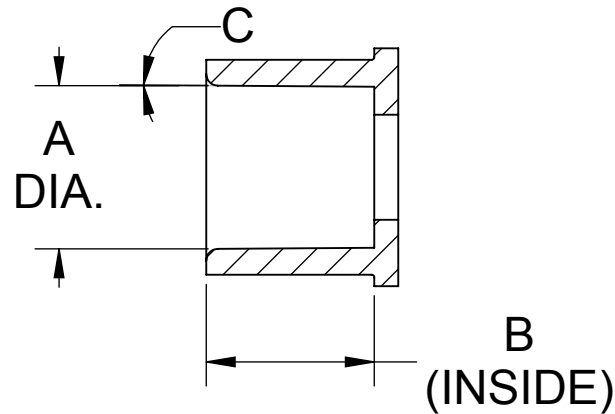
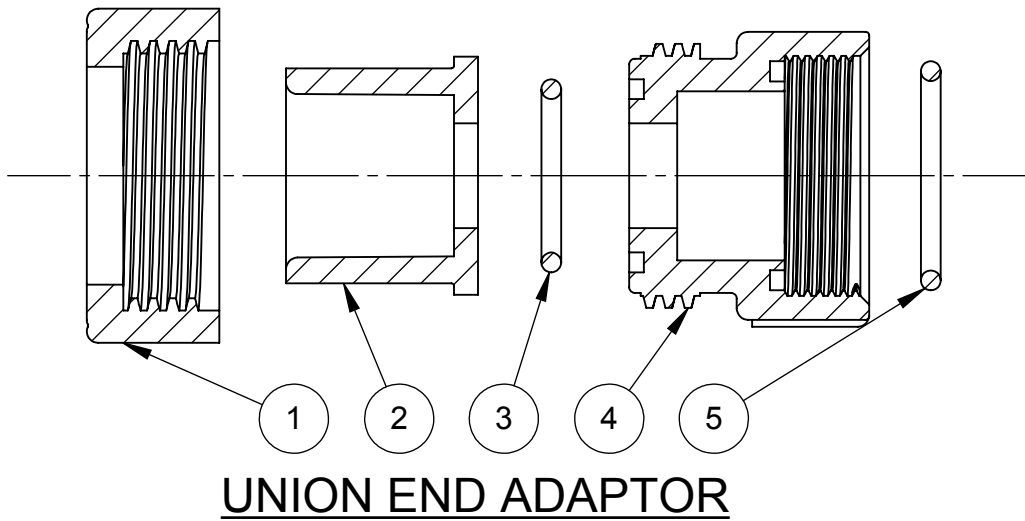


REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APP'D
1416	A	RELEASE NEW DESIGN	07/25/01	VP
103861	B	1- REDRAWN IN SOLIDWORKS, 2- WAS 1074991, 3- WAS 1070153, 4- WAS 1070154, 5- WAS 57.2 MM, 6- WAS 23.5 MM	10/06/14	TJM
1001	C	AQ Matic UPDATE & VERIFIED PART NUMBERS	01/20/17	MGs
1507	D	1-ADD MODEL NUMBERS TO KIT CALLOUTS, 2-CORRECT MINOR ERRORS, 3- CONSOLIDATE 1081309 & 1081309-2	05/15/19	KJB



FEMALE SOCKET WELD END CONNECTOR

VALVE SERIES	STANDARD	DIAMETER A	DEPTH B	TAPER C
520	A.S.T.M. 1/2"	.848/.856"	.875"	0°, 24'
	I.S.O. NS-15	20.1/20.3 MM	22.2 MM	0°, 15'
	J.I.S 16	21.9/22.3 MM	22.2 MM	0°, 19'
521	A.S.T.M. 1"	1.325/1.335"	1.125"	0°, 23'
	I.S.O. NS-25	32.1/32.3 MM	28.6 MM	0°, 15'
	J.I.S 25	31.9/32.4 MM	28.6 MM	0°, 16'
524	A.S.T.M. 1-1/2"	1.912/1.924"	1.375"	0°, 23'
	I.S.O. NS-40	50.1/50.3 MM	34.9 MM	0°, 15'
	J.I.S 40	47.9/48.5 MM	34.9 MM	0°, 16'



