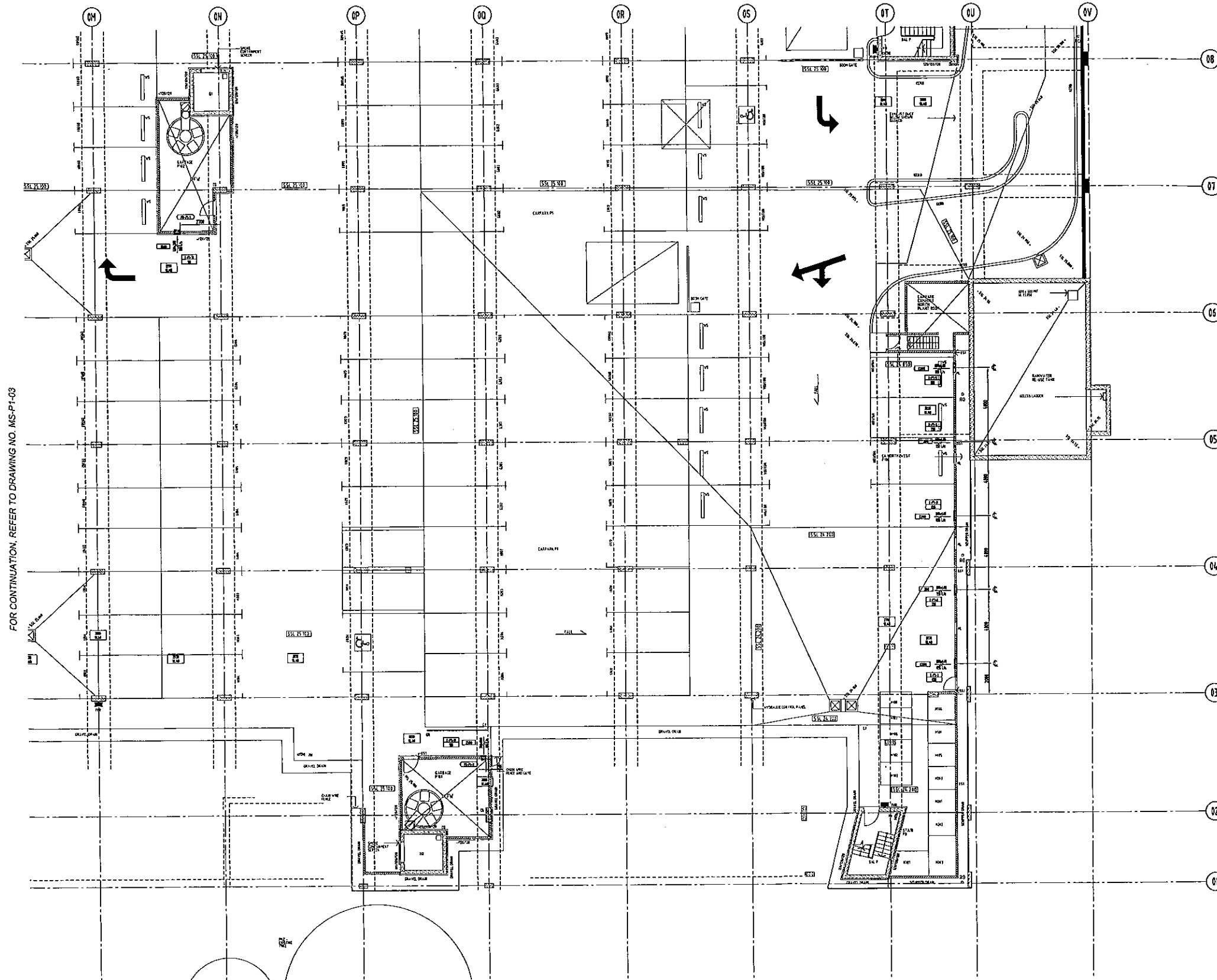


FOR CONTINUATION, REFER TO DRAWING NO. MS-P1-02



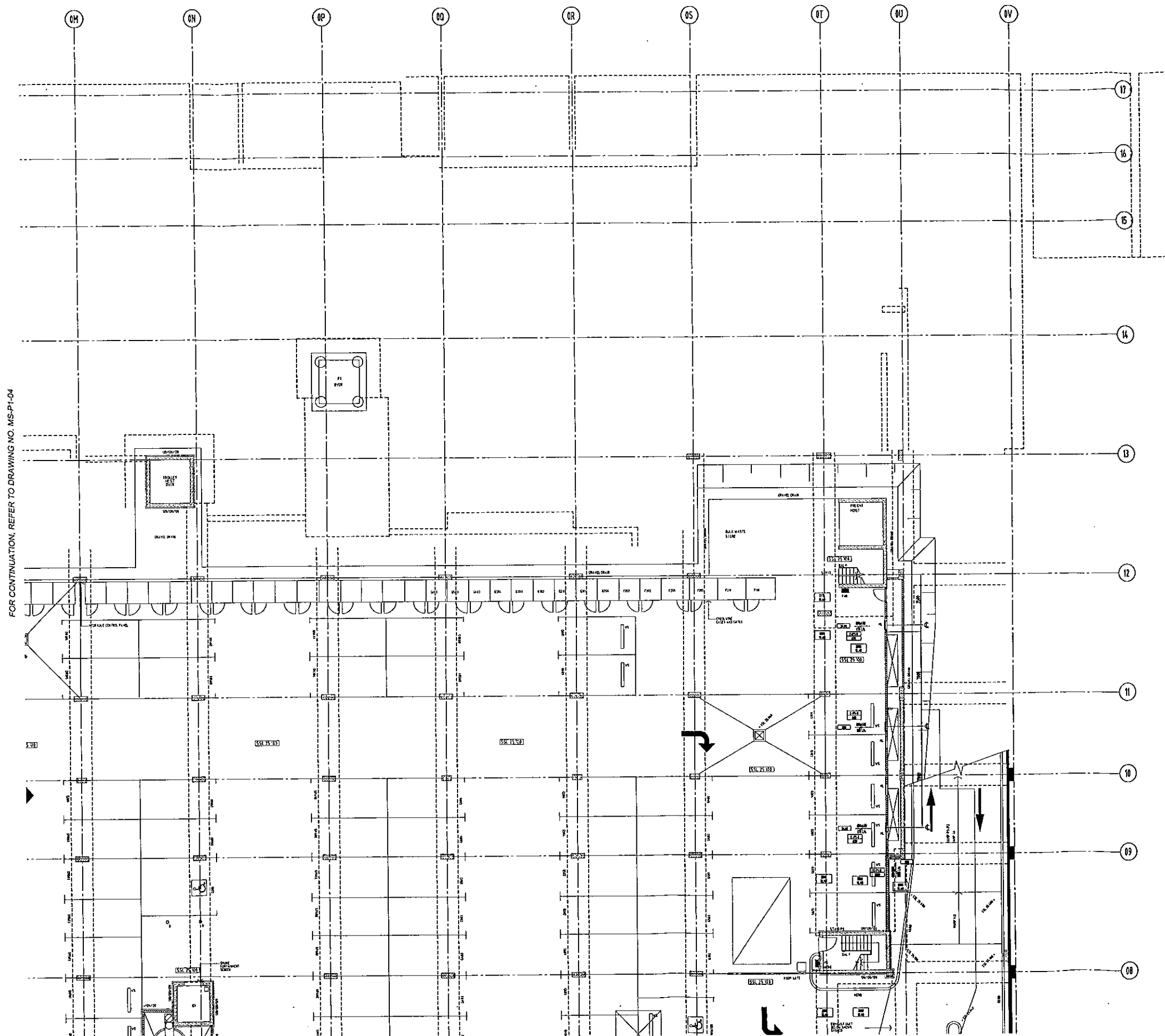
FOR CONTINUATION, REFER TO DRAWING NO. MS-P1-03

FIRE DAMPER SCHEDULE						
FD NO	CONC SIZE	THICK	MODEL	RATING	AREA	NOTE
FD-P1-1	600x200	150	D/G	2 HRS	PI02	
FD-P1-2	300x200	150	D/G	2 HRS	PI01	

