

10. Schematic Diagrams

10.1 Main Board(1/7)

	1	2	3	4	5	6	7	8
A								
B								
C								
D								
E								
F								

Sheet	Description
1	INDEX
2	ASIC (CHORUS 2)
3	SDRAM, FLASH ROM
4	LSU, SMPS, PANEL, COVER OPEN
5	CIS, SCAN MOTOR
6	FUSER, MAIN MOTOR, CLUTCHES
7	PTL, FAN2
8	USB2.0, CRUM
9	
10	
11	
12	

Eiger
Main controller
REV 0.3

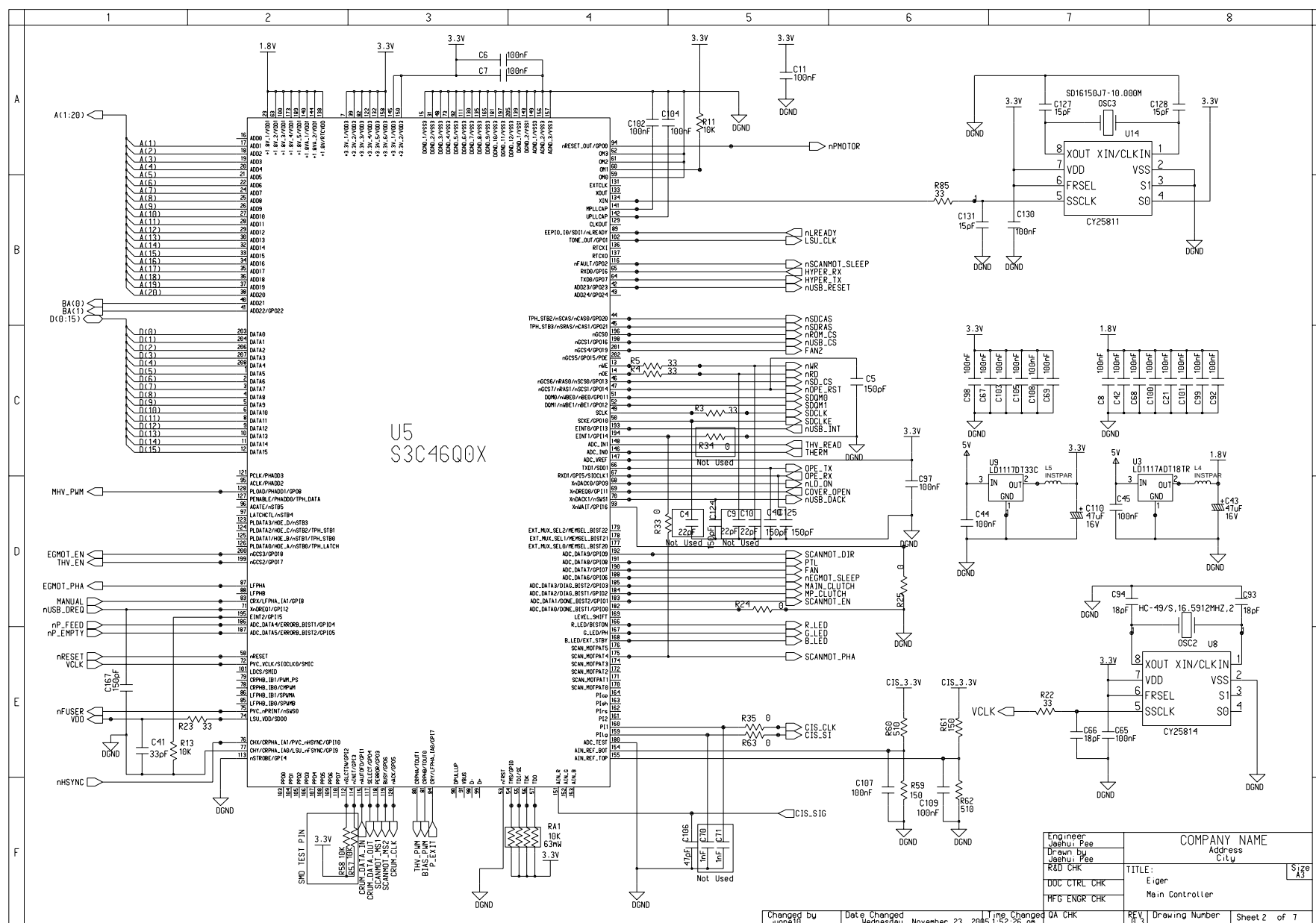
== MEMO ==

1. GP1 PULL DOWN (GP113,GP115) -2PAGE
2. EEPROM DELETE -3PAGE
3. ADD CRUM CLK on SDRAM signal -3PAGE
4. CIS 12V PART JUMPER ADD -5PAGE
5. CIS PART CAP CHANGE ON CLK AND S1 LINE -2.5PAGE
6. PTL CURRENT CONTROL RESISTOR CHANGE(510MH -> 620MH) -6PAGE
7. MAIN MOTOR DRIVE IC PART ADD CAPACITOR ON VCC -6PAGE
8. MAIN MOTOR CURRENT CONTROL RESISTOR CHANGE (1.4A) -6PAGE

----- CHANGES BETWEEN REV0.0 AND REV0.1-----
9. CRUM PORTS AND SCAN MOTOR PORTS ADDED -2PAGE
10. HOME DETECT PORT DELETED -2PAGE
11. X-TAL LOAD CAPS CHANGED TO 150F -2PAGE
12. FLASH MEMORY EXTENSION CONSIDERATION (1MB->2MB) -3PAGE
13. ADDED R (1KOHM) ON PANEL RESET SIGNAL -4PAGE
14. SCAN MOTOR DRIVE IC CHANGED FROM LG219 TO A39T7 -5PAGE
15. MAIN MOTOR IC CURRENT CHANGED -6PAGE
16. FUSER CIRCUIT CHANGED -6PAGE
17. CRUM CIRCUIT ADDED -7PAGE

