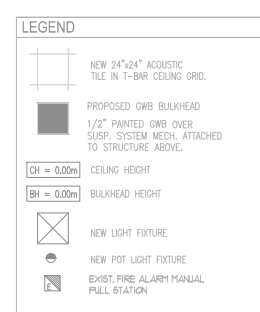
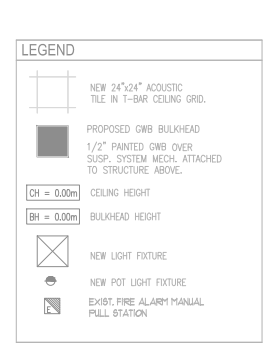
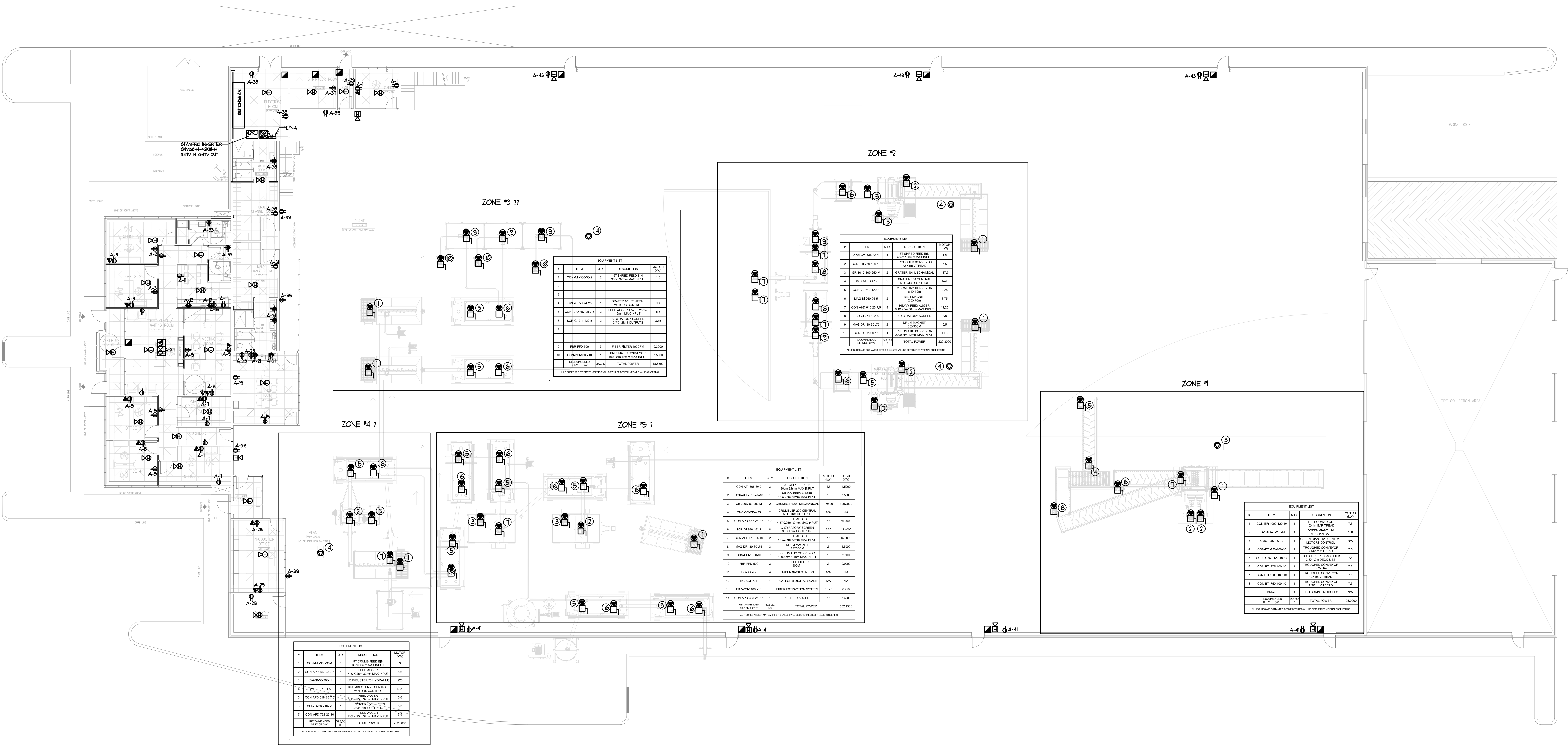


