

DWG. NO.	1900-0001	SH	1	1
REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APPD.
	A	PER DCN #1900-0001A	6-21-02	DMB
	B	PER DCN #1900-0001B	9-12-02	ELM
	C	PER DCN #1900-0001C	11-20-02	ELM
	D	NO CHANGE THIS SHEET	5-24-05	ELM


DEFINITIONS:

- H = DOWNSTREAM DISTANCE BETWEEN CENTER LINES OF DOWNSTREAM AND UPSTREAM TRANSDUCERS. (IN INCHES)
- J = THICKNESS OF OUTER STACK WALL. (IN INCHES)
- K = THICKNESS OF STACK LINER OR INNER STACK WALL (WHERE APPLICABLE). (IN INCHES)
- L = LONGER OF TWO DISTANCES FROM BACK OF FLANGE TO OUTER STACK WALL. (IN INCHES)
- L3 = MAJOR AXIS OF ELLIPTICAL HOLE IN STACK REQUIRED FOR INSTALLING MOUNTING TUBE. (IN INCHES)
- M = TOTAL DISTANCE FROM OUTSIDE OF STACK TO BEGINNING OF INNER DIAMETER. (IN INCHES)
- MPC = MOUNTING PLATE CLEARANCE. (5" RECOMMENDED)
- N = DISTANCE FROM THE UPSTREAM TRANSDUCER MOUNTING TUBE TO THE END OF THE LAST UPSTREAM BEND IN A STACK OR DUCT. (IN FEET)
- P = DISTANCE FROM THE DOWNSTREAM TRANSDUCER MOUNTING TUBE TO THE BEGINNING OF THE NEXT DOWNSTREAM BEND IN A STACK OR DUCT. (IN FEET)
- R = THICKNESS OF ANNULAR SPACE (WHERE APPLICABLE) SEE NOTE 10
- T = LENGTH OF TUBE TO WHICH FLANGE IS MOUNTED. (IN INCHES)
- X = DISTANCE BETWEEN THE POINTS WHERE THE CENTER LINE OF THE MOUNTING TUBE INTERSECTS THE INSIDE & OUTSIDE OF THE STACK WALL. (IN INCHES)
- Y = 6" FOR D=10 FT OR GREATER, 3" FOR D=LESS THAN 10 FT
- Ø = ANGLE BETWEEN CENTER LINES OF MOUNTING TUBES AND AN INTERSECTING AXIS NORMAL TO THE DIRECTION OF FLOW.
- 12+CL = FOR THE UPSTREAM TRANSDUCER, THIS REFERS TO THE MINIMUM VERTICAL CLEARANCE REQUIRED FROM THE BOTTOM JUNCTURE OF THE MOUNTING TUBE AND STACK TO THE ACCESS CATWALK (OR ANY OTHER INTERVENING OBSTRUCTION). FOR THE DOWNSTREAM TRANSDUCER, THIS REFERS TO THE MINIMUM VERTICAL CLEARANCE REQUIRED FROM THE TOP JUNCTURE OF THE MOUNTING TUBE AND STACK TO THE NEAREST DOWNSTREAM OBSTRUCTION. (IN INCHES)
- HRC = MINIMUM HORIZONTAL CLEARANCE FROM THE PURGE NOZZLE ASSEMBLY TO RAILINGS OR OTHER OBSTRUCTIONS. (IN INCHES)

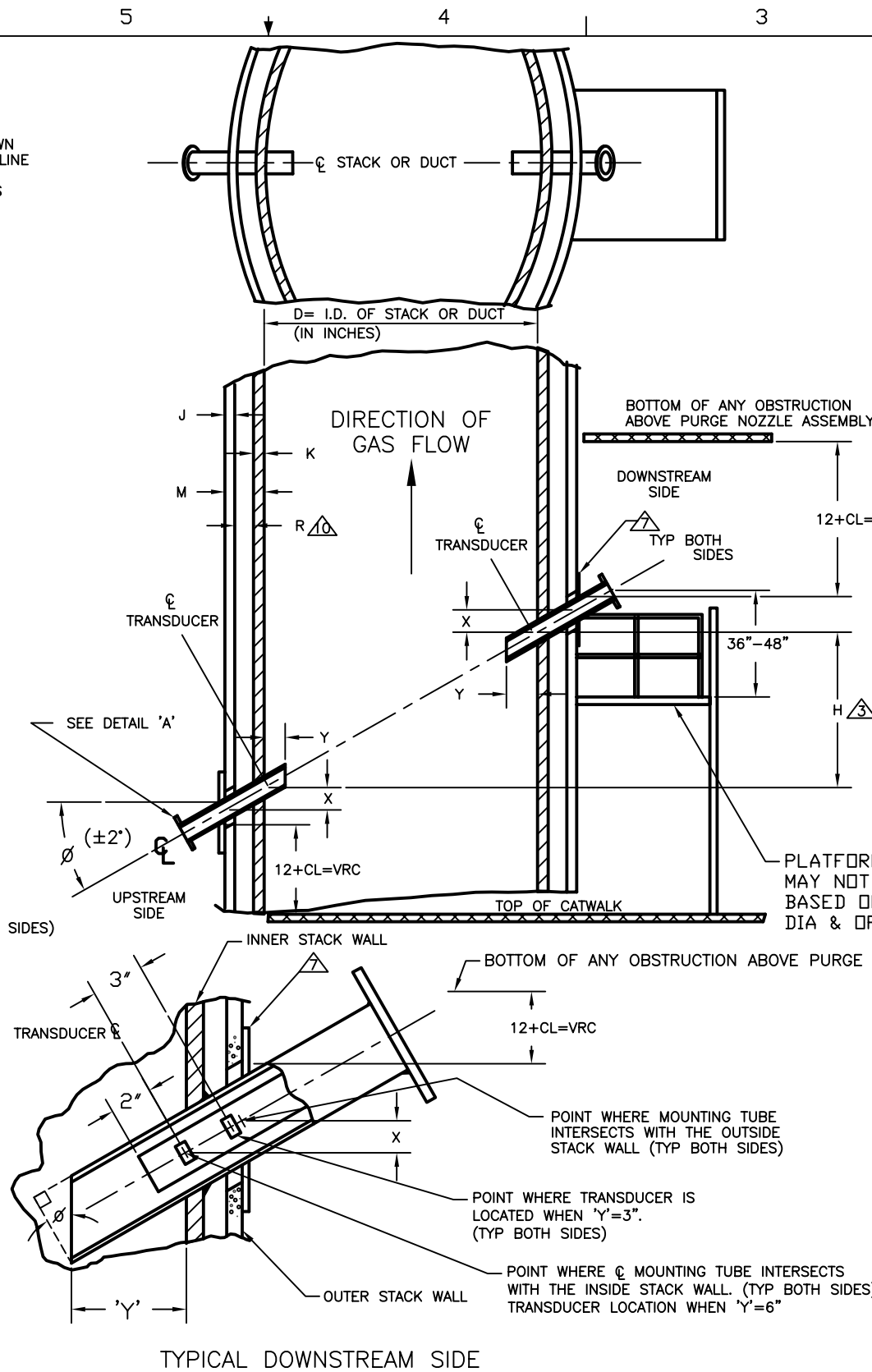
ORDER IN WHICH TO PERFORM CALCULATIONS:

- 1 DETERMINE 'D' FROM STACK OR DUCT DWG'S
- 2 DETERMINE 'H' FROM NOTE 4.
- 3 CALCULATE 'Ø'; $Ø = \tan^{-1} (H/D)$
- 4 DETERMINE 'J', 'R' AND 'K' FROM STACK OR DUCT DWG'S
- 5 CALCULATE 'M'; $M = J+K+R$
- 6 CALCULATE 'X'; $X = M (\tan Ø)$ FOR ANNULAR SPACE ONLY
- 7 VERIFY THAT 'N' AND 'P' SATISFY THE CONDITIONS DESCRIBED IN NOTES.
- 8 DETERMINE 'MPC' (5" RECOMMENDED).
- 9 CALCULATE 'L'; $L = (MPC/\cos Ø) + (6.125) (\tan Ø)$
- 10 DETERMINE 'Y' FROM DEFINITIONS ABOVE.
- 11 CALCULATE 'T'; $T = L + [(M+Y)/\cos Ø]$
- 12 CALCULATE 'L3'; $L3 = 4.0625/\cos Ø$
- 13 CALCULATE 'CL';
 $CL = \sin Ø [(2L+15) + (M/\cos Ø)] - (2/\cos Ø) + 4.$
- 14 VERIFY THAT ADEQUATE CLEARANCES EXIST. BOTH CLEARANCES (VRC AND HRC) ARE NECESSARY FOR EASY REMOVAL AND INSERTION OF THE PURGE NOZZLE ASSEMBLIES (PROBES).
- 15 CALCULATE 'HRC'; $HRC = \cos Ø (L+T+16)$
- 16 CALCULATE 'VRC'; $VRC = 12+CL$

SEE SHEET 2 FOR METRIC

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			USED ON		 TELEDYNE INSTRUMENTS Monitor Labs A Teledyne Technologies Company	
FRACTIONS	DECIMALS	ANGLES	DASH NO	NEXT ASSEMBLY	THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELEDYNE INSTRUMENTS AND IS FURNISHED UNDER THE EXPRESS CONDITION THAT THE INFORMATION CONTAINED HEREIN WILL NOT BE REPRODUCED, REPERFORATED, REPRODUCED OR DISSEMINATED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE EVALUATION THEREOF WITHOUT THE PRIOR WRITTEN CONSENT OF TELEDYNE INSTRUMENTS.	
0 TO 4 31/32	.001	30°-90°	-01	UF150		
4 TO 8 31/32	.002					
8 AND UP 31/32	.005					
ALL DIMENSIONS ARE IN INCHES DO NOT SCALE THIS DRAWING						
AUTHORIZATION					TITLE	
	BY	DATE			ULTRAFLOW 150	
DRAWN	EAS	10-8-01	MAT'L.		FLANGE INSTALLATION	
CHECKED	EAS	Mar-02			(ENGLISH)	
DESIGNED	EAS	Oct-01	JIG NO.		FINISH	
ENGINEERED	ELM	4-2-02			DRAWING NO.	
PRODUCTION	PD	4-2-02	SCALE		D 1900-0001	
G.A.	GRG	4/2/02	SHEET			
			NTS 1 OF 2		D	

PROJECTION



TYPICAL DOWNSTREAM SIDE

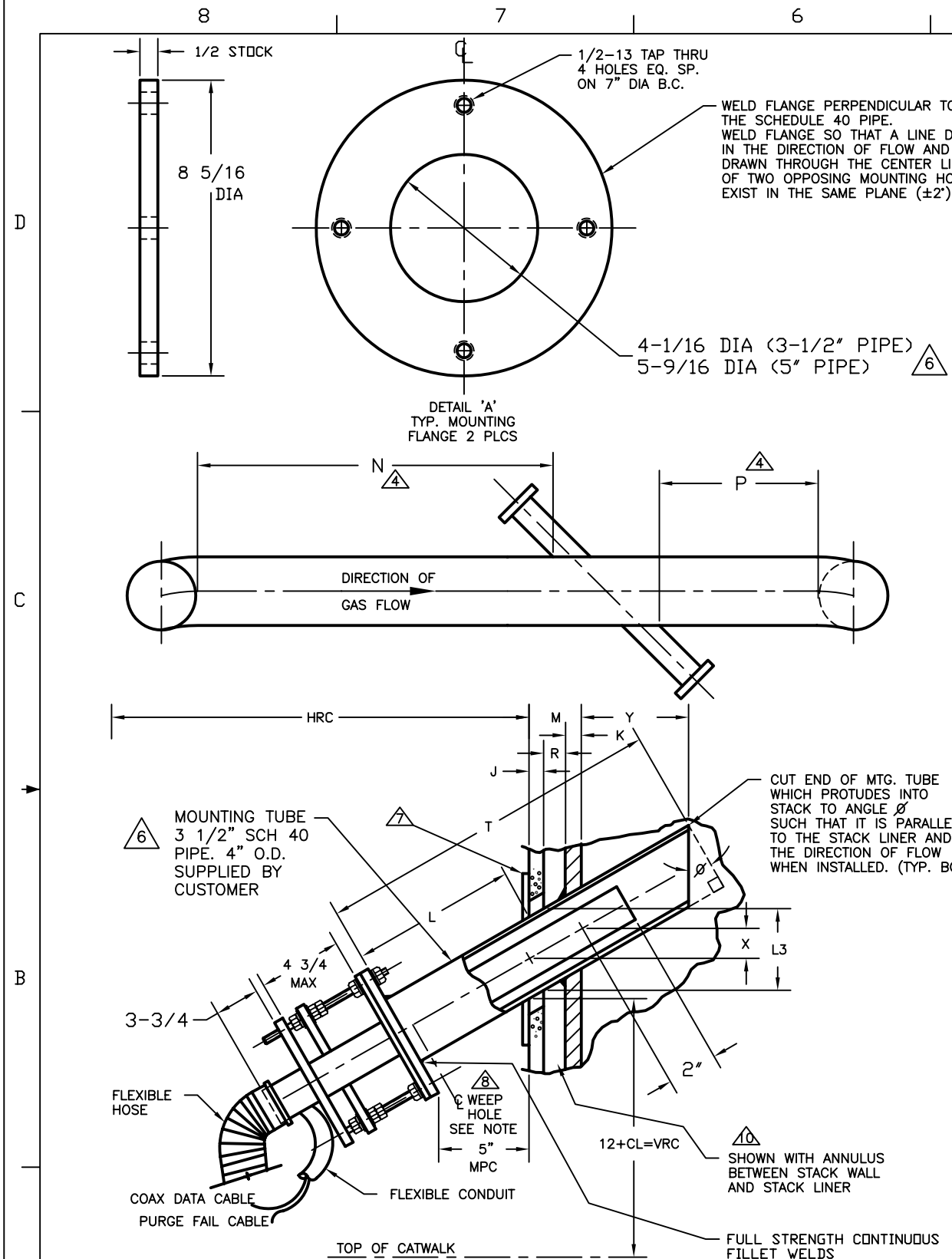
TYPICAL UPSTREAM SIDE

NOTES

1. SEE DRAWING 1900-0006 FOR X-PATTERN.
2. CUSTOMER MUST PROVIDE SAFE ACCESS PLATFORMS, CATWALKS AND LADDERS TO EACH TRANSDUCER FOR INSTALLATION PERSONNEL.
3. FOR $D \geq 5'$: $5' \leq H \leq D$
FOR $D < 5'$: $H=5'$
FOR LONG RANGE TRANSDUCER OPTIONS OR OFFSETS $< 5'$ CONSULT FACTORY.
FOR H FOR X-PATTERN, SEE DRAWING 1900-0006.
FOR MOUNTING ANGLE $< 45^\circ$ IN APPLICATIONS WITH MULTIPLE STACK INLETS OR WITH CONDITIONS
4. NOT MET, X-PATTERN MIGHT BE REQUIRED.
(CONSULT FACTORY)
4. N = DISTANCE FROM THE UPSTREAM MOUNTING TUBE TRANSDUCER TO THE END OF THE LAST BEND IN A STACK OR DUCT
 $N \geq 8 \times \text{DIA. OF STACK. (OTHERWISE CONSULT FACTORY.)}$
P = DISTANCE FROM THE DOWNSTREAM TRANSDUCER TO THE NEXT BEND IN A STACK OR DUCT.
 $P \geq 2 \times \text{DIA. OF STACK. (OTHERWISE CONSULT FACTORY.)}$
5. TRANSDUCER FLANGES SHOULD BE MOUNTED SO THAT ϕ OF FLANGES IS PERPENDICULAR TO THE PLANE OF THE LAST UPSTREAM BEND.