SERIES 520 UNION END ADAPTOR KITS

A.S.T.M. 1/2" INCLUDES ITEMS 1,2,3,4,5	E.P.D.M O-RING	1070184 (K520100)
	BUTYL O-RING	1070185 (K520101)
	FKM O-RING	1070186 (K520102)
I.S.O NW-15 INCLUDES ITEMS 1,2,3,4,5	E.P.D.M O-RING	1070190 (K520103)
	BUTYL O-RING	1070191 (K520104)
	FKM O-RING	1070192 (K520105)
J.I.S - 16 INCLUDES ITEMS 1,2,3,4,5	E.P.D.M O-RING	1070193 (K520106)
	BUTYL O-RING	1070194 (K520107)
	FKM O-RING	1070195 (K520108)

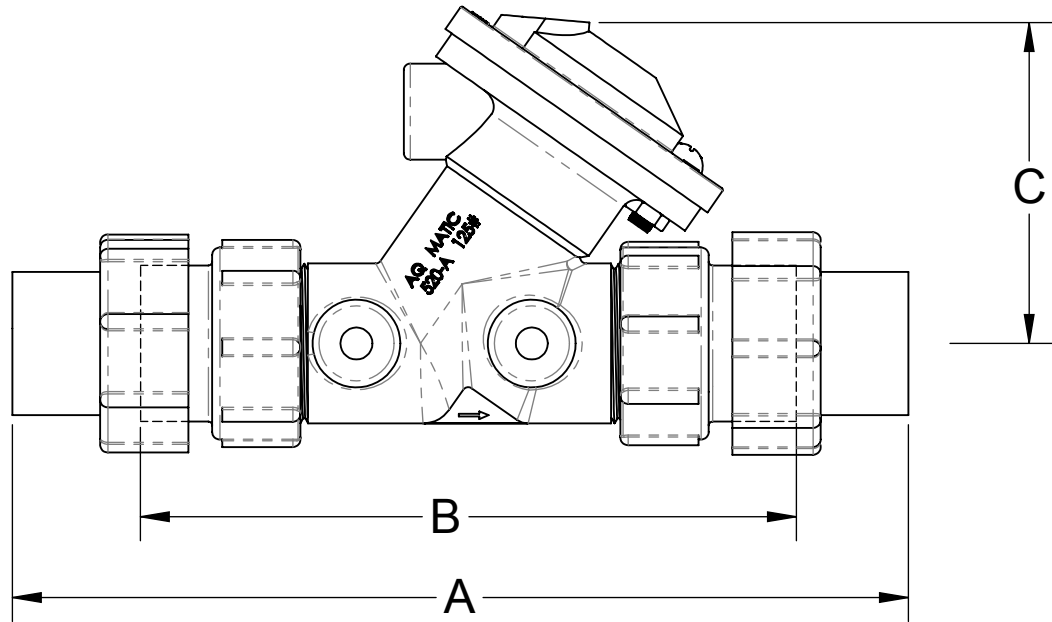
SERIES 521 UNION END ADAPTOR KITS

A.S.T.M. 1" INCLUDES ITEMS 1,2,3,4,5	E.P.D.M O-RING	1070202 (K521100)
	BUTYL O-RING	1071153 (K521101)
	FKM O-RING	1071154 (K521102)
I.S.O NW-25 INCLUDES ITEMS 1,2,3,4,5	E.P.D.M O-RING	1070204 (K521103)
	BUTYL O-RING	1071155 (K521104)
	FKM O-RING	1071156 (K521105)
J.I.S - 25 INCLUDES ITEMS 1,2,3,4,5	E.P.D.M O-RING	1070205 (K521106)
	BUTYL O-RING	1071157 (K521107)
	FKM O-RING	1071158 (K521108)

SERIES 524 UNION END ADAPTOR KITS

A.S.T.M. 1-1/2" INCLUDES ITEMS 1,2,3,4,5	E.P.D.M O-RING	1070208 (K524100)
	BUTYL O-RING	1071220 (K524101)
	FKM O-RING	1070209 (K524102)
I.S.O NW-40 INCLUDES ITEMS 1,2,3,4,5	E.P.D.M O-RING	1070212 (K524103)
	BUTYL O-RING	1071221 (K524104)
	FKM O-RING	1070213 (K524105)
J.I.S - 40 INCLUDES ITEMS 1,2,3,4,5	E.P.D.M O-RING	1070214 (K524106)
	BUTYL O-RING	1071222 (K524107)
	FKM O-RING	1070215 (K524108)