Luminaire Schedule					
Symbol	Qty	Label	LLF	Lum. Watts	Lum. Lumens
	83	L1EPH-24LS4B-H-40K-65561	0.900	158.8	21060
	1	L2SSS-48LS2-X-40K-68116	0.900	44.1	5667
	106	CHOICE 67155 PAN-2X2-100-277-	0.900	39.2776	4168

① THE EMERGENCY LIGHTS SHOULD BE CONNECTED TO INVERTER AND INTERLOCKED WITH NORMAL POWER.



ELECTRICAL LEGEND																			
LIGHTING																			
	FLUORESCENT LIGHT FIXTURE, TYPE AS INDICATED																		
	NIGHT LIGHT OR LIGHT CONNECTED TO EMERGENCY POWER																		
	CEILING MOUNTED WALL MOUNTED LIGHT FIXTURE, UNLESS LETTER DENOTES TYPE																		
	POLE MOUNTED LIGHT FIXTURE, UNLESS LETTER DENOTES TYPE																		
	INCANDESCENT LIGHT FIXTURE, UNLESS LETTER DENOTES TYPE																		
	CAPPED CEILING LIGHT OUTLET																		
	TRACK LIGHT																		
	STEP LIGHT																		
	CEILING MOUNTED WALL MOUNTED EXIT SIGN																		
	SINGLE-COUPLED EMERGENCY LAMP REMOTE HEAD																		
	EMERGENCY BATTERY PACK																		
	SINGLE-FIXTURE DUPLEX RECEPTACLE																		
	SINGLE RECEPTACLE, TYPE AND CONFIGURATION AS SPECIFIED FOR DRIVER																		
	CONNECTION FOR OVERCABINET																		
	DUPLEX RECEPTACLE OPERATED BY SWITCH																		
	ABOVE COUNTER DEVICE																		
	CEILING MOUNTED DEVICES																		
	FLOOR MOUNTED DEVICES																		
	DISCONNECT SWITCH NON FUSED																		
	DISCONNECT SWITCH FUSED																		
	COMBINATION STARTER																		
	FRACTIONAL MOTOR NAMEPLATE DIRECT CONNECTION																		
	DIRECT CONNECTION, SINGLE PHASE																		
	DIRECT CONNECTION, THREE PHASE																		
	THERMOSTAT																		
	DRYER SENSOR																		
	ELECTRICAL VEHICLE CHARGE JUNCTION BOX																		
	HEAT TRACE																		
	ELECTRICAL HEATER																		
	ELECTRICAL PANEL / SECURITY PANEL																		
	LIGHTNING/GROUND FAULT INTERRUPTER																		
TELECOMMUNICATION																			
	TV/CABLE OUTLET																		
	DATA OUTLET																		
	DATA/TELEPHONE OUTLET																		
	V.P.P.																		
	N SUITE TELEPHONE BOX CALL RECEPTACLE																		
SECURITY																			
	RADIO RECEIVER																		
	INTERCOM / INTERPHONE																		
	PANIC BUTTON WITH CAMERA																		
	INTERCOM / PANIC INTERCOM STATION																		
	CARD READER																		
	ELECTRIC STRIKE																		
	MAGLOCK																		
	DOOR CONTACT / WINDOW CONTACT																		
	AUTOMATIC DOOR OPENER																		
	MOTION DETECTOR																		
	PUSH BUTTON OR DOOR CHIME																		
	SECURITY CAMERA (360 DEGREES AND 90 DEGREE CAMERA)																		
