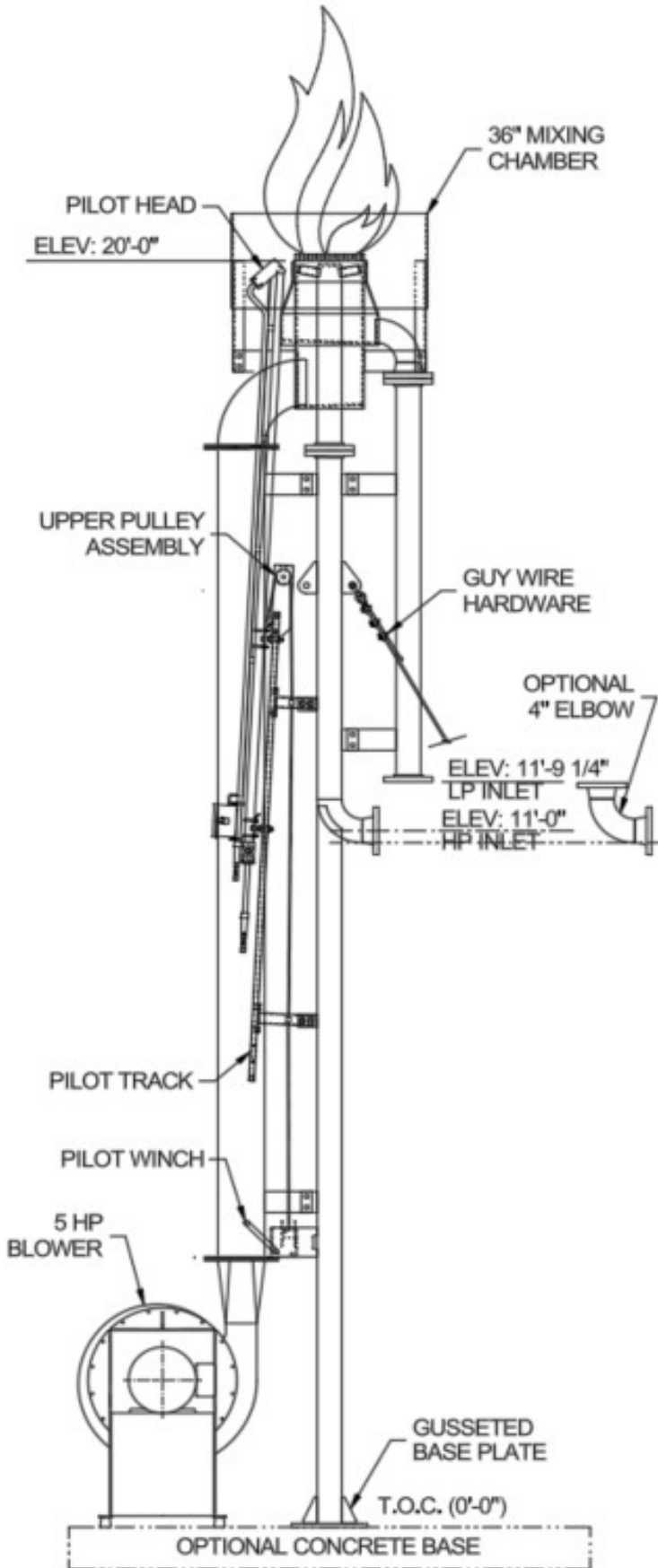
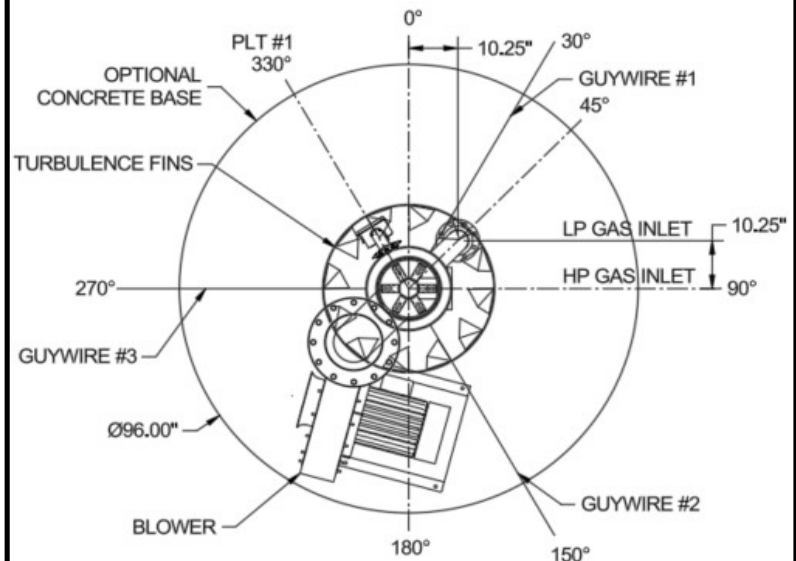


