P1

r1	1
g1	2
b1	3
r2	4
g2	5
b2	6
clk	7
lat	8
oe	9

Header 9

P2

3V3	1
gnd	2
i2c_sda	3
i2c_scl	4
analog_1	5
analog_2	6
analog_3	7
analog_4	8
	9

Header 9

5V gnd sda scl

Vin 3V Gnd SDA SCL RST

*
bno

PS0 PS1 INT ADR RST

9 - 6 -   7 - 8 -

TB1

		+5V	27	5V
		3V3	17	
		AREF	18	
30	VIN			
3	RESET			
28	RESET			
19	A0	analog_1		
20	A1	analog_2		
21	A2	analog_3		
22	A3	analog_4		
23	A4	sda		
24	A5	scl		
25	A6			
26	A7			

	D7	10	
	D8	11	
	D9	12	clk
	D10	13	lat
	D11/MOSI	14	oe
	D12/MISO	15	
	D13/SCK	16	

r1	2	D0/RX
r2	1	D1/TX
g1	5	D2
g2	6	D3
b1	7	D4
b2	8	D5
	9	D6

| COM/GND | 4 | gnd |
| COM/GND | 29 | gnd |

ARDUINO_NANO

BNO0805

22	PS0	GND	8	bno080 *
21	PS1	3V3	7	
20	GND	SCK	6	
19	3V3	SO	5	
18	SDA	SI	4	
17	SCL	~CS	3	
16	~RST	~WAK	2	
15	~INT	~RST	1	

gnd
3V3
i2c_sda
i2c_scl

GRN TXO RXI
9   10   11
3V3 BLK
12   14

Title

| Size | Number | | Revision |
| A | | | |

Date: 6/10/2023
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Drawn By:

H.M.R Designs

BN0055

5v

gnd
3.3 BN0080
SDA
SCL

gnd
SDA
SCL

Arduino Nano

3v

gnd

gnd

*
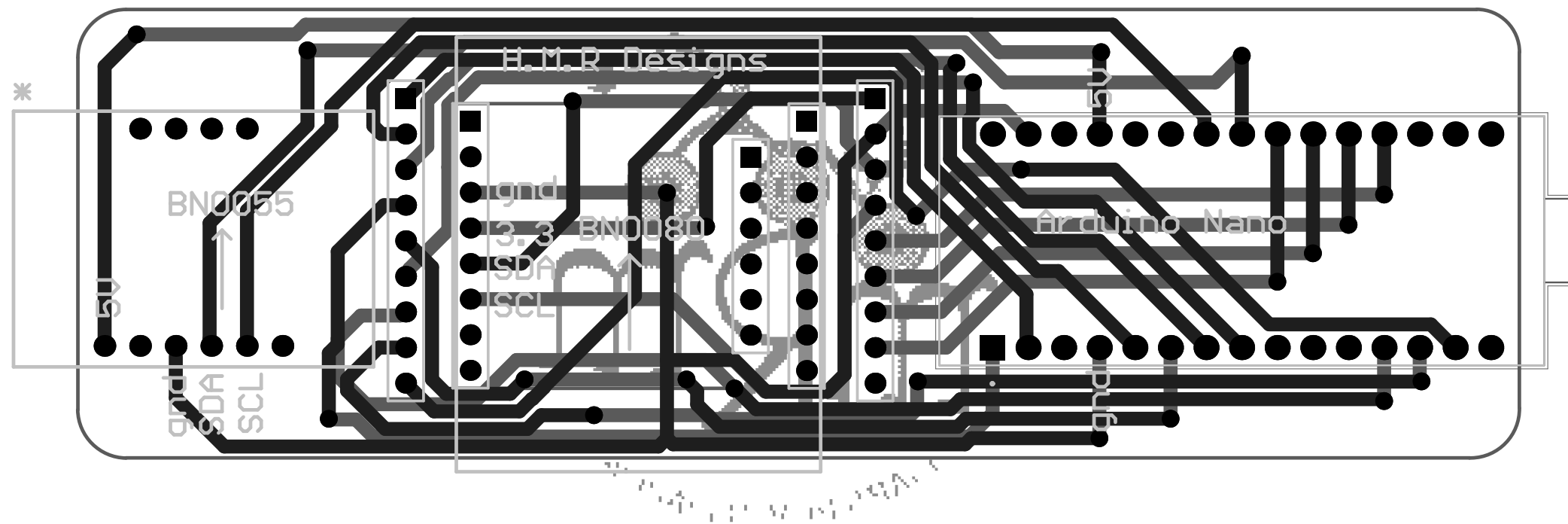
Comment	Description	Designator	Footprint	LibRef	Quantity
bno			BNO	bno	1
bno080			bno080	bno080	1
Header 9	Header, 9-Pin	P1, P2	HDR1X9	Header 9	2
ARDUINO_NANO	Small, complete, and breadboard-friendly board based on the ATmega328 (Arduino Nano 3.x)	TB1	SHIELD_ARDUINO_NANO	ARDUINO_NANO	1