Engineer Jeehul Lee	COMPANY NAME
Drawn by Jeehul Lee	Address
R&D CHK	City
DWG CTRL CHK	TITLE: EIGER
PHS ENGR CHK	Main Controller
REV 0.2	Sheet 1 of 7

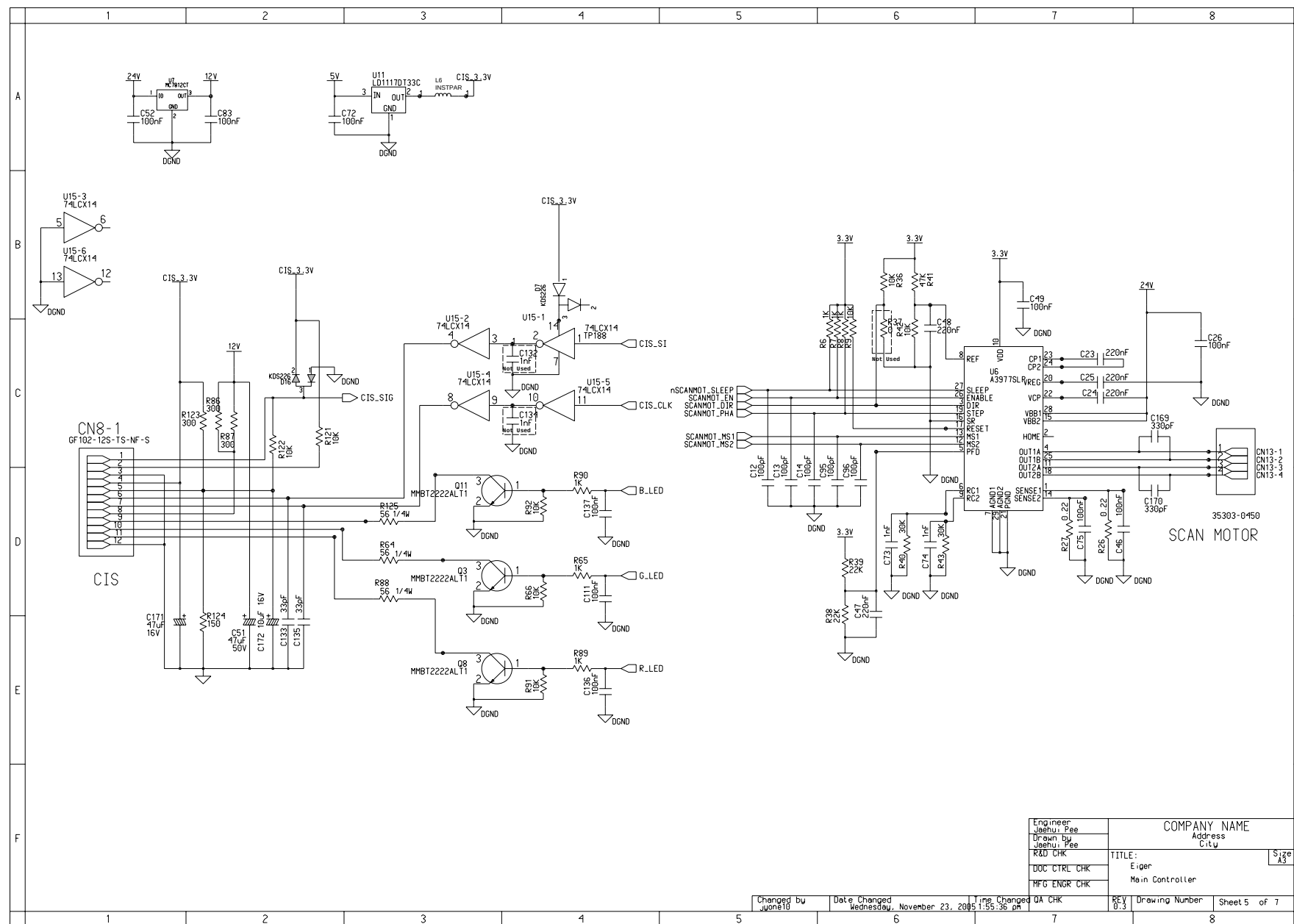
Changed by Lee	Date Changed Monday, October 10, 2005	Eng. Changed 2:31:48 PM	DA CHK	Drawing Number	Sheet 1 of 7
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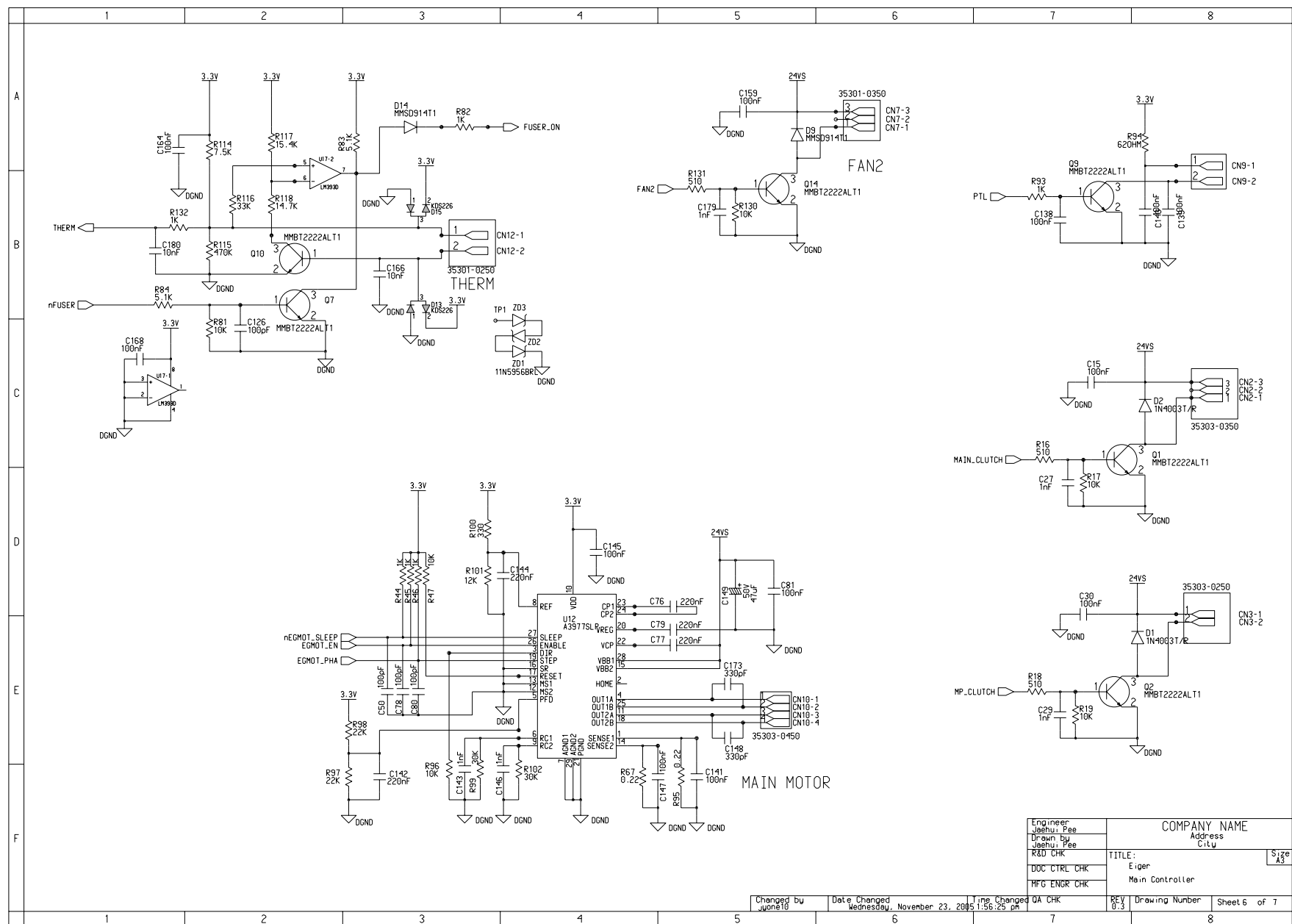