FS-AA-0412 High Efficiency Dual Stream Air Flare

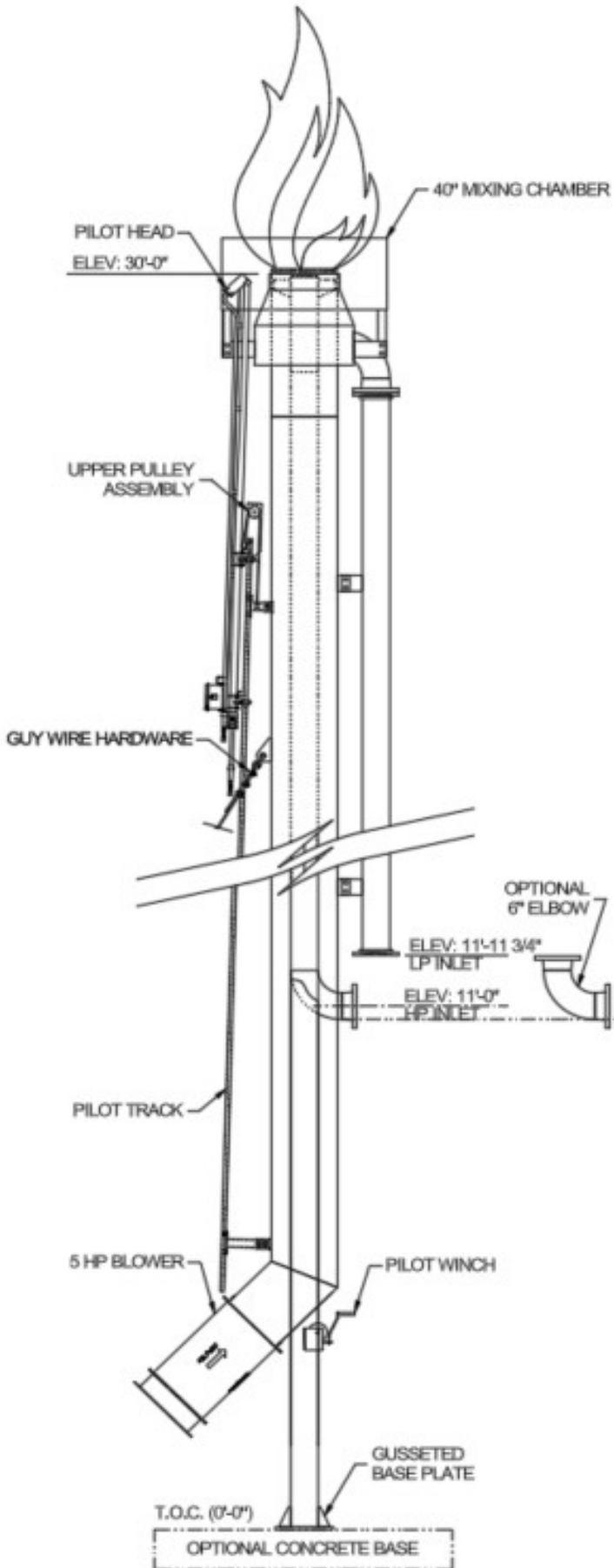


DESIGN DATA

Design Conditions	Max Flow Rate HP (MMSCFD):	5
	Maximum Available Inlet Pressure (PSIG):	50
	HP Gas MW:	23
	Temp of Gas (F):	100
	LHV (BTU/SCF):	1350
	Specific Gravity:	0.82
	Max Flow Rate LP (MMSCFD):	0.6
	Available Inlet Pressure (OZ/IN ²):	4
	LP Gas MW:	44
	Temp of Gas (F):	100
	LHV (BTU/SCF):	2350
	Specific Gravity:	1.57
	Design Wind Speed (MPH):	120
	Design Earthquake Conditions:	SEI 7-22
Results	Freestanding:	No
	Δ P of HP Tip @ Full Flow (PSIG):	49
	Δ P of LP Tip @ Full Flow (Oz/In2):	3.3
	HP Radiation at Grade (W/ Solar):	800
	LP Radiation at Grade (W/ Solar):	700
	Total Radiation at Grade (W/ Solar):	1495
	HP Waste Gas Inlet:	4"
	LP Waste Gas Inlet:	4"
	Tip Outer Diameter (In):	13.75
	Overall Stack Height (Ft):	20
	Blower HP:	2
	Combustion Efficiency (%):	>99%
	Number of Pilots:	1
	Pilot Gas Consumption/Per Pilot (SCFH):	65

