

A

B

C

D

E

F

A

B

C

D

E

F

three inches = one foot
one and one half inches = one foot
one inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot

DRAWING SYMBOLS	
	DETAIL NUMBER
	DRAWING NUMBER WHERE DRAWN
	SECTION LETTER
	DRAWING NUMBER WHERE SHOWN
	BUILDING NO. WHERE EQUIPMENT IS LOCATED
	EQUIPMENT ABBREVIATION (SUPPLY FAN)
	TYPICAL UNIT NO.
	BUILDING NO. WHERE EQUIPMENT IS LOCATED
	ITEM (TERMINAL UNIT SHOWN)
	ITEM NUMBER (TERMINAL UNIT NO. 1)
	SERVED BY AIR HANDLER UNIT NO. 1

VALVE AND PIPING SYMBOLS	
	FUEL OIL FILL
	DAY TANK OIL SUPPLY
	DAY TANK OIL RETURN
	FUEL QUALITY MAINTENANCE SUPPLY
	FUEL QUALITY MAINTENANCE RETURN
	PRESSURE RELIEF VALVE (FLANGED)
	BALL VALVE (FLANGED)
	MOTORIZED VALVE (FLANGED)
	FUSIBLE LINK VALVE (FLANGED)
	UNION
	FLANGE CONNECTION - ALL FLANGES ARE CLASS 150
	SOCKET WELD TEE (3000#)
	SOCKET WELD ELBOW (3000#)
	BUTT WELD TEE (SCHD 40)
	BUTT WELD ELBOW (SCHD 40)

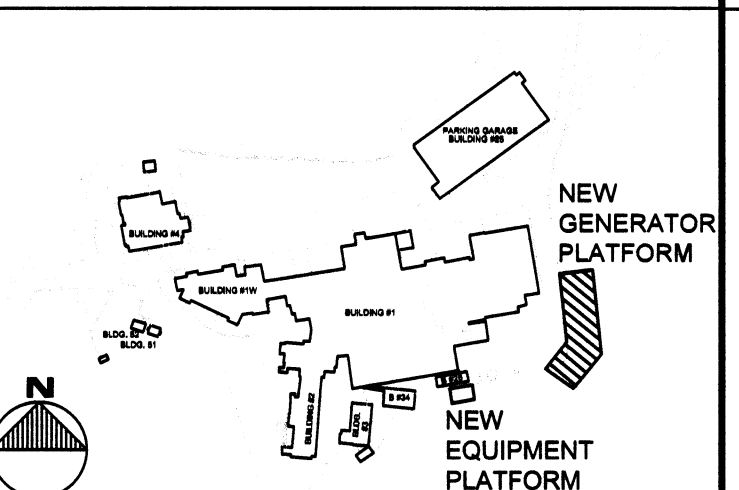
ABBREVIATIONS	
A/E ARCHITECT / ENGINEER	D DAMPER - AUTOMATIC
A&H-K AIR TO AIR HEAT EXCHANGER	D-1 OUTDOOR AIR DAMPER
AB AIR BLENDER	D-2 RETURN AIR DAMPER
AAV AUTOMATIC AIR VENT	D-3 RELIEF AIR DAMPER
ACC AIR COOLED CONDENSER	DB DECIBELS
ACCH AIR COOLED CHILLER	DB DRY-BULB TEMPERATURE
ACCU AIR-COOLED CONDENSING UNIT	DDC DIRECT DIGITAL CONTROLS
ACU AIR CONDITIONING UNIT	DEG DEGREE
ACD AUTOMATIC CONTROL	DF DIFFUSER
ACD-TP DAMPER MODULATING POSITION	DIA DIAMETER
AD ACCESS DOOR	DIA DEIONIZED WATER
AF AFTER FILTER	DP DEW POINT TEMPERATURE
AFCV AIR FLOW CONTROL VALVE	DP DIFFUSER PLATE
AFT ABOVE FINISHED FLOOR	DPA DIFFERENTIAL PRESSURE
AFMD AIR FLOW MEASURING DEVICE	DPS DIFFERENTIAL PRESSURE SENSOR
AFW AIR FLOW WHEEL (FAN)	DX DIRECT EXPANSION
AHU AIR HANDLING UNIT	DXCC DIRECT EXPANSION COOLING COIL
AMP AMPERGE	EA EXHAUST AIR
ACCESS PANEL	EAT ENTERING AIR TEMPERATURE
APD AIR PRESSURE DROP	EC EVAPORATIVE COOLER
ARI AIR CONDITIONING AND REFRIGERATION	ECC ENGINEERING CONTROL CENTER
INSTITUTE	ECU EVAPORATIVE CONDENSER UNIT
AS AIR SEPARATOR	EDH ELECTRIC DUCT HEATER
ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS	EDR ENERGY EFFICIENCY RATIO
AW AIR WASHER	EF EXHAUST FAN
AXF AXIAL FLOW	EG EXHAUST GRILLE
B BOILER	EGS EMERGENCY GAS SHUTOFF
BD BUTTERFLY DAMPER	EGT ENTERING GLYCOL TEMPERATURE
BDD BACKDRIFT DAMPER	EH EXHAUST HOOD
BDR BASE BOARD RADIATOR	EJ EXPANSION JOINT
BFP BACKFLOW PREVENTER	EMD END OF MAIN DRIP (STEAM)
BFT BOILER PLANT FIRE TUBE	ENT ENTERING
BG BOTTOM GRILLE	IN INCHES
BHP BRAKE HORSEPOWER	IN HG INCHES OF MERCURY
BHW HOT WATER HEATING BOILER	IN WC INCH WATER COLUMN
BHX BOILER BLOWDOWN HEAT EXCHANGER	IN WG INCH WATER GAUGE
BIW BACKWARD INCLINED WHEEL (FAN)	IN-LB INCH-POUND
BMT BONE MARROW TRANSPLANT	IRLV INTEGRATED PART LOAD VALVE
BR BOTTOM REGISTER	IRH INTRAD HEATER
BSC BIOLOGICAL SAFETY CABINETS	IS INSECT SCREEN
BT BLOWOFF TANK	IU INDUCTION UNIT
BTG BLOWOFF TANK CONTROL VALVE	IV INLET VANES
BTU BRITISH THERMAL UNIT	kg KILOGRAM
BTUH BRITISH THERMAL UNIT PER HOUR	kg/hr KILOGRAM PER HOUR
BWT BOILER PLANT WATER TUBE	kPa KILOPASCAL
C CENTIGRADE (CELCIUS)	kW KILOWATT
CC COOLING COIL	kWh KILOWATT HOUR
CCD COOLING COIL CONDENSATE DRAIN	L LITER
CD CEILING DIFFUSER	L/h LITERS PER HOUR
CENT CENTRIFUGAL	L/m LITERS PER MINUTE
CFH CUBIC FEET PER HOUR	L/s LITERS PER SECOND
CFM CUBIC FEET PER MINUTE	LAT LEAVING AIR TEMPERATURE
CFT CUBIC FEET	LBS/hr POUNDS PER HOUR
CFP CHEMICAL FEED PUMP	LF LINEAR FOOT (FEET)
CG CEILING GRILLE	LH LATENT HEAT
CH CHILLER	LPG LIQUID PROPANE GAS
CHP CHILLED WATER PUMP	LPR LOW PRESSURE RETURN (STEAM CONDENSATE)
CHW CHILLER WATER	LPSC LOW PRESSURE STEAM (CLEAN)
CHR CHILLED WATER RETURN	LS LINEAR SLOT DIFFUSER
CHS CHILLED WATER SUPPLY	LTC LOCAL TEMPERATURE CONTROL
CI CAST IRON	LSD LINEAR SLOT DIFFUSER
CM CARBON MONOXIDE	LTP PANEL
CM CUBIC METER	LTV FEET
CMS CUBIC METER PER SECOND	LTV FEET
CO CLEAN OUT	LTV FEET
CO2 CARBON DIOXIDE	LTV FEET
COMP COMPRESSOR UNIT	LTV FEET
COP COEFFICIENT OF PERFORMANCE	LTV FEET
CP CONDENSATE PUMP	LTV FEET
CR CEILING REGISTER	LTV FEET
CS CONDENSATE STORAGE TANK	LTV FEET
CSG CLEAN STEAM GENERATOR	LTV FEET
CT COOLING TOWER	LTV FEET
CU CONDENSING UNIT	LTV FEET
CUH CABINET UNIT HEATER	LTV FEET
CV CONSTANT VOLUME	LTV FEET
CW COLD WATER (POTABLE)	LTV FEET
CWCC CHILLED WATER COOLING COIL	LTV FEET
CWP CONDENSER WATER PUMP	LTV FEET
CWR CONDENSER WATER RETURN (TO COOLING TOWER)	LTV FEET
CWS CONDENSER WATER SUPPLY (FROM COOLING TOWER)	LTV FEET
F FAN	F FAN
F&T F&T	F&T F&T
F/SDPR F/SDPR	F/SDPR F/SDPR
FA FREE AREA	FA FREE AREA
FC FLEXIBLE CONNECTION	FC FLEXIBLE CONNECTION
FCU FAN COIL UNIT (4 PIPE)	FCU FAN COIL UNIT (4 PIPE)
FCUC FAN COIL UNIT COOLING ONLY	FCUC FAN COIL UNIT COOLING ONLY
FCUH FAN COIL UNIT HEATING ONLY	FCUH FAN COIL UNIT HEATING ONLY
FCW FORWARD CURVED WHEEL (FAN)	FCW FORWARD CURVED WHEEL (FAN)
FD FLOOR DRAIN	FD FLOOR DRAIN
FE FEET	FE FEET
FF FINAL FILTER	FF FINAL FILTER
FHX FLUE GAS/FEEDWATER HEAT EXCHANGER	FHX FLUE GAS/FEEDWATER HEAT EXCHANGER
FM FLOW METER	FM FLOW METER
FOP FUEL OIL PUMP	FOP FUEL OIL PUMP
FOT FUEL OIL TANK	FOT FUEL OIL TANK
FOHX FUEL OIL HEAT EXCHANGER	FOHX FUEL OIL HEAT EXCHANGER
FPM FEET PER MINUTE	FPM FEET PER MINUTE
FPS FEET PER SECOND	FPS FEET PER SECOND
FPTU FAN POWERED TERMINAL UNIT	FPTU FAN POWERED TERMINAL UNIT
FR FLOOR REGISTER	FR FLOOR REGISTER
FRP FIBER REINFORCED POLYESTER	FRP FIBER REINFORCED POLYESTER
FS FLOW SWITCH	FS FLOW SWITCH
FSAT FREEZESTAT	FSAT FREEZESTAT
FT FEET	FT FEET
FT-LB FOOT-POUND	FT-LB FOOT-POUND
FTR FIN TUBE RADIATOR	FTR FIN TUBE RADIATOR
FV FACE VELOCITY	FV FACE VELOCITY
GA GAUGE	GA GAUGE
GAL GALLONS	GAL GALLONS
GH GRAVITY HOOD	GH GRAVITY HOOD
GPD GALLONS PER DAY	GPD GALLONS PER DAY
GPH GALLONS PER HOUR	GPH GALLONS PER HOUR
GPM GALLONS PER MINUTE	GPM GALLONS PER MINUTE
GPR GAS PRESSURE REGULATOR	GPR GAS PRESSURE REGULATOR
GS GALVANIZED STEEL	GS GALVANIZED STEEL
H HUMIDIFIER	H HUMIDIFIER
H&CW HOT & COLD WATER	H&CW HOT & COLD WATER
HAC HOUSEKEEPING AID CLOSET	HAC HOUSEKEEPING AID CLOSET
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SHEET NOTES

