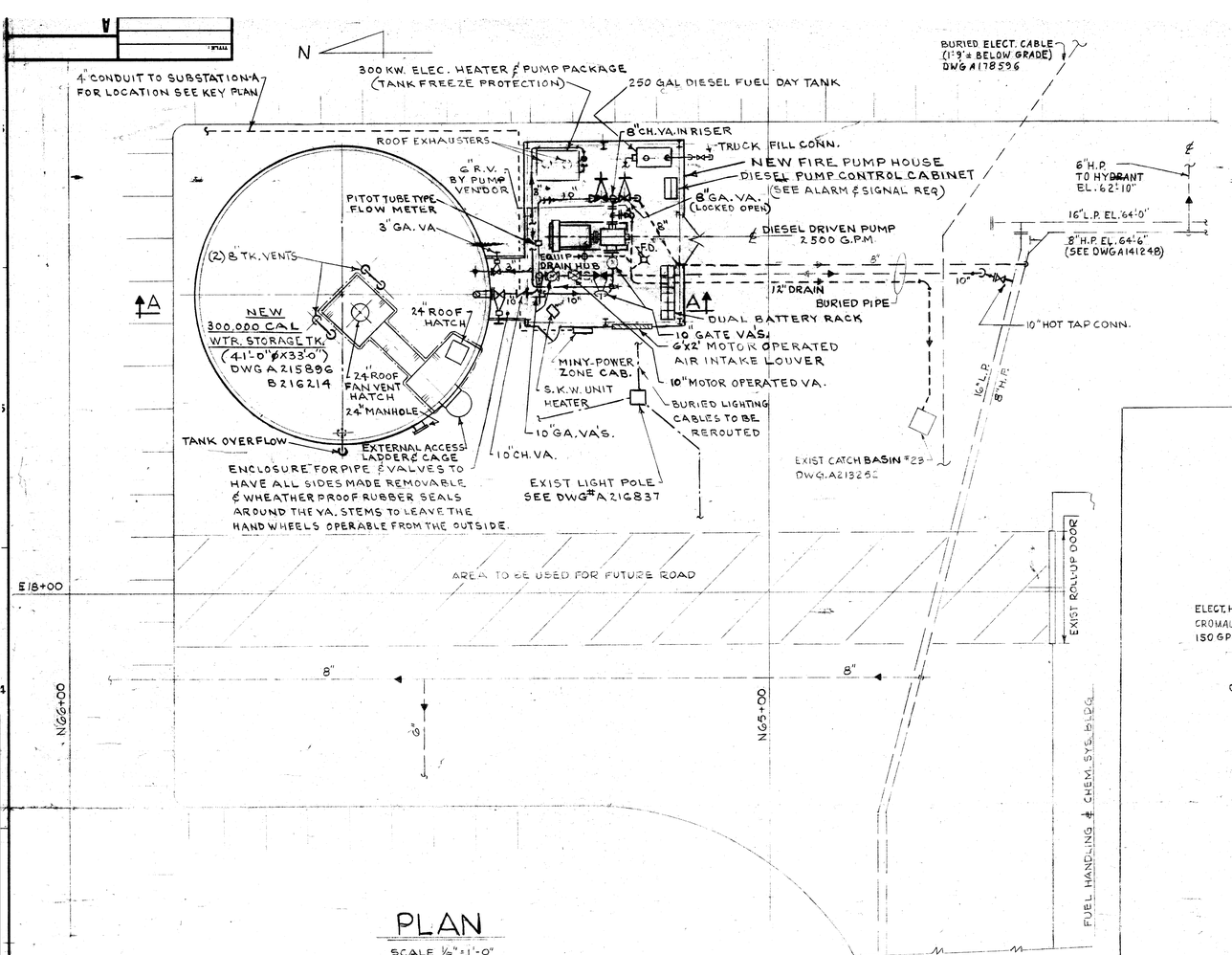
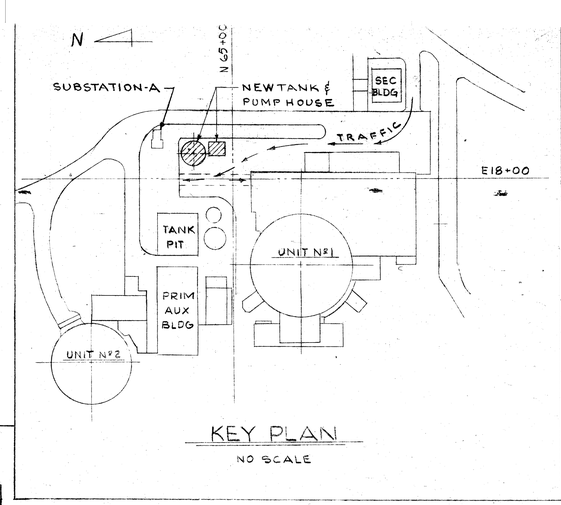