6. 3-1/2" SCH 40 PIPE WILL BE USED IN MOST CASES. PIPE MATERIAL IS TBD BY CUSTOMER.
IN RARE CASES EXTENDED RANGE TRANSDUCERS ARE REQUIRED, THEN 5" SCH 40 PIPE MUST BE USED.
7. IF AN INNER LINER EXISTS AND THE MOUNTING TUBE IS ATTACHED TO THE INNER STACK LINING, AN OPENING AROUND THE MOUNTING TUBE MUST BE PROVIDED ON THE OUTER STACK WALL. THIS OPENING MUST BE LARGE ENOUGH TO ACCOMMODATE FOR MOVEMENT BETWEEN OUTER STACK WALL AND INNER LINER. CUSTOMER MUST PROVIDE, IF NECESSARY, A PROTECTIVE RUBBER BOOT OR OTHER SAFE FLEXIBLE SEALING TECHNIQUES AROUND OPENING (TYP. BOTH SIDES)

8. FOR STACK CONDITIONS HAVING FLOW WITH HIGH LEVELS OF CONDENSATION, A WEEP HOLE LOCATED AT THE BASE OF THE UPSTREAM MOUNTING TUBE MAY BE NECESSARY TO ALLOW FOR DRAINAGE. CONSULT MLI.
9. THE ULTRAFLOW CALIBRATION IS AFFECTED BY THE ACCURACY OF 'L', 'H' AND 'X'. STAYING WITHIN TOLERANCE FOR THESE DIMENSIONS WILL MINIMIZE THE NEED FOR AND DEGREE OF FIELD RECALIBRATION.
10. IF ANNULAR SPACE EXCEEDS 4' CONSULT MLI FOR OTHER PRACTICAL INSTALLATION METHODS.

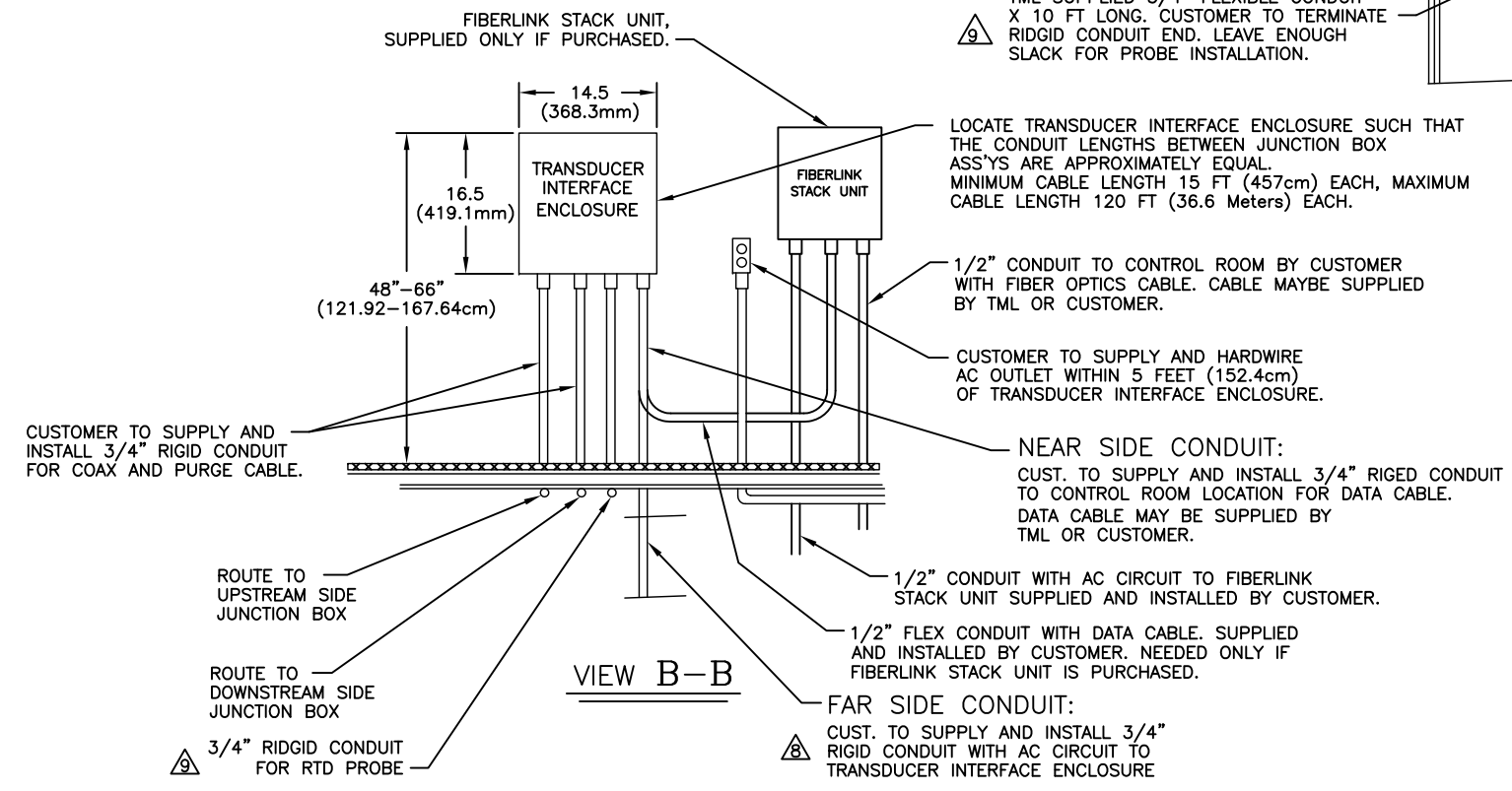
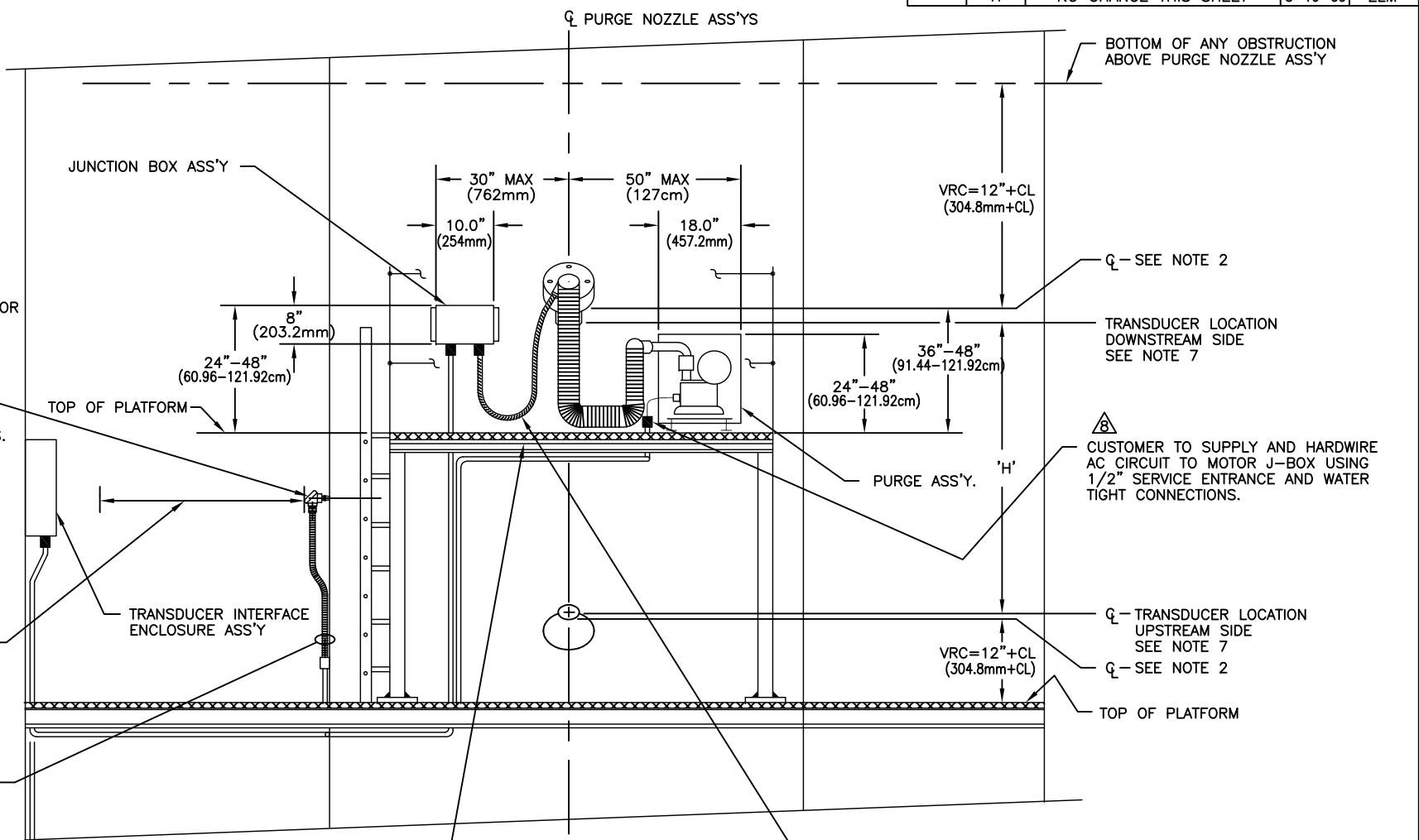
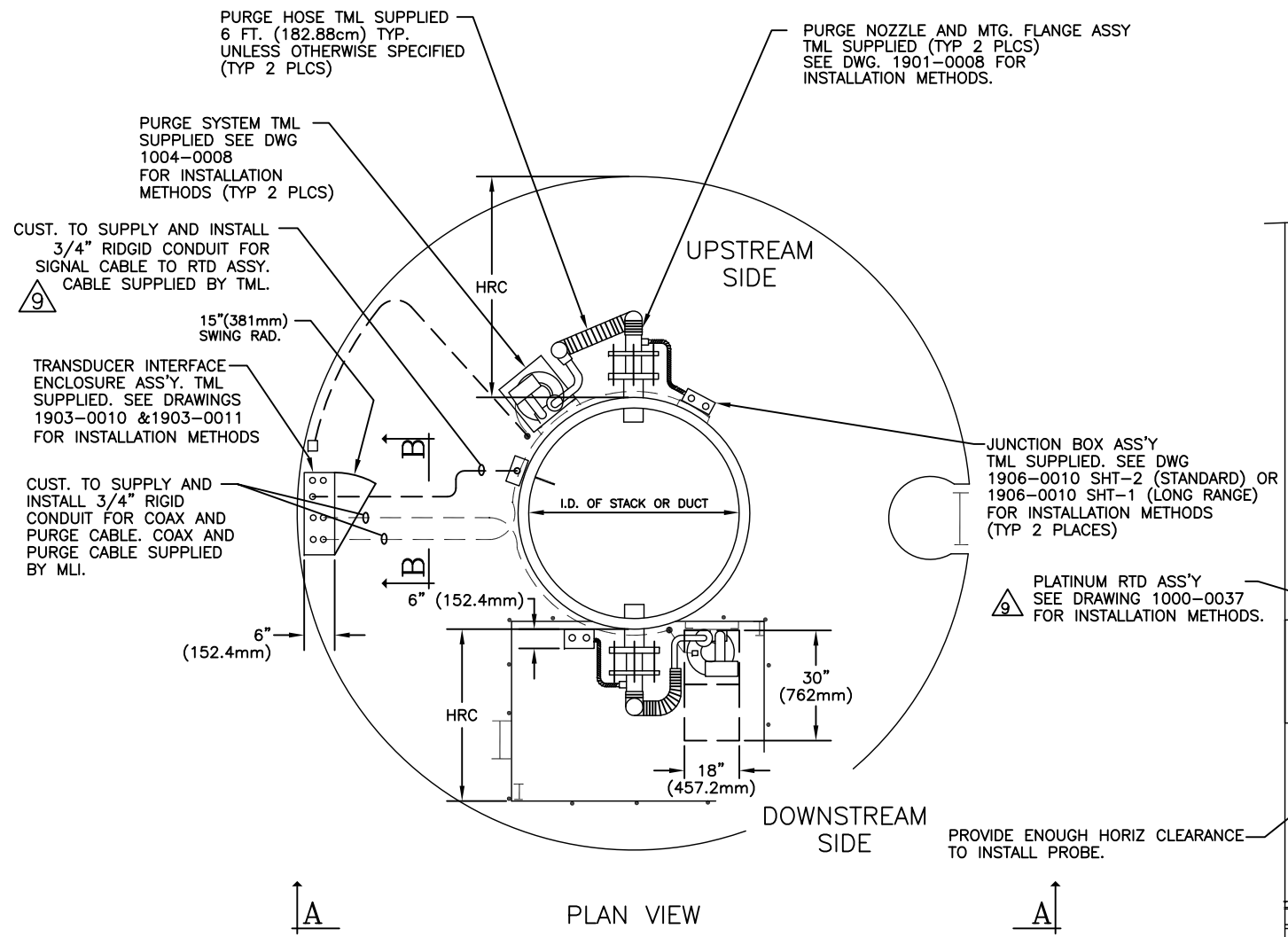


A

A

ACAD2002 FILE 19000001

REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APPD.
A		PER DCN #1900-0002A	8-23-02	ELM
B		PER DCN #1900-0002B	9-17-02	ELM
C		PER DCN #1900-0002C	2-18-03	DMB
D		PER DCN #1900-0002D	5-1-03	ELM
E		NO CHANGE THIS SHEET	5-21-03	ELM
F		NO CHANGE THIS SHEET	6-9-03	ELM
G		PER DCN #1900-0002G	1-8-04	ELM
H		NO CHANGE THIS SHEET	5-19-09	ELM



- VIEW A-A
- RTD IS USED FOR EXTERNAL TEMP. INPUT OPTION ONLY.
- SEE DRAWING 1900-0004 FOR SYSTEM WIRING.
- 7 SEE DWG 1900-0001 FOR EXACT LOCATION OF TRANSDUCERS
- 6 CUST. TO SUPPLY AND INSTALL ALL RIGID CONDUIT USING WATER TIGHT CONNECTORS.
- 5 CUST. MUST PROVIDE SAFE ACCESS PLATFORMS, CATWALKS, LADDERS, AND PROVIDE PROPER LIGHTING TO EACH PURGE NOZZLE ASSEMBLY FOR INSTALLATION PERSONNEL.
- 4 ALL DIMENSIONS ARE MINIMUM UNLESS OTHERWISE NOTED.
- 3 ALL DIMENSIONS IN () ARE METRIC.
- 2 CLEARANCE DIMENSIONAL DESCRIPTIONS:
- HRC = MINIMUM HORIZONTAL CLEARANCE FROM THE PURGE NOZZLE ASSEMBLY TO RAILINGS OR OTHER OBSTRUCTION.
- $VRC = CL + 12"$ (CL+304.8mm) = FOR THE UPSTREAM TRANSDUCER THIS REFERS TO THE MINIMUM VERTICAL CLEARANCE REQUIRED FROM THE BOTTOM JUNCTION OF THE MOUNTING TUBE AND STACK TO THE ACCESS CATWALK (OR ANY OTHER INTERVENING OBSTRUCTION). FOR THE DOWNSTREAM TRANSDUCER THIS REFERS TO THE MINIMUM VERTICAL CLEARANCE REQUIRED FROM THE TOP JUNCTION OF THE MOUNTING TUBE AND STACK TO THE NEAREST DOWNSTREAM OBSTRUCTION.
- 1 SEE DWG 1900-0001 FOR FLANGE INSTALLATION PROCEDURES AND TO DETERMINE 'H', 'CL' & 'HRC'

DIMENSIONAL TOLERANCES
UNLESS OTHERWISE SPECIFIED

FRACTIONS	DECIMALS	ANGLES
0 TO 4 ±1/32	±0.01	±30°
4 TO 8 ±1/16	±0.005	RMS FINISH
8 AND UP ±1/8	✓	

ALL DIMENSIONS ARE IN INCHES
DO NOT SCALE THIS DRAWING

USED ON

DASH NO	NEXT ASSEMBLY
-01	UF150

AUTHORIZATION

BY	DATE
EAS	10-19-01
CHECKED	EAS Mar-02
DESIGNED	EAS Oct-01
ENGINEERED	ELM 4-2-02
PRODUCTION	PD 4-2-02
Q.A.	GRG 4/2/02

TELEDYNE MONITOR LABS
A Teledyne Technologies Company

THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELEDYNE MONITOR LABS AND IS FURNISHED UPON THE EXPRESS CONDITION THAT THE INFORMATION CONTAINED HEREIN WILL NOT BE REPRODUCED, REPRODUCED, DISCLOSED OR DISSEMINATED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE EVALUATION THEREOF WITHOUT THE PRIOR WRITTEN CONSENT OF TELEDYNE MONITOR LABS.

