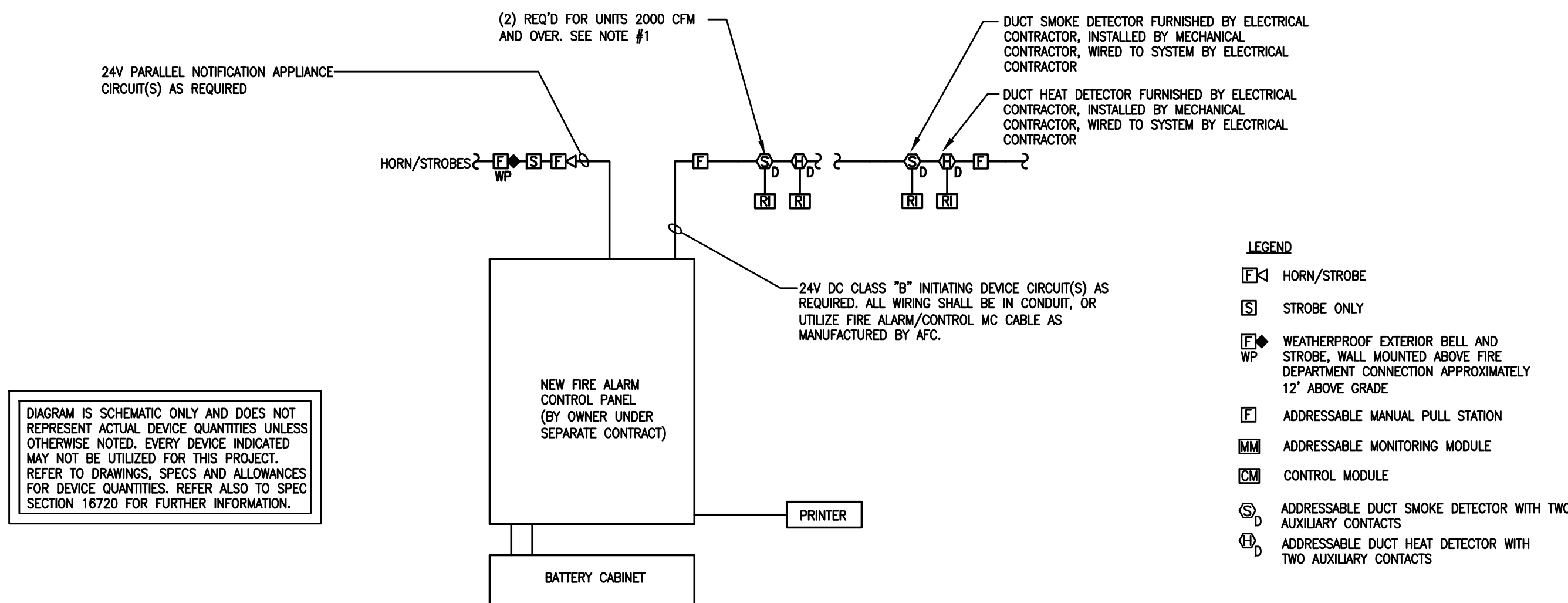


ELECTRICAL SINGLE LINE DIAGRAM

SCALE: NONE



ADDRESSABLE FIRE ALARM SYSTEM SCHEMATIC WIRING DIAGRAM

SCALE: NONE

NOTES:

1. ONE SMOKE DETECTOR MAY BE INSTALLED WHERE DIRECTED BY THE LOCAL AUTHORITY IN LIEU OF TWO WHEN SYSTEMS ARE BETWEEN 2000 AND 15000 CFM.