NOTE: ALL ADAPTOR KITS CONTAIN (2) ADAPTORS, (ONE KIT REQ'D PER VALVE)



VALVE SERIES	UNITS	LENGTH A	LENGTH B	HEIGHT C
520	INCHES	7.00	4.87	2.62
	MM	177.8	123.7	66.5
521	INCHES	9.00	6.31	4.06
	MM	228.6	160.3	103.1
524	INCHES	12.50	9.31	5.06
	MM	317.5	236.5	128.5

- SEE DRAWING 1078150 FOR THREADED SOCKET WELD ENDS & THREADED FLANGED ADAPTORS

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DO NOT SCALE DRAWING. DIMS. ARE IN INCHES [mm]
INTERPRET DIMS AND TOLERANCES PER ASME Y14.5M -1994
UNLESS OTHERWISE SPECIFIED:
CORNER FILLETS R.005-.020 [.127-.508]
TOLERANCES:
ANGLES: ±1°
1 PLACE .X: ±.100 [2.54]
2 PLACE .XX: ±.010 [0.25]
3 PLACE .XXX: ±.005 [0.13]

THIRD ANGLE PROJECTION

APPROVALS

DATE

DRAWN MCP

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APPROVED

7OCT14

1081309

1:2

SOLIDWORKS FORMAT

SHEET 1 OF 2

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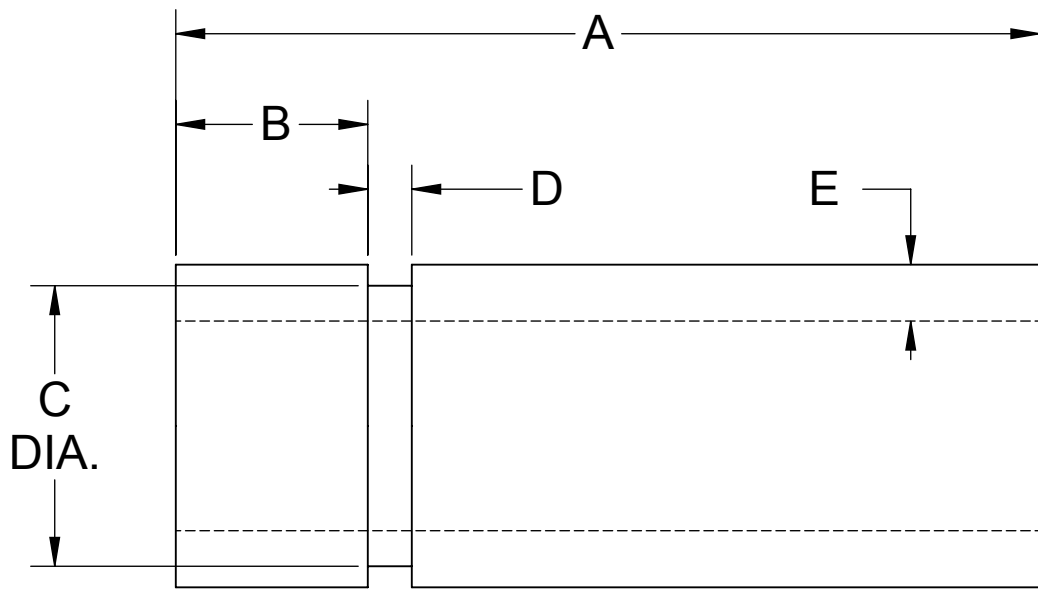
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K520, K521, K524 END CONECTOR PARTS & KITS