1. DRAWINGS ARE SCHEMATIC IN NATURE. BRING TO ENGINEER'S IMMEDIATE ATTENTION ANY SITE DISCREPANCIES.
2. COORDINATE WORK OF THIS TRADE WITH OTHER TRADES.
3. DO NOT SCALE DRAWINGS.

KEYED NOTES

- 1" FUEL SUPPLY TO DAY TANK.
- 1" FUEL RETURN FROM DAY TANK.
- 3" FUEL OIL FILL FROM TANK FILLING SYSTEM.
- 1-1/2" FUEL OIL SUPPLY TO FUEL TRANSFER PUMP SET.
- 2" FUEL OIL SUPPLY TO QUALITY MAINTENANCE SYSTEM.
- 2" FUEL OIL RETURN FROM FUEL QUALITY MAINTENANCE SYSTEM.
- GENERATOR AND BASE DAY TANK COMBINATION.
- DAY TANK RETURN PUMP SYSTEM.
- PIPE SUPPORT. VERIFY EXACT LOCATION WITH EQUIPMENT LOCATIONS. MAXIMUM SPACING TO BE PER SPECIFICATION REQUIREMENTS. REFERENCE STRUCTURAL DRAWINGS FOR SUPPORT DETAILS.
- BOTTOM OF PIPING AT 9 INCHES ABOVE SLAB.
- BOTTOM OF PIPING INCLUDING SUPPORT STRUCTURE, ETC. AT 7'-6" MINIMUM ABOVE SLAB FOR WALKING CLEARANCE UNDER PIPING.
- OFFSET PIPING OVER OR AROUND LIGHT POLE BASE IN A MANNER TO AVOID CONFLICT WITH GENERATOR ENCLOSURE.
- OIL WATER SEPARATOR. SEE DETAIL 3MP401.
- SUPPORT STORM PIPING FROM PLATFORM STRUCTURE.
- CAREFULLY COORDINATE LOCATION OF DRAINS, PIPING, INTERCEPTOR, ETC. WITH ELECTRICAL CONDUITS AND DUCT BANKS. ADJUST EXACT LOCATION OF MECHANICAL SYSTEMS AS REQUIRED TO ACCOMMODATE ELECTRICAL SYSTEMS.



