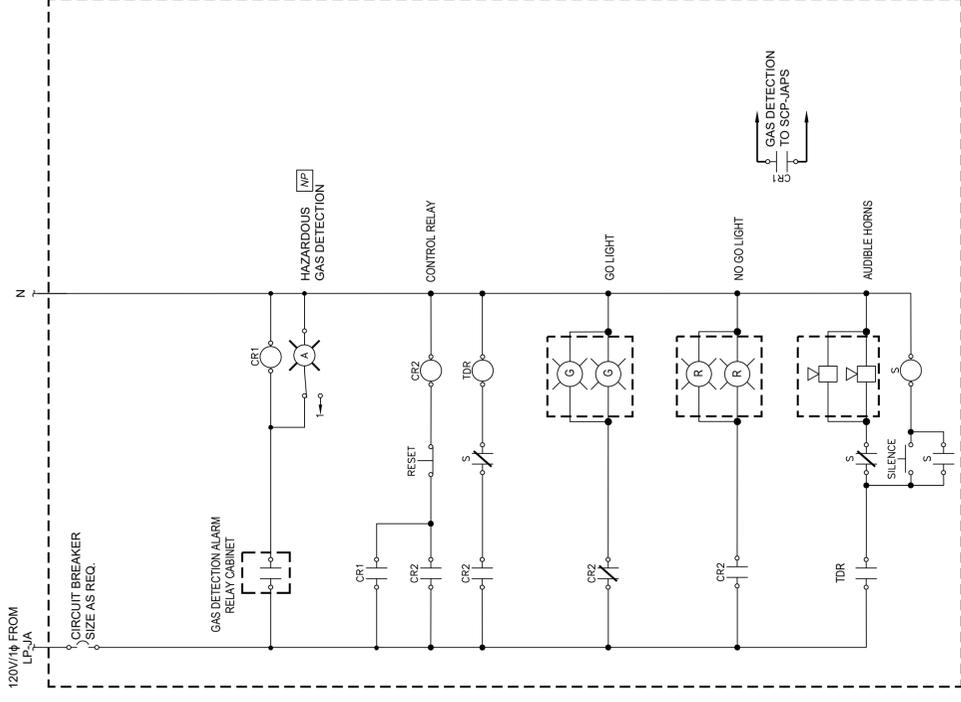
# **ATTACHMENT 3**



**DRY WELL VENTILATION ALARM RELAY  
CABINET ELEMENTARY**

NO SCALE

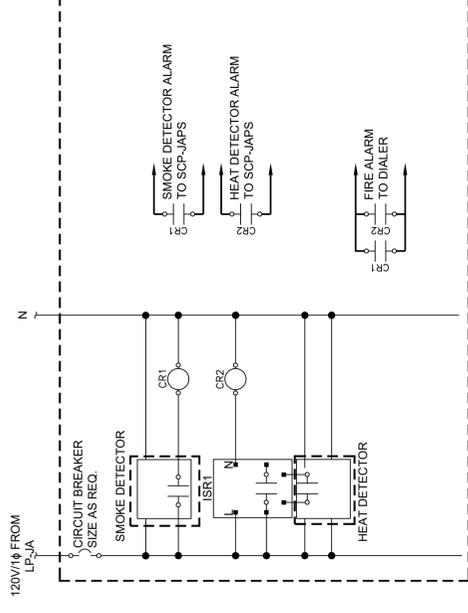
NOTES:  
1. REFER TO FLOOR PLANS FOR ALARM RELAY CABINET LOCATION, GONGO GO LIGHT AND AUDIBLE HORN QUANTITY, AND THE DIFFERENTIAL PRESSURE SWITCHES LOCATION AND QUANTITY.



**WET WELL GAS DETECTION ALARM RELAY  
CABINET ELEMENTARY**

NO SCALE

NOTES:  
1. REFER TO FLOOR PLANS FOR ALARM RELAY CABINET LOCATION, GONGO GO LIGHT AND AUDIBLE HORN QUANTITY, AND THE KIT LOCATION AND QUANTITY.



**FIRE ALARM RELAY PANEL ELEMENTARY**

NO SCALE



**EDR**  
a better environment  
Environmental Design & Research,  
Landscape Architecture, Engineering  
& Environmental Services, D.P.C.  
217 Montgomery Street, Suite 1100  
Syracuse, New York 13202  
P. 315.471.0688

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED  
AS BUILT - NO CHANGES

CONTRACTOR: \_\_\_\_\_ PROJECT COORDINATOR: \_\_\_\_\_  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_ TITLE: \_\_\_\_\_

**WESTCHESTER COUNTY, NEW YORK**  
**DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION**  
DIVISION OF ENGINEERING

JACKSON AVENUE PUMPING STATION REHABILITATION  
BRONX VALLEY SANITARY SEWER DISTRICT  
TOWN OF GREENBURGH, NEW YORK  
ELEMENTARY DIAGRAMS II

CONTRACT NUMBER: 22-510  
SHEET NUMBER: E-011  
SHEET NO. 43 OF 55

SCALE: AS SHOWN  
DATE: 10/05/2023  
DPW FILE NO.: \_\_\_\_\_  
REV. NO.: 202-02-E-68-0 0

MODIFICATION IS A VIOLATION OF CHAPTER 16, TITLE VII, ARTICLE 145 § 7209.2 NYS EDUCATION LAW, UNLESS THE PROFESSIONAL ENGINEER HAS A CURRENT PROFESSIONAL ENGINEER IN DOCUMENT BEARING THE SEAL OF AN ENGINEER IS ALTERED. THE ALTERING ENGINEER SHALL AFFIX TO THE DOCUMENT THEIR SEAL AND SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

IN CHARGE OF: RB  
CHECKED BY: GR/L/GD  
MADE BY: BWL/GD