TITLE

ULTRA FLOW 150
SYSTEM INSTALLATION

AUTHORIZATION

BY	DATE
EAS	10-19-01
CHECKED	EAS Mar-02
DESIGNED	EAS Oct-01
ENGINEERED	ELM 4-2-02
PRODUCTION	PD 4-2-02
Q.A.	GRG 4/2/02

SCALE

SHEET

1 of 6

D

1900-0002

H

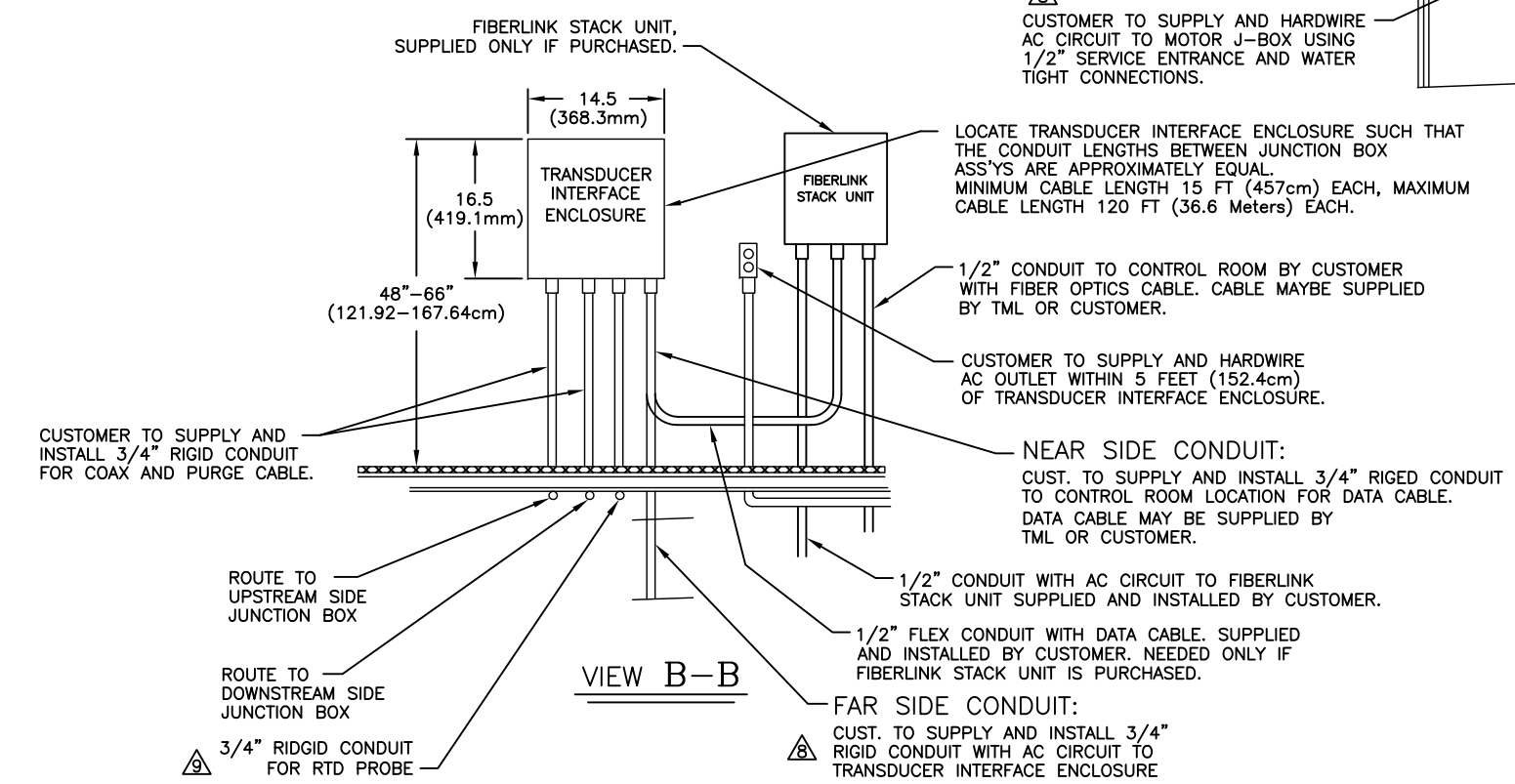
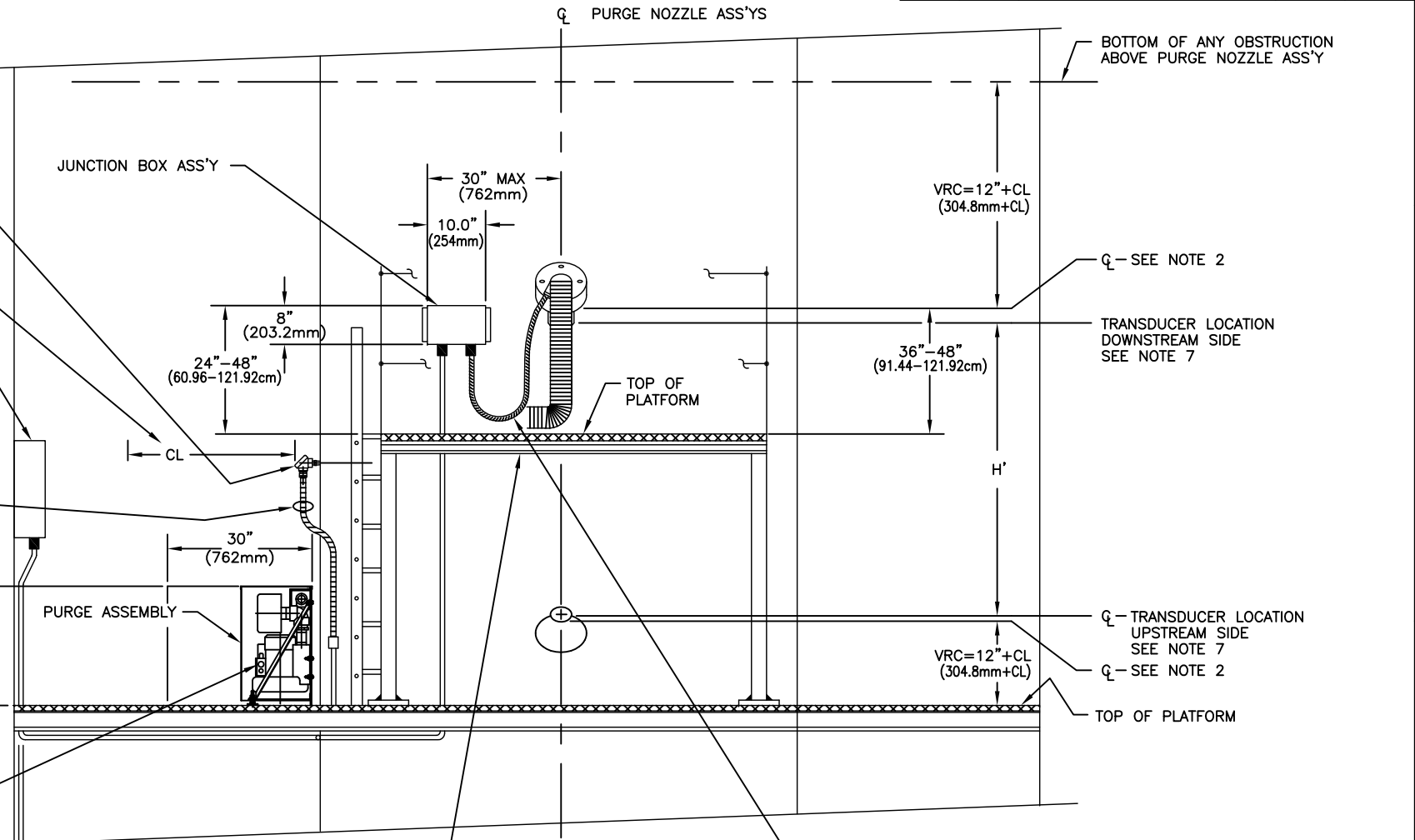
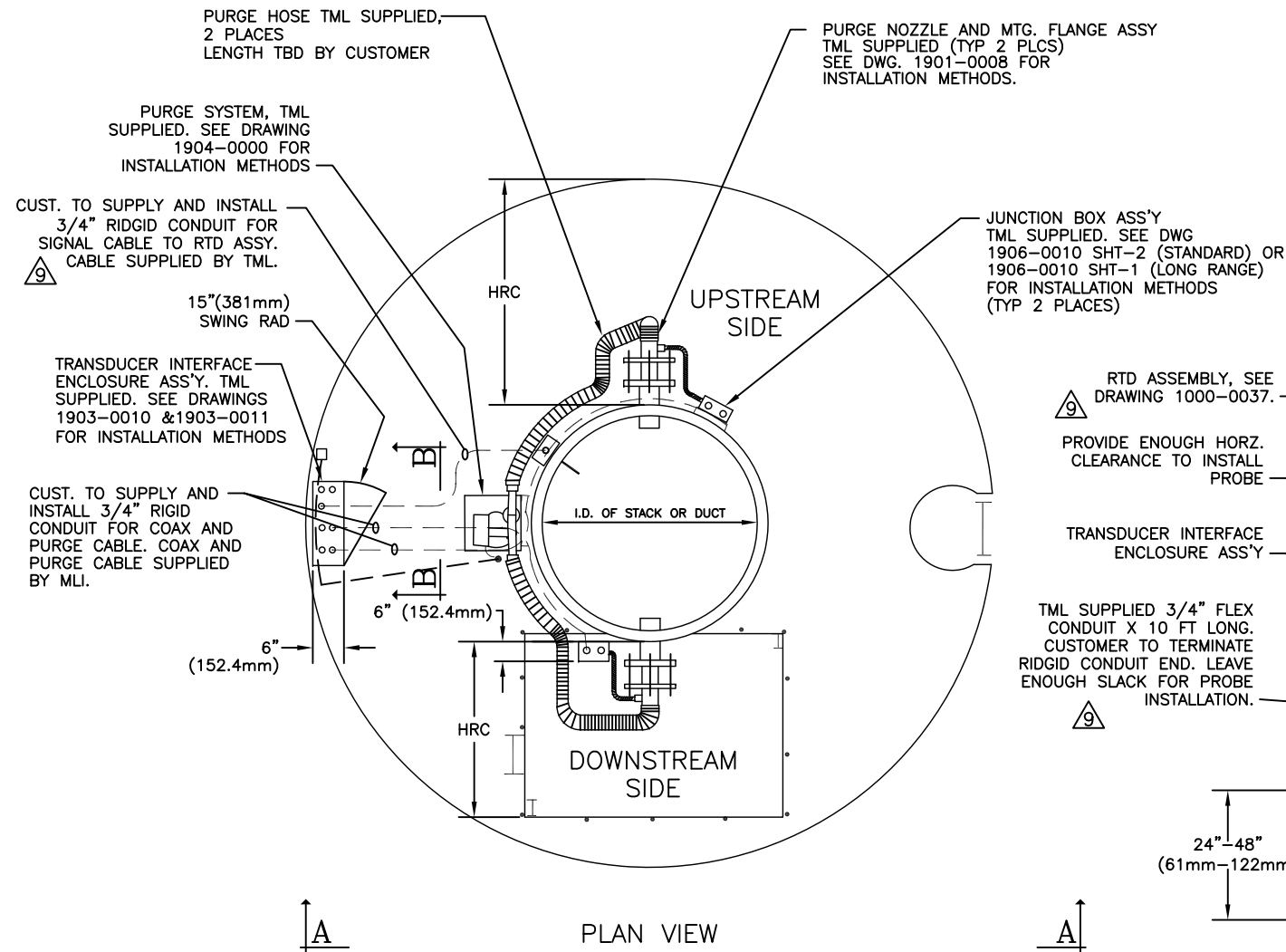
DUAL BLOWERS

NOTES:

ACAD FILE 19000002-NS

5-19-09

REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APPD.
A		PER DCN #1900-0002A	8-23-02	EAS
B		PER DCN #1900-0002B	9-17-02	ELM
C		PER DCN #1900-0002C	2-18-03	DMB
D		PER DCN #1900-0002D	5-1-03	ELM
E		NO CHANGE THIS SHEET	5-21-03	ELM
F		NO CHANGE THIS SHEET	6-9-03	ELM
G		PER DCN #1900-0002G	1-8-04	ELM
H		NO CHANGE THIS SHEET	5-19-09	ELM



- SECOND PLATFORM MAY OR MAY NOT BE NEEDED BASED ON STACK DIAMETER AND OFFSET DISTANCE 'H'
- VIEW A-A
- RTD IS USED FOR EXTERNAL TEMP. INPUT OPTION ONLY.
- SEE DRAWING 1900-0004 FOR SYSTEM WIRING.
- 7 SEE DWG 1900-0001 FOR EXACT LOCATION OF TRANSDUCERS
- 6 CUST. TO SUPPLY AND INSTALL ALL RIGID CONDUIT USING WATER TIGHT CONNECTORS.
- 5 CUST. MUST PROVIDE SAFE ACCESS PLATFORMS, CATWALKS, LADDERS, AND PROVIDE PROPER LIGHTING TO EACH PURGE NOZZLE ASSEMBLY FOR INSTALLATION PERSONNEL.
- 4 ALL DIMENSIONS ARE MINIMUM UNLESS OTHERWISE NOTED.
- 3 ALL DIMENSIONS IN () ARE METRIC.
- 2 CLEARANCE DIMENSIONAL DESCRIPTIONS:
- HRC = MINIMUM HORIZONTAL CLEARANCE FROM THE PURGE NOZZLE ASSEMBLY TO RAILINGS OR OTHER OBSTRUCTION.
- VRC=CL+12" (CL+304.8mm) = FOR THE UPSTREAM TRANSDUCER THIS REFERS TO THE MINIMUM VERTICAL CLEARANCE REQUIRED FROM THE BOTTOM JUNCTION OF THE MOUNTING TUBE AND STACK TO THE ACCESS CATWALK (OR ANY OTHER INTERVENING OBSTRUCTION). FOR THE DOWNSTREAM TRANSDUCER THIS REFERS TO THE MINIMUM VERTICAL CLEARANCE REQUIRED FROM THE TOP JUNCTION OF THE MOUNTING TUBE AND STACK TO THE NEAREST DOWNSTREAM OBSTRUCTION.
- 1 SEE DWG 1900-0001 FOR FLANGE INSTALLATION PROCEDURES AND TO DETERMINE 'H', 'CL' & 'HRC'

DIMENSIONAL TOLERANCES
UNLESS OTHERWISE SPECIFIED

FRACTIONS	DECIMALS	ANGLES
0 TO 4 ±1/32	±.01	±30°
4 TO 8 ±1/16	±.005	RMS FINISH
B AND UP ±1/8		
ALL DIMENSIONS ARE IN INCHES DO NOT SCALE THIS DRAWING		

USED ON

DASH NO	NEXT ASSEMBLY
-02	UF150

AUTHORIZATION

BY	DATE
EAS	10-26-01
CHECKED	EAS Mar-02
DESIGNED	EAS Oct-01
ENGINEERED	ELM 4-2-02
PRODUCTION	PD 4-2-02
Q.A.	GRG 4/2/02

TITLE

ULTRA FLOW 150
SYSTEM INSTALLATION

FINISH

MAT'L.

DRAWING NO.