VICINITY MAP

100% CONSTRUCTION DOCUMENTS

CONSULTANTS:		ARCHITECT/ENGINEERS:		Project Number 15-423	Scale 1/8" = 1'-0"	Drawing Title MECHANICAL PIPING PLANS	Project Title INSTALL FACILITY BACKUP GENERATOR	Project Number 851-16-101	Office of Facilities Management Department of Veterans Affairs
GUIDON DESIGN GUIDON DESIGN INC. 905 N. CAPITOL AVE., SUITE 100 INDIANAPOLIS, IN 46204 317.800.0388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING				Raleigh, NC Indianapolis, IN Philadelphia, PA Pittsburgh, PA Virginia Beach, VA Fort Collins, CO www.aopg-pa.com Apogee Project # 2015-423		Approved Project Director	Location 1540 Spring Valley Dr., Huntington, WV 25704	Building Number	
Revisions:		Date				Date 03/15/2017	Checked ECB	Drawn WLF	

1 MECHANICAL PIPING PLAN BELOW PLATFORM
SCALE: 1/8" = 1'-0"

2 MECHANICAL PIPING PLAN ABOVE PLATFORM
SCALE: 1/8" = 1'-0"

one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot

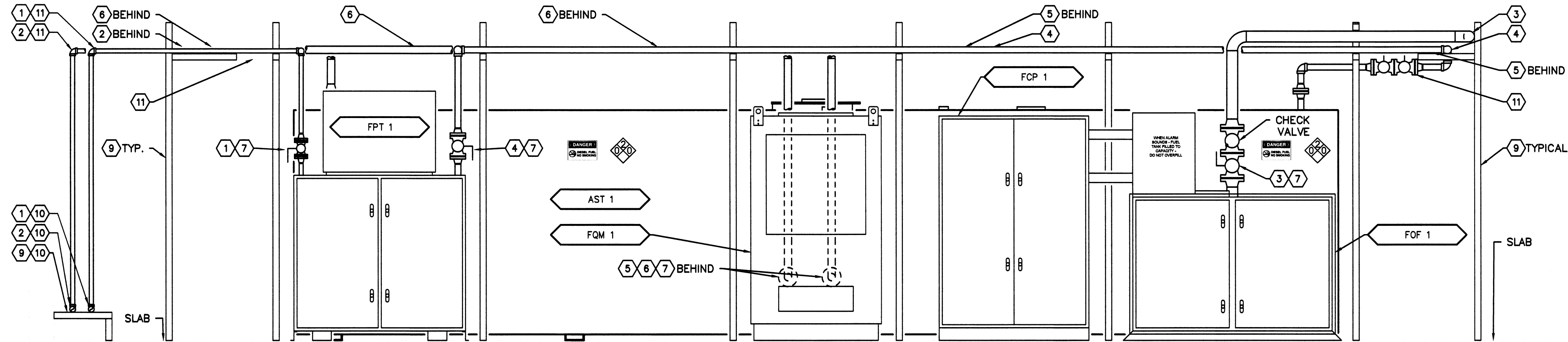
A
three inches = one foot
6"
1
one and one half inches = one foot
6"
2
one inch = one foot
6"
3
three quarters inch = one foot
6"
4
one half inch = one foot
6"
5
three eighths inch = one foot
6"
6
one quarter inch = one foot
6"
7
one eighth inch = one foot
6"
8
one sixteenth inch = one foot
6"
9
one thirty second inch = one foot
6"

SHEET NOTES

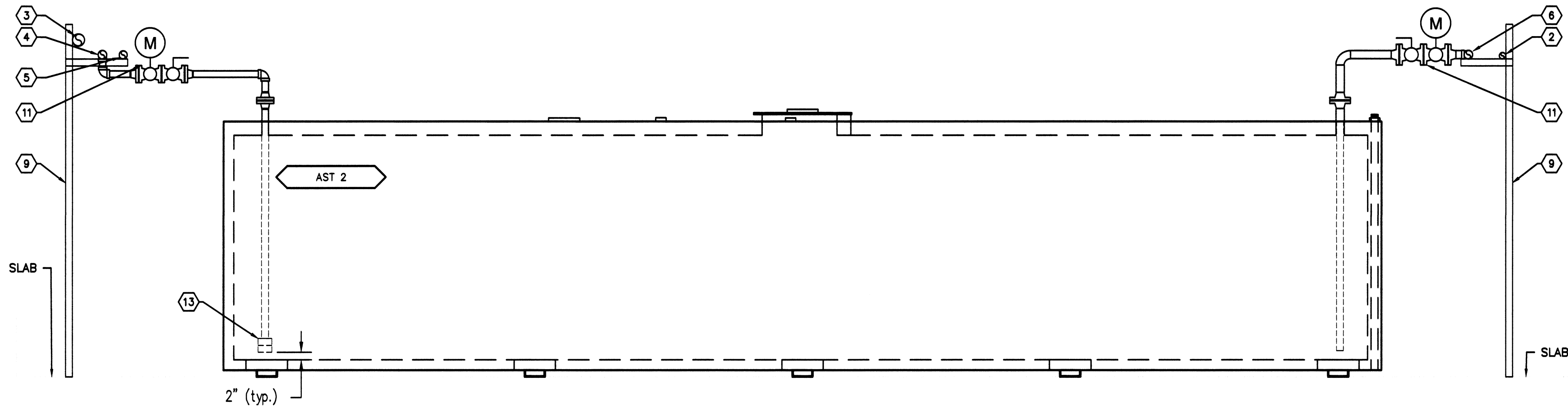
1. DRAWINGS ARE SCHEMATIC IN NATURE. BRING TO ENGINEER'S IMMEDIATE ATTENTION ANY SITE DISCREPANCIES.
2. COORDINATE WORK OF THIS TRADE WITH OTHER TRADES.
3. DO NOT SCALE DRAWINGS.