GRILLE SCHEDULE								
GR NO	GRID LS	TYPE	NECK SIZE	FACE SIZE	PLENUM	SP-001	DAMPER	NOTE
E-P1-1	835	E05	600x150	NOK	NO	NO	DR0	
E-P1-2	750	E05	600x150	NOK	NO	NO	DR0	
E-P1-3	835	E05	600x150	NOK	NO	NO	DR0	
E-P1-4	750	E05	600x150	NOK	NO	NO	DR0	
E-P1-5	830	E05	600x150	NOK	NO	NO	DR0	
E-P1-6	3000	E05	800x200	NOK	NO	NO	DR0	
E-P1-7	670	E05	600x150	NOK	NO	NO	DR0	
E-P1-8	650	E05	600x150	NOK	NO	NO	DR0	
E-P1-9	670	E05	600x150	NOK	NO	NO	DR0	
E-P1-10	80	E05	150x200	NOK	NO	NO	DR0	
E-P1-11	105	E05	300x200	NOK	NO	NO	DR0	
S-P1-1	710	E05	600x150	NOK	NO	NO	DR0	
S-P1-2	750	E05	600x150	NOK	NO	NO	DR0	
S-P1-3	750	E05	600x150	NOK	NO	NO	DR0	
S-P1-4	740	E05	600x150	NOK	NO	NO	DR0	
S-P1-5	740	E05	600x150	NOK	NO	NO	DR0	
S-P1-6	740	E05	600x150	NOK	NO	NO	DR0	
S-P1-7	740	E05	600x150	NOK	NO	NO	DR0	
S-P1-8	740	E05	600x150	NOK	NO	NO	DR0	
S-P1-9	640	E05	600x150	NOK	NO	NO	DR0	
S-P1-10	650	E05	600x150	NOK	NO	NO	DR0	

AS BUILT

LEGEND 	KEY PLAN 	<table border="1"> <tr> <th>REV</th> <th>REVISIONS</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REV	REVISIONS	DATE				<p>PLEASE DO NOT SCALE THIS DRAWING AS DIMENSIONS MAY HAVE CHANGED. VERIFY EXISTING HEIGHTS AND OTHER DIMENSIONS WITH THE BUILDER ON SITE OR THE ARCHITECT. WRITTEN DIM'S ARE TO PREFERENCE OVER SCALED DIMENSIONS. CHECK THAT THIS DRAWING IS THE CURRENT ISSUE BEFORE USE. THIS DRAWING IS THE PROPERTY OF BARATECH PTY LTD AND CAN ONLY BE REPRODUCED WITH THE WRITTEN CONSENT OF THE COMPANY.</p>				DATE: 09 08 2008	DRAWN: ZF WJ	PROJECT NO: MS-P1-01	SCALE: 1:100@A0	ISSUE: C
			REV	REVISIONS	DATE												
DATE: 09 08 2008	DRAWN: ZF WJ	PROJECT NO: MS-P1-01	SCALE: 1:100@A0	ISSUE: C													



FOR CONTINUATION, REFER TO DRAWING NO. MS-P1-04

FOR CONTINUATION, REFER TO DRAWING NO. MS-P1-01

AS BUILT

FOR EQUIPMENT SCHEDULES REFER TO DRAWING MS-P1-01

LEGEND

	DUCTS UNSHIELDED DUCTWORK
	DUCTS EXTERNALLY INSULATED DUCTWORK
	DUCTS INTERNALLY INSULATED DUCTWORK
	DUCTS INTERNALLY INSULATED DUCTWORK

KEY PLAN

	DUCTS FIRE RATED DUCTWORK
	DUCTS DISTANCE BETWEEN DUCTWORK BY DUCT AND STRUCTURAL FLOOR SLAB
	WALL MOUNTED PERISTALTIC PUMP

PLEASE DO NOT SCALE THIS DRAWING AS DIMENSIONS MAY HAVE CHANGED. VERIFY CEILING HEIGHTS AND OTHER DIMENSIONS WITH THE BUILDER ON SITE OR THE ARCHITECT. WRITTEN DIMENSIONS ARE TO PREFERENCE OVER SCALED DIMENSIONS. CHECK THAT THE DRAWING IS THE CURRENT ISSUE BEFORE USE. THIS DRAWING IS THE PROPERTY OF BARATECH PTY LTD AND CAN ONLY BE REPRODUCED WITH THE WRITTEN CONSENT OF THE COMPANY.