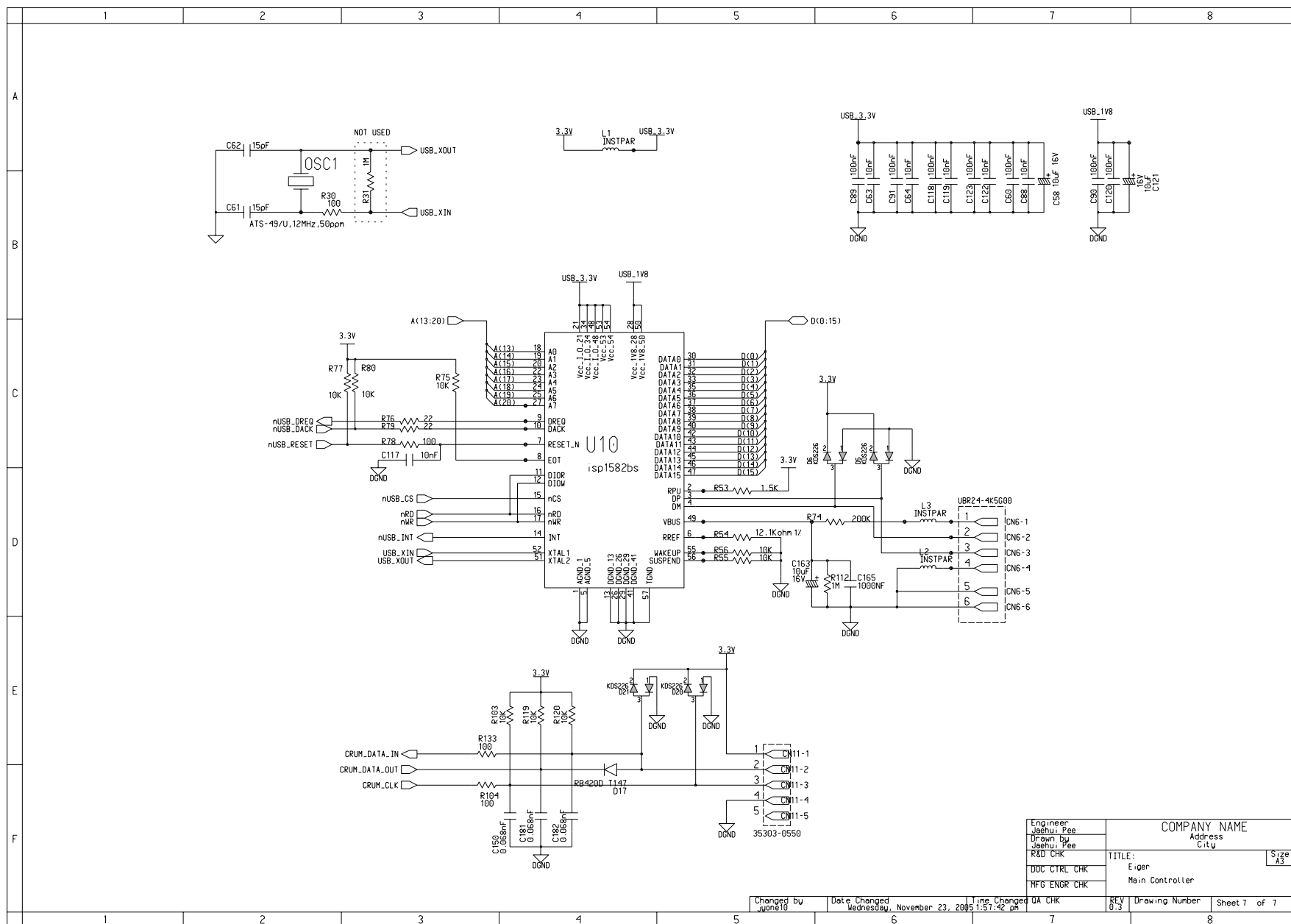
Changed by June10 Date Changed Wednesday, November 23, 2005 1:52:26 pm Time Changed 0A CHK REV 0.3 Drawing Number Sheet 2 of 7