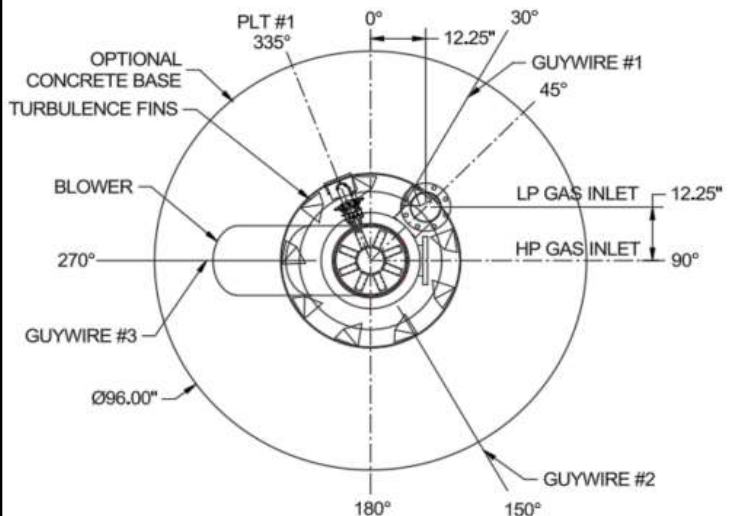


FS-AA-0616 High Efficiency Dual Stream Air Flare

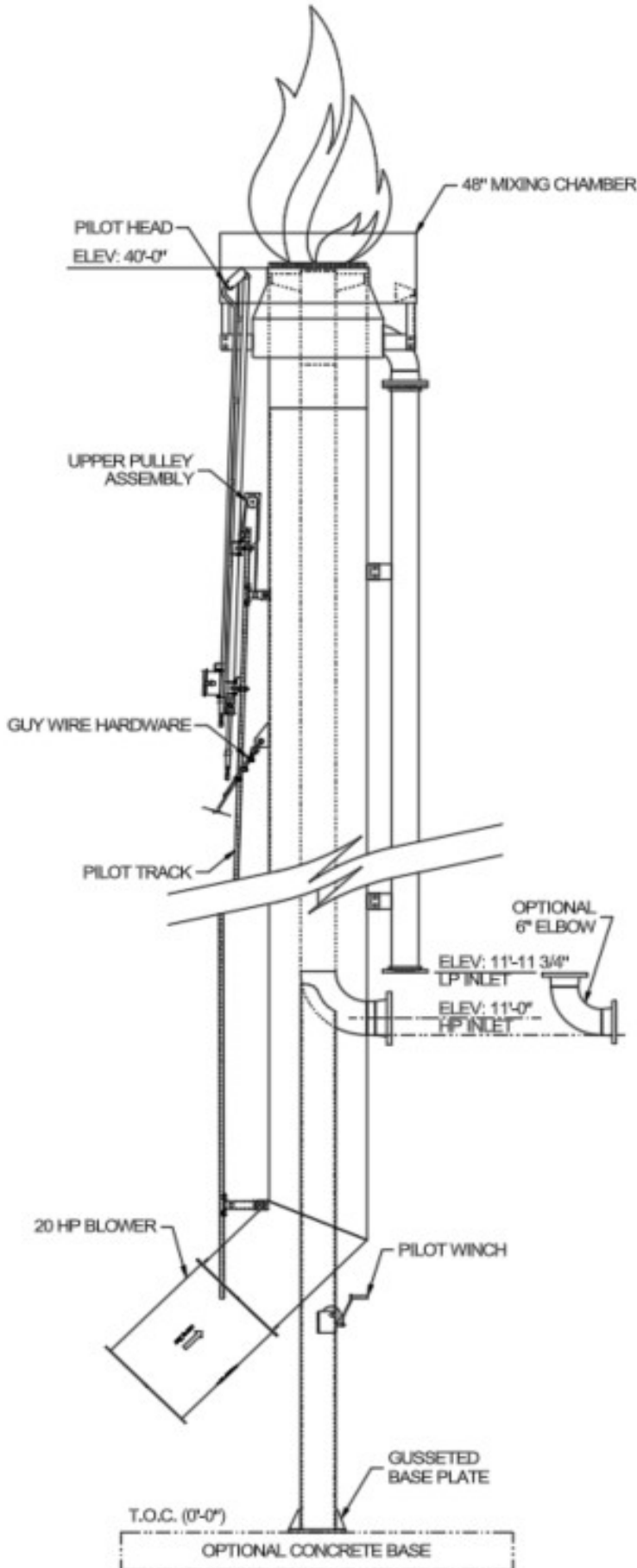


DESIGN DATA

Design Conditions	Max Flow Rate HP (MMSCFD):	10
	Maximum Available Inlet Pressure (PSIG):	50
	HP Gas MW:	23
	Temp of Gas (F):	100
	LHV (BTU/SCF):	1350
	Specific Gravity:	0.82
	Max Flow Rate LP (MMSCFD):	0.75
	Available Inlet Pressure (OZ/IN ²):	4
	LP Gas MW:	44
	Temp of Gas (F):	100
	LHV (BTU/SCF):	2350
	Specific Gravity:	1.57
	Design Wind Speed (MPH):	120
	Design Earthquake Conditions:	SEI 7-22
	Freestanding:	No
Results	ΔP of HP Tip @ Full Flow (PSIG):	40
	ΔP of LP Tip @ Full Flow (Oz/In ²):	3.3
	HP Radiation at Grade (W/ Solar):	885
	LP Radiation at Grade (W/ Solar):	615
	Total Radiation at Grade (W/ Solar):	1425
	HP Waste Gas Inlet:	6"
	LP Waste Gas Inlet:	6"
	Tip Outer Diameter (In):	17
	Overall Stack Height (Ft):	30
	Blower HP:	5
	Combustion Efficiency (%):	>99%
	Number of Pilots:	1