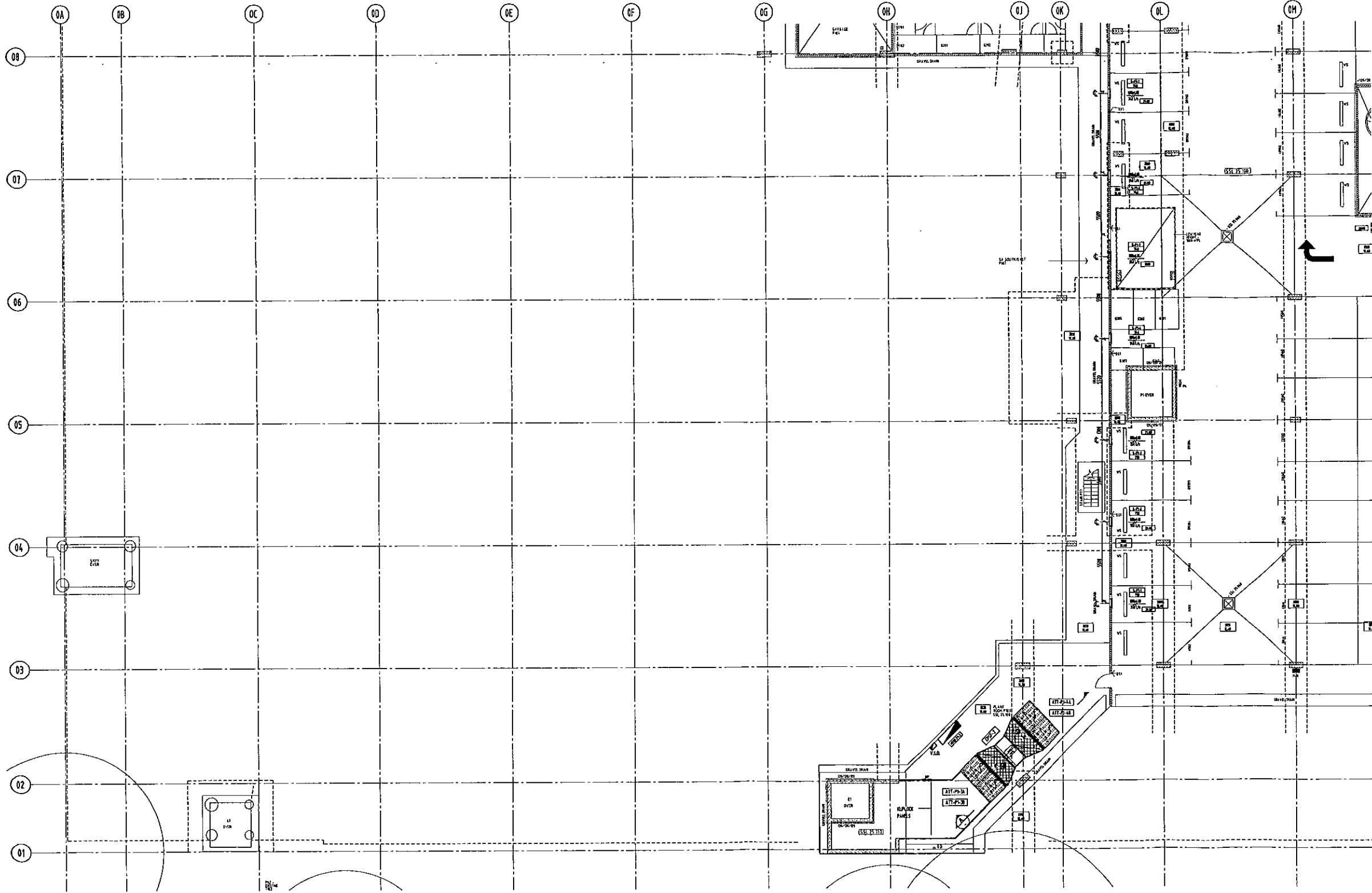
baratech
 10/100 Sturt Street, Sydney NSW 2000
 Tel: 02 9550 1111
 Fax: 02 9550 1112
 Email: info@baratech.com.au

Stockland
 STOCKLAND DEVELOPMENT PTY LIMITED

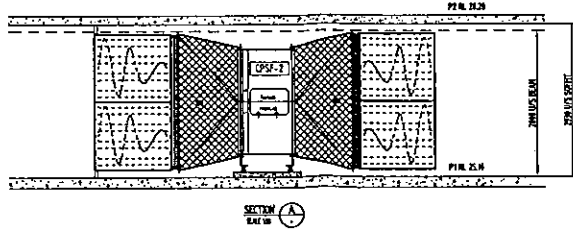
the village
 187-215 CONDOMINE STREET BALGOONAH NSW 2893

TITLE CARPARK LEVEL P1 GRIDS 08-17 & 0M-OV DUCTWORK LAYOUT		DRAWING NO. MS-P1-02		DATE 09.09.2008	DRAWN BY ZP WU	PROJECT NO. -	SCALE 1:100 @ A3	ISSUE C
PROJECT		DATE CHECKED		DRAWN		CHECKED		APPROVED

FOR CONTINUATION, REFER TO DRAWING NO. MS-P1-04



FOR CONTINUATION, REFER TO DRAWING NO. MS-P1-01



AS BUILT

FOR EQUIPMENT SCHEDULES REFER TO DRAWING MS-P1-01

LEGEND

	INDICATES UNINSULATED DUCTWORK		INDICATES FIRE RATED DUCTWORK
	INDICATES EXTERNALLY INSULATED DUCTWORK		INDICATES DISTANCE BETWEEN BOTTOM OF DUCT AND STRUCTURAL FLOOR SLAB
	INDICATES INTERNALLY INSULATED DUCTWORK		WALL MARKER THROUGHOUT
	INDICATES INTERNALLY INSULATED DUCTWORK		