D 1900-0002

LATEST REVISION

H

SHEET

2 OF 6

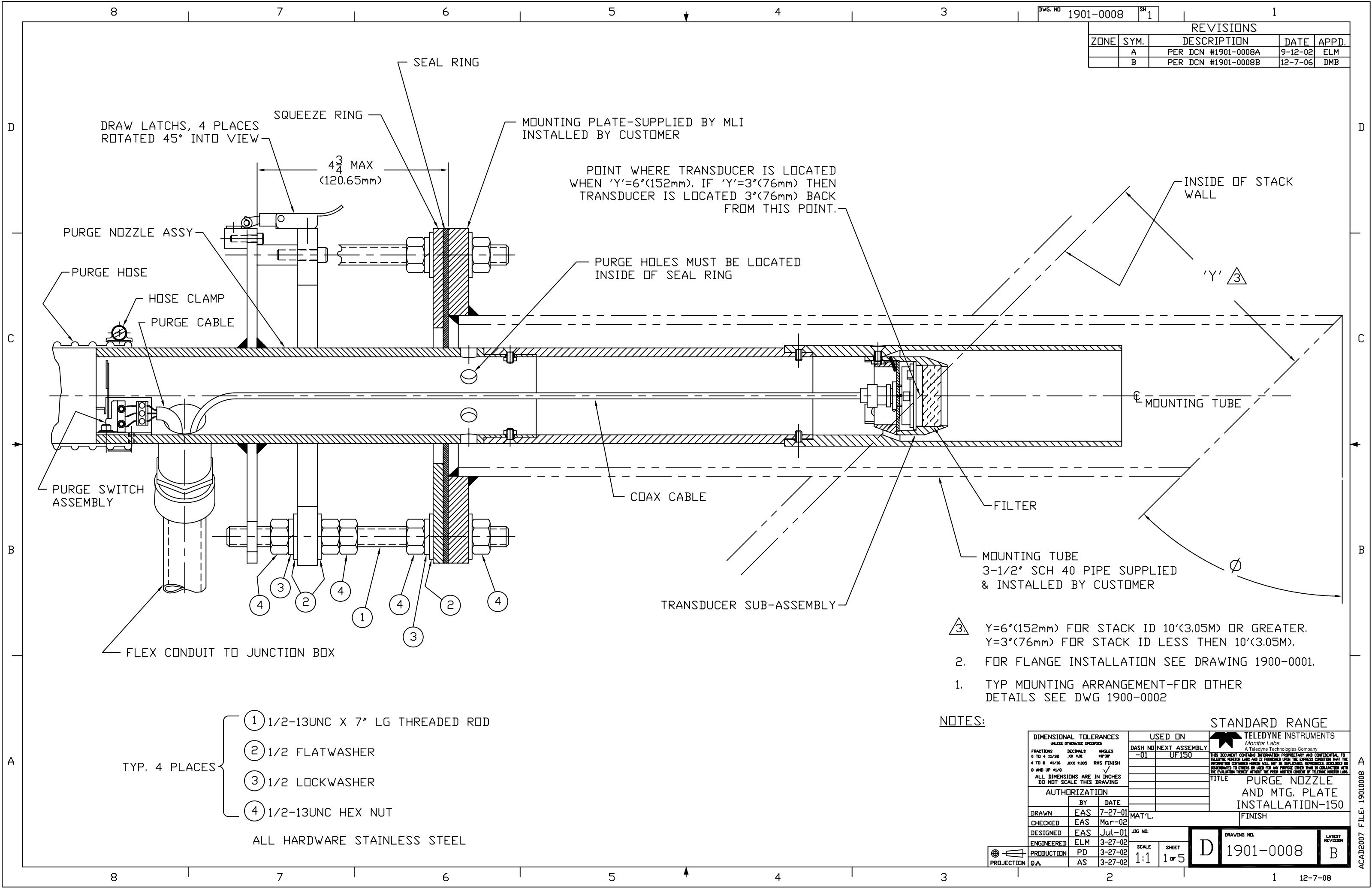
SCALE

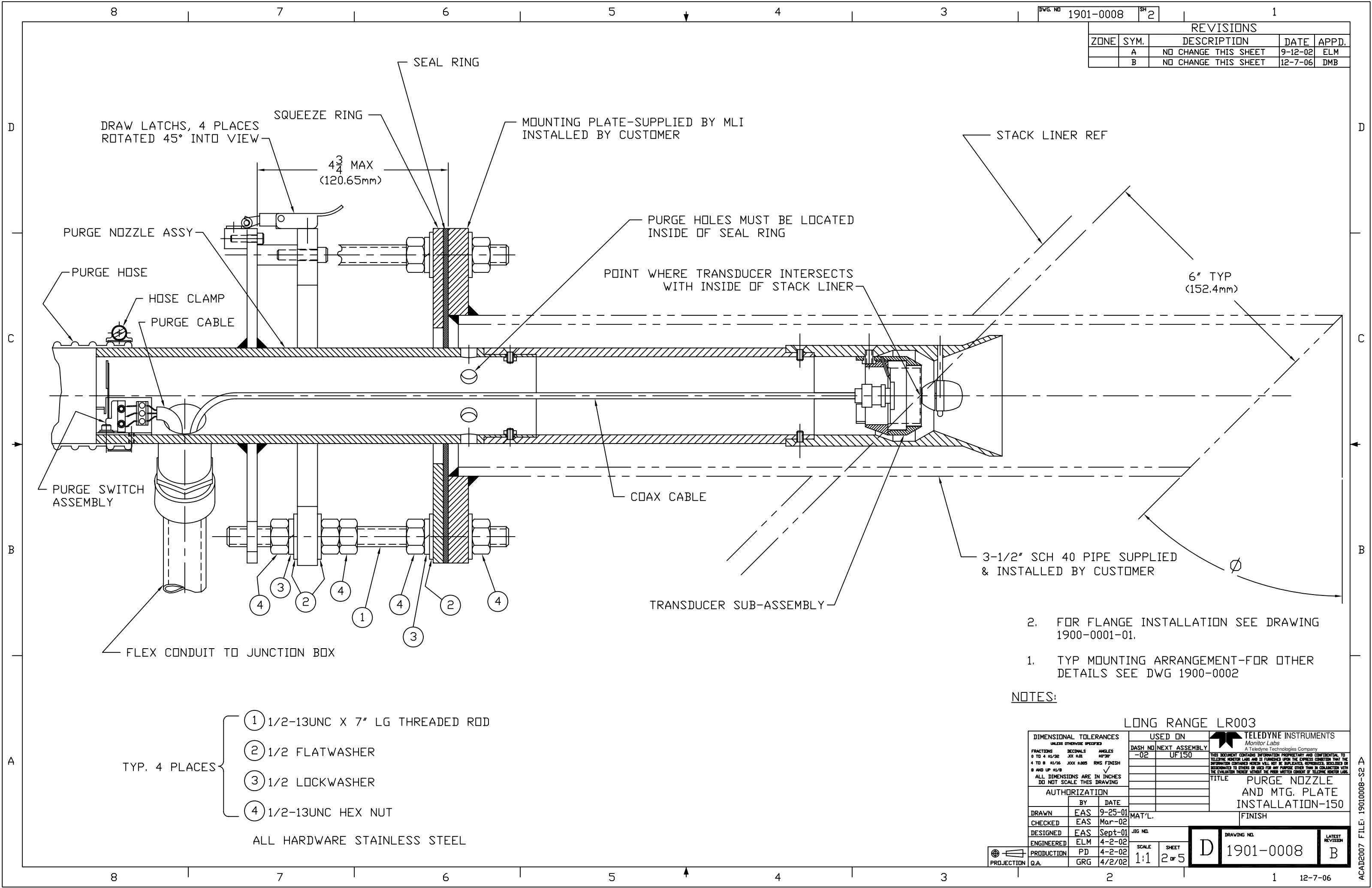
NTS

JIG NO.

ACAD FILE 19000002-NS

5-19-09





REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APPD.
	A	NO CHANGE THIS SHEET	9-12-02	ELM
	B	NO CHANGE THIS SHEET	12-7-06	DMB

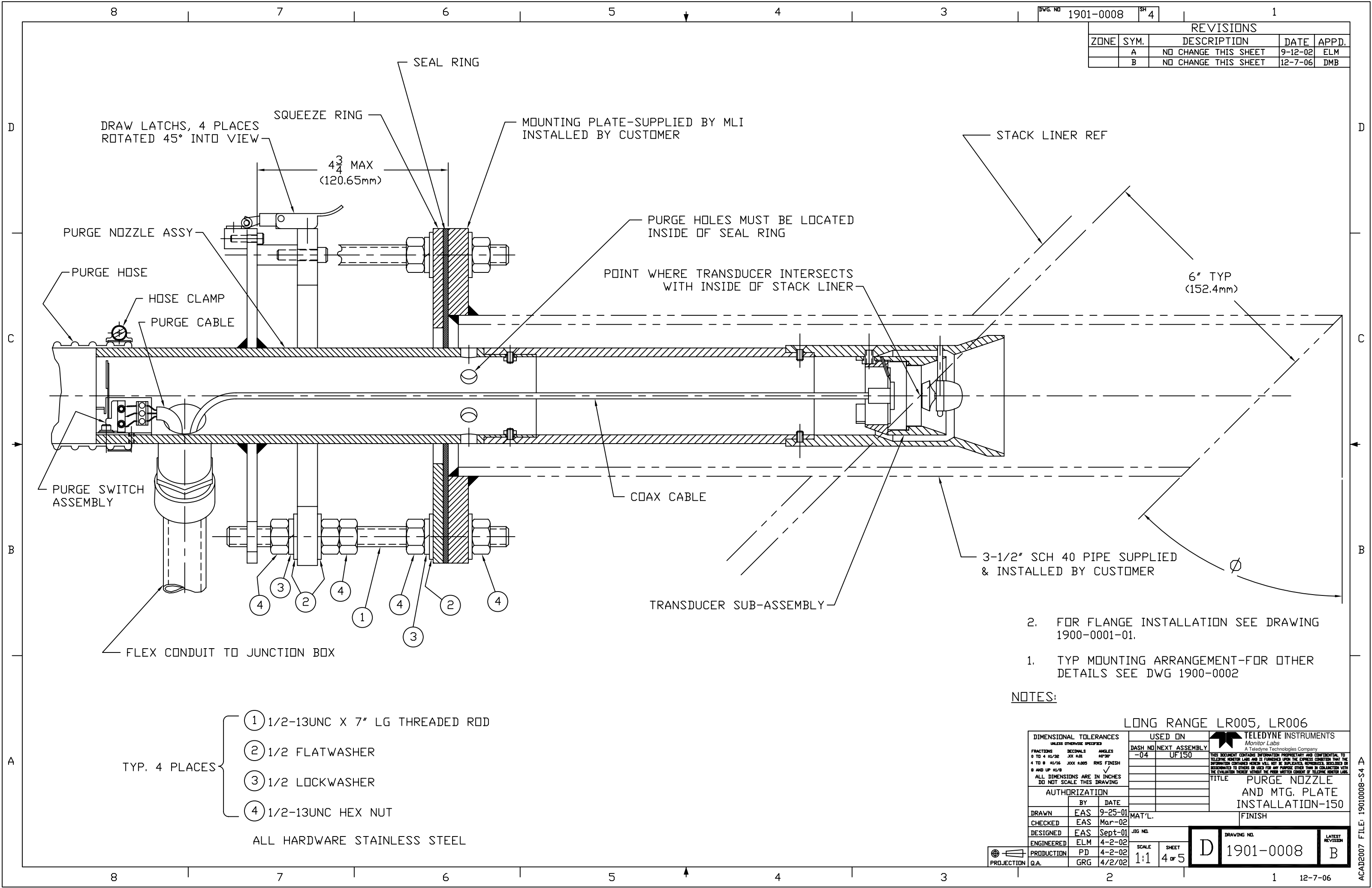
2. FOR FLANGE INSTALLATION SEE DRAWING 1900-0001-01.
1. TYP MOUNTING ARRANGEMENT-FOR OTHER DETAILS SEE DWG 1900-0002

NOTES:

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			USED ON		TELEDYNE INSTRUMENTS Monitor Labs A Teledyne Technologies Company	
FRACTIONS	DECIMALS	ANGLES	DASH NO	NEXT ASSEMBLY	THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELEDYNE MONITOR LABS AND IS FURNISHED WITH THE EXPRESS UNDERSTANDING THAT INFORMATION CONTAINED HEREIN WILL NOT BE REPRODUCED, REPRINTED, RECALCULATED OR REDESIGNED TO OTHER OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE EVALUATION THEREOF WITHOUT THE PRIOR WRITTEN CONSENT OF TELEDYNE MONITOR LABS.	
0 TO 4 ±1/32	XXX ±.01	±0°30'	-02	UF150		
4 TO 8 ±1/16	XXX ±.005	RMS FINISH			TITLE	
8 AND UP ±1/8					PURGE NOZZLE AND MTG. PLATE INSTALLATION-150	
AUTHORIZATION			MAT'L.		FINISH	
	BY	DATE				
DRAWN	EAS	9-25-01				
CHECKED	EAS	Mar-02				
DESIGNED	EAS	Sept-01				
ENGINEERED	ELM	4-2-02				
PRODUCTION	PD	4-2-02				
G.A.	GRG	4/2/02				



DRAWING NO.	LATEST REVISION
D 1901-0008	B



REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APPD.
	A	NO CHANGE THIS SHEET	9-12-02	ELM
	B	NO CHANGE THIS SHEET	12-7-06	DMB

2. FOR FLANGE INSTALLATION SEE DRAWING 1900-0001-01.
1. TYP MOUNTING ARRANGEMENT-FOR OTHER DETAILS SEE DWG 1900-0002

NOTES:

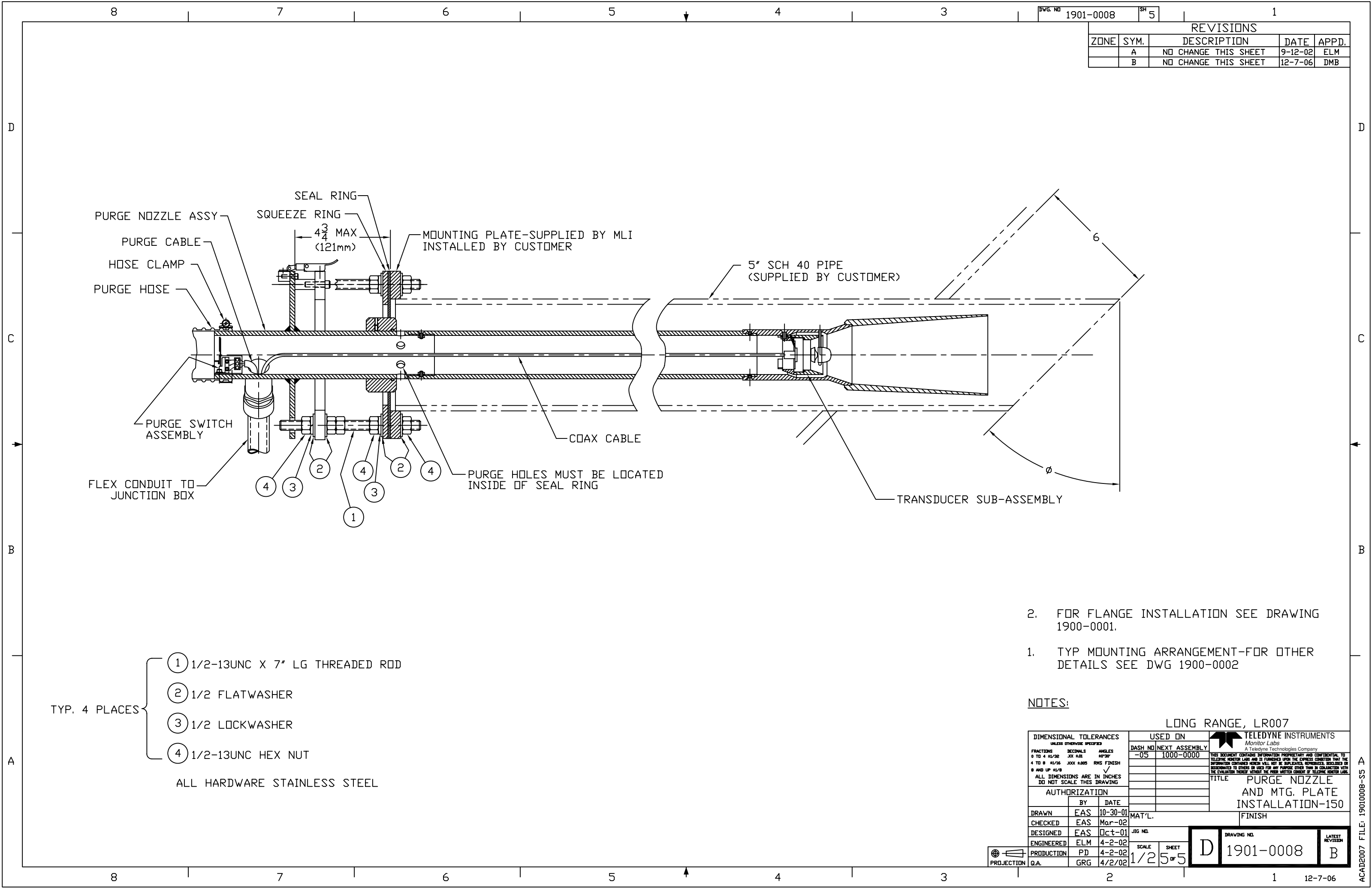
- ① 1/2-13UNC X 7" LG THREADED ROD
- ② 1/2 FLATWASHER
- ③ 1/2 LOCKWASHER
- ④ 1/2-13UNC HEX NUT