KEYED NOTES

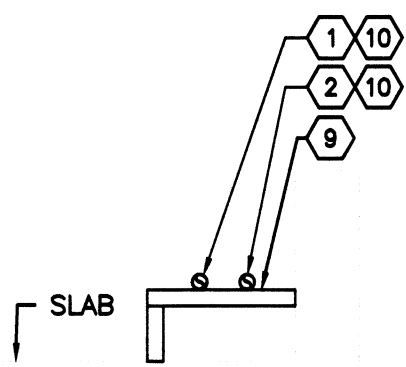
1. 1" FUEL SUPPLY TO DAY TANK.
2. 1" FUEL RETURN FROM DAY TANK.
3. 3" FUEL OIL FILL FROM TANK FILLING SYSTEM.
4. 1-1/2" FUEL OIL SUPPLY TO FUEL TRANSFER PUMP SET.
5. 2" FUEL OIL SUPPLY TO QUALITY MAINTENANCE SYSTEM.
6. 2" FUEL OIL RETURN FROM FUEL QUALITY MAINTENANCE SYSTEM.
7. ISOLATION VALVE.
8. DAY TANK RETURN PUMP SYSTEM.
9. PIPE SUPPORT. VERIFY EXACT LOCATION WITH EQUIPMENT LOCATIONS. MAXIMUM SPACING TO BE PER SPECIFICATION REQUIREMENTS. REFERENCE STRUCTURAL DRAWING SB501/DETAIL 11 FOR SUPPORT DETAILS.
10. BOTTOM OF PIPING AT 9 INCHES ABOVE SLAB.
11. BOTTOM OF PIPING INCLUDING SUPPORT STRUCTURE, ETC. AT 7'-6" MINIMUM ABOVE SLAB FOR WALKING CLEARANCE UNDER PIPING.
12. OVERFILL PROTECTION VALVE, FUEL OIL FILL LINES ONLY.
13. FOOT VALVE, PUMP SUPPLY LINES ONLY.



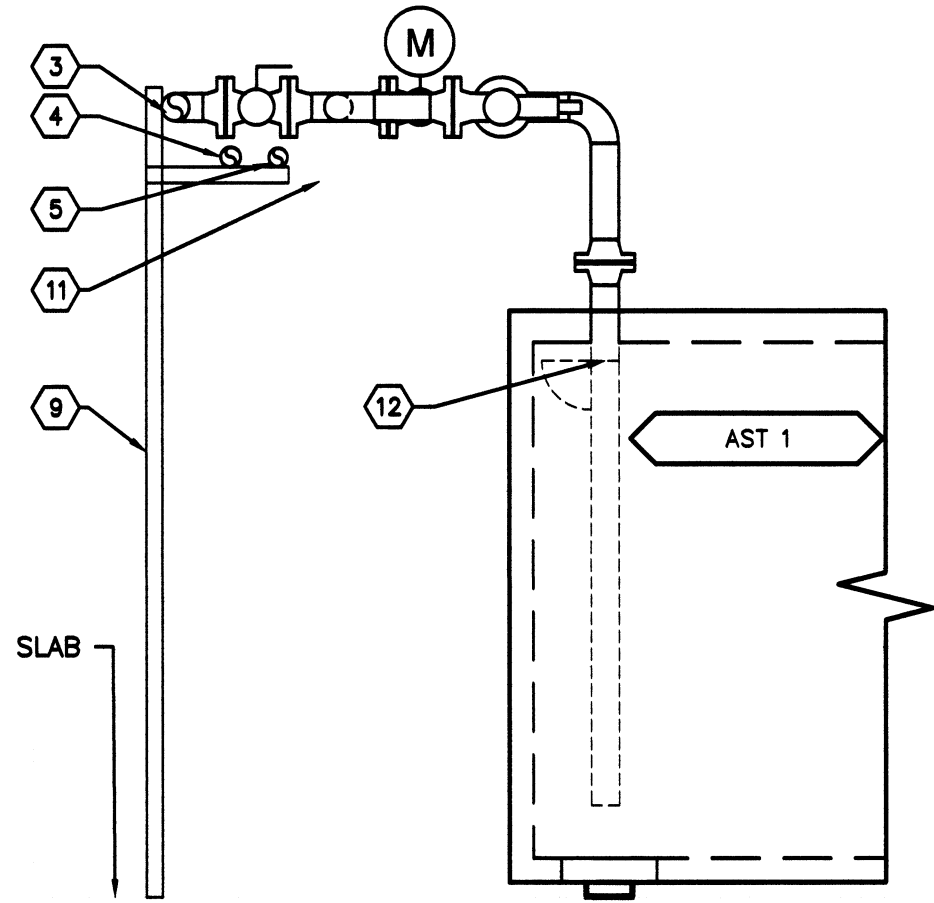
4 SECTION 4
MP301 SCALE 1/2" = 1'-0" (REFERENCE SHEET MP100)



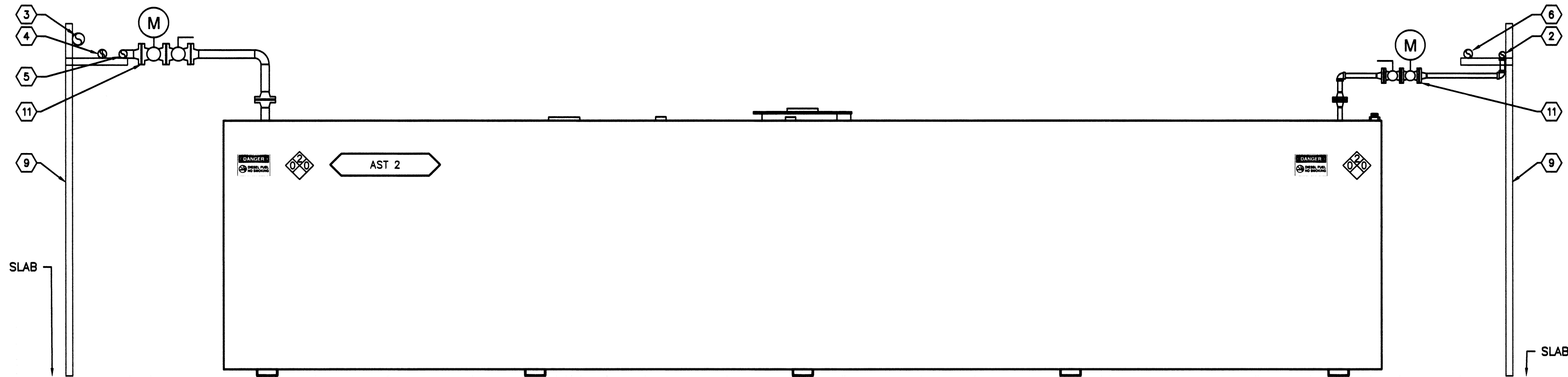
2 SECTION 2
MP301 SCALE 1/2" = 1'-0" (REFERENCE SHEET MP100)