No.	Revisions	Date	By	Appr.
1	AS BUILT	08-28-09		
2	ISSUE FOR CONSTRUCTION	27-10-09		
3	ISSUE FOR APPROVAL	12-29-08		

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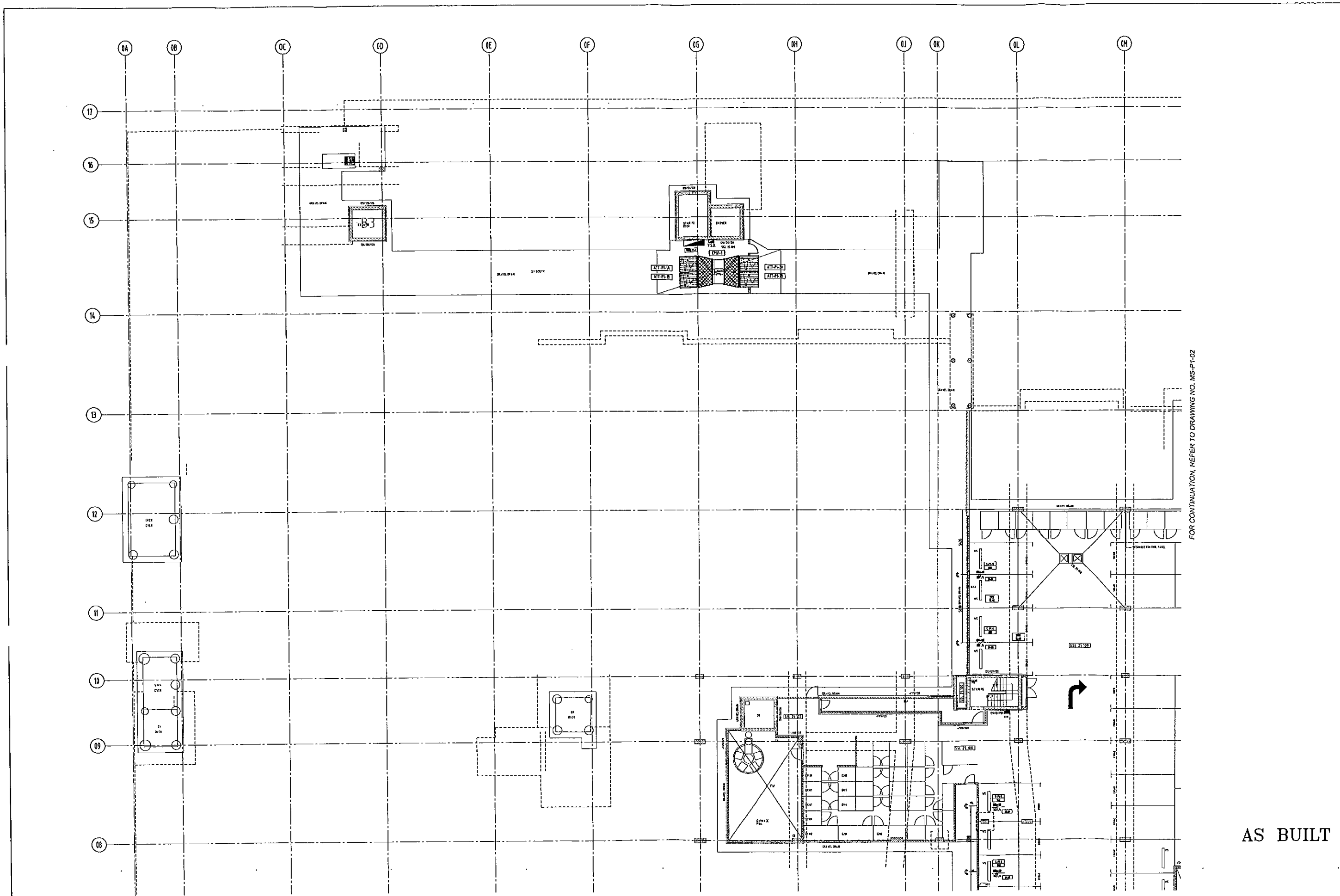
baratech
 Pty Ltd
 1/144 New South Street, Sydney NSW 1585
 Phone: 02 9550 1000
 Fax: 02 9550 1001
 Email: info@baratech.com.au