	EMERGENCY PULL CORD																		
LIFE SAFETY																			
	FIRE ALARM SMOKE DETECTOR																		
	SMOKE ALARM																		
	FIRE ALARM DUGI TYPE SMOKE DETECTOR																		
	FIRE ALARM HEAT DETECTOR																		
	FIXED TEMP 88 °C DEGREE HEAT DETECTOR																		
	MOISTURE PROOF HEAT DETECTOR																		
	CO ALARM																		
	COMBINATION SMOKE ALARM & STROBE																		
	CO SENSOR 10 SENSOR (HIGH 300PPM - 100PPM AFF)																		
	FIRE ALARM HORN PULL STATION																		
	FIRE ALARM HORN PULL STATION																		
	DOOR HOLD OPEN DEVICE																		
	FIRE ALARM HORN WALL MTD. AND CEILING MTD.																		
	FIRE ALARM SPEAKER / WITH STROBE WALL MTD.																		
	FIRE ALARM SPEAKER CEILING MTD.																		
	FIRE ALARM ANNUNCIATOR PANEL																		
	FIRE ALARM CONTROL PANEL																		
	FIRE DO NOT ENTER SIGN																		
	PANIC BUTTON																		
	EMERGENCY ASSISTANCE AUDIBLE AND VISUAL SIGNAL																		
	LUMINATED DOOR LOCKED INDICATOR																		
	PUSH TO LOCK																		
	DUAL LENGTH PANIC STRIP																		
<table border="1"> <thead> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>2012/3</td> <td>2</td> <td>RE-BASED FOR SPA SUBMISSION</td> <td>SD</td> </tr> <tr> <td>2010/10/10</td> <td>1</td> <td>BASED FOR SPA SUBMISSION</td> <td>SD</td> </tr> <tr> <td>DATE</td> <td>NO.</td> <td>DESCRIPTION</td> <td>BY</td> </tr> </tbody> </table>				NO.	REVISION	DATE	BY	2012/3	2	RE-BASED FOR SPA SUBMISSION	SD	2010/10/10	1	BASED FOR SPA SUBMISSION	SD	DATE	NO.	DESCRIPTION	BY
NO.	REVISION	DATE	BY																
2012/3	2	RE-BASED FOR SPA SUBMISSION	SD																
2010/10/10	1	BASED FOR SPA SUBMISSION	SD																
DATE	NO.	DESCRIPTION	BY																
MARK: VOID ALL PRINTS DATE PREVIOUS TO FINAL DATE ABOVE																			
REVISIONS																			
CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK AND DISCREPANCIES TO THE ENGINEERS BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS THE PROPERTY OF THE ENGINEERING AND WILL BE RETURNED UPON COMPLETION OF THE WORK.																			
DRAWINGS ARE NOT TO BE SCALED																			
54 West Beaver Creek Road, Unit 200 Richmond Hill, Ontario L4B 1G5 Tel: 905-880-5445																			
06/10/10																			
DRAWING TITLE: ELECTRICAL LIGHTING																			
PROJECT TITLE: INDUSTRIAL DEVELOPMENT CRUMB MANUFACTURING FACILITY																			
5711 UELHAM RD BARRIE ONTARIO																			
DRAWN BY: M.P. CHECKED BY: S.D. SCALE: 1:150																			
DATE: JUNE 20 2003 PROJECT NUMBER: E-102 DRAWING NUMBER: E-102																			