2. PROVIDE MODEM, SOFTWARE & HARDWARE AS NECESSARY TO ALLOW REMOTE SUPERVISORY ACCESS.

LIGHTING FIXTURE SCHEDULE					
LISTED EQUIV. MFRS. IT IS NOT UNDERSTOOD THAT THIS IMPLIES A STANDARD FIXTURE IS ACCEPTABLE. THE FIXTURE MUST MEET ALL TECHNICAL REQUIREMENTS AS WELL AS BEING NAMED. ALTERNATE MANUFACTURERS ARE NOT ACCEPTABLE UNLESS ADDED BY ADDENDUM. REFER TO SPECIFICATION SECTION 16500 FOR DETAILS. CONTRACTOR IS RESPONSIBLE TO SELECT MOUNTING TYPE: SURFACE, RECESSED, LAY-IN, FLANGED, WALL, PENDANT, ETC. COLOR TEMPERATURES OF ALL LAMPS TO MATCH. ALL BALLAST TO BE ELECTRONIC, WITH <1.0% THD. ALL FIXTURE LENSES ARE TO BE SHIPPED WITHIN A PROTECTIVE COVERING. EMERGENCY FIXTURES ARE INDICATED AS PARTIALLY SHADED AND WITH "E" SUFFIX TO SYMBOL ON PLANS, e.g. "AE".					
TYPE	DESCRIPTION	LAMPS	WATTS	VOLTAGE	EQUIV. MFRS.
A	2x2 RECESSED LED RAILS RA1-22-B-35-F2-F2 (FINISHES BY ARCHITECT)	LED	28	120	FLUXWERK
B	2x2 RECESSED LED FLUXGRID 2-FGX-G-H-835-UNV-DIM (FINISHES BY ARCHITECT)	LED	41	120	DAY-BRITE
C	1x4 RECESSED LED RAILS RA1-14-B-35-F2-F2 (FINISHES BY ARCHITECT)	LED	28	120	FLUXWERK
D	4" X 4" RECESSED LED SEEM 2 F5M2L-AS-1000LF-35K-IC-UNV-D11-WH (FINISHES BY ARCHITECT)	LED	39	120	FOCAL POINT
E.1	ID+ 3.5" DOWNLIGHT GWB CEILING, FLC3D-SW-900L-UNV-L11-LC3 (FINISHES BY ARCHITECT)	LED	10	120	FOCAL POINT
E.2	ID+ 3.5" DOWNLIGHT act CEILING, FLC3D-SW-1100L-UNV-L11-LC3 (FINISHES BY ARCHITECT)	LED	12	120	FOCAL POINT
E.3	ID+ 2.5" DOWNLIGHT GWB CEILING, FLC2D-SW-900L-UNV-L11-LC3 (FINISHES BY ARCHITECT)	LED	10	120	FOCAL POINT
F.1	DOWNLIGHT LIGHTOLIER 3" CYLINDER C3C-PCS-DL-10-935-Z10U (FINISHES BY ARCHITECT)	LED	12	120	LIGHTOLIER
F.2	DOWNLIGHT LIGHTOLIER 6" CYLINDER C6-P-DL-25-35-W-210-U-LI-W (FINISHES BY ARCHITECT)	LED	25	120	LIGHTOLIER
G	SKYDOME FSDEP-2-FL-2000DN-35K-1C-35K-IC-INV-LD1-WH (FINISHES BY ARCHITECT)	LED	29	120	FOCAL POINT
H	MINI RING UP 3-4" DIAMETER PENDANT RPM-UP-DN-48 (FINISHES BY ARCHITECT)	LED	40	120	MINI RING UP
J	DAY BRITE 4" F55-4-20L-835-UNV-DIM (FINISHES BY ARCHITECT)	LED	20	120	DAY BRITE
K	BACKLIT MIRROR 69455-EL5-3226-30K-RMT (FINISHES BY ARCHITECT)	LED	37	120	ELIO
L	LIGHTOLIER TRACK LIGHT- OMNI SPOT LIGHT LC-XX-10-835-XX-TE (FINISHES BY ARCHITECT)	LED	10/LED	120	LIGHTOLIER
M	VODE WINGRAIL 107-WG-01-72"-WA-3-IP-AE-2-S0 (FINISHES BY ARCHITECT)	LED	37	120	VODE
N-1	FOCAL POINT SEEM 1 F5M1S-AS-125LF-35K-1C-UNV-LD1-XX (FINISHES BY ARCHITECT)	LED	48	120	FOCAL POINT
P	FLUXWERK PORTAL TC1-S-09-S-J1-WW-M1-8-35-E-F2-M (FINISHES BY ARCHITECT)	LED	28	120	FLUXWERK
Q	GARDCO LED MINI SCIENCE 1111-16L-XX-WW-62-2-UNV-PCB-F2 (FINISHES BY ARCHITECT)	LED	60	120	GARDCO
R	VISIONEERING LR7A-WET LOCATION LR7A-C29-2X2-LED-B-35K-046L-UNV (FINISHES BY ARCHITECT)	LED	41	120	VISIONEERING
S	MP LIGHTING L106-S-XX-S2-W355-S-F-AC-MA-120V (FINISHES BY ARCHITECT)	LED	24	120	MP LIGHTING
T	TLS LIGHTING TLS-LG-AS-24WX72L-35 / K-WL-RD-P-0-10-IN-S5 (FINISHES BY ARCHITECT)	LED	24	120	TLS LIGHTING
X.1	CHLORIDE EXIT SIGN, VIRGIN ACRYLIC GRADUATED DEPTH ULTRASONICALLY WELDED, NO VISIBLE HARDWARE, BRUSHED ALUMINUM HOUSING, CHEVRON INDICATORS, UNIVERSAL ROUGH-IN FOR BACK, WALL MOUNTED, U.L. LISTED, NFPA 101, 5 YEAR WARRANTY, WITH NI-CAD BATTERY, CHARGER, TEST SWITCH. SIGNIFY CHLORIDE ER44LUX	LED	5	120	SIGNIFY
X.2	CHLORIDE EXIT SIGN, VIRGIN ACRYLIC GRADUATED DEPTH ULTRASONICALLY WELDED, NO VISIBLE HARDWARE, BRUSHED ALUMINUM HOUSING, CHEVRON INDICATORS, UNIVERSAL ROUGH-IN FOR BACK, CEILING MOUNTED, U.L. LISTED, NFPA 101, 5 YEAR WARRANTY, WITH NI-CAD BATTERY, CHARGER, TEST SWITCH. SIGNIFY CHLORIDE ER44LUX	LED	5	120	SIGNIFY
X.3	EXTERIOR BATTERY WALL PACK Gray, compact, low-profile contemporary design. Engineering-grade thermoplastic, housing is impact-resistant, scratch-resistant and corrosion-proof. Rugged, heavy-duty, polycarbonate clear housing lens. UL94V-0 flame rating. WLTU MR ELA WG1	LED	5	120	LITHONIA