Stockland
 STOCKLAND DEVELOPMENT PTY LIMITED

the village
 197-215 CONNORHIE STREET BALGOONAH NSW 2893

REF: CARPARK LEVEL P1
 GRIDS 01-08 & 0A-0M
 DUCTWORK LAYOUT

DRAWING NO.	MS-P1-03	DATE	09-05-2008
PROJECT NO.		SCALE	1:100 @ A0
ISSUE	C	DATE	09-05-2008



FOR CONTINUATION, REFER TO DRAWING NO. MS-P1-02

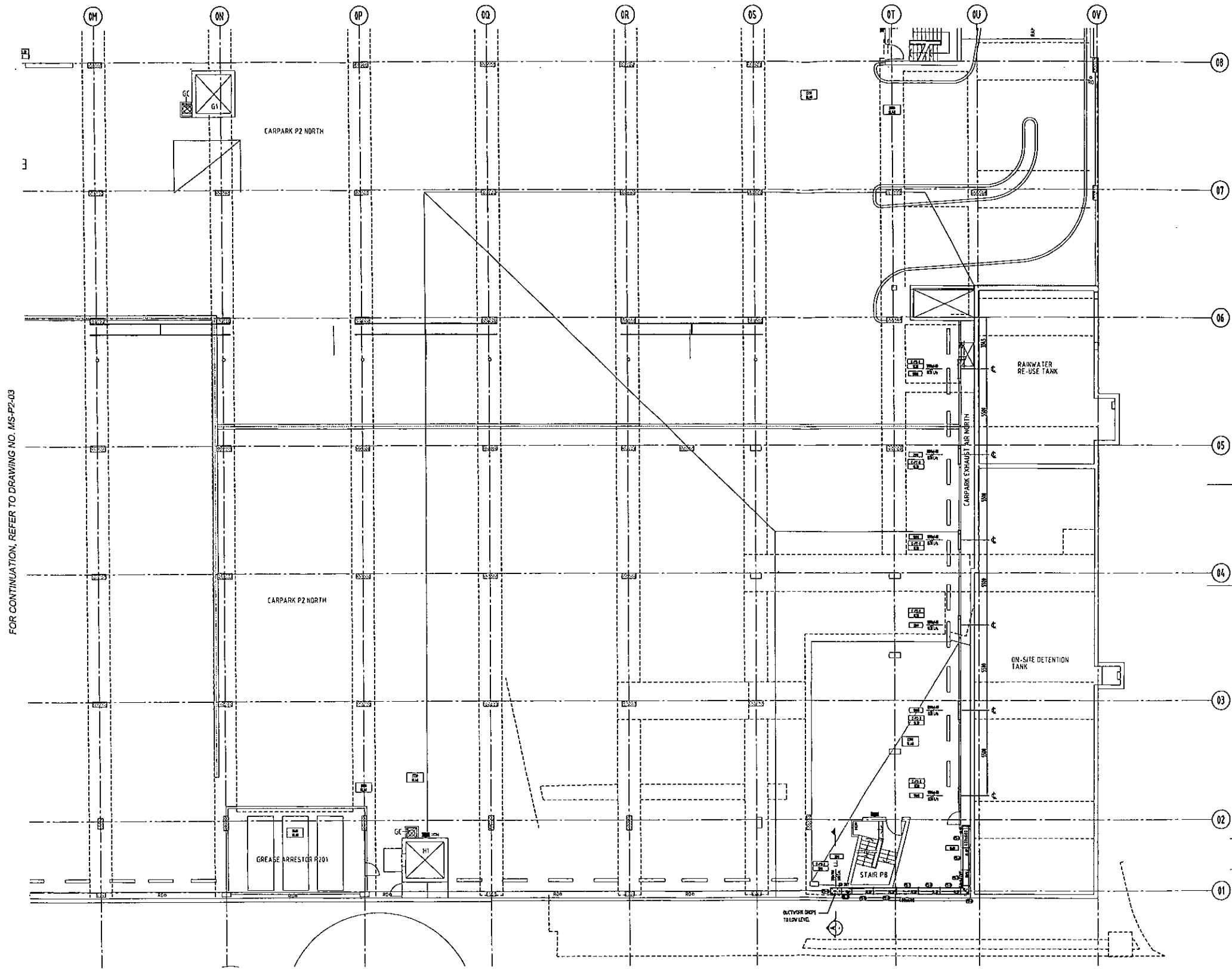
FOR CONTINUATION, REFER TO DRAWING NO. MS-P1-03