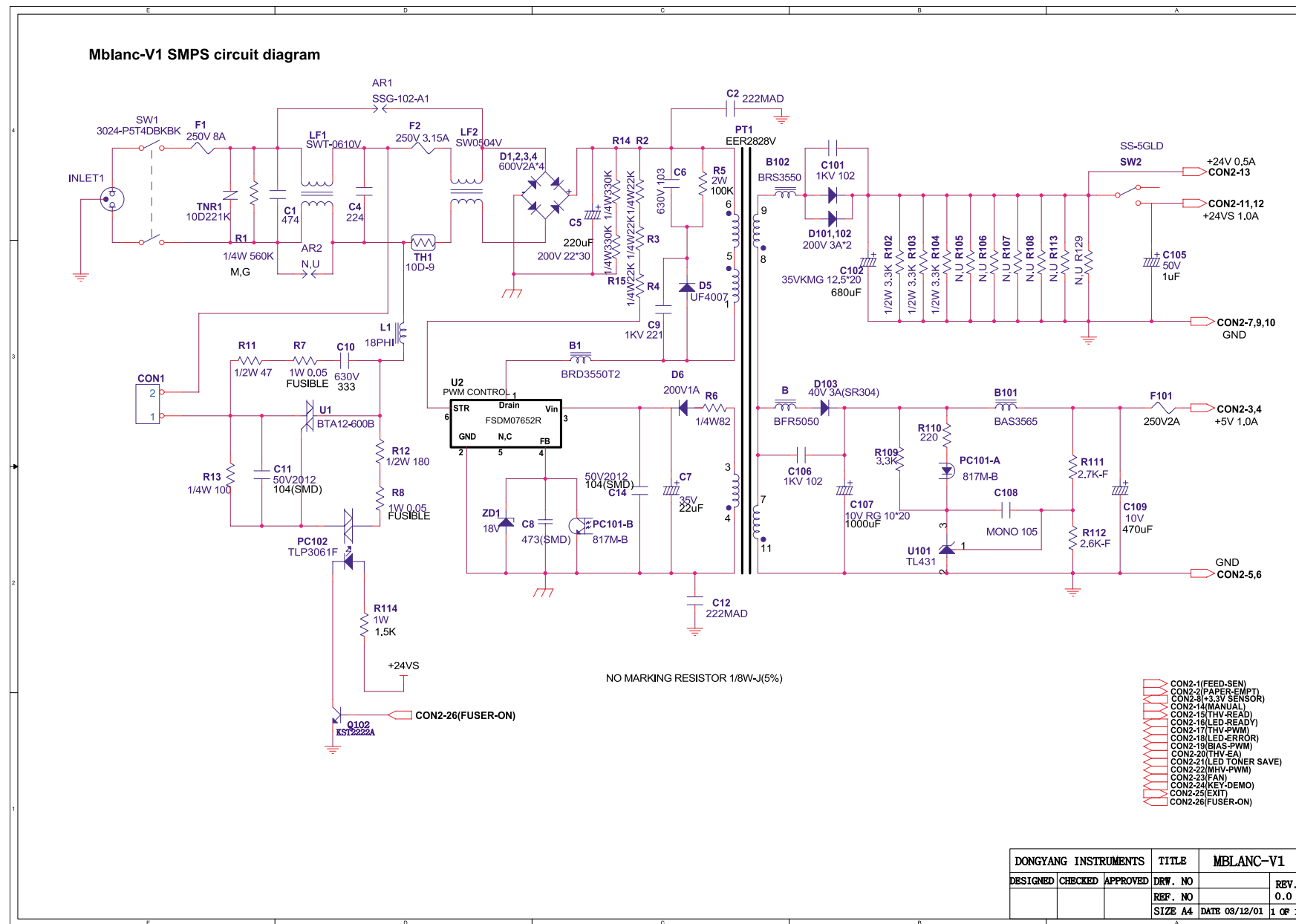


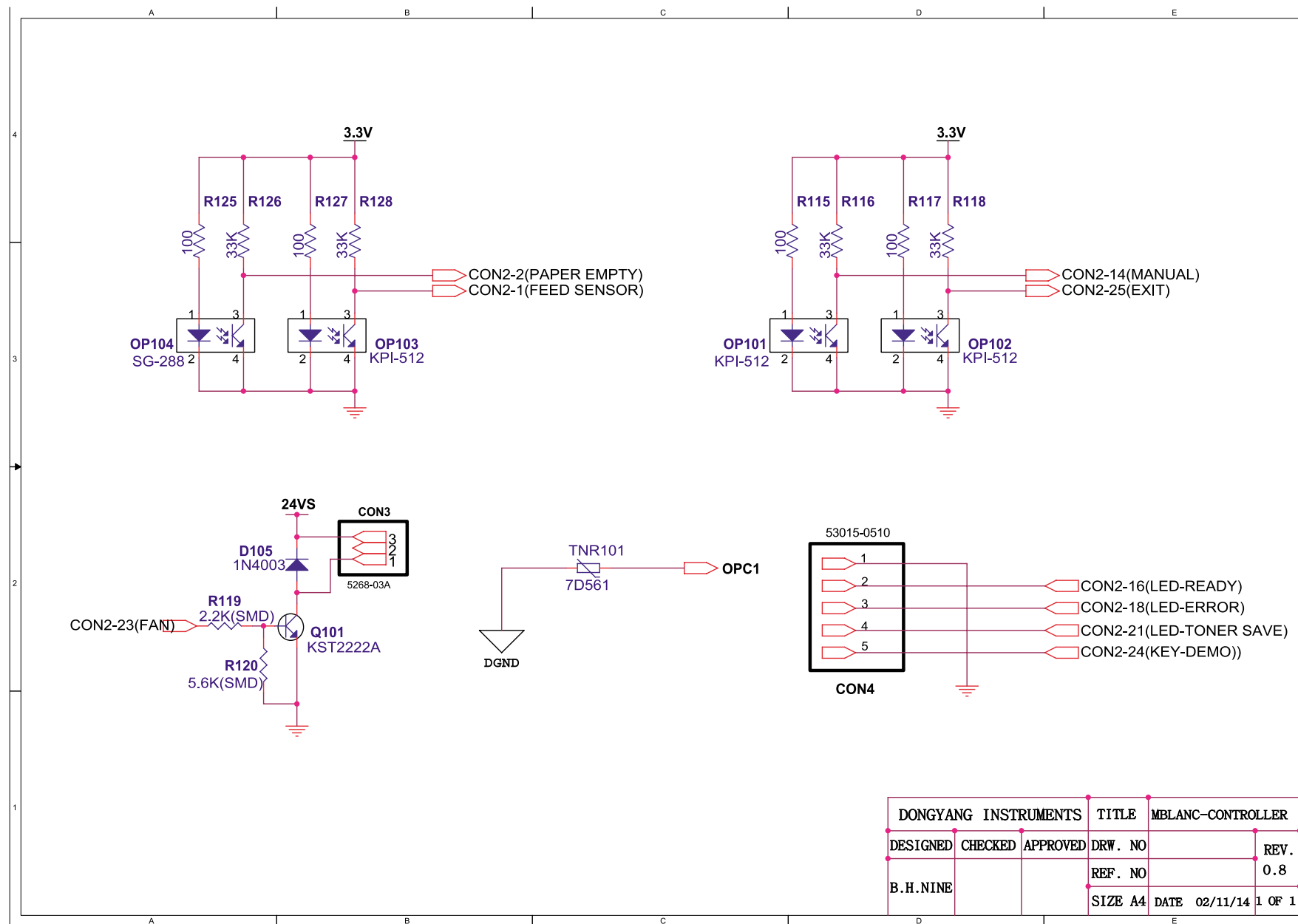
Schematic Diagram



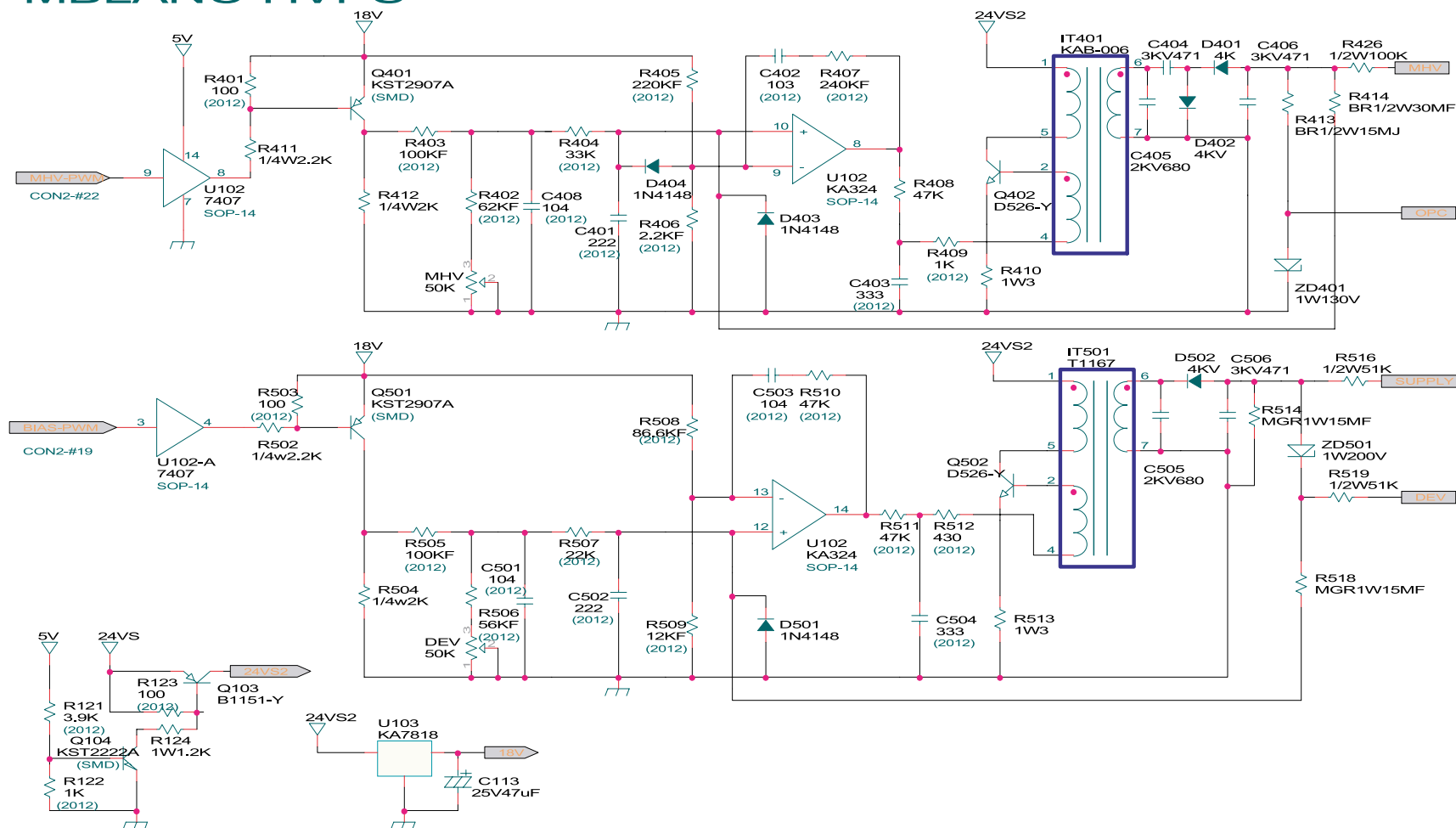
10.3 SMPS-110V(1/4)

Schematic Diagram





MBLANC-HVPS



MBLANC-HVPS

The schematic diagram illustrates the MBLANC-HVPS circuit, which is divided into two main functional blocks: the power supply section and the readout section.

