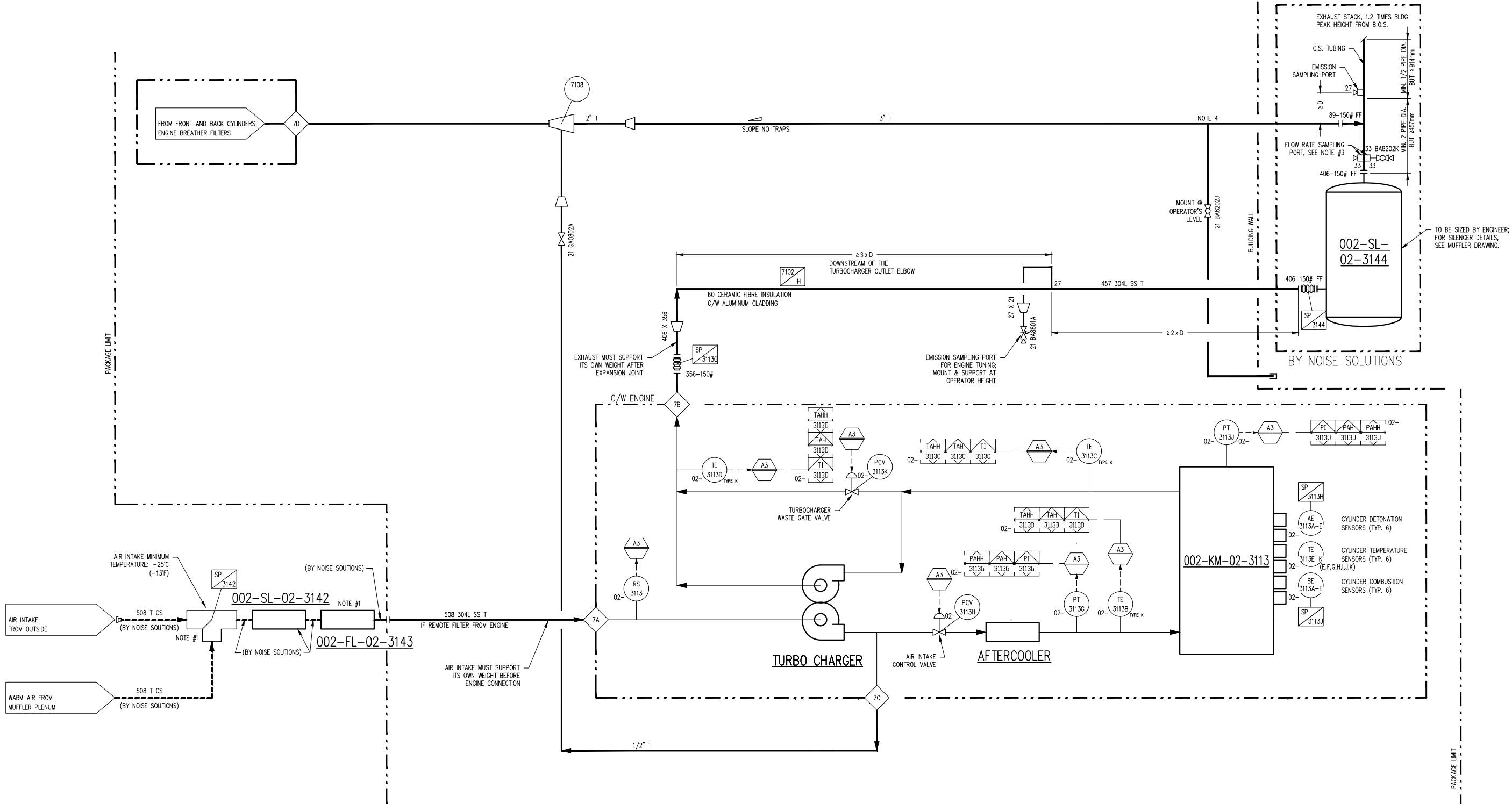002-SL-02-3142
AIR INTAKE SILENCER
MFG: NOISE SOLUTION INC
MODEL: CAEAVXX082078054
DESIGN FLOW: 6000 SCFM
PRESSURE DROP: 1.2 IN H20

002-FL-02-3143
AIR FILTER
MFG: CATERPILLAR
STYLE: STANDARD DUTY, DOUBLE
ELEMENT HOUSING

002-SL-02-3144
EXHAUST SILENCER
MFG: NOISE SOLUTION INC
MODEL: 2ERON 20,000 PLUS EESW2XP200018XXX
ORIENTATION: VERTICAL
DIMENSIONS: 1829mm (72") OD X 6096mm (240") LENGTH
CONNECTION: 457mm (18")/457mm (18") IN/OUT
WEIGHT: 6123 KG (13,500 LBS)
BACK PRESSURE: 1.98 INCHES H_2O

EXHAUST STACK, 1.2 TIMES BLDG
PEAK HEIGHT FROM B.O.S.