AS BUILT

FOR EQUIPMENT SCHEDULES REFER TO DRAWING MS-P1-01

LEGEND <ul style="list-style-type: none"> □ DUCTS UNINSULATED DUCTWORK ▨ DUCTS EXTERNALLY INSULATED DUCTWORK ▩ DUCTS INTERNALLY INSULATED DUCTWORK ▧ DUCTS SHOWN INTERNALLY INSULATED DUCTWORK ○ VALL RELATED DIMENSIONS 	KEY PLAN 	<table border="1"> <thead> <tr> <th>No.</th> <th>Revisions</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> </tr> <tr> <td>12</td> <td></td> <td></td> </tr> <tr> <td>13</td> <td></td> <td></td> </tr> <tr> <td>14</td> <td></td> <td></td> </tr> <tr> <td>15</td> <td></td> <td></td> </tr> <tr> <td>16</td> <td></td> <td></td> </tr> <tr> <td>17</td> <td></td> <td></td> </tr> <tr> <td>18</td> <td></td> <td></td> </tr> <tr> <td>19</td> <td></td> <td></td> </tr> <tr> <td>20</td> <td></td> <td></td> </tr> <tr> <td>21</td> <td></td> <td></td> </tr> <tr> <td>22</td> <td></td> <td></td> </tr> <tr> <td>23</td> <td></td> <td></td> </tr> <tr> <td>24</td> <td></td> <td></td> </tr> <tr> <td>25</td> <td></td> <td></td> </tr> <tr> <td>26</td> <td></td> <td></td> </tr> <tr> <td>27</td> <td></td> <td></td> </tr> <tr> <td>28</td> <td></td> <td></td> </tr> <tr> <td>29</td> <td></td> <td></td> </tr> <tr> <td>30</td> <td></td> <td></td> </tr> <tr> <td>31</td> <td></td> <td></td> </tr> <tr> <td>32</td> <td></td> <td></td> </tr> <tr> <td>33</td> <td></td> <td></td> </tr> <tr> <td>34</td> <td></td> <td></td> </tr> <tr> <td>35</td> <td></td> <td></td> </tr> <tr> <td>36</td> <td></td> <td></td> </tr> <tr> <td>37</td> <td></td> <td></td> </tr> <tr> <td>38</td> <td></td> <td></td> </tr> <tr> <td>39</td> <td></td> <td></td> </tr> <tr> <td>40</td> <td></td> <td></td> </tr> <tr> <td>41</td> <td></td> <td></td> </tr> <tr> <td>42</td> <td></td> <td></td> </tr> <tr> <td>43</td> <td></td> <td></td> </tr> <tr> <td>44</td> <td></td> <td></td> </tr> <tr> <td>45</td> <td></td> <td></td> </tr> <tr> <td>46</td> <td></td> <td></td> </tr> <tr> <td>47</td> <td></td> <td></td> </tr> <tr> <td>48</td> <td></td> <td></td> </tr> <tr> <td>49</td> <td></td> <td></td> </tr> <tr> <td>50</td> <td></td> <td></td> </tr> <tr> <td>51</td> <td></td> <td></td> </tr> <tr> <td>52</td> <td></td> <td></td> </tr> <tr> <td>53</td> <td></td> <td></td> </tr> <tr> <td>54</td> <td></td> <td></td> </tr> <tr> <td>55</td> <td></td> <td></td> </tr> <tr> <td>56</td> <td></td> <td></td> </tr> <tr> <td>57</td> <td></td> <td></td> </tr> <tr> <td>58</td> <td></td> <td></td> </tr> <tr> <td>59</td> <td></td> <td></td> </tr> <tr> <td>60</td> <td></td> <td></td> </tr> </tbody> </table>	No.	Revisions	Date	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			<p>PLEASE DO NOT SCALE THIS DRAWING AS DIMENSIONS MAY HAVE CHANGED. VERIFY CEILING HEIGHTS AND OTHER DIMENSIONS WITH THE BUILDER ON SITE OR THE ARCHITECT. WRITE IN ONLY ARE TO PREFERENCE OVER SCALED DIMENSIONS. CHECK THAT THIS DRAWING IS THE CURRENT ISSUE BEFORE USE. THIS DRAWING IS THE PROPERTY OF BARATECH PTY LTD AND CAN ONLY BE REPRODUCED WITH THE WRITTEN CONSENT OF THE COMPANY.</p>	<p>baratech Mechanical & Electrical Engineering 1/111 Pacific Highway North, Sydney NSW 2000 Phone: (02) 9550 9999 Fax: (02) 9550 9998 Email: info@baratech.com.au</p>	<p>Stockland STOCKLAND DEVELOPMENT PTY LIMITED</p>	<p>PROJECT the village 187-215 CONGDARE STREET BALGOYLAH NSW 2003</p>	<p>FILE CARPARK LEVEL P1 GRIDS 08-17 & 0A-0M DUCTWORK LAYOUT</p>	<p>DRAWING No. MS-P1-04</p>	<p>DATE: 08.09.2008</p>	<p>DRAWN: ZF WU</p>	<p>SCALE: 1:100@A3</p>	<p>ISSUE: C</p>
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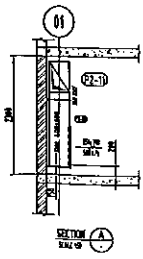
FOR CONTINUATION, REFER TO DRAWING NO. MS-P2-02