TYP. 4 PLACES

ALL HARDWARE STAINLESS STEEL

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			USED ON		TELEDYNE INSTRUMENTS Monitor Labs A Teledyne Technologies Company	
FRACTIONS	DECIMALS	ANGLES	DASH NO	NEXT ASSEMBLY	THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELEDYNE INSTRUMENTS LABS AND IS FURNISHED UNDER THE EXPRESS CONDITION THAT INFORMATION CONTAINED HEREIN WILL NOT BE REPRODUCED, REPERFORATED, DISCLOSED OR RETRANSMITTED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE EVALUATION THEREOF WITHOUT THE PRIOR WRITTEN CONSENT OF TELEDYNE INSTRUMENTS LABS.	
0 TO 4 ±1/32	XXX ±.01	±0°30'	-04	UF150		
4 TO 8 ±1/16	XXX ±.005	RMS FINISH			TITLE PURGE NOZZLE AND MTG. PLATE INSTALLATION-150	
8 AND UP ±1/8					FINISH	
ALL DIMENSIONS ARE IN INCHES DO NOT SCALE THIS DRAWING			AUTHORIZATION			
			BY	DATE		
DRAWN			EAS	9-25-01		
CHECKED			EAS	Mar-02		
DESIGNED			EAS	Sept-01		
ENGINEERED			ELM	4-2-02		
PRODUCTION			PD	4-2-02		
G.A.			GRG	4/2/02		
			SCALE 1:1		SHEET 4 OF 5	
			DRAWING NO. D 1901-0008		LATEST REVISION B	

PROJECTION



REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APPD.
	A	NO CHANGE THIS SHEET	9-12-02	ELM
	B	NO CHANGE THIS SHEET	12-7-06	DMB

2. FOR FLANGE INSTALLATION SEE DRAWING 1900-0001.
1. TYP MOUNTING ARRANGEMENT-FOR OTHER DETAILS SEE DWG 1900-0002

NOTES:

- TYP. 4 PLACES
- 1 1/2-13UNC X 7' LG THREADED ROD
 - 2 1/2 FLATWASHER
 - 3 1/2 LOCKWASHER
 - 4 1/2-13UNC HEX NUT
- ALL HARDWARE STAINLESS STEEL

DIMENSIONAL TOLERANCES
UNLESS OTHERWISE SPECIFIED

FRACTIONS	DECIMALS	ANGLES
0 TO 4 ±1/32	JXX ±.01	±9°30'
4 TO 8 ±1/16	JXX ±.005	RMS FINISH
8 AND UP ±1/8		

ALL DIMENSIONS ARE IN INCHES
DO NOT SCALE THIS DRAWING

AUTHORIZATION

BY	DATE
EAS	10-30-01
CHECKED	EAS Mar-02
DESIGNED	EAS Oct-01
ENGINEERED	ELM 4-2-02
PRODUCTION	PD 4-2-02
G.A.	GRG 4/2/02

USED ON

DASH NO	NEXT ASSEMBLY
-05	1000-0000

TELEDYNE INSTRUMENTS
Monitor Labs
A Teledyne Technologies Company

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TITLE

PURGE NOZZLE
AND MTG. PLATE
INSTALLATION-150

DRAWING NO.

1901-0008

LATEST REVISION

B

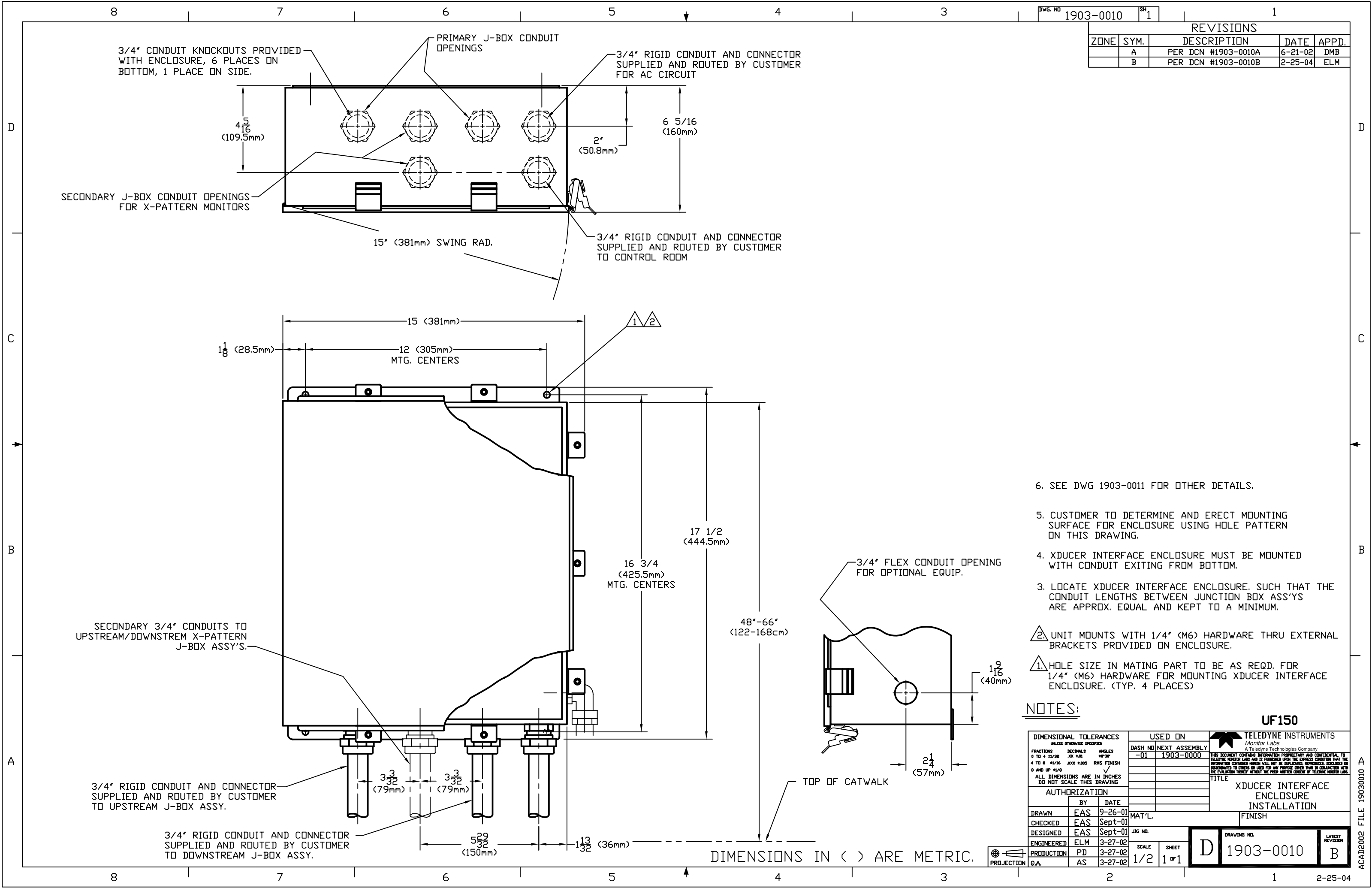
PROJECTION

SCALE

1/2

SHEET

5 OF 5



DWG. NO		1903-0010	SH	1
REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APPD.
	A	PER DCN #1903-0010A	6-21-02	DMB
	B	PER DCN #1903-0010B	2-25-04	ELM

6. SEE DWG 1903-0011 FOR OTHER DETAILS.

5. CUSTOMER TO DETERMINE AND ERECT MOUNTING SURFACE FOR ENCLOSURE USING HOLE PATTERN ON THIS DRAWING.


4. XDUCER INTERFACE ENCLOSURE MUST BE MOUNTED WITH CONDUIT EXITING FROM BOTTOM.

3. LOCATE XDUCER INTERFACE ENCLOSURE, SUCH THAT THE CONDUIT LENGTHS BETWEEN JUNCTION BOX ASS'YS ARE APPROX. EQUAL AND KEPT TO A MINIMUM.

2. UNIT MOUNTS WITH 1/4" (M6) HARDWARE THRU EXTERNAL BRACKETS PROVIDED ON ENCLOSURE.

1. HOLE SIZE IN MATING PART TO BE AS REQD. FOR 1/4" (M6) HARDWARE FOR MOUNTING XDUCER INTERFACE ENCLOSURE. (TYP. 4 PLACES)

NOTES:

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			USED ON		 TELEDYNE INSTRUMENTS Monitor Labs A Teledyne Technologies Company	
FRACTIONS DECIMALS ANGLES			DASH NO NEXT ASSEMBLY		THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELEDYNE MONITOR LABS AND IS FURNISHED WITH THE EXPRESS UNDERSTANDING THAT THE INFORMATION CONTAINED HEREIN WILL NOT BE REPRODUCED, REPRINTED, RECALCULATED, OR DISSEMINATED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE EVALUATION THEREOF WITHOUT THE WRITTEN CONSENT OF TELEDYNE MONITOR LABS.	
0 TO 4 ±1/32 .001 ±30°			-01 1903-0000			
4 TO 8 ±1/16 .005 RMS FINISH						
8 AND UP ±1/8						
ALL DIMENSIONS ARE IN INCHES DO NOT SCALE THIS DRAWING					TITLE	
AUTHORIZATION					XDUCER INTERFACE ENCLOSURE INSTALLATION	
	BY	DATE				
DRAWN	EAS	9-26-01	MAT'L.		FINISH	
CHECKED	EAS	Sept-01				
DESIGNED	EAS	Sept-01	JIG NO.			
ENGINEERED	ELM	3-27-02	SCALE		DRAWING NO.	
PRODUCTION	PD	3-27-02	SHEET		LATEST REVISION	
G.A.	AS	3-27-02	1/2 1 OF 1		D 1903-0010 B	

REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APPD.
	A	ADDED THIS SHEET PER DCN #1903-0011A	11-25-03	ELM
	B	PER DCN #1903-0011B	2-25-04	ELM
	C	PER DCN #1903-0011C	4-24-07	

CRIB SHEET, SUPPLIED
IF KEYPAD IS PURCHASED

DISPLAY BOARD CABLE
FOR KEYPAD ASSEMBLY

6 PT I/O CABLE FOR
DIRECT INTERFACE BOARD

NETWORK CABLE FROM
EXTERNAL INTERFACE BOARD

LID CLAMPS,
7 PLACES

KEYPAD ASSEMBLY,
SUPPLIED ONLY IF PURCHASED

THUMB NUTS, REF: REMOVE AND
KEYPAD HINGES LEFT FOR ACCESS
TO DIRECT INTERFACE BOARD JUMPERS.

POWER SUPPLY LOCATED
BELOW KEYPAD ASSEMBLY

AUXILIARY ANALOG INPUT
PC BOARD SUPPLIED ONLY
IF PURCHASED

COAX CONNECTOR

PURGE SWITCH
CONNECTOR

PRIMARY PRE-AMPS

BAROMETRIC PRESSURE OPTION,
SUPPLIED ONLY IF PURCHASED

PROTECTIVE GROUND STUD

SECONDARY PRE-AMPS USED
ON X-PATTERN ONLY

HOLE PLUGS SUPPLIED FOR
ALL UNUSED HOLES

ENHANCED REMOTE AND
DIRECT INTERFACE TB2, TB3

AC POWER TB1

SECTION B-B

SECTION A-A

SECONDARY X-PATTERN
PRE-AMP CABLING
CONDUIT HOLES

BAROMETRIC PRESSURE VENT,
SUPPLIED IF BAROMETRIC PRESSURE
OPTION IS PURCHASED

DATA CABLE OUT
CONDUIT HOLE

AUXILIARY INPUT CONDUIT
HOLE ON SIDE

PRIMARY PRE-AMP CABLING
CONDUIT HOLES

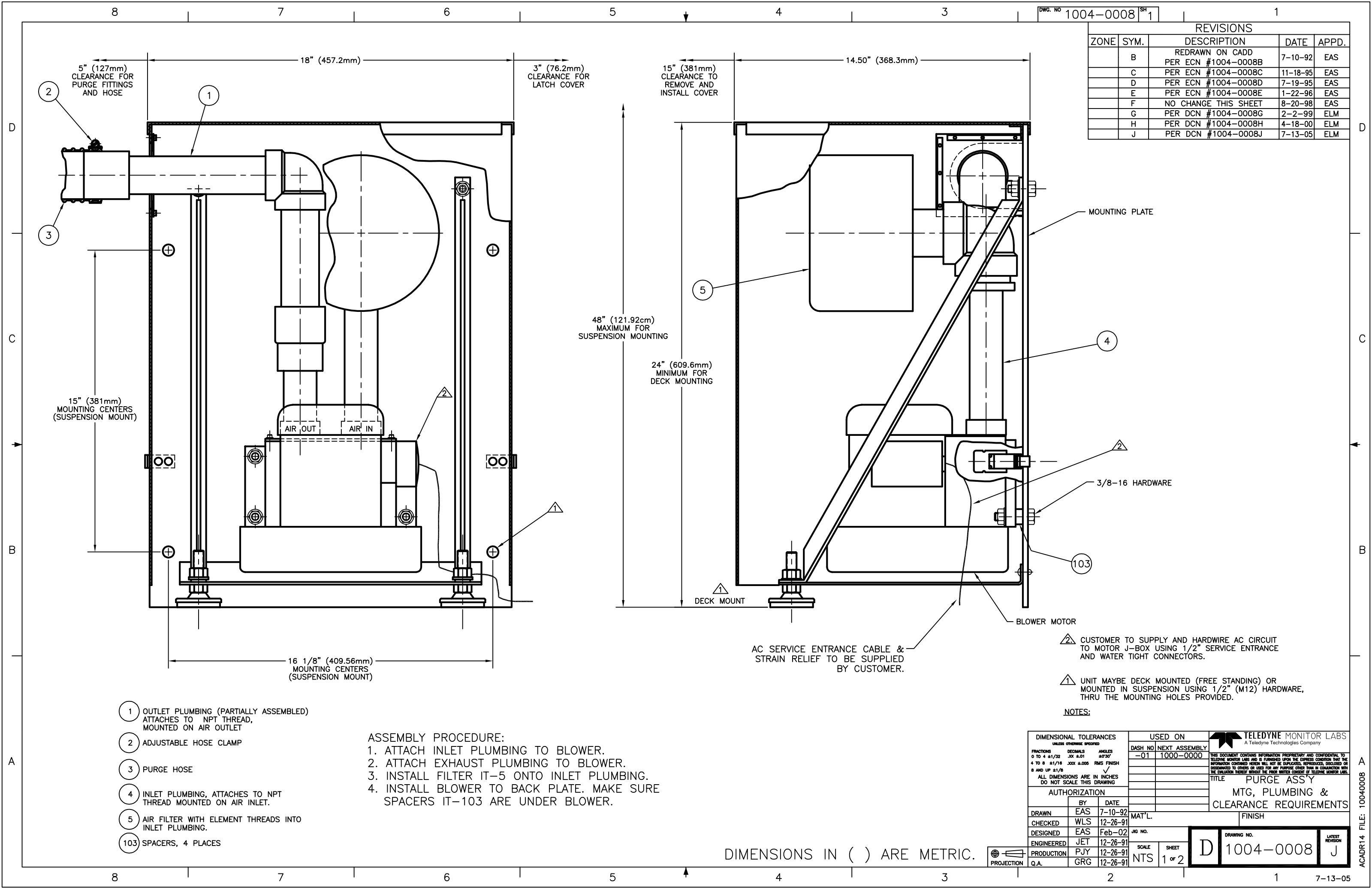
AC CIRCUIT IN
CONDUIT HOLE

2. SEE DRAWING 1900-0010 FOR INSTALLATION DETAILS.
1. SEE DRAWING 1900-0004 FOR WIRING DIAGRAM.

NOTES: -02 PANEL MOUNTED KEYPAD

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			USED ON		TELEDYNE INSTRUMENTS Monitor Labs A Teledyne Technologies Company	
FRACTIONS	DECIMALS	ANGLES	DASH NO	NEXT ASSEMBLY	THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELEDYNE INSTRUMENTS LABS AND IS FURNISHED UPON THE EXPRESS CONDITION THAT THE INFORMATION CONTAINED HEREIN WILL NOT BE DUPLICATED, REPRODUCED, DISCLOSED OR DISSEMINATED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE EVALUATION THEREOF WITHOUT THE PRIOR WRITTEN CONSENT OF TELEDYNE INSTRUMENTS LABS.	
0 TO 4 ±1/32	.XX ±.01	±30°	-02	1903-0000		
4 TO 8 ±1/16	.XX ±.005	RMS FINISH			TITLE	
8 AND UP ±1/8					XDUCER INTERFACE ENCLOSURE INTERNAL LAYOUT	
AUTHORIZATION			MAT'L.		FINISH	
DRAWN	EAS	11-26-03				
CHECKED	EAS	12-3-03				
DESIGNED	EAS	Nov-03				
ENGINEERED	ELM	12-4-03				
PRODUCTION	PD	12-4-03				
Q.A.	AS	12-4-03				
PROJECTION			SCALE	SHEET	DRAWING NO.	
			1/2	2 OF 2	D 1903-0011	
					LATEST REVISION	
					C	

DWG. NO		1004-0008	SH	1	1
REVISIONS					
ZONE	SYM.	DESCRIPTION	DATE	APPD.	
	B	REDRAWN ON CADD	7-10-92	EAS	
	C	PER ECN #1004-0008B	11-18-95	EAS	
	D	PER ECN #1004-0008C	7-19-95	EAS	
	E	PER ECN #1004-0008D	1-22-96	EAS	
	F	PER ECN #1004-0008E	8-20-98	EAS	
	G	NO CHANGE THIS SHEET	2-2-99	ELM	
	H	PER DCN #1004-0008G	4-18-00	ELM	
	J	PER DCN #1004-0008H	7-13-05	ELM	



- 1 OUTLET PLUMBING (PARTIALLY ASSEMBLED)
ATTACHES TO NPT THREAD,
MOUNTED ON AIR OUTLET
- 2 ADJUSTABLE HOSE CLAMP
- 3 PURGE HOSE
- 4 INLET PLUMBING, ATTACHES TO NPT
THREAD MOUNTED ON AIR INLET.
- 5 AIR FILTER WITH ELEMENT THREADS INTO
INLET PLUMBING.
- 103 SPACERS, 4 PLACES

ASSEMBLY PROCEDURE:
1. ATTACH INLET PLUMBING TO BLOWER.
2. ATTACH EXHAUST PLUMBING TO BLOWER.
3. INSTALL FILTER IT-5 ONTO INLET PLUMBING.
4. INSTALL BLOWER TO BACK PLATE. MAKE SURE
SPACERS IT-103 ARE UNDER BLOWER.