C.S. TUBING

EMISSION
SAMPLING PORT

FROM FRONT AND BACK CYLINDERS
ENGINE BREATHER FILTERS

7D

7108

2" T

3" T

SLOPE NO TRAPS

NOTE 4

89-150# FF

FLOW RATE SAMPLING
PORT, SEE NOTE #3

33 BA8202K

406-150# FF

21 GA0802A

MOUNT @
OPERATOR'S
LEVEL

21 BA8202J

BUILDING WALL

002-SL-
02-3144

TO BE SIZED BY ENGINEER;
FOR SILENCER DETAILS,
SEE MUFFLER DRAWING.

≥3 x D
DOWNSTREAM OF THE
TURBOCHARGER OUTLET ELBOW

7102
H

27

457 304L SS T

406-150# FF

60 CERAMIC FIBRE INSULATION
C/W ALUMINUM CLADDING

27 X 21

21 BA8601A

SP
3144

≥2 x D

BY NOISE SOLUTIONS

406 X .356

SP
3113G

356-150#

EXHAUST MUST SUPPORT
ITS OWN WEIGHT AFTER
EXPANSION JOINT

EMISSION SAMPLING PORT
FOR ENGINE TUNING;
MOUNT & SUPPORT AT
OPERATOR HEIGHT

C/W ENGINE

7B

TAHH
3113D
TAH
3113D
TI
3113D

A3

PCV
3113K

TAHH
3113C
TAH
3113C
TI
3113C

A3

TE
3113C
TYPE K

PT
3113J
02-

A3

02-

P1
3113J
PAH
3113J
PAHH
3113J

02-

TE
3113D
02-
TYPE K

A3

TURBOCHARGER
WASTE GATE VALVE

TAHH
3113B
TAH
3113B
TI
3113B

SP
3113H

PAHH
3113G
PAH
3113G
P1
3113G

A3

A3

002-KM-02-3113

AE
3113A-E
CYLINDER DETONATION
SENSORS (TYP. 6)

AIR INTAKE MINIMUM
TEMPERATURE: -25°C
(-13°F)

SP
3142

(BY NOISE SOLUTIONS)

002-SL-02-3142

NOTE #1

RS
3113
02-

A3

PCV
3113H
02-

PT
3113G
02-

TE
3113B
02-
TYPE K

TE
3113E-K
CYLINDER TEMPERATURE
SENSORS
(E,F,G,H,J,K)

BE
3113A-E
CYLINDER COMBUSTION
SENSORS (TYP. 6)

AIR INTAKE
FROM OUTSIDE

508 T CS
(BY NOISE SOLUTIONS)

NOTE #1

002-FL-02-3143

(BY NOISE SOLUTIONS)

508 304L SS T
IF REMOTE FILTER FROM ENGINE

7A

TURBO CHARGER

AIR INTAKE
CONTROL VALVE

AFTERCOOLER

SP
3113J

WARM AIR FROM
MUFFLER PLENUM

508 T CS

(BY NOISE SOLUTIONS)

AIR INTAKE MUST SUPPORT
ITS OWN WEIGHT BEFORE
ENGINE CONNECTION

7C

1/2" T

PACKAGE LIMIT

NOTE:
1. WARM AIR MIXING BOX AND FILTER BOX PROVIDED BY EFX. INTERCONNECT PIPING BY NOISE SOLUTIONS.
2. SAMPLING POINT TUBING AND VALVE SHALL BE POST MOUNTED.
3. TWO FLOW RATE SAMPLING PORTS SHALL BE PERPENDICULAR.
4. RUN CRANKCASE VENT INSIDE AS CLOSE AS POSSIBLE TO THE SILENCER.

FINAL
AS BUILT
NAME C.SMITH   DATE JAN 02/14

REV	DESCRIPTION	DATE	BY	APR
3	FINAL AS BUILT	JAN 02/14	CS	SG
2	FINAL AS BUILT	NOV 13/13	AR	SG
1	ISSUED FOR CONSTRUCTION	JUL 03/13	CS	SG
0	ISSUED FOR CONSTRUCTION	APR 19/13	AT	SG
B	ISSUED FOR HAZOP	MAR 08/13	AT	SG
A	ISSUED FOR CUSTOMER APPROVAL	FEB 15/13	AT	SG

DATE JAN 23/13   SCALE NTS
DRAWN BY A.HAMMOND   CHECKED BY S.GURI   APPROVED BY B.MINSHULL
PROJECT MANAGER B.MINSHULL   PROJECT ENGINEER S.GURI
CUST PO 4100000964
APEGGA PERMIT No: P8651   OPER. CODE   WORK ORDER 31979-02

DEVON CANADA
FERRIER CPF DEEP CUT FEED
CATERPILLAR G3606LE
ARIEL JGD/4-1 SWEET

ENERFLEX
Calgary, Alberta,
Canada

P & I DIAGRAM
AIR/EXHAUST SYSTEM

DWG NO 31979-02-117   SHT 1   REV 3

Doc # 31979-02-C02-117-001
WP SDR Code A1/F15