PANEL SCHEDULE				EPB	
PANEL LABEL: EPB		MAINS: 125 AMP		ENCLOSURE	
A.I.C.: 10K or 22K or 42K or 50K or 65K		MCB: 125 AMP 3 POLE		NEMA: 1	
208/120 VOLT 3 PHASE 4 WIRE		LUGS: MCB		MOUNTING: S	
		TOP - BOTTOM		WIDTH	
CKT	TRIP POLE	DESCRIPTION	WATT	WATT	TRIP POLE CKT
1	20	1 EMERGENCY LIGHTS	500	SPARE	20 1 2
3	20	1 EMERGENCY LIGHTS	500	SPARE	20 1 4
5	20	1 EMERGENCY LIGHTS	500	SPARE	20 1 6
7	20	1 EMERGENCY LIGHTS EXTERIOR	500	SPARE	20 1 8
9	20	1 SPARE		SPARE	20 1 10
11	20	1 SPARE		SPARE	20 1 12
13	20	1 SPARE		SPARE	20 1 14
15	20	1 SPARE		SPARE	20 1 16
17	20	1 SPARE		SPARE	20 1 18
19	20	1 SPARE		SPARE	20 1 20
21	20	1 SPARE		SPARE	20 1 22
23	20	1 SPARE		SPARE	20 1 24
25	20	1 SPARE		SPARE	20 1 26
27	20	1 SPARE		SPARE	20 1 28
29	20	1 SPARE		SPARE	20 1 30
31	20	1 SPARE		SPARE	20 1 32
33	20	1 SPARE		SPARE	20 1 34
35	20	1 SPARE		SPARE	20 1 36
37	20	1 SPARE		SPARE	20 1 38
39	20	1 SPARE		SPARE	20 1 40
41	20	1 SPARE		SPARE	20 1 42
		2000	0	2000	7 AMPS