SIZE C

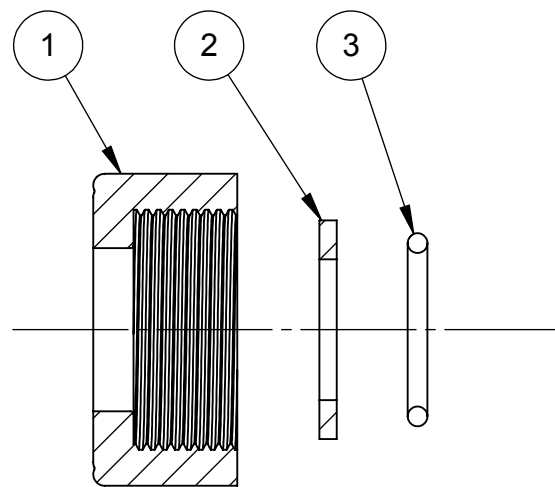
DWG NO. 1081309

REV. D



RING GROOVE DIMENSIONS

VALVE SERIES	UNITS	LENGTH A	LOCATION B	DIA. C	WIDTH D	WALL THK E
520	INCHES MM	<u>2.25</u> 57.2	<u>0.500</u> 12.7	<u>0.730</u> 18.5	<u>0.115</u> 2.9	<u>0.147</u> 3.7
521	INCHES MM	<u>3.00</u> 76.2	<u>0.500</u> 12.7	<u>1.200</u> 30.5	<u>0.115</u> 2.9	<u>0.179</u> 4.55
524	INCHES MM	<u>4.00</u> 101.6	<u>0.875</u> 22.2	<u>1.800</u> 45.7	<u>0.115</u> 2.9	<u>0.200</u> 5.1



RETAINER NUT/SPLIT RING CONNECTOR

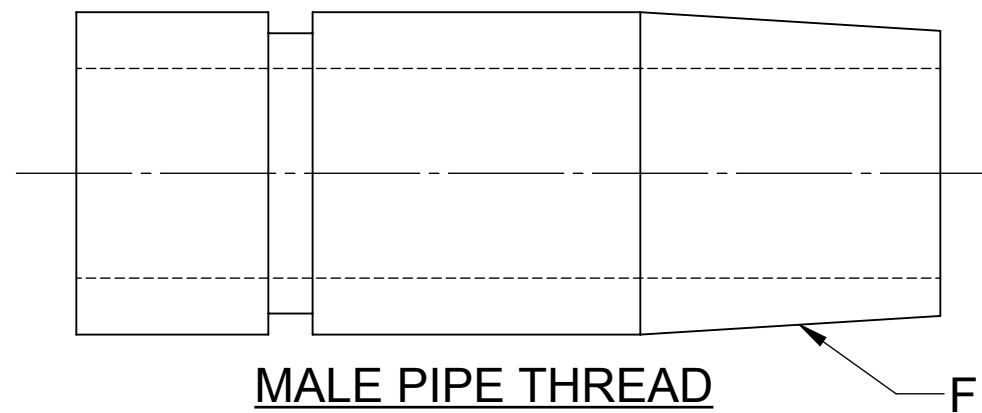
VALVE SERIES			520	521	524
1	RETAINER NUT		1074974	1075041	1075112
2	SPLIT RING		1074975	1075042	1075113
3	O-RING	E.P.D.M	1071730	1071732	1071734
		BUTYL	1071766	1071768	1071770
		FKM	1071801	1071803	1071806

RETAINER NUT/SPLIT RING CONNECTOR KITS

SERIES 520 INCLUDES ITEMS 1,2,3	E.P.D.M O-RING	1070238 (K520109)
	BUTYL O-RING	1070239 (K520110)
	FKM O-RING	1070240 (K520111)
SERIES 521 INCLUDES ITEMS 1,2,3	E.P.D.M O-RING	1070244 (K521109)
	BUTYL O-RING	1071159 (K521110)
	FKM O-RING	1071160 (K52111)
SERIES 524 INCLUDES ITEMS 1,2,3	E.P.D.M O-RING	1070246 (K524109)
	BUTYL O-RING	1071223 (K524110)
	FKM O-RING	1070247 (K524111)