PLAN

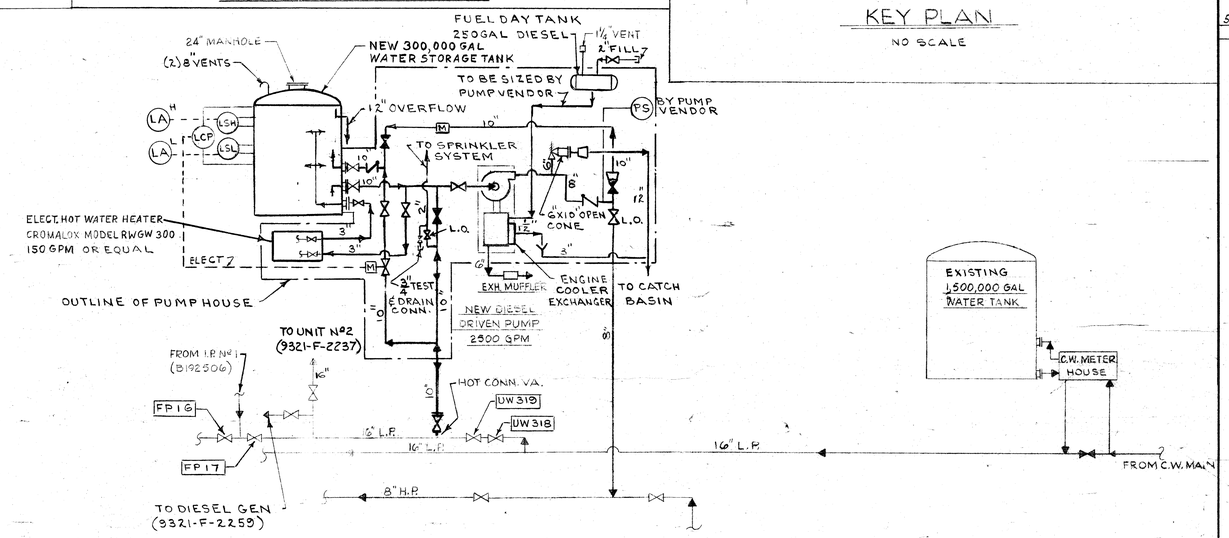
SCALE 1/8" = 1'-0"