PANEL SCHEDULE						B	
PANEL LABEL: B		MAINS: 125AMP				ENCLOSURE	
A.I.C.: 10K or 22K or 42K or 50K or 65K		MCB: 125 AMP 3 POLE				NEMA: 1	
208/120 VOLT 3 PHASE 4 WIRE		LUGS: MCB				MOUNTING: S	
		TOP - BOTTOM				WIDTH: 22"	
CKT	TRIP POLE	DESCRIPTION	WATT	WATT	DESCRIPTION	TRIP POLE	CKT
1	20	1 CLASSROOM #032 LIGHT	480	600	CLASS #031 CONF #030 LIGHT	20	1
3	20	1 LOBBY #028 LIGHT	300	5000	AHJ.LL.1	20	4
5	20	1 RECEPTACLE RACEWAY RM #032	1080	1000		20	6
7	20	1 RECEPTACLE RACEWAY RM #032	1080	1000	HP.LL.1	20	8
9	20	1 RECEPTACLE RACEWAY RM #032	1080	1000		20	10
11	20	1 RECEPTACLE RACEWAY RM #032	1080	1040	AHJ.LL.2	20	12
13	20	1 RECEPTACLE RACEWAY RM #032	1080	420		20	14
15	20	1 RECEPTACLE RACEWAY RM #032	1080	420	AHJ.LL.3	20	16
17	20	1 RECEPTACLE RM #032	720	420		20	18
19	20	1 RECEPTACLE RM #031	540	1960	AHJ.LL.4	20	20
21	20	1 RECEPTACLE RM #030	900	3040		20	22
23	20	1 RECEPTACLE RM #030	900	3040	AHJ.LL.5	20	24
25	20	1 MOTORIZED DOOR	500			20	26
27	20	1 MOTORIZED DOOR	500	500	MOTORIZED DAMPERS	20	28
29	20	1 SPARE		500	COND PUMP AHJ.LL.1,2,3,4,5	20	30
31	20	1 SPARE		500	EF-LL.1	20	32
33	20	1 SPARE		500	EF-LL.2	20	34
35	20	1 SPARE		500	EF-LL.3	20	36
37	20	1 SPARE				20	38
39	20	1 SPARE				20	40
41	20	1 SPARE				20	42
			11140	11360	22500	78 AMPS	

PANEL SCHEDULE				N	
PANEL LABEL: N		MAINS: 125 AMP		ENCLOSURE	
A.I.C.: 10K or 22K or 42K or 50K or 65K		MCB: 125 AMP 3 POLE		NEMA: 1	
208/120 VOLT 3 PHASE 4 WIRE		LUGS: MCB		MOUNTING: S	
		TOP - BOTTOM		WIDTH	
CKT	TRIP POLE	DESCRIPTION	WATT	WATT	TRIP POLE CKT
1	20	1 RM #14, 15, 23, 24, 1020 LIGHT	400	420	AHJ.LL.6
3	20	1 RECEPTACLE WAIT #020	720		
5	20	1 RECEPTACLE RECEPT # 017	720	3240	AHJ.LL.7
7	20	1 RECEPTACLE CONF RMW #21	720		
9	20	1 RECEPTACLE BREAK # 022	540	420	AHJ.LL.8
11	20	1 BREAK RMW #022 FRIDGE	900		
13	20	1 RECEPTACLE RM #018 #019	1080	670	AHJ.LL.9
15	20	1 RECEPTACLE CORR TOILET # 014	1080		
17	20	1 RECEPTACLE RM # 012 #010	1080	420	AHJ.LL.10
19	20	1 RECEPTACLE RM #008 #009	720	720	
21	20	1 RECEPTACLE CORR TOILET # 007	540	420	MOTORIZED DAMPERS
23	20	1 RECEPTACLE RMW006 #005	900	600	CONDENSATE PUMP
25	20	1 RECEPTACLE RM 002 # 003	900	SPARE	
27	20	1 BEH.1	1172	SPARE	
29	20	1 BEH.2	1172	SPARE	
31	20	1 BEH.3	586	SPARE	
33	20	1 BEH.4	1172	SPARE	
35	20	1 RM 1	375	1080	OUTDOOR COURT AND RECEPT
37	20	1 RM 1	1080	1080	OUTDOOR COURT AND RECEPT
39	20	1 SPARE		1000	OUTDOOR COURT AND LIGHT
41	20	1 SPARE		500	OUTDOOR COURT AND CAMERA
		14777	9630	24407	85 AMPS