Power Supply Section:

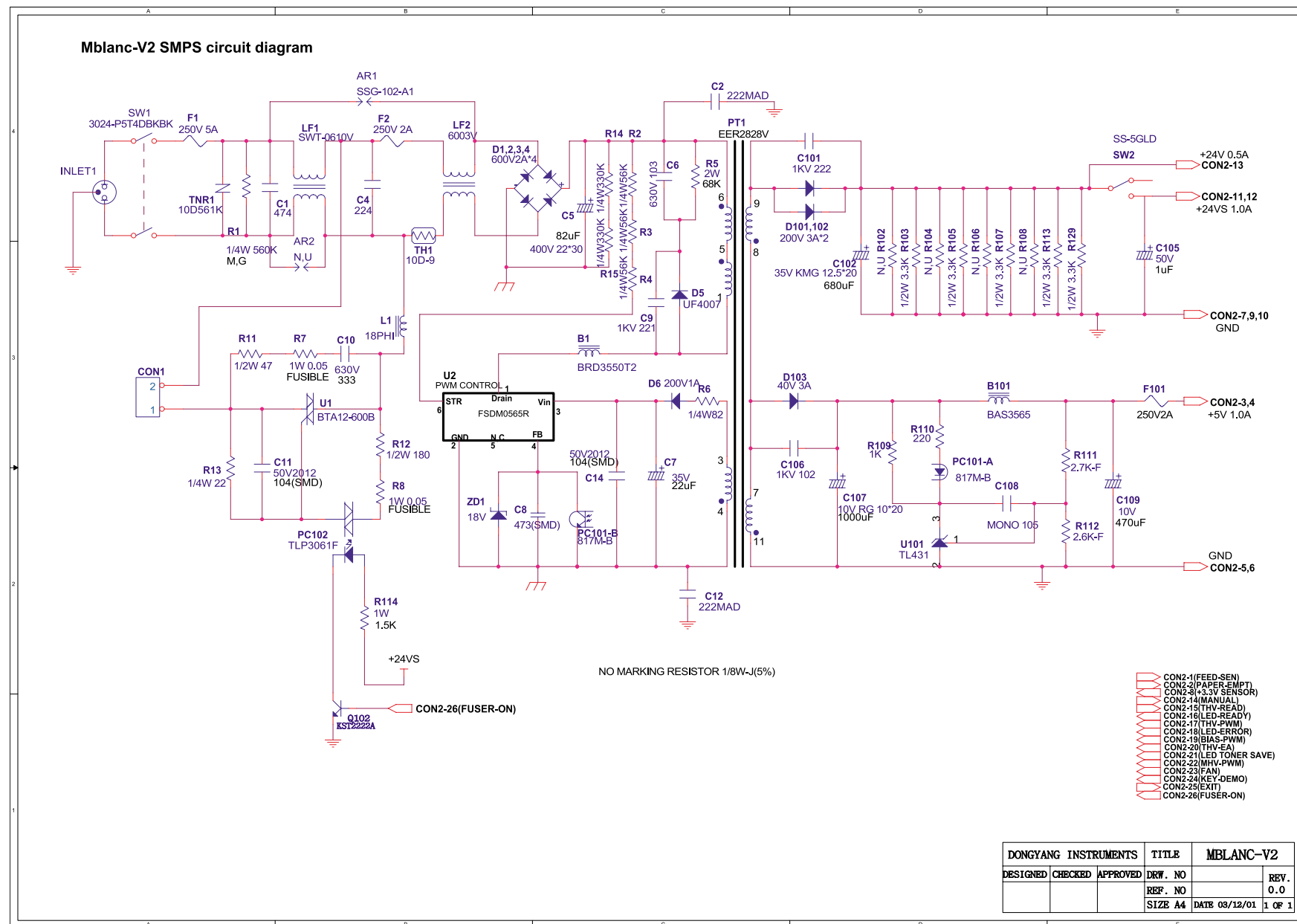
- Input:** The circuit is powered by a 24VS2 source.
- Rectification and Filtering:** The input is rectified by a bridge rectifier (D204, D205, D206) and filtered by a large electrolytic capacitor (C210, 6KV221) and a resistor (R212, 1/2W100K).
- Regulation:** The regulated output is provided by a 24VS2 source, which is connected to the positive terminal of the output filter capacitor (C211, 6KV221).
- Output:** The output is taken from the negative terminal of the output filter capacitor (C211, 6KV221) and is connected to the positive terminal of the output filter capacitor (C211, 6KV221).