- ⚠ CUSTOMER TO SUPPLY AND HARDWIRE AC CIRCUIT
TO MOTOR J-BOX USING 1/2" SERVICE ENTRANCE
AND WATER TIGHT CONNECTORS.
- ⚠ UNIT MAYBE DECK MOUNTED (FREE STANDING) OR
MOUNTED IN SUSPENSION USING 1/2" (M12) HARDWARE,
THRU THE MOUNTING HOLES PROVIDED.

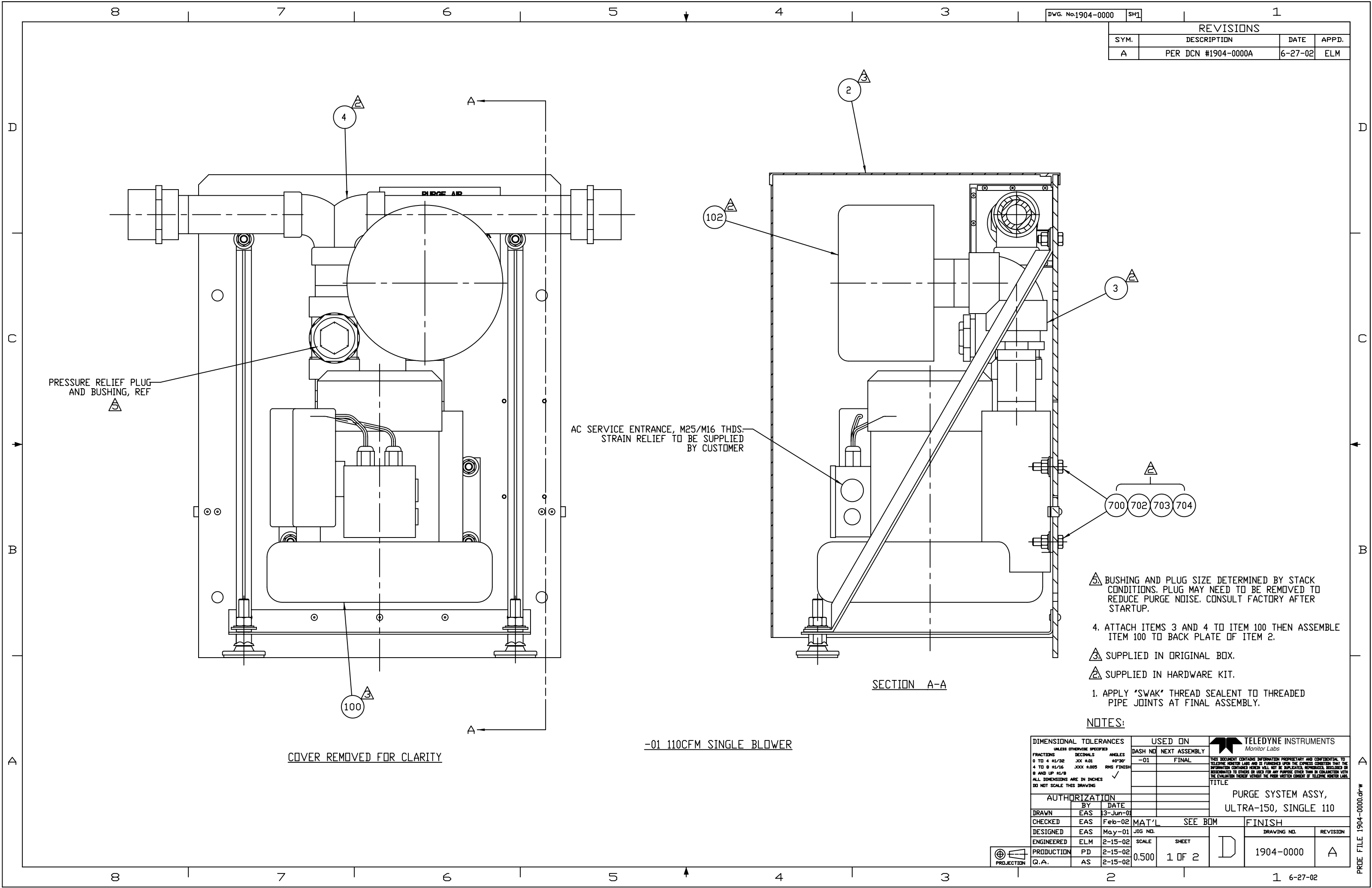
NOTES:

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			USED ON		TELEDYNE MONITOR LABS A Teledyne Technologies Company	
FRACTIONS	DECIMALS	ANGLES	DASH NO	NEXT ASSEMBLY	THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELEDYNE MONITOR LABS AND IS FURNISHED UPON THE EXPRESS CONDITION THAT THE INFORMATION CONTAINED HEREIN WILL NOT BE DUPLICATED, REPRODUCED, DISCLOSED OR DISSEMINATED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE EVALUATION THEREOF WITHOUT THE PRIOR WRITTEN CONSENT OF TELETYPE MONITOR LABS.	
0 TO 4 ±1/32	.XX ±.01	±30°	-01	1000-0000		
4 TO 8 ±1/16	.XX ±.005	RMS FINISH			TITLE PURGE ASSY	
8 AND UP ±1/8					MTG, PLUMBING & CLEARANCE REQUIREMENTS	
AUTHORIZATION			MAT'L.		FINISH	
BY	DATE					
DRAWN EAS	7-10-92					
CHECKED WLS	12-26-91					
DESIGNED EAS	Feb-02					
ENGINEERED JET	12-26-91					
PRODUCTION PJY	12-26-91					
Q.A. GRG	12-26-91					
			SCALE	SHEET	DRAWING NO.	
			NTS	1 OF 2	D 1004-0008	
						LATEST REVISION J

DIMENSIONS IN () ARE METRIC.



ACADR14 FILE: 10040008



DWG. No.1904-0000

SH1

1

REVISIONS

SYM.	DESCRIPTION	DATE	APPD.
A	PER DCN #1904-0000A	6-27-02	ELM

AC SERVICE ENTRANCE, M25/M16 THDS.
STRAIN RELIEF TO BE SUPPLIED
BY CUSTOMER

SECTION A-A

△ BUSHING AND PLUG SIZE DETERMINED BY STACK
CONDITIONS. PLUG MAY NEED TO BE REMOVED TO
REDUCE PURGE NOISE. CONSULT FACTORY AFTER
STARTUP.

4. ATTACH ITEMS 3 AND 4 TO ITEM 100 THEN ASSEMBLE
ITEM 100 TO BACK PLATE OF ITEM 2.

△ SUPPLIED IN ORIGINAL BOX.

△ SUPPLIED IN HARDWARE KIT.

1. APPLY "SWAK" THREAD SEALANT TO THREADED
PIPE JOINTS AT FINAL ASSEMBLY.

NOTES:

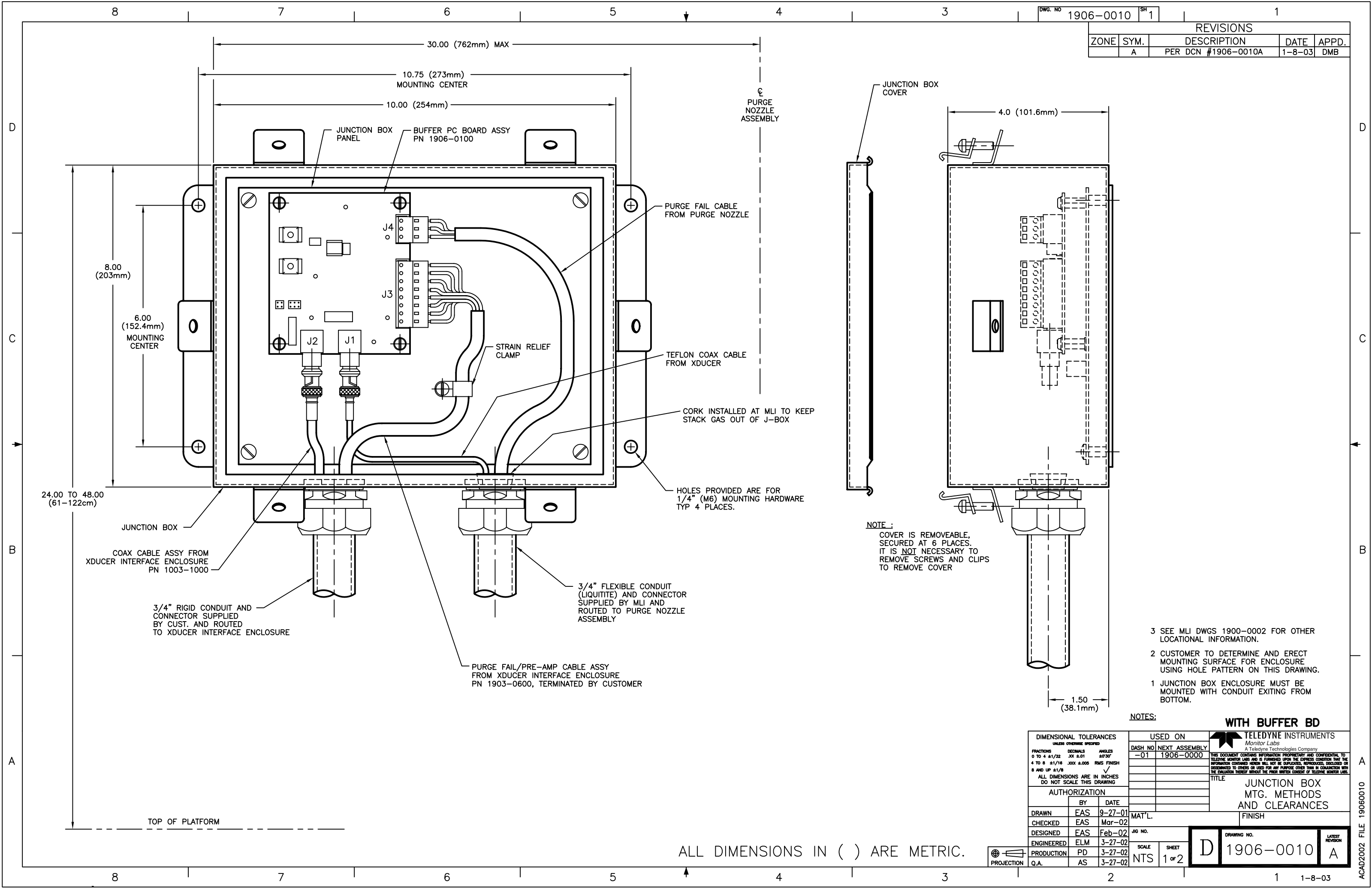
COVER REMOVED FOR CLARITY

-01 110CFM SINGLE BLOWER

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			USED ON		TELEDYNE INSTRUMENTS Monitor Labs	
FRACTIONS	DECIMALS	ANGLES	DASH NO	NEXT ASSEMBLY	THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELEDYNE INSTRUMENTS LABS AND IS FURNISHED UPON THE EXPRESS CONDITION THAT THE INFORMATION CONTAINED HEREIN WILL NOT BE REPRODUCED, REVERSE ENGINEERED OR DISSEMINATED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE EVALUATION THEREOF WITHOUT THE PRIOR WRITTEN CONSENT OF TELEDYNE INSTRUMENTS LABS.	
0 TO 4 ±1/32	XXX ±.01	40°/30'	-01	FINAL		
4 TO 8 ±1/16	XXX ±.005	RHS FINISH			TITLE PURGE SYSTEM ASSY, ULTRA-150, SINGLE 110	
8 AND UP ±1/8						
ALL DIMENSIONS ARE IN INCHES DO NOT SCALE THIS DRAWING			AUTHORIZATION		DRAWING NO. 1904-0000	
			BY	DATE		
DRAWN	EAS	13-Jun-01	CHECKED	EAS	Feb-02	REVISION A
DESIGNED	EAS	May-01	ENGINEERED	ELM	2-15-02	
PRODUCTION	PD	2-15-02	Q.A.	AS	2-15-02	
			MAT'L		FINISH	
			SEE BOM			
			SCALE		SHEET	
			0.500		1 OF 2	



PRD FILE 1904-0000.drw



REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APPD.
	A	PER DCN #1906-0010A	1-8-03	DMB

- 3 SEE MLI DWGS 1900-0002 FOR OTHER LOCATIONAL INFORMATION.
- 2 CUSTOMER TO DETERMINE AND ERECT MOUNTING SURFACE FOR ENCLOSURE USING HOLE PATTERN ON THIS DRAWING.
- 1 JUNCTION BOX ENCLOSURE MUST BE MOUNTED WITH CONDUIT EXITING FROM BOTTOM.

