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REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
0	INITIAL WORKING RELEASE FOR APPROVAL	5-29-25	RGP
1	AS-BUILT	11-21-25	CHC

TERMINAL POINT SCHEDULE					
T.P.	DESCRIPTION	MEDIA	SIZE	CONNECTION	MATERIAL
A	PLENUM INLET	VOC LADEN AIR	24"	FLANGED	CARBON STEEL
B	FUEL INLET	NATURAL GAS	1-1/2"	FNPT	CARBON STEEL
C	COMPRESSED AIR INLET	COMPRESSED AIR	3/4"	FNPT	CARBON STEEL
D	EXHAUST STACK DRAIN	WATER	2"	MNPT W/ CAP	CARBON STEEL

PROCESS DESIGN CONDITIONS	
PROCESS FLOW	6,000 scfm
PROCESS FLOW TEMPERATURE	122 °F
MAXIMUM VOC LOADING	UP TO 5,830 PPMV OF ETHANOL
DESTRUCTION EFFICIENCY	98% OR 20PPM/AS C3 (WHICH EVER IS LESS STRINGENT)
THERMAL EFFICIENCY	95%
PROCESS VOCs	ETHANOL

UTILITIES	
NATURAL GAS	2,400 SCFH @ 5 PSIG
POWER	460V/60Hz/3PH
COMPRESSED AIR	10 CFM @ 80 PSIG MINIMUM (-40 °F DEWPOINT)

LEGEND

MEASURED VARIABLE	SUCCESSING LETTERS
A ANALYSIS	A ALARM
B BURNER	C CONTROLLER
C SPARK	D DIFFERENTIAL
F FLOW	E PRIMARY ELEMENT
H HAND	H HIGH
I CURRENT	I INDICATOR
K TIME	K IGNITER
M MOTOR	L LIGHT
L LEVEL	L LOW
P PRESSURE	P POINT
S SOLENOID	R RECORDER
T TEMPERATURE	S SWITCH
X ACTUATOR	T TRANSMITTER
Z POSITION	V VALVE
	Y BLADE

MISCELLANEOUS	
	CENTRIFUGAL FAN
	COMPRESSED AIR
	PNEUMATIC SIGNAL
	PROCESS DUCTWORK
	ELECTRICAL WIRING
	ELECTRIC ANALOG SIGNAL
	ELECTRIC BINARY SIGNAL
	FLEX HOSE
	CleanCap SCOPE LINE

VALVE BODIES	
	VALVE NORMALLY OPEN or UNSPECIFIED
	VALVE NORMALLY CLOSED
	BALL VALVE
	BUTTERFLY VALVE
	DAMPER
	ORIFICE VALVE
	PRESSURE REGULATOR (SELF CONTAINED)

OPERATORS	
	ELECTRIC MOTOR
	SOLENOID
	MANUAL
	MECHANICAL LINK

INSTRUMENT / FUNCTION	
	PANEL MOUNTED INSTRUMENT
	LOCALLY MOUNTED INSTRUMENT
	MOUNTED INSIDE PANEL
	PROGRAMMABLE LOGIC CONTROL
	BURNER MANAGEMENT SYSTEM (BMS)
	ALARM
	BMS INTERLOCK

- NOTES:
- NEMA 3R CONTROL PANEL TO BE LOCATED BY CUSTOMER IN A SAFE LOCATION.
 - EXHAUST STACK SHALL BE FREE STANDING.
 - ADDITIONAL THERMAL INSULATION FOR PERSONAL PROTECTION TO BE DETERMINED BY END USER.
 - ELEVATION: 30' FASL
 - REMOTE HMI PANEL OPTIONAL
 - PANEL TO BE UL.
 - PLC TO BE COMPACT LOGIX.
 - CALIBRATED TO ETHYLENE -SETPOINT 25% LFL / WARN 35% / SD 40%

INTERFACING CONTACTS:	
	RTO READY
	RTO ONLINE
	ALARM
	REQUEST TO CONNECT

DRAWING STATUS	DATE	BY	MAT'L:	DATE:	CUSTOMER:
PRELIMINARY	.	.	N / A	5/29/25	
X FOR APPROVAL	05-29-25	RGP	WEIGHT	SCALE:	
APPROVED FOR FAB	.	.	N / A	NTS	
X AS BUILT	11-21-25	CHC	TOLERANCES	DRAWN BY:	
AS FIELD MODIFIED	.	.	N / A	RGP	
			SHT 1 OF 1	CHECKED BY:	
				CHC	

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PROJECT	DRAWING	REV	SIZE
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