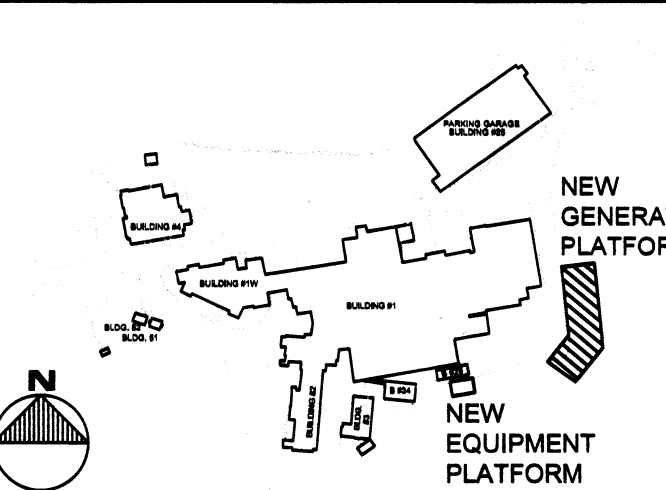
5 SECTION 5
MP301 SCALE 1/2" = 1'-0" (REFERENCE SHEET MP100)



3 SECTION 3
MP301 SCALE 1/2" = 1'-0" (REFERENCE SHEET MP100)



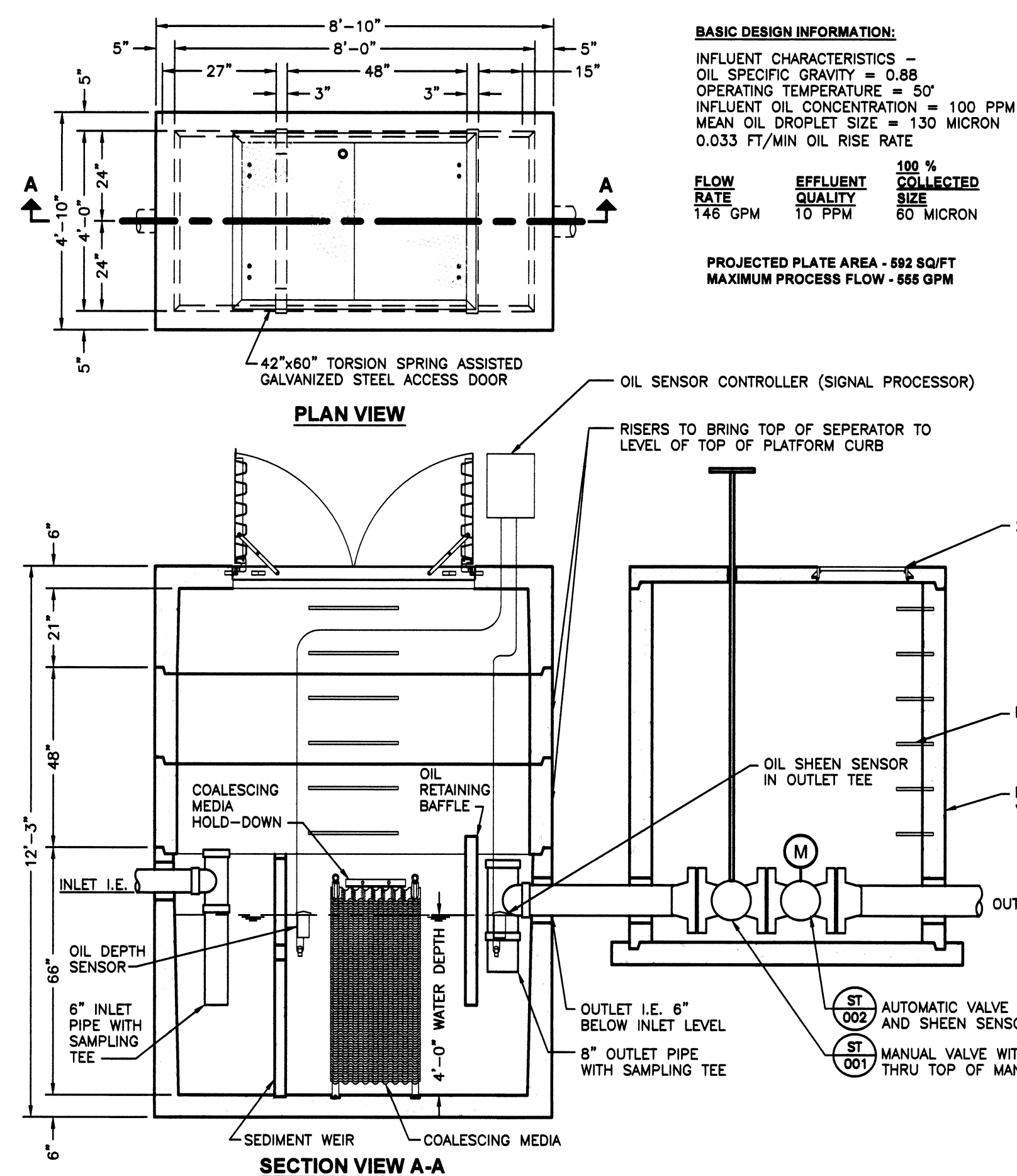
1 SECTION 1
MP301 SCALE 1/2" = 1'-0" (REFERENCE SHEET MP100)



VICINITY MAP

100% CONSTRUCTION DOCUMENTS

		CONSULTANTS:				ARCHITECT/ENGINEERS:		Project Number 15-423		Scale 1/2" = 1'-0"		Drawing Title MECHANICAL PIPING SECTIONS		Project Title INSTALL FACILITY BACKUP GENERATOR		Project Number 851-16-101		Office of Facilities Management	
		<div><div>GUIDON</div><div>DESIGN</div><div>GUIDON DESIGN INC. 605 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204 317.600.8388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING</div></div>		<div><div><div>BOARD REGISTERED</div><div>PROFESSIONAL ENGINEER</div><div>42889</div><div>3/5/17</div></div></div>		<div><div><div>APOGEE</div><div>Consulting Group, PA www.acg-pa.com Apogee Project # 2016-423</div></div><div>Raleigh, NC Indianapolis, IN Philadelphia, PA Pittsburgh, PA Virginia Beach, VA Fort Collins, CO (919) 858-7420</div></div>		Approved Project Director		Location 1540 Spring Valley Dr., Huntington, WV 25704		Drawing Number MP301		Building Number					
Drawing Number																			
Date 03/15/2017														Checked ECB		Drawn WLF			
Revisions:		Date												Dwg. 19 of 29		Department of Veterans Affairs			



3
MP401

OIL WATER SEPERATOR DETAIL

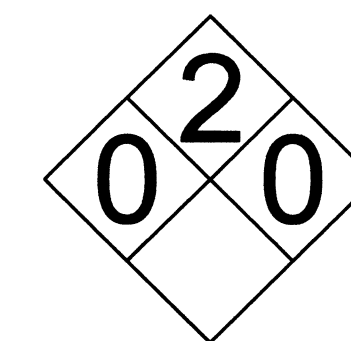
SCALE: NOT TO SCALE (REFERENCE SHEET MP101)



DANGER, NO SMOKING

SIZE: 10" W x 7" H
TYPE: ODE-2107 OR
ADE-2107 (SHOWN)