NOTES:

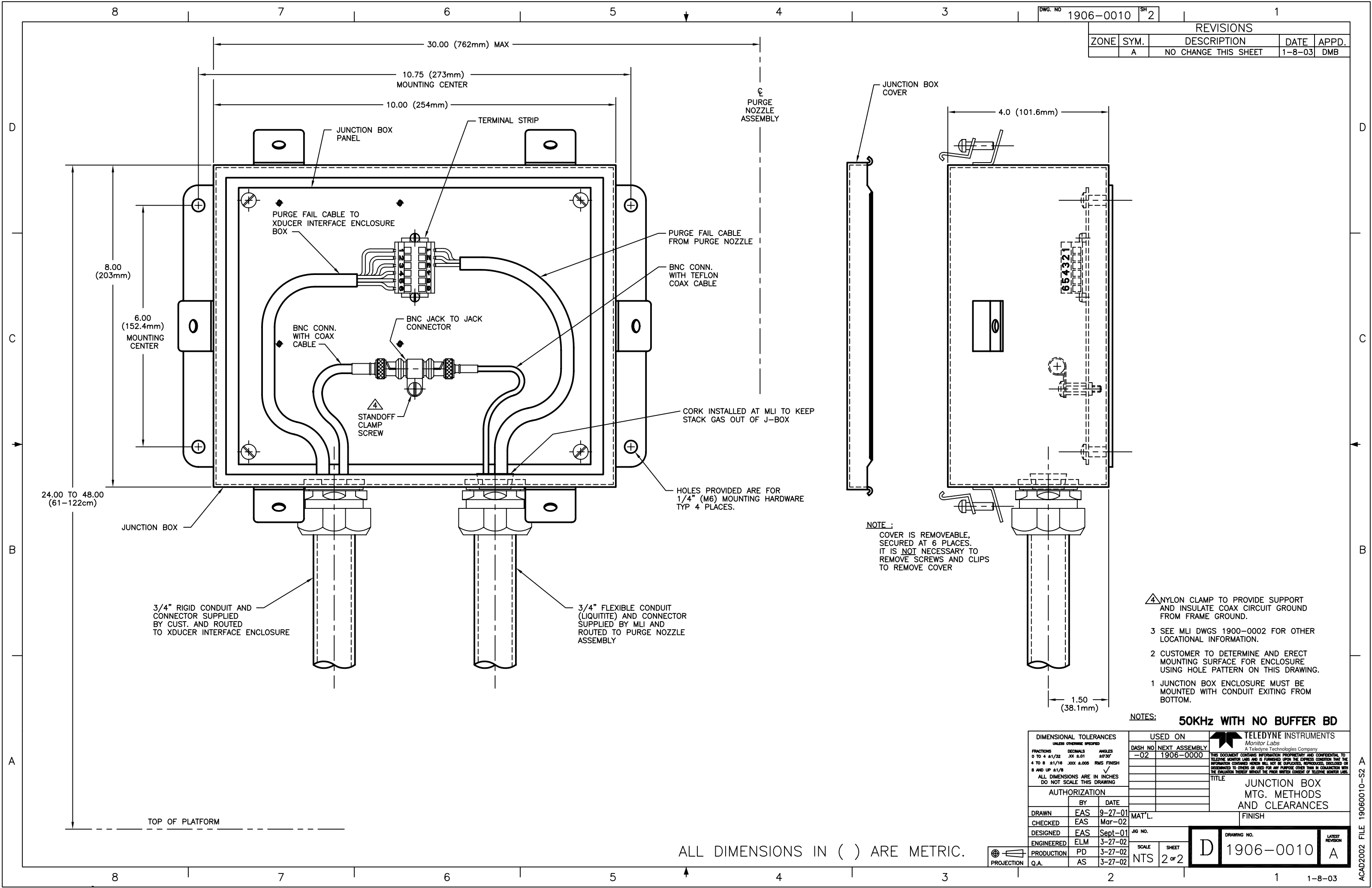
WITH BUFFER BD

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			USED ON		TELEDYNE INSTRUMENTS Monitor Labs A Teledyne Technologies Company	
FRACTIONS	DECIMALS	ANGLES	DASH NO	NEXT ASSEMBLY	THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELEDYNE MONITOR LABS AND IS FURNISHED UPON THE EXPRESS CONDITION THAT THE INFORMATION CONTAINED HEREIN WILL NOT BE REPRODUCED, DISCLOSED OR REPRODUCED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE EVALUATION THEREOF WITHOUT THE PRIOR WRITTEN CONSENT OF TELEDYNE MONITOR LABS.	
0 TO 4 ±1/32	.XX ±.01	±0°30'	-01	1906-0000		
4 TO 8 ±1/16	.XX ±.005	RMS FINISH			TITLE	
8 AND UP ±1/8					JUNCTION BOX MTG. METHODS AND CLEARANCES	
AUTHORIZATION			MAT'L.		FINISH	
	BY	DATE				
DRAWN	EAS	9-27-01				
CHECKED	EAS	Mar-02				
DESIGNED	EAS	Feb-02				
ENGINEERED	ELM	3-27-02				
PRODUCTION	PD	3-27-02				
Q.A.	AS	3-27-02				
ALL DIMENSIONS ARE IN INCHES DO NOT SCALE THIS DRAWING			SCALE		SHEET	
			NTS		1 OF 2	
DRAWING NO.			D		1906-0010	
LATEST REVISION					A	

ALL DIMENSIONS IN () ARE METRIC.



ACAD2002 FILE 19060010



REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APPD.
	A	NO CHANGE THIS SHEET	1-8-03	DMB

- 4 NYLON CLAMP TO PROVIDE SUPPORT AND INSULATE COAX CIRCUIT GROUND FROM FRAME GROUND.
- 3 SEE MLI DWGS 1900-0002 FOR OTHER LOCATIONAL INFORMATION.
- 2 CUSTOMER TO DETERMINE AND ERECT MOUNTING SURFACE FOR ENCLOSURE USING HOLE PATTERN ON THIS DRAWING.
- 1 JUNCTION BOX ENCLOSURE MUST BE MOUNTED WITH CONDUIT EXITING FROM BOTTOM.

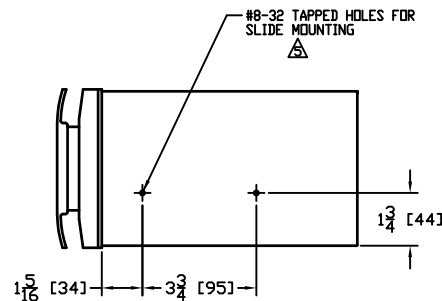
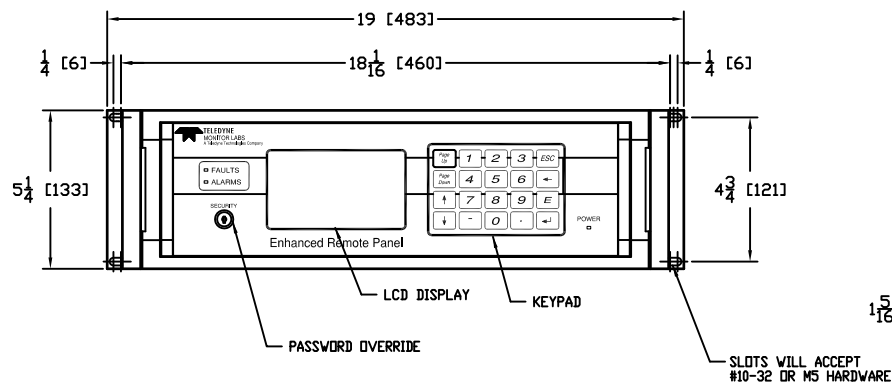
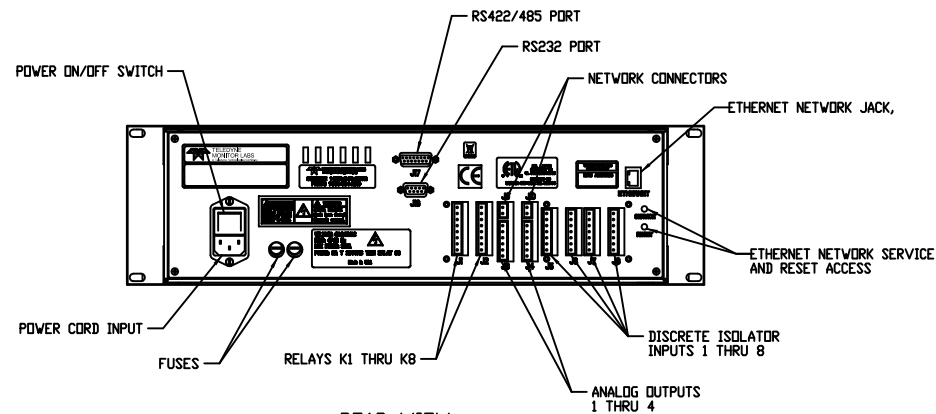
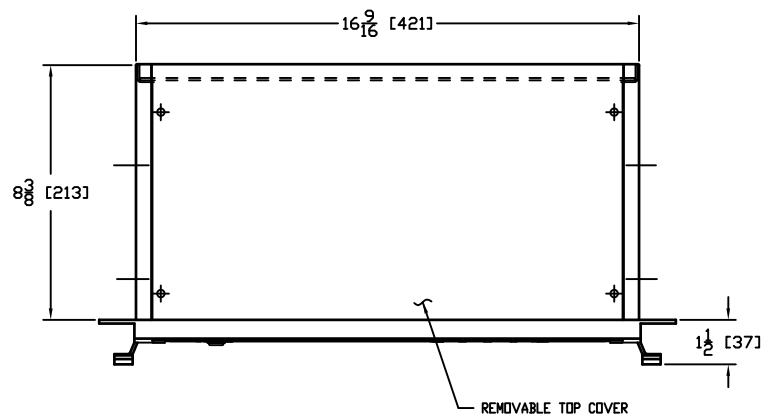
NOTES: 50KHz WITH NO BUFFER BD

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			USED ON		TELEDYNE INSTRUMENTS Monitor Labs A Teledyne Technologies Company	
FRACTIONS	DECIMALS	ANGLES	DASH NO	NEXT ASSEMBLY	THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELETYPE MONITOR LABS AND IS FURNISHED UPON THE EXPRESS CONDITION THAT THE INFORMATION CONTAINED HEREIN WILL NOT BE REPRODUCED, REPRODUCED, DISCLOSED OR DISSEMINATED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE EVALUATION THEREOF WITHOUT THE PRIOR WRITTEN CONSENT OF TELETYPE MONITOR LABS.	
0 TO 4 ±1/32	.XX ±.01	±0°30'	-02	1906-0000		
4 TO 8 ±1/16	.XX ±.005	RMS FINISH			TITLE	
8 AND UP ±1/8					JUNCTION BOX MTG. METHODS AND CLEARANCES	
AUTHORIZATION			MAT'L.		FINISH	
	BY	DATE				
DRAWN	EAS	9-27-01				
CHECKED	EAS	Mar-02				
DESIGNED	EAS	Sept-01				
ENGINEERED	ELM	3-27-02				
PRODUCTION	PD	3-27-02				
Q.A.	AS	3-27-02				
PROJECTION			SCALE	SHEET	DRAWING NO.	
			NTS	2 OF 2	D 1906-0010	
					LATEST REVISION	
					A	

ALL DIMENSIONS IN () ARE METRIC.

ACAD2002 FILE 19060010-S2

REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APP'D.
	G	PER DCN 1803-2003G	9-6-11	ELM
	H	PER DCN 1803-2003H	4-25-12	FWD



5 SLIDES ARE AVAILABLE AS AN OPTION. CONSULT FACTORY

•


3 MINIMUM REAR CLEARANCE 5'(127mm)

2 DIMENSIONS IN $\langle \rangle$ ARE METRIC

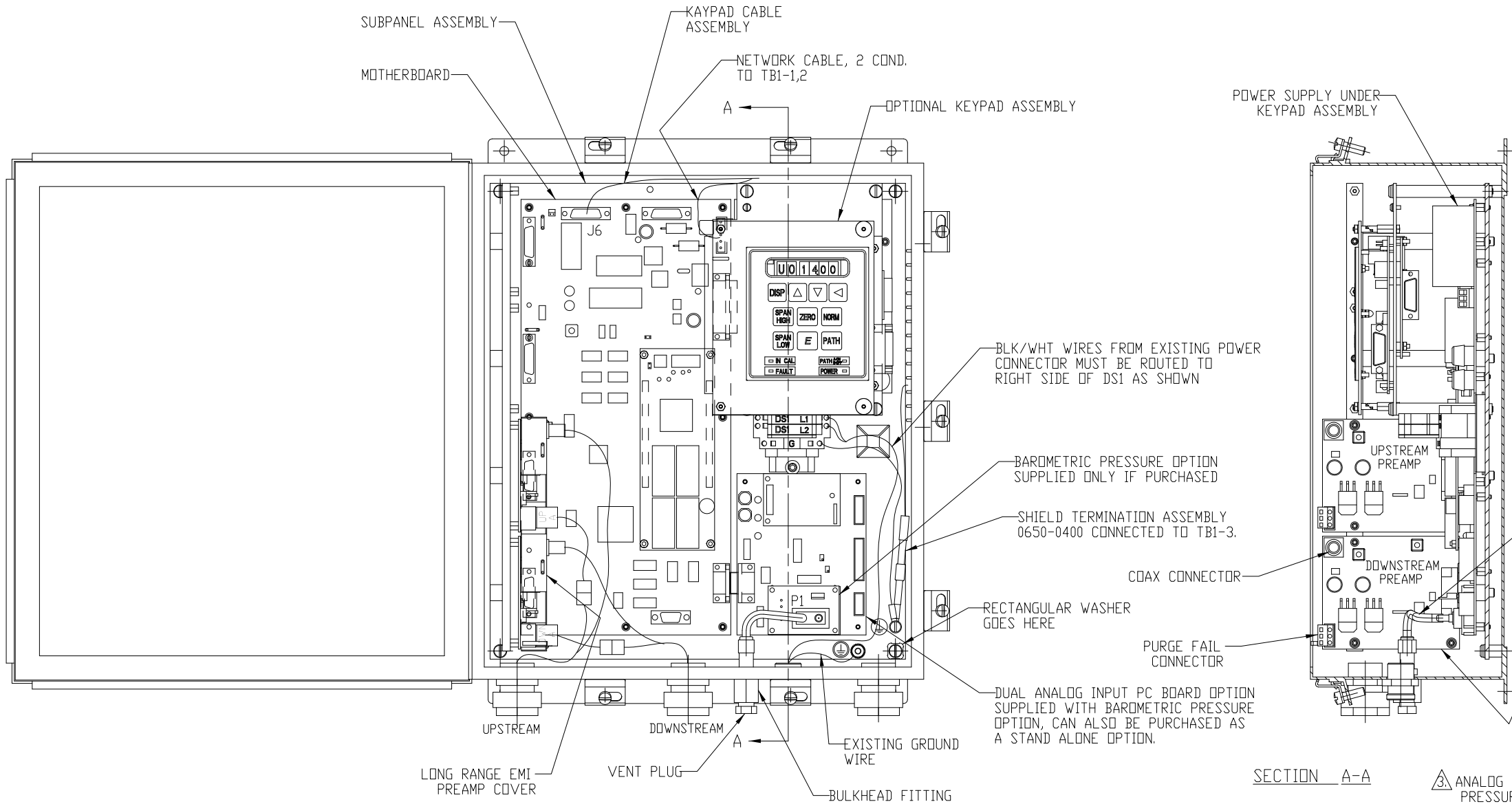
1 DISPLAY FITS IN STANDARD 19"(482.6mm) RACK MOUNT,
5-1/4" (3U) HIGH CHASSIS

NOTE:

CUSTOMER OUTLINE DRAWING

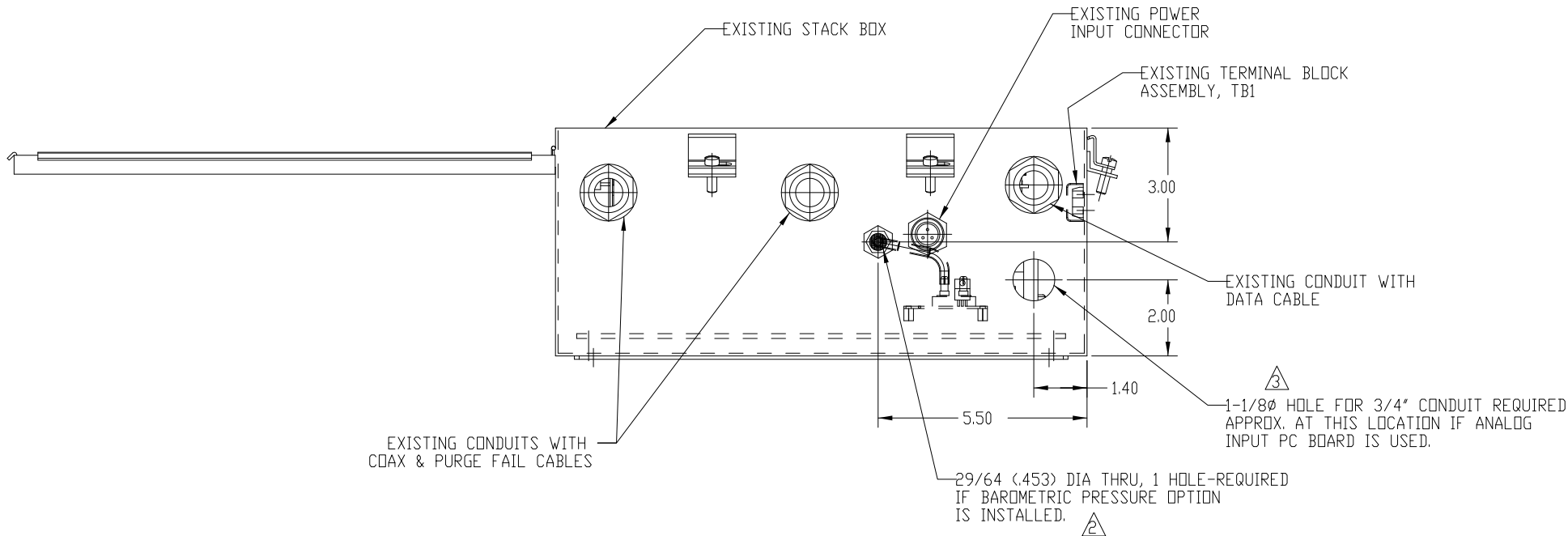
DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			USED ON WASH MOUNT ASSEMBLY		 TELEDYNE MONITOR LABS Everywhere you look
FINISHES 1 TO 6 7 TO 8 9 TO 10	DECALS 11 TO 12 13 TO 14 15 TO 16	ANGLES 17 TO 18 19 TO 20 21 TO 22	-02		
ALL DIMENSIONS ARE IN INCHES DO NOT SCALE THESE DRAWINGS			THE REMAINING PORTS, DIMENSIONS, AND FINISHES ARE SPECIFIED ON THE PORTS AND DIMENSIONS SHEET.		
TITLE TMH ENHANCED REMOTE PANEL ASSEMBLY, W/NEW CASE			FINISH		
BY DATE DRAWN EAS 15-JUL-02 CHECKED EAS 7-18-02 DESIGNED EAS JUL-02 ENGINEER CLM 7-24-02 INSPECTION PB 7-24-02 QA EAS 7-24-02			JOB NO. SCALE 1/2" = 1" SHEET 2 OF 2		
DRAWING NO. 1803-2003			LATEST H		