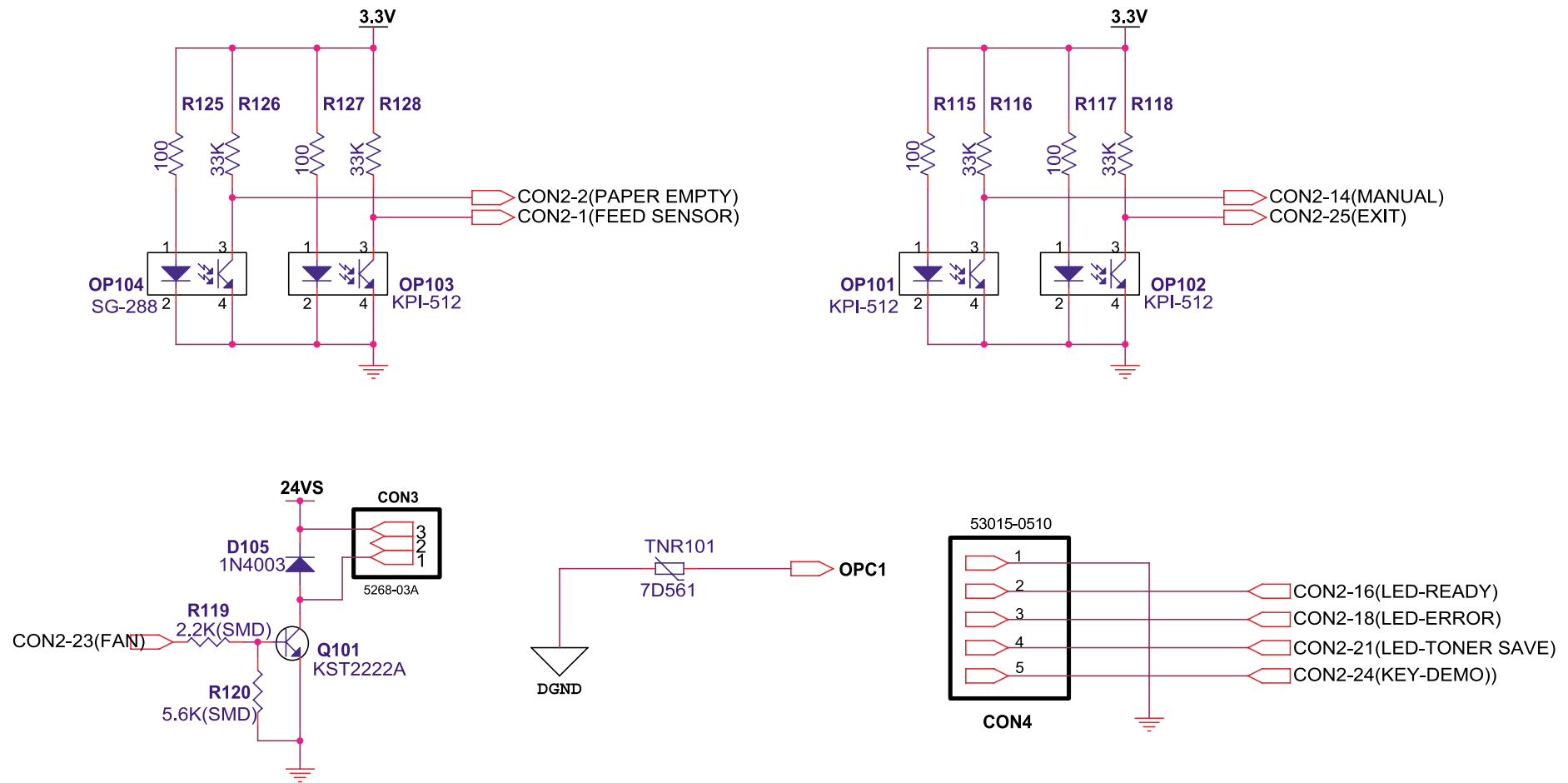
Readout Section:

- Input:** The readout section is powered by a 24VS2 source.
- Rectification and Filtering:** The input is rectified by a bridge rectifier (D302, D303, D304) and filtered by a large electrolytic capacitor (C304, 3KV151) and a resistor (R305, BR1/2W50M).
- Regulation:** The regulated output is provided by a 24VS2 source, which is connected to the positive terminal of the output filter capacitor (C304, 3KV151).
- Output:** The output is taken from the negative terminal of the output filter capacitor (C304, 3KV151) and is connected to the positive terminal of the output filter capacitor (C304, 3KV151).