SIGNAGE TO BE PLACED ON LID OF
FILL STATION & ON FUEL
STORAGE TANKS, VIEWABLE FROM
ALL VISIBLE SIDES OF ALL TANKS



NFPA 704 HAZMAT PLACARD

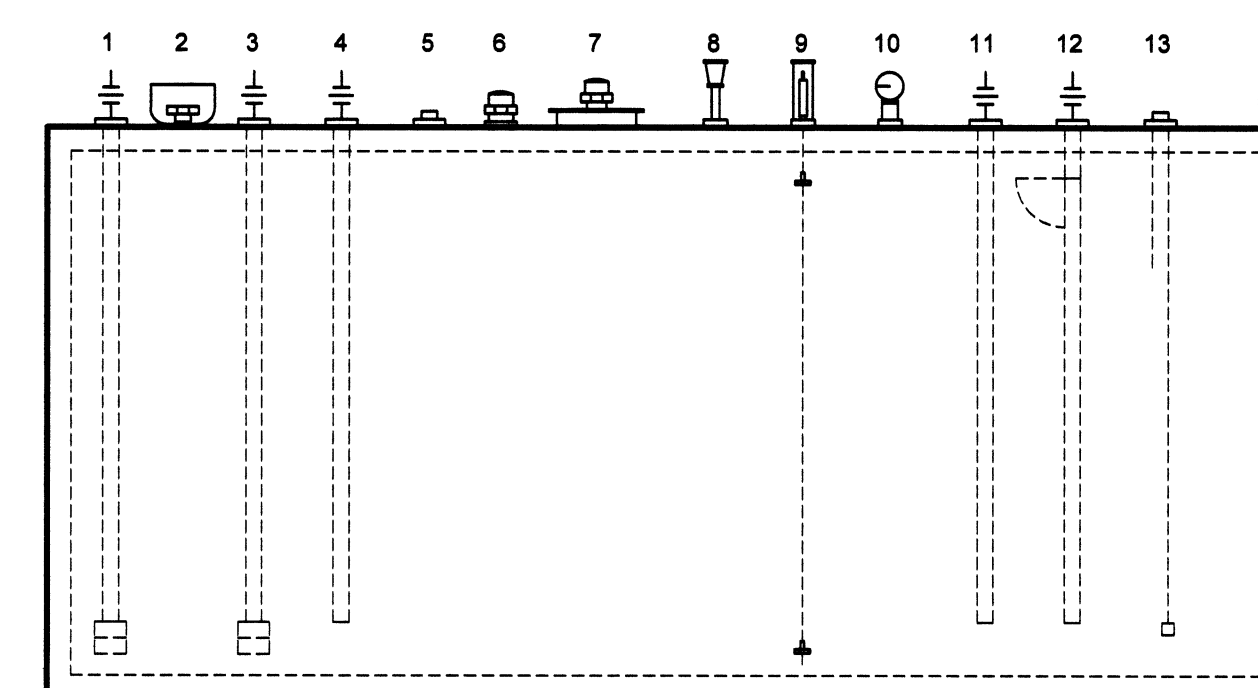
SIZE: 5" SIDE (A) WITH 2" NUMERALS
(VIEWABLE @ 75')
TYPE: BLACK LETTERS ON COLORED
BACKGROUNDS PER NFPA 704 ART. 9.1

HAZMAT DIAMOND TO BE PLACED ON
FUEL STORAGE TANKS, VIEWABLE FROM
ALL VISIBLE SIDES OF ALL TANKS

**WHEN ALARM SOUNDS - FUEL
TANK FILLED TO CAPACITY -
DO NOT OVERFILL**

SIGNAGE TO BE PLACED ON LID OF
FILL STATION.

2 FUEL SYSTEM SIGNAGE DETAIL



LEGEND (THIS DETAIL ONLY):

1. FUEL OIL QUALITY MAINTENANCE SUPPLY CONNECTION.
2. GAUGE PORT WITH SPILL CONTAINER.
3. FUEL OIL TRANSFER SUPPLY CONNECTION.
4. FUEL OIL FROM DAY TANK RETURN CONNECTION.
5. SPARE TANK FITTING.
6. SECONDARY TANK EMERGENCY VENT, SUPPLIED WITH AST, SIZED PER AST SIZE.
7. TANK ACCESS MANWAY, SUPPLIED WITH AST. PRIMARY TANK EMERGENCY VENT SUPPLIED WITH AST, SIZED PER AST SIZE.
8. TANK NORMAL VENT.
9. MAGNETOSTRICTIVE TANK LEVEL PROBE.
10. CLOCK GAUGE.
11. FUEL OIL QUALITY MAINTENANCE RETURN CONNECTION.
12. FUEL OIL FILL CONNECTION WITH OVERTILL PREVENTION VALVE.
13. LEVEL TRANSDUCER & FLOAT ASSEMBLY FOR FUEL OIL FILL LEVEL CONTROL SYSTEM.
14. INTERSTITIAL TANK LEAK SENSOR.

1 STORAGE TANK CONNECTION DETAIL

		CONSULTANTS:				ARCHITECT/ENGINEERS:		Project Number 15-423		Scale Scale: See Plans		Drawing Title MECHANICAL PIPING DETAILS		Project Title INSTALL FACILITY BACKUP GENERATOR		Project Number 651-16-101		Office of Facilities Management					
		<div><div><div><div><div></div><div>GUIDON</div><div>DESIGN</div></div><div><div>GUIDON DESIGN INC.</div><div>905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204</div><div>317.600.0386 WWW.GUIDONDESIGN.COM</div><div>SUSTAINABLE ARCHITECTURE + ENGINEERING</div></div></div></div></div>		<div><div><div><div><div></div><div>42889</div><div>3/15/17</div><div>INDIANA</div><div>REGISTERED PROFESSIONAL ENGINEER</div></div></div></div></div>				APOGEE Consulting Group, PA www.acg-pa.com Apogee Project # 2015-423						Approved Project Director		Location 1540 Spring Valley Dr., Huntington, WV 25704				Drawing Number MP401		Department of Veterans Affairs	
Revisions:		Date												Date 03/15/2017		<div>Checked ECB</div> <div>Drawn WLF</div>				Dwg. 20 of 29			