	Pilot Gas Consumption/Per Pilot (SCFH):	65



FS-AA-0824 High Efficiency Dual Stream Air Flare



DESIGN DATA

Design Conditions	Max Flow Rate HP (MMSCFD):	21.25
	Maximum Available Inlet Pressure (PSIG):	50
	HP Gas MW:	23
	Temp of Gas (F):	100
	LHV (BTU/SCF):	1350
	Specific Gravity:	0.82
	Max Flow Rate LP (MMSCFD):	1.1
	Available Inlet Pressure (OZ/IN ²):	4
	LP Gas MW:	44
	Temp of Gas (F):	100
	LHV (BTU/SCF):	2350
	Specific Gravity:	1.57
	Design Wind Speed (MPH):	120
	Design Earthquake Conditions:	SEI 7-22
	Freestanding:	No
Results	ΔP of HP Tip @ Full Flow (PSIG):	28
	ΔP of LP Tip @ Full Flow (Oz/In ²):	3.3
	HP Radiation at Grade (W/ Solar):	950
	LP Radiation at Grade (W/ Solar):	550
	Total Radiation at Grade (W/ Solar):	1500
	HP Waste Gas Inlet:	8"
	LP Waste Gas Inlet:	6"
	Tip Outer Diameter (In):	25
	Overall Stack Height (Ft):	40
	Blower HP:	20
	Combustion Efficiency (%):	>99%
	Number of Pilots:	2
	Pilot Gas Consumption/Per Pilot (SCFH):	65