Other Components:

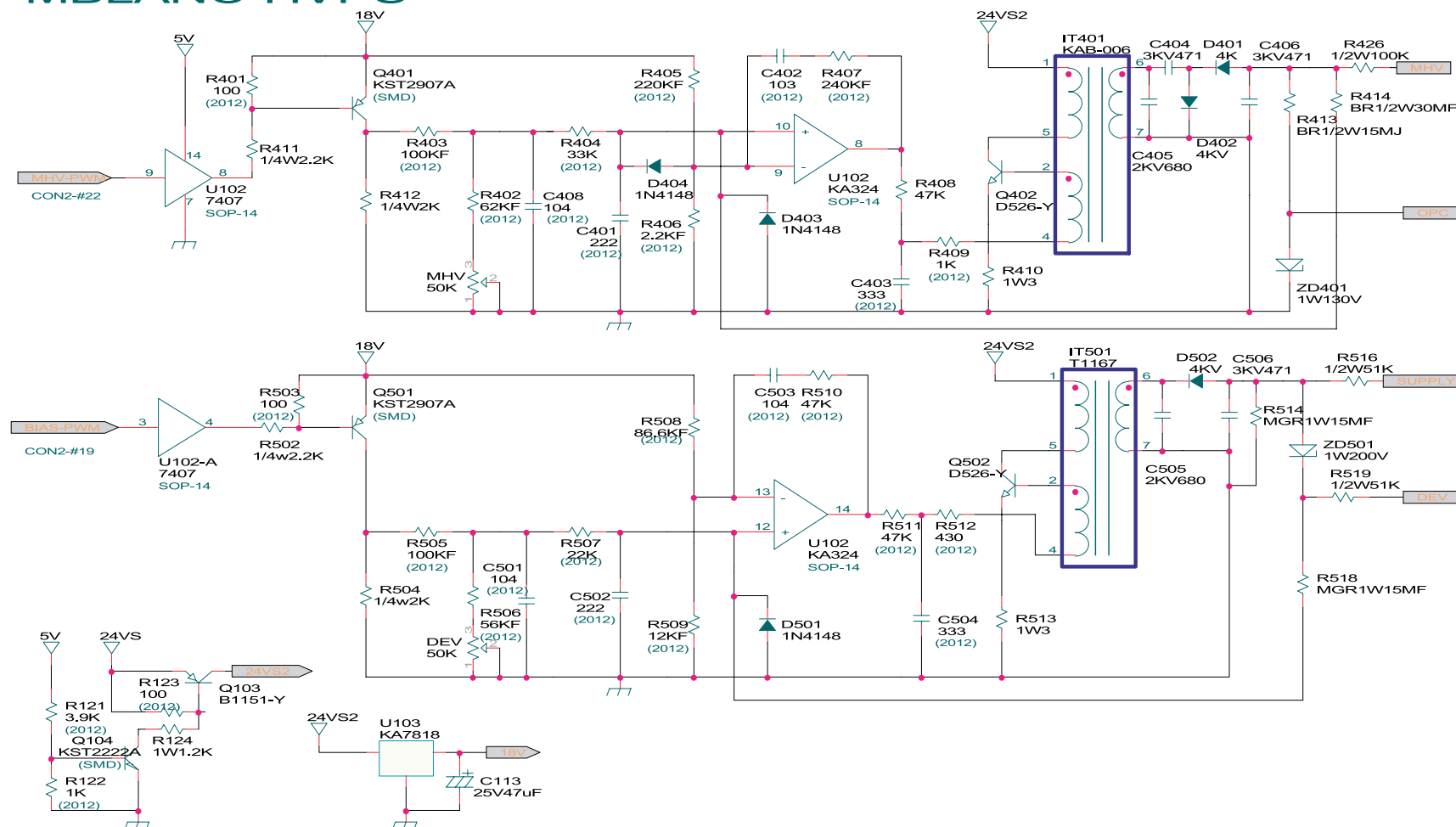
- Resistors:** Various resistors are used for biasing and signal conditioning, including R201, R202, R203, R204, R205, R206, R207, R208, R209, R210, R211, R212, R213, R301, R302, R303, R304, R305, R306, R307, R308, R309, R310, R311, R312, R313, R314, R315, R316, R317, R318, R319, R320, R321, R322, R323, R324, R325, R326, R327, R328, R329, R330, R331, R332, R333, R334, R335, R336, R337, R338, R339, R340, R341, R342, R343, R344, R345, R346, R347, R348, R349, R350, R351, R352, R353, R354, R355, R356, R357, R358, R359, R360, R361, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R390, R391, R392, R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R527, R528, R529, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R559, R560, R561, R562, R563, R564, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937, R938, R939, R940, R941, R942, R943, R944, R945, R946, R947, R948, R949, R950, R951, R952, R953, R954, R955, R956, R957, R958, R959, R960, R961, R962, R963, R964, R965, R966, R967, R968, R969, R970, R971, R972, R973, R974, R975, R976, R977, R978, R979, R980, R981, R982, R983, R984, R985, R986, R987, R988, R989, R990, R991, R992, R9





DONGYANG INSTRUMENTS			TITLE	MBLANC-CONTROLLER	
DESIGNED	CHECKED	APPROVED	DRW. NO		REV.
			REF. NO		0.8

MBLANC-HVPS



MBLANC-HVPS