EQUIPMENT SCHEDULE																								
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	INLET SIZE		DISCHARGE SIZE		CIRCULATING FLUID								ELECTRICAL DATA					REMARKS		
					IN.	[MM]	IN.	[MM]	FLUID	FLOW		HEAD		NPSH AVAILABLE		TEMPERATURE		NOMINAL MOTOR		PHASE	VOLT		MCA	MOCP
										GPM	[L/s]	FT	[kPa]	FT	[kPa]	*F	[°C]	HP	[kW]					
FTP 1	YARD	MAIN TANKS	TRANSFER PUMP	PACKAGED	1.5	[38]	1	[25]	DIESEL		[]		[]		[]	93	[34]	2	[1.5]	3	208	---	---	NOTES 1,3
FQM 1	YARD	ALL TANKS	FUEL QUALITY	PACKAGED	2	[51]	2	[51]	DIESEL		[]		[]		[]	93	[34]	2	[1.5]	3	208	---	---	NOTES 1,3
FCF 1	YARD	FUEL OIL FILL	MAIN TANK FILL	PACKAGED	3	[76]	3	[76]	DIESEL		[]		[]		[]	93	[34]	5	[3.7]	3	208	---	---	NOTES 1,3
FCP 1	YARD	FUEL OIL TANKS	FUEL CONTROL PANEL	PACKAGED							[]		[]		[]			[0.]	1	120	---	---	NOTE 3	
NOTES: 1. FLOW RATE LISTED IS MINIMUM REQUIRED FLOW. 2. WITH OIL GUARD CONTROL SYSTEM TO PREVENT OPERATION AND SOUND ALARM ON DETECTION OF OIL ON THE WATER. 3. PACKAGED SYSTEM. EXACT REQUIRMENTS TO BE COORDINATED WITH EQUIPMENT USED.																								





[illegible]

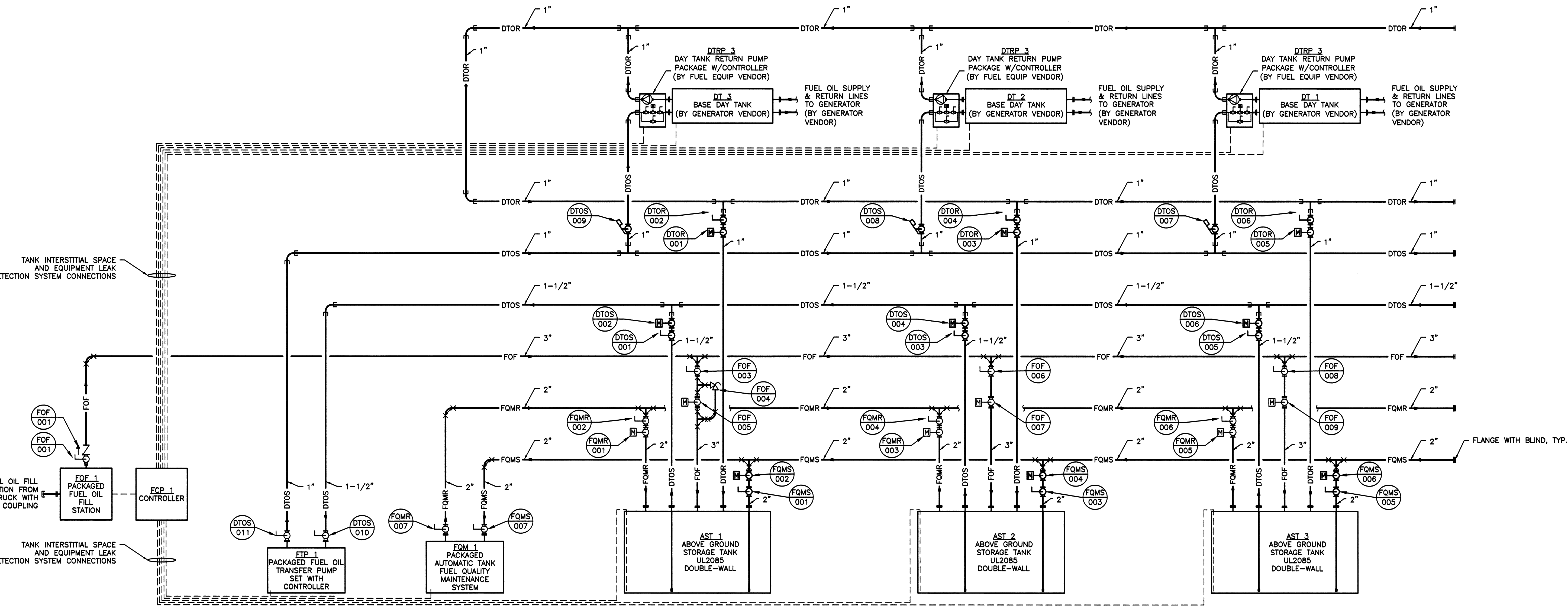
STANDBY GENERATOR PLANT • FUEL OIL TANKS SCHEDULE										
MARK	LOCATION	SYSTEM AND/OR SERVICE	QUANTITY	FUEL OIL TYPE NO	NOM CAPACITY		DIMENSIONS	ALARM SYSTEM	LEVEL INDICATOR	REMARKS
					GAL	[L]				
AST 1	YARD	MAIN STORAGE	1	DIESEL	12,000	[45000]	27'-11"x11'-4"wx8'0"H	PACKAGED	YES	NOTE 2, SEE DETAILS FOR CONSTRUCTION AND CONNECTIONS
AST 2	YARD	MAIN STORAGE	1	DIESEL	12,000	[45000]	27'-11"x11'-4"wx8'0"H	PACKAGED	YES	NOTE 2, SEE DETAILS FOR CONSTRUCTION AND CONNECTIONS
AST 3	YARD	MAIN STORAGE	1	DIESEL	12,000	[45000]	27'-11"x11'-4"wx8'0"H	PACKAGED	YES	NOTE 2, SEE DETAILS FOR CONSTRUCTION AND CONNECTIONS
DT 1	YARD	GENERATOR DAY TANK	1	DIESEL	1,300	[4900]	NOTE 1	PACKAGED	YES	NOTES 1, 2, 3
DT 2	YARD	GENERATOR DAY TANK	1	DIESEL	1,300	[4900]	NOTE 1	PACKAGED	YES	NOTES 1, 2, 3
DT 3	YARD	GENERATOR DAY TANK	1	DIESEL	1,300	[4900]	NOTE 1	PACKAGED	YES	NOTES 1, 2, 3

NOTES:

- TANK SIZE AND CAPACITY TO BE DETERMINED BY GENERATOR MANUFACTURER TO PROVIDE 8-HOUR RUN TIME AT 100% GENERATOR CAPACITY.
- LOCATION: ABOVE GROUND.
- SUPPLIED WITH GENERATOR PACKAGE.