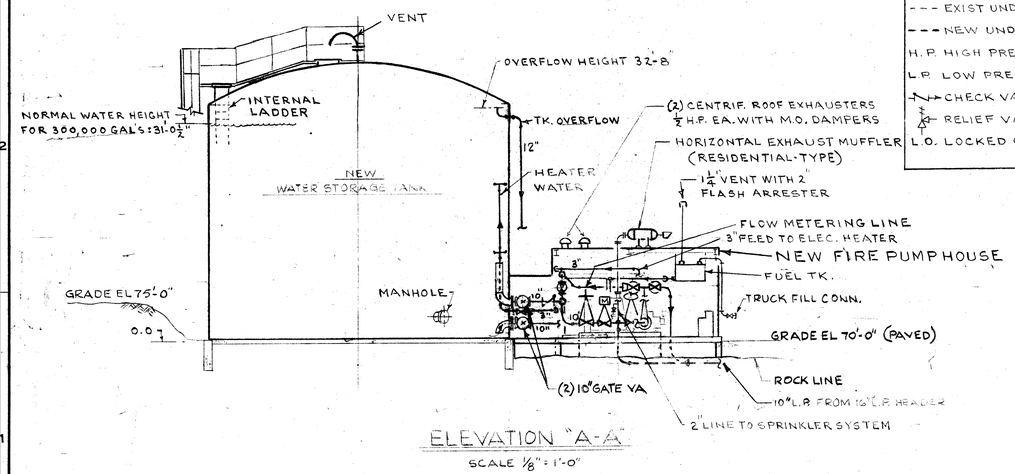
KEY PLAN

NO SCALE

ELECTRICAL ONE LINE DIAGRAM



PIPING FLOW DIAGRAM



ELEVATION "A-A"

SCALE 1/8" = 1'-0"

LEGEND

- GATE VALVE
- GATE VALVE (NORMALLY CLOSED)
- (M) MOTOR OPERATED VA.
- (P) DIESEL DRIVEN PUMP
- EXIST
- NEW
- EXIST UNDERGROUND
- NEW UNDERGROUND
- H.P. HIGH PRESSURE C.W.
- L.P. LOW PRESSURE C.W.
- CHECK VALVE
- RELIEF VALVE
- L.O. LOCKED OPEN
- (M) FLOW METER
- (LSH) HIGH LEVEL SWITCH
- (LSL) LOW LEVEL SWITCH
- (LCP) LEVEL CONTROL PNEUMATIC
- (LA) LEVEL ALARM

ALARM AND SIGNAL REQUIREMENTS

DESCRIPTION	DIESEL PUMP* CONTROL CABINET LIGHT	DIESEL PUMP* CONTROL CABINET ALARM	CENTRAL CONTROL ROOM LIGHT	CENTRAL CONTROL ROOM ALARM
CONTROLLER IN AUTO START POSITION	X*			
CONTROLLER IN MANUAL START OR OFF POSITION			X	
LOW ENGINE OIL PRESSURE	X*			
HIGH ENGINE COOLING WATER TEMP.	X*			
FAILURE TO START AUTOMATICALLY	X*			
ENGINE SHUTDOWN ON OVERSPEED	X*			
BATTERY FAILURE ON STARTING SET #1	X*	X*	X	X
BATTERY FAILURE ON STARTING SET #2	X*			
BATTERY CHARGER FAILURE			X	
ENGINE RUNNING			X	
TROUBLE IN ENGINE AND CONTROLLER			X	
BLDG. SPRINKLER ACTUATED			X	
HIGH WATER LEVEL	X	X		
LOW WATER LEVEL	X		X	

*LOCAL INDICATION IN DIESEL PUMP CONTROL CABINET SUPPLIED BY PUMP VENDOR

DESIGN CRITERIA

PROVIDE A 300,000 GAL WATER STORAGE TANK & FIRE PUMP HOUSE TO THE EXISTING FIRE PROTECTION SYSTEM. A 2500 G.P.M. DIESEL DRIVEN PUMP WILL BE USED TO PRESSURIZE THE I.N.P. WATER MAIN IN THE EVENT THE EXIST'G ELEC. DRIVEN PUMPS ARE OUT OF SERVICE. THE PUMP WILL ALSO HAVE THE ABILITY TO DRAW WATER FROM THE EXISTING 1,500,000 GAL WTR. STORAGE TANK THRU THE EXISTING L.P. SYSTEM AS AN ALTERNATE MEANS.

NOTES

1- INSTALLATION SHALL BE IN ACCORDANCE WITH THESE CON ED SPECS -
PIPING: MP 5323-1 C.W. (ABOVE GROUND) PART DH-1
C.W. (BELOW GROUND) PART DH-2
F.O. PIPING PART DR-1
VALVES: MP 5324-1
UNDERGROUND PIPING TO BE COATED & WRAPPED AS PER SPEC G-8060 (SHOP) & G-8167 (FIELD)

2- ALL ELECTRICAL EQUIPMENT SHALL HAVE NEMA 4 ENCLOSURES.