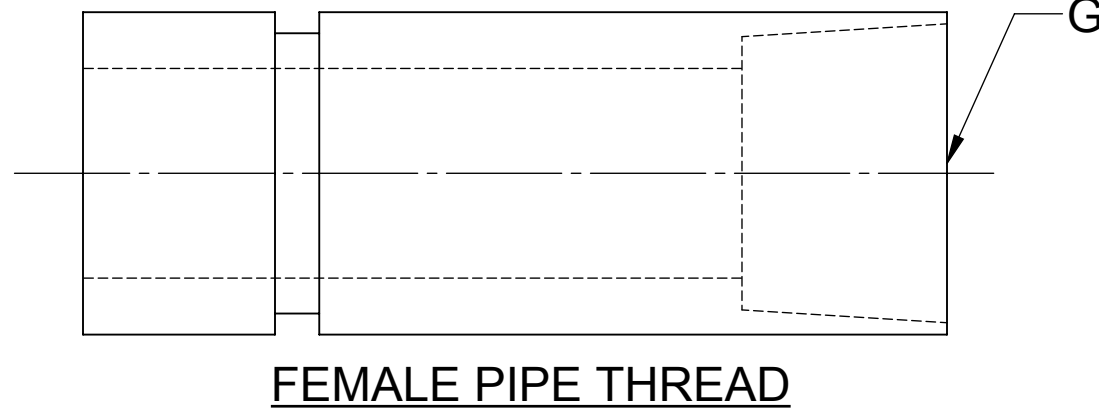
NOTE: ALL CONNECTOR KITS CONTAIN (2)
CONNECTORS, (ONE KIT REQ'D PER VALVE)