ELECTRICAL LEGEND			
LIGHTING			
	FLUORESCENT LIGHT FIXTURE, TYPE AS INDICATED		
	NIGHT LIGHT OR LIGHT CONNECTED TO EMERGENCY POWER		
	CEILING MOUNTED LIGHT FIXTURE, INSCRIBED LETTER DENOTES TYPE		
	POLE MOUNTED LIGHT FIXTURE, INSCRIBED LETTER DENOTES TYPE		
	RECESSED CEILING LIGHT FIXTURE		
	TRACK LIGHT		
	STEP LIGHT		
	CEILING MOUNTED EXIT SIGN		
	SINGLE EMERGENCY LAMP REMOTE HEAD		
	EMERGENCY BATTERY PACK		
	SINGLE/DOUBLE POLE SINGLE/DOUBLE THROW TOGGLE SWITCH RESPECTIVELY, 1/2, 3/4, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000		
	SENIOR WALL SWITCH (PIR SELF POWERED)		
	OCCUPANCY SENSOR		
POWER			
	REGULAR DUPLEX RECEPTACLE		
	DUPLEX RECEPTACLE GROUND FAULT INTERRUPT		
	5-80K 15A/20 DUPLEX RECEPTACLE		
	DUPLEX RECEPTACLE TYPE AND CONFIGURATION AS SPECIFIED FOR DRYER		
	CONNECTION FOR OVERCURRENT		
	DUPLEX RECEPTACLE OPERATED BY SWITCH		
	ABOVE COUNTER DEVICE		
	CEILING MOUNTED DEVICES		
	FLOOR MOUNTED DEVICES		
	DISCONNECT SWITCH NON-FUSED		
	DISCONNECT SWITCH FUSED		
	COMBINATION STARTER		
	FRACTIONAL MOTOR/FAN DIRECT CONNECTION		
	DIRECT CONNECTION SINGLE PHASE		
	DIRECT CONNECTION THREE PHASE		
	THERMOSTAT		
	DRYER SENSOR		
	ELECTRICAL VEHICLE CHARGE JUNCTION BOX		
	ELECTRICAL HEATER		
	ELECTRICAL PANEL / SECURITY PANEL		
	LEATHER/DOOR/GROUND FAULT INTERRUPTER		
TELECOMMUNICATION			
	TV/CABLE OUTLET		
	TELEPHONE OUTLET		
	DATA OUTLET		
	DATA/TELEPHONE OUTLET		
	DATA/VOICE OUTLET		
	N-ROUTE TELEPHONY BOX CUI RECEPTACLE		
SECURITY			
	RADIO RECEIVER		
	INTERCOM / ENTRANCE		
	INTERCOM WITH CAMERA		
	PANIC INTERCOM / PANIC INTERCOM STATION		
	CARD READER		
	ELECTRIC STRIKE		
	YIELD LOCK		
	DOOR CONTACT / WINDOW CONTACT		
	AUTOMATIC DOOR OPERATOR		
	MOTION DETECTOR		
	PUSH BUTTON OR DOOR CHIME		
	SECURITY CAMERA		
	7400 DECODER AND DEGREE CAMERA		
	EMERGENCY PULL CORD		
LIFE SAFETY			
	FIRE ALARM SMOKE DETECTOR		
	SMOKE ALARM		
	FIRE ALARM DUCT TYPE SMOKE DETECTOR		
	FIRE ALARM HEAT DETECTOR		
	FIXED TEMP. 68 °C DEBRIS HEAT DETECTOR		
	MONITORING PROOF HEAT DETECTOR		
	CO ALARM		
	COMBINATION SMOKE ALARM & STROBE		
	CO SENSOR / NO MANUAL PULL STATION		
	FIRE ALARM MANUAL PULL STATION		
	FIREFIGHTERS HANDSET		
	DOOR HOLD OPEN DEVICE		
	FIRE ALARM HORN WALL MTD. AND CEILING MTD.		
	FIRE ALARM SPEAKER / FIRE ALARM SPEAKER MTD.		
	FIRE ALARM SPEAKER WITH STROBES CEILING MTD.		
	FIRE ALARM SPEAKER CEILING MTD.		
	FIRE ALARM ANNUNCIATOR		
	FIRE ALARM CONTROL PANEL		
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	FIRE AL		

REVISIONS		
NO.	DATE	DESCRIPTION
1	2003/06/10	ISSUED FOR RFP SUBMISSION
2	2003/06/10	ISSUED FOR RFP SUBMISSION

NOVATREND
ENGINEERING GROUP LTD.

54 West Beaver Creek Road, Unit 200
Richmond Hill, Ontario L4B 1G5
Tel: 905-882-5445

06/30/00

DRAWING TITLE:
ELECTRICAL POWER LAYOUT

PROJECT TITLE:
**INDUSTRIAL DEVELOPMENT
CRUMB MANUFACTURING FACILITY
511 WILHELM RD
BARRIE, ONTARIO**

DRAWN BY:
M.P.

CHECKED BY:
S.D.

DATE:
JUNE 20 2003

PROJECT NUMBER:
2003

DRAWING NUMBER:
E-103