PANEL SCHEDULE						F	
PANEL LABEL: F		MAINS: 125 AMP				ENCLOSURE	
A.I.C.: 10K or 22K or 42K or 50K or 65K		MCB: 125 AMP 3 POLE				NEMA: 1	
208/120 VOLT 3 PHASE 4 WIRE		LUGS: MCB				MOUNTING: S	
		TOP - BOTTOM				WIDTH	
CKT	TRIP POLE	DESCRIPTION	WATT	WATT	DESCRIPTION	TRIP POLE	CKT
1	20	1 RM 120A, 120, 115, 114 LIGHTS	500	200	COORDOR #116 LIGHTS	20	2
3	20	1 RM 119, 118, 117, 113, 112 LIGHTS	700	700	LOBBY # 107 LIGHTS	20	4
5	20	1 RM 100, 101, 100 LIGHTS	500	1000	MULTI-PURPOSE #111 LIGHTS	20	6
7	20	1 RM 102, 103, 104, 105 LIGHTS	500	420	AHJ.1.1	20	8
9	20	1 RECEPTACLE	1080			20	10
11	20	1 RECEPTACLE	1080	420	AHJ.1.3	20	12
13	20	1 RECEPTACLE	1080			20	14
15	20	1 RECEPTACLE	1080	420	AHJ.1.4	20	16
17	20	1 RECEPTACLE	1080			20	18
19	20	1 RECEPTACLE	1080	1310	AHJ.1.5	20	20
21	20	1 RECEPTACLE	1080			20	22
23	20	1 RECEPTACLE	1080	300	AHJ.1.6	20	24
25	20	1 A/V BOOTH QUAD	360	500		20	26
27	20	1 A/V BOOTH QUAD	360	500	AHJ.1.7	20	28
29	20	1 FRIDGE	900			20	30
31	20	1 KITCHEN 103	360	300	AHJ.1.8	20	32
33	20	1 KITCHEN 103	180			20	34
35	20	1 CONF ROOM 102	720	700	CONDENSATE PUMP	20	36
37	20	1 OFFICE RECEPTACLE 118	360	700	MOTORIZED DAMPER	20	38
39	20	1 SPARE		500	TF-1	20	40
41	20	1 SPARE		500	TF-2	20	42
			14081	8000	22081	77 AMPS	

PANEL LABEL: EP1			PANEL SCHEDULE				EP1	
			MAINS:125AMP				ENCLOSURE	
			MCB: 125 AMP 3POLE				NEMA: 1	
			LUGS: MCB				MOUNTING: S	
			TOP - BOTTOM				WIDTH	
CKT	TRIP POLE	DESCRIPTION	WATT	WATT	DESCRIPTION	TRIP POLE	CKT	
1	20	1 COORDOR LIGHTS	240	400	LOBBY #107 LIGHTS	20	2	
3	20	1 LOBBY #108 LIGHTS	400	1000	MULTI-PURPOSE #111 LIGHTS	20	4	
5	20	1 EMERGENCY LIGHTS	200	200	EMERGENCY LIGHTS	20	6	
7	20	1 SPARE			SPARE	20	8	
9	20	1 SPARE			SPARE	20	10	
11	20	1 SPARE			SPARE	20	12	
13	20	1 SPARE			SPARE	20	14	
15	20	1 SPARE			SPARE	20	16	
17	20	1 SPARE			SPARE	20	18	
19	20	1 SPARE			SPARE	20	20	
21	20	1 SPARE			SPARE	20	22	
23	20	1 SPARE			SPARE	20	24	
25	20	1 PREPARED SPACE			SPARE	20	26	
27	20	1 PREPARED SPACE			SPARE	20	28	
29	20	1 PREPARED SPACE			SPARE	20	30	
31	20	1 PREPARED SPACE			SPARE	20	32	
33	20	1 PREPARED SPACE			SPARE	20	34	
35	20	1 PREPARED SPACE			SPARE	20	36	
37	20	1 PREPARED SPACE			SPARE	20	38	
39	20	1 PREPARED SPACE			SPARE	20	40	
41	20	1 PREPARED SPACE			SPARE	20	42	
			840	1600	2440	8	44	