GROOVED ADAPTOR KITS



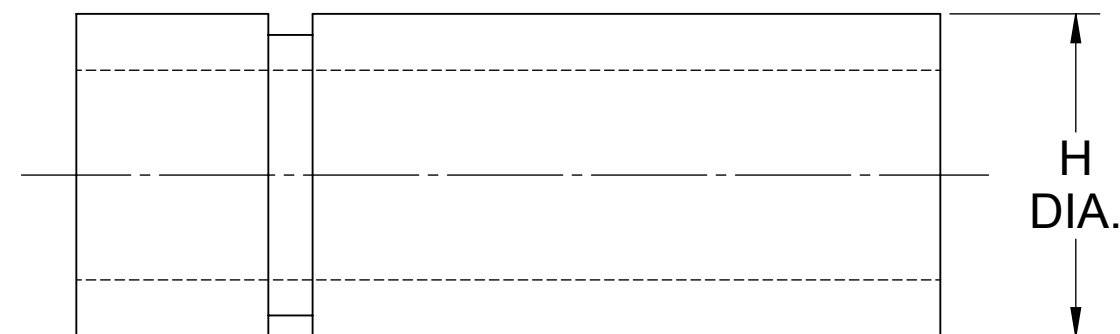
MALE PIPE THREAD

VALVE SERIES	520	521	524
PART NO.	1070221	1070227	1070233
DIM. F	1/2" NPT	1" NPT	1-1/2" NPT



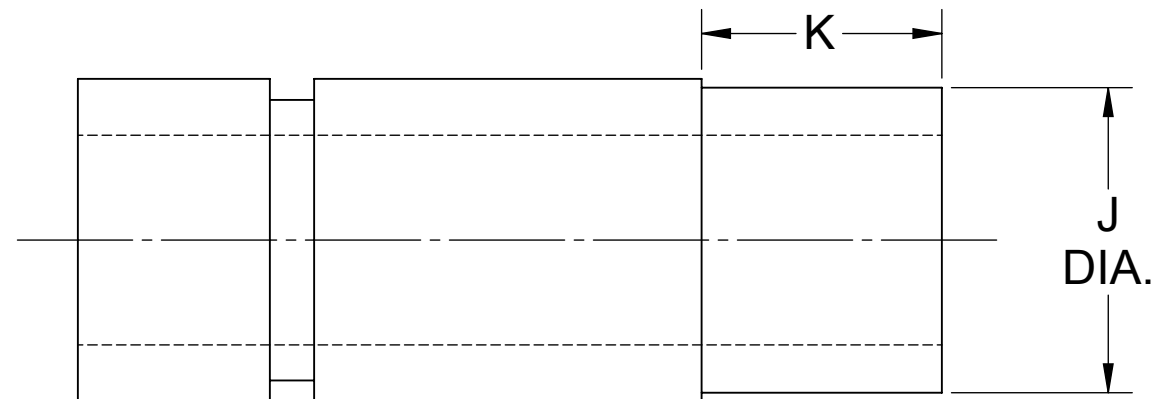
FEMALE PIPE THREAD

VALVE SERIES	520	521	524
PART NO.	1070222	1070228	1070234
DIM. G	3/8" NPT	3/4" NPT	1-1/4" NPT



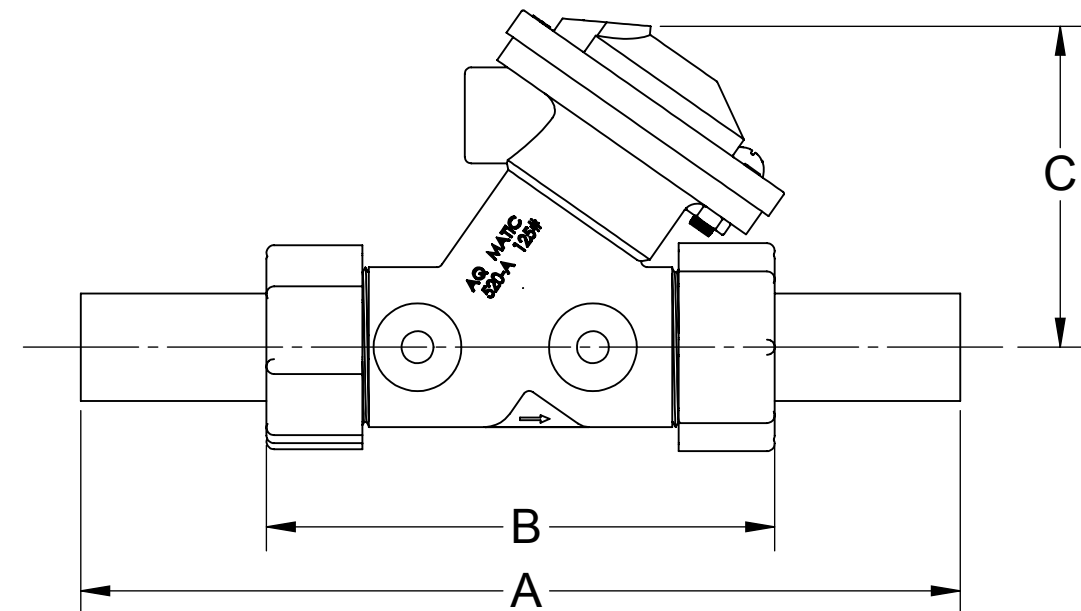
MALE SOCKET WELD

VALVE SERIES	520	521	524
PART NO.	1070220	1070226	1070232
DIM. H	<u>0.840 IN.</u> 21.3 MM	<u>1.315 IN.</u> 33.4 MM	<u>1.900 IN.</u> 48.3 MM



MALE SOCKET WELD (METRIC)

VALVE SERIES	520	521	524
PART NO.	1071057	1071091	1071162
DIM. J	20.2 MM	32.2 MM	50.2 MM
DIM. K	15.9 MM	25.4 MM	30.0 MM



VALVE SERIES	UNITS	LENGTH A	LENGTH B	HEIGHT C
520	INCHES MM	<u>7.00</u> 177.8	<u>3.93</u> 99.8	<u>2.62</u> 66.5
521	INCHES MM	<u>9.00</u> 228.6	<u>4.50</u> 114.3	<u>4.06</u> 103.1
524	INCHES MM	<u>13.25</u> 336.5	<u>7.75</u> 196.9	<u>5.06</u> 128.5

- SEE DRAWING 1078150 FOR THREADED SOCKET WELD ENDS & THREADED FLANGED ADAPTORS

NOTE: ALL ADAPTOR KITS CONTAIN (2) ADAPTORS, (ONE KIT REQ'D PER VALVE)

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THIRD ANGLE PROJECTION

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MCP

7OCT14

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K520, K521, K524 END CONNECTOR PARTS & KITS

SIZE C

DWG NO. 1081309

REV. D

SCALE 1:2

SOLIDWORKS FORMAT

SHEET 2 OF 2