VALVE SCHEDULE										
Valve Tag Number	System	Number	Function	Valve Type	Valve Size, NPS (in.)	Connection Type	Class Rating	Normal Position (NO or NC)	Actuator Type	Comments
FOF-001	FOF	001	ISOLATION	BALL	3	FLANGED	150	NO	HANDLE	Supplied by Contractor
FOF-002	FOF	002	CHECK	CHECK	3	FLANGED	150	N/A	SWMG	Supplied by Contractor
FOF-003	FOF	003	ISOLATION	BALL	3	FLANGED	150	NO	HANDLE	Supplied by Contractor
FOF-004	FOF	004	THERMAL RELIEF	3	FLANGED	150	NO	HANDLE	SPRING	Supplied by Fuel Handling Equipment Vendor
FOF-005	FOF	005	ISOLATION	BALL	3	FLANGED	150	NO	MOTOR	Supplied by Fuel Handling Equipment Vendor
FOF-006	FOF	006	ISOLATION	BALL	3	FLANGED	150	NO	HANDLE	Supplied by Contractor
FOF-007	FOF	007	ISOLATION	BALL	3	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
FOF-008	FOF	008	ISOLATION	BALL	3	FLANGED	150	NC	MOTOR	Supplied by Contractor
FOF-009	FOF	009	ISOLATION	BALL	3	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
FQMS-001	FQMS	001	ISOLATION	BALL	2	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
FQMS-002	FQMS	002	ISOLATION	BALL	2	FLANGED	150	NO	HANDLE	Supplied by Contractor
FQMS-003	FQMS	003	ISOLATION	BALL	2	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
FQMS-004	FQMS	004	ISOLATION	BALL	2	FLANGED	150	NC	MOTOR	Supplied by Contractor
FQMS-005	FQMS	005	ISOLATION	BALL	2	FLANGED	150	NO	MOTOR	Supplied by Fuel Handling Equipment Vendor
FQMS-006	FQMS	006	ISOLATION	BALL	2	FLANGED	150	NO	HANDLE	Supplied by Contractor
FQMS-007	FQMS	007	ISOLATION	BALL	2	FLANGED	150	NO	HANDLE	Supplied by Contractor
FQMR-001	FQMR	001	ISOLATION	BALL	2	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
FQMR-002	FQMR	002	ISOLATION	BALL	2	FLANGED	150	NO	HANDLE	Supplied by Contractor
FQMR-003	FQMR	003	ISOLATION	BALL	2	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
FQMR-004	FQMR	004	ISOLATION	BALL	2	FLANGED	150	NO	HANDLE	Supplied by Contractor
FQMR-005	FQMR	005	ISOLATION	BALL	2	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
FQMR-006	FQMR	006	ISOLATION	BALL	2	FLANGED	150	NC	HANDLE	Supplied by Contractor
FQMR-007	FQMR	007	ISOLATION	BALL	2	FLANGED	150	NO	HANDLE	Supplied by Contractor
DTOS-001	DTOS	001	ISOLATION	BALL	1-1/2	FLANGED	150	NO	HANDLE	Supplied by Contractor
DTOS-002	DTOS	002	ISOLATION	BALL	1-1/2	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
DTOS-003	DTOS	003	ISOLATION	BALL	1-1/2	FLANGED	150	NC	MOTOR	Supplied by Contractor
DTOS-004	DTOS	004	ISOLATION	BALL	1-1/2	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
DTOS-005	DTOS	005	ISOLATION	BALL	1-1/2	FLANGED	150	NO	HANDLE	Supplied by Contractor
DTOS-006	DTOS	006	ISOLATION	BALL	1-1/2	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
DTOS-007	DTOS	007	ISOLATION	FUSIBLE LINK	1	FLANGED	150	NO	LINK	Supplied by Contractor
DTOS-008	DTOS	008	ISOLATION	FUSIBLE LINK	1	FLANGED	150	NO	LINK	Supplied by Contractor
DTOS-009	DTOS	009	ISOLATION	FUSIBLE LINK	1	FLANGED	150	NO	LINK	Supplied by Contractor
DTOS-010	DTOS	010	ISOLATION	BALL	1-1/2	FLANGED	150	NO	HANDLE	Supplied by Contractor
DTOS-011	DTOS	011	ISOLATION	BALL	1	FLANGED	150	NO	HANDLE	Supplied by Contractor
DTOR-001	DTOR	001	ISOLATION	BALL	1	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
DTOR-002	DTOR	002	ISOLATION	BALL	1	FLANGED	150	NO	HANDLE	Supplied by Contractor
DTOR-003	DTOR	003	ISOLATION	BALL	1	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
DTOR-004	DTOR	004	ISOLATION	BALL	1	FLANGED	150	NO	HANDLE	Supplied by Contractor
DTOR-005	DTOR	005	ISOLATION	BALL	1	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
DTOR-006	DTOR	006	ISOLATION	BALL	2	FLANGED	150	NC	MOTOR	Supplied by Fuel Handling Equipment Vendor
ST-001	ST	001	ISOLATION	BALL	8	FLANGED	150	NO	HANDLE	Supplied by Contractor
ST-002	ST	002	ISOLATION	BALL	8	FLANGED	150	NO	MOTOR	Fail Closed, Supplied by Contractor

		CONSULTANTS:		<div></div>		ARCHITECT/ENGINEERS:		Project Number 15-423		Scale Scale: No Scale		Drawing Title MECHANICAL SCHEDULES		Project Title INSTALL. FACILITY BACKUP GENERATOR		Project Number 851-16-101		Office of Facilities Management					
		<div><p>GUIDON DESIGN INC. 906 N. CAPITOL AVE., SUITE 100 INDIANAPOLIS, IN 46204 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING</p></div>				<div><p>APOGEE Consulting Group, PA www.acg-pa.com Apogee Project # 2015-423</p></div>						Approved Project Director		Location 1540 Spring Valley Dr., Huntington, WV 25704		Drawing Number MP501							
Revisions		Date												Date 03/15/2017		Checked ECB		Drawn WLF		Dwg 21 of 29		 Department of Veterans Affairs	



1 FUEL OIL PIPING SCHEMATIC
MP601 SCALE: NOT TO SCALE (REFERENCE SHEET MP100)

100% CONSTRUCTION DOCUMENTS

		CONSULTANTS:				ARCHITECT/ENGINEERS:		Project Number 15-423		Scale Scale: No Scale		Drawing Title PIPING SCHEMATICS		Project Title INSTALL FACILITY BACKUP GENERATOR		Project Number 851-16-101		Office of Facilities Management	
		<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div>GUIDON</div><div>DESIGN</div><div>905 N. CAPITOL AVE, SUITE 100 INDIANAPOLIS, IN 46204 317.680.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING</div></div></div>		<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div>42889</div><div>3/15/17</div><div>PROFESSIONAL ENGINEER</div></div></div>		<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div>APOGEE</div><div>Consulting Group, PA</div><div>www.aog-pa.com</div><div>Apogee Project # 2015-423</div></div></div>		Approved Project Director		Location 1540 Spring Valley Dr., Huntington, WV 25704		Drawing Number MP601		Dwg. 22 of 29					
Date 03/15/2017												Checked ECB		Drawn WLF					
Revisions:		Date																<div><div></div><div>Department of Veterans Affairs</div></div>	