DWG. No. 1903-0012		SH2	1	
REVISIONS				
SYM.	DESCRIPTION	DATE	APPD.	
A	ADDED THIS SHEET PER DCN 1903-0012A	11-18-03	ELM	
B	PER DCN 1903-0012B	12-12-07	ELM	



3. ANALOG INPUT BOARD: IF USED EXTERNAL TEMP. OR PRESSURE INPUT WIRES WILL NEED ROUTED TO PC BOARD THRU 3/4" CONDUIT AS NOTED.
4. BAROMETRIC PRESSURE OPTION: IF SUPPLIED DRILL NEW HOLE AS NOTED. INSTALL BULKHEAD FITTING & SECURE WITH SEAL NUT. INSTALL VENT PLUG INTO OUTSIDE OF FITTING. INSTALL INSERT INTO ONE END OF VITON TUBING & INSTALL THAT END INTO FITTING. TIGHTEN FITTING 1-1/4 TURNS. INSTALL OTHER END OF TUBING ONTO P1 ON PRESSURE TRANSDUCER.
1. GENERAL INSTRUCTIONS: REMOVE J1 FROM MICROPROCESSOR PC BOARD & DISCONNECT OTHER END FROM TB1. DISCONNECT ALL OTHER WIRES FROM BOTTOM SIDE OF TB1 & ALSO FROM PWR SUPPLY & PREAMPS. DATA CABLE CAN REMAIN ATTACHED TO TOP OF TB1. REMOVE OLD SUB-PANEL WITH PC BOARDS. DRILL HOLES FOR OPTIONS PER NOTES IF PURCHASED. INSTALL NEW SUB-PANEL ASSEMBLY. RECONNECT WIRES PER SYSTEM WIRING DIAGRAM 1900-0005, SHT-1 FOR STD RANGE, SHT-2 FOR LONG RANGE.

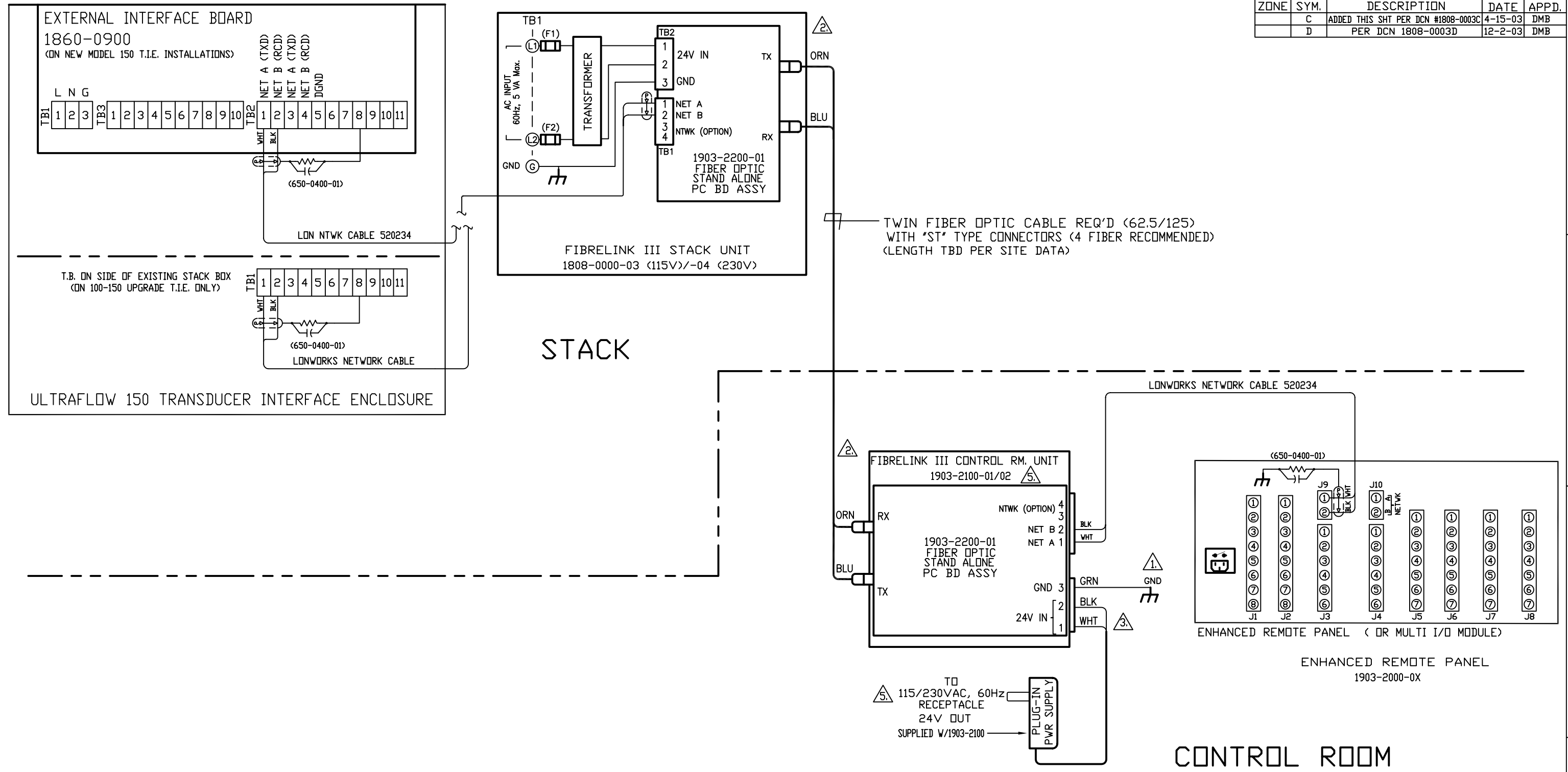
NOTES: -02 PANEL MOUNTED KEYPAD




DIMENSIONAL TOLERANCES			USED ON		TELEDYNE INSTRUMENTS Monitor Labs	
UNLESS OTHERWISE SPECIFIED	FRACTIONS	DECIMALS	DASH NO.	NEXT ASSEMBLY		
0 TO 4 +1/-32	.XX	±.01	-02	UFS04P0RD	THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELEDYNE MONITOR LABS AND IS FURNISHED UPON THE EXPRESS CONDITION THAT THE INFORMATION CONTAINED HEREIN WILL NOT BE REPRODUCED, REPRODUCED, DISCLOSED OR DISSEMINATED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE EVALUATION THEREOF WITHOUT THE PRIOR WRITTEN CONSENT OF TELEDYNE MONITOR LABS.	
4 TO 8 +1/-16	.XXX	±.005				
8 AND UP ±1/8		RMS FINISH			TITLE UF150 SUB PANEL ASSY, UPGRADE INSTALLATION	
ALL DIMENSIONS ARE IN INCHES						
DO NOT SCALE THIS DRAWING					AUTHORIZATION	
	BY	DATE				
DRAWN	EAS	18-Nov-03			MAT'L	
CHECKED	EAS	12-3-03				
DESIGNED	EAS	Nov-03			JIG NO.	
ENGINEERED	ELM	12-4-03				
PRODUCTION	PD	12-4-03			SCALE	
D.A.	AS	12-4-03				
					SHEET	
					FINISH	
					DRAWING NO.	
					REVISION	
					1903-0012	
					B	



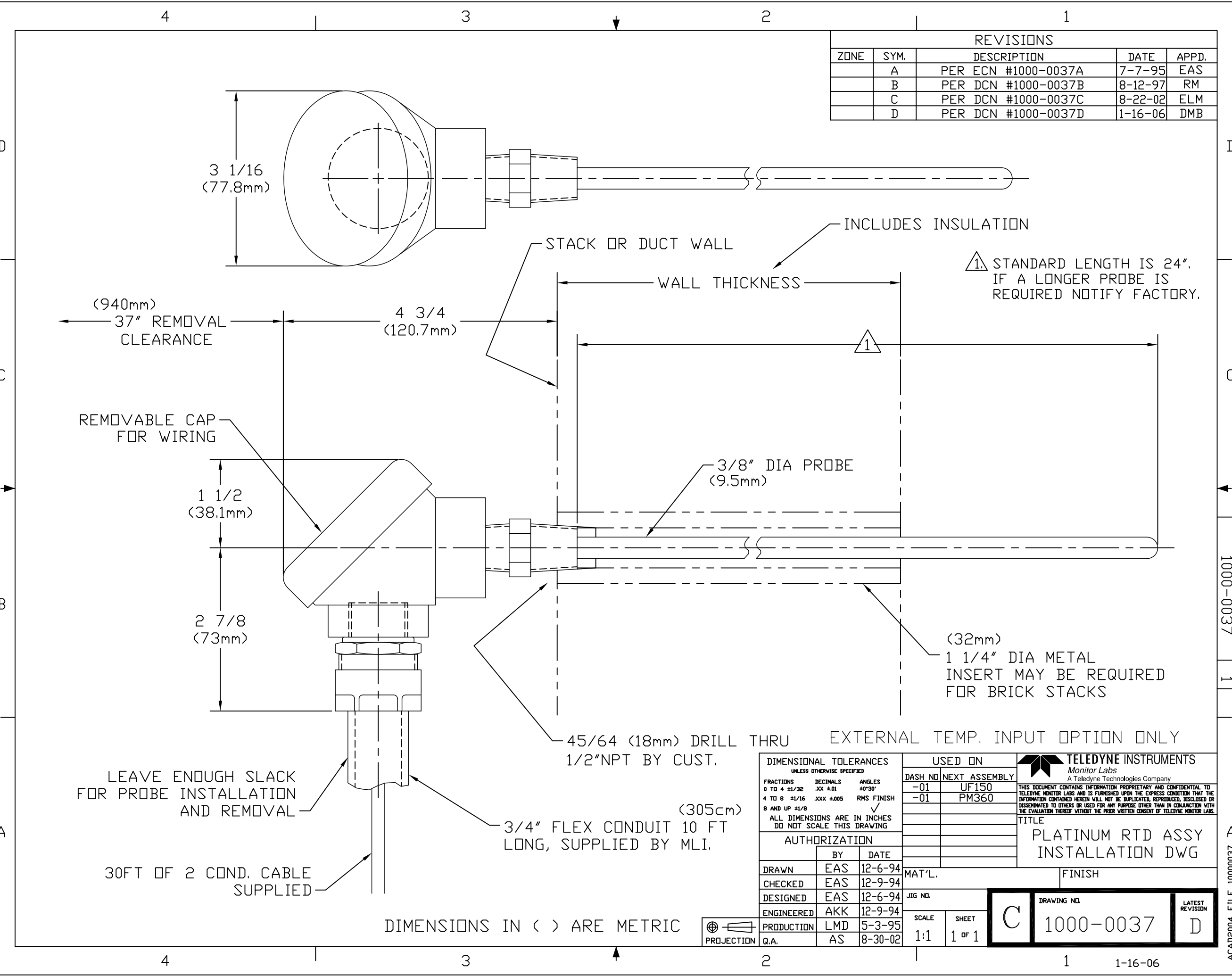
DWG. NO.	1808-0003	SH	4	1
REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APPD.
	C	ADDED THIS SHT PER DCN #1808-0003C	4-15-03	DMB
	D	PER DCN 1808-0003D	12-2-03	DMB




DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			USED ON		 TELEDYNE INSTRUMENTS Monitor Labs A Teledyne Technologies Company	
FRACTIONS	DECIMALS	ANGLES	DASH NO.	NEXT ASSEMBLY	THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELETYPE MONITOR LABS AND IS FURNISHED UNDER THE EXPRESS CONDITION THAT THE INFORMATION CONTAINED HEREIN WILL NOT BE REPRODUCED, REPERFORATED, REPRODUCED OR DISSEMINATED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE EVALUATION THEREOF WITHOUT THE PRIOR WRITTEN CONSENT OF TELETYPE MONITOR LABS.	
0 TO 4 31/32	.001	90°/30°		150 TOP	TITLE	
4 TO 8 31/16	.005	RMS FINISH			SYSTEM WIRING DIAGRAM	
8 AND UP 31/8					150 WITH FIBRELINK III OPTION (SUPPLEMENTAL DRAWING)	
ALL DIMENSIONS ARE IN INCHES DO NOT SCALE THIS DRAWING			AUTHORIZATION			FINISH
DRAWN	DCH	3-24-03	MAT'L.			
CHECKED	DMB	7-11-03				
DESIGNED	DCH	3-24-03	JIG NO.		DRAWING NO.	
ENGINEERED	DMB	7-11-03			LATEST REVISION	
PRODUCTION	PD	7-11-03	SCALE		D	
G.A.	AS	7-11-03	SHEET		1808-0003 D	
			NTS		4 OF 6	



ACAD2002 FILE 18080003S4

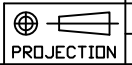


REVISIONS				
ZONE	SYM.	DESCRIPTION	DATE	APPD.
	A	PER ECN #1000-0037A	7-7-95	EAS
	B	PER DCN #1000-0037B	8-12-97	RM
	C	PER DCN #1000-0037C	8-22-02	ELM
	D	PER DCN #1000-0037D	1-16-06	DMB

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			USED ON		 TELEDYNE INSTRUMENTS Monitor Labs A Teledyne Technologies Company	
FRACTIONS	DECIMALS	ANGLES	DASH NO	NEXT ASSEMBLY		
0 TO 4 ±1/32	.XX ±.01	±0°30'	-01	UF150	THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO TELEDYNE MONITOR LABS AND IS FURNISHED UPON THE EXPRESS CONDITION THAT THE INFORMATION CONTAINED HEREIN WILL NOT BE DUPLICATED, REPRODUCED, DISCLOSED OR DISSEMINATED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN IN CONJUNCTION WITH THE EVALUATION THEREOF WITHOUT THE PRIOR WRITTEN CONSENT OF TELEDYNE MONITOR LABS.	
4 TO 8 ±1/16	.XXX ±.005	RMS FINISH	-01	PM360		
8 AND UP ±1/8						
ALL DIMENSIONS ARE IN INCHES DO NOT SCALE THIS DRAWING					TITLE PLATINUM RTD ASSY INSTALLATION DWG	
AUTHORIZATION						
	BY	DATE				
DRAWN	EAS	12-6-94	MAT'L.		FINISH	
CHECKED	EAS	12-9-94				
DESIGNED	EAS	12-6-94	JTG NO.		DRAWING NO. 1000-0037	
ENGINEERED	AKK	12-9-94				
PRODUCTION	LMD	5-3-95	SCALE 1:1		SHEET 1 OF 1	
Q.A.	AS	8-30-02				
					LATEST REVISION D	

DWG. NO. 1000-0037
SHEET 1
A 42000001 3T11 4002DCA

DIMENSIONS IN () ARE METRIC



1-16-06