3- DIMENSIONS & SIZES OF EQUIPMENT STRUCTURES ETC. INDICATED ARE FOR ESTIMATE ONLY.

4- ALL ELEVATIONS SHOWN REFER TO STANDARD DATUM MEAN SEA LEVEL AT SANDY HOOK.

5- FLOOR CONTROL LEVEL IS ELEV. +16'-0".

6- BUILDING CONSTRUCTION SHALL BE STEEL FRAMED WITH COLUMNS, GIRTS & INSULATED METAL SIDING.

7- ROOF TO HAVE METAL DECK, RIGID INSULATION, BUILT-UP ROOFING & GRAVEL.

8- FIRE PROTECTION SHALL BE A WET SPRINKLER SYSTEM WITH FLOW ALARM IN CONTROL ROOM.

9- FIRE PUMP SHALL CONFORM TO NFPA 20

10- WATER TANK SHALL CONFORM TO NFPA 22

11- SLOPE FLOOR TOWARDS DRAIN.

12- ADEQUATE LIGHTING SHALL BE PROVIDED FOR PUMP HOUSE INTERIOR PLUS EXTERIOR LIGHTING ABOVE DOORWAYS, GATE VALVE POSITIONS, & TRUCK FILL CONNECTIONS.

13- PERIMETER LIGHTING TO BE MAINTAINED.

NOT FOR FABRICATION OR INSTALLATION

A SEARCH HAS BEEN MADE FOR HAZARDS EXISTING IN THIS AREA. SINCE RECORDS ARE NOT NECESSARILY COMPLETE AND ACCURATE, IT SHOULD NOT BE ASSUMED THAT NO OTHER HAZARDS EXIST.

0 2 4 6 8 10 15 20 25 30 35
SCALE: 1/8" = 1'-0"

Edison

REVISIONS

10/18/78	K. Kyle 10/24/78	A
RELEASED FOR INFORMATION PN. 6354 N.S. 5881 12-20-78	12-20-78	
3/14/79	3/15/79	B
THIS ISSUE IS NON CLASS A AS PER CI 240-1 PN G354 RELEASED FOR INITIAL COMMENTS	S.A. 4-9-79	S.B. 4-20-79
5/24/79	KEHR	C
THIS ISSUE IS NON CLASS A AS PER CI 240-1 RELEASED FOR FINAL CONCEPTUAL DESIGN. PN G354	Z.D. 5-21-79	S.B. 5-21-79

RETURN TO REACTOR DOCKET FILES

50-247
11-2-79
8011060505

CONCEPT DWG. 22230-C

CONSOLIDATED EDISON CO. OF NEW YORK, INC.

STATION LOCATION: INDIAN POINT Nº1 & 2

PROPOSED ARRGT OF 300,000 GAL WATER STORAGE TANK AND PUMP HOUSE FOR BACK-UP FIRE PROTECTION.

SCALE: AS NOTED | DRAWN BY: ANGELO | RECORDED: 12-23-78
PROJ. NO. 6354 | CHECKED BY: [illegible] | ENG. DEPT. MC
DIAG. | ELECT. | MECH. | STRUCT. | MISC.

APPROVALS

GENERAL ENGINEERING	CHIEF CONCEPT ENGINEER	[illegible]	2/5/79
	CHIEF DESIGN ENGINEER		
	CHIEF ESTIMATING ENGINEER	[illegible]	1/29/79
PROJECT ENGINEERING	PROJECT ENGINEER	[illegible]	1/29/79
	STATION MECHANICAL ENGINEER, NYNUCLEAR	[illegible]	1/29/79
MECHANICAL ENGINEERING	STATION ANALYTICAL ENGINEER		
	CHIEF MECHANICAL ENGINEER		
	S.A.D. STRUCTURES ENGINEER		
CIVIL ENGINEERING	PLANT STRUCTURES ENGINEER		
	CHIEF CIVIL ENGINEER		
	T & D ENGINEER		
ELECTRICAL ENGINEERING	ELECTRICAL STATION ENGINEER		
	CHIEF ELECTRICAL ENGINEER		
MNS	SPONSOR D. ROSH	DMR	