GRILLE SCHEDULE									
GR. NO.	Q.L.S.	TYPE	MECH. SIZE	FACE SIZE	PLENUM	SPRIG	DAMPER	NOTE	
E-P2-1	64	EGS	334x704	NOPL	NO	NO	DB		
E-P2-2	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-3	630	EGS	206x440	NOPL	NO	NO	DB		
E-P2-4	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-5	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-6	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-7	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-8	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-9	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-10	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-11	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-12	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-13	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-14	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-15	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-16	636	EGS	206x440	NOPL	NO	NO	DB		
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E-P2-22	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-23	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-24	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-25	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-26	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-27	636	EGS	206x440	NOPL	NO	NO	DB		
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E-P2-35	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-36	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-37	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-38	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-39	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-40	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-41	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-42	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-43	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-44	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-45	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-46	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-47	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-48	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-49	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-50	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-51	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-52	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-53	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-54	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-55	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-56	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-57	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-58	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-59	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-60	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-61	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-62	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-63	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-64	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-65	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-66	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-67	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-68	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-69	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-70	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-71	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-72	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-73	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-74	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-75	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-76	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-77	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-78	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-79	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-80	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-81	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-82	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-83	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-84	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-85	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-86	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-87	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-88	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-89	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-90	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-91	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-92	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-93	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-94	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-95	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-96	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-97	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-98	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-99	636	EGS	206x440	NOPL	NO	NO	DB		
E-P2-100	636	EGS	206x440	NOPL	NO	NO	DB		

FIRE DAMPER SCHEDULE						
FD. NO.	CONC. SIZE	THICK.	MODEL	RATING	AREA	NOTE
FD-P2-1	140x174	M4	D/G	2 HRS	P207	
FD-P2-2	300x300	M4	D/G	2 HRS	P207	
FD-P2-3	250x250	M4	D/G	2 HRS	P210	
FD-P2-4	200x200	M4	D/G	2 HRS	P212	
FD-P2-5	300x300	M4	D/G	2 HRS	P208	
FD-P2-6	300x300	M4	D/G	2 HRS	P205	
FD-P2-7	300x300	M4	D/G	2 HRS	P206	DELETE
FD-P2-8	400x400	M4	D/G	2 HRS	P205	
FD-P2-9	200x200	M4	D/G	2 HRS	P209	
FD-P2-10	200x200	M4	D/G	2 HRS	P204	
FD-P2-11	300x300	M4	D/G	2 HRS	P201	DELETE

FOR CONTINUATION, REFER TO DRAWING NO. MS-P2-03



AS BUILT

LEGEND

- DUCTS UNINSULATED DUCTWORK
- DUCTS ARE RETARD DUCTWORK
- DUCTS WITH EXTERNALLY INSULATED DUCTWORK
- DUCTS WITH INTERNALLY INSULATED DUCTWORK
- DUCTS WITH INTERNALLY INSULATED DUCTWORK

KEY PLAN

REVISIONS

No.	Description	Date
1	AS BUILT	08/25/08
2	ISSUED FOR CONSTRUCTION	10/17/08
3	ISSUED FOR APPROVAL	12/10/08
4	ISSUED FOR CO-ORDINATION	12/10/08

PLEASE DO NOT SCALE THIS DRAWING AS DIMENSIONS MAY HAVE CHANGED. VERIFY CEILING HEIGHTS AND OTHER DIMENSIONS WITH THE BUILDER ON SITE OR THE ARCHITECT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. CHECK THAT THIS DRAWING IS THE CURRENT ISSUE BEFORE USE. THIS DRAWING IS THE PROPERTY OF BARATECH PTY LTD AND CAN ONLY BE REPRODUCED WITH THE WRITTEN CONSENT OF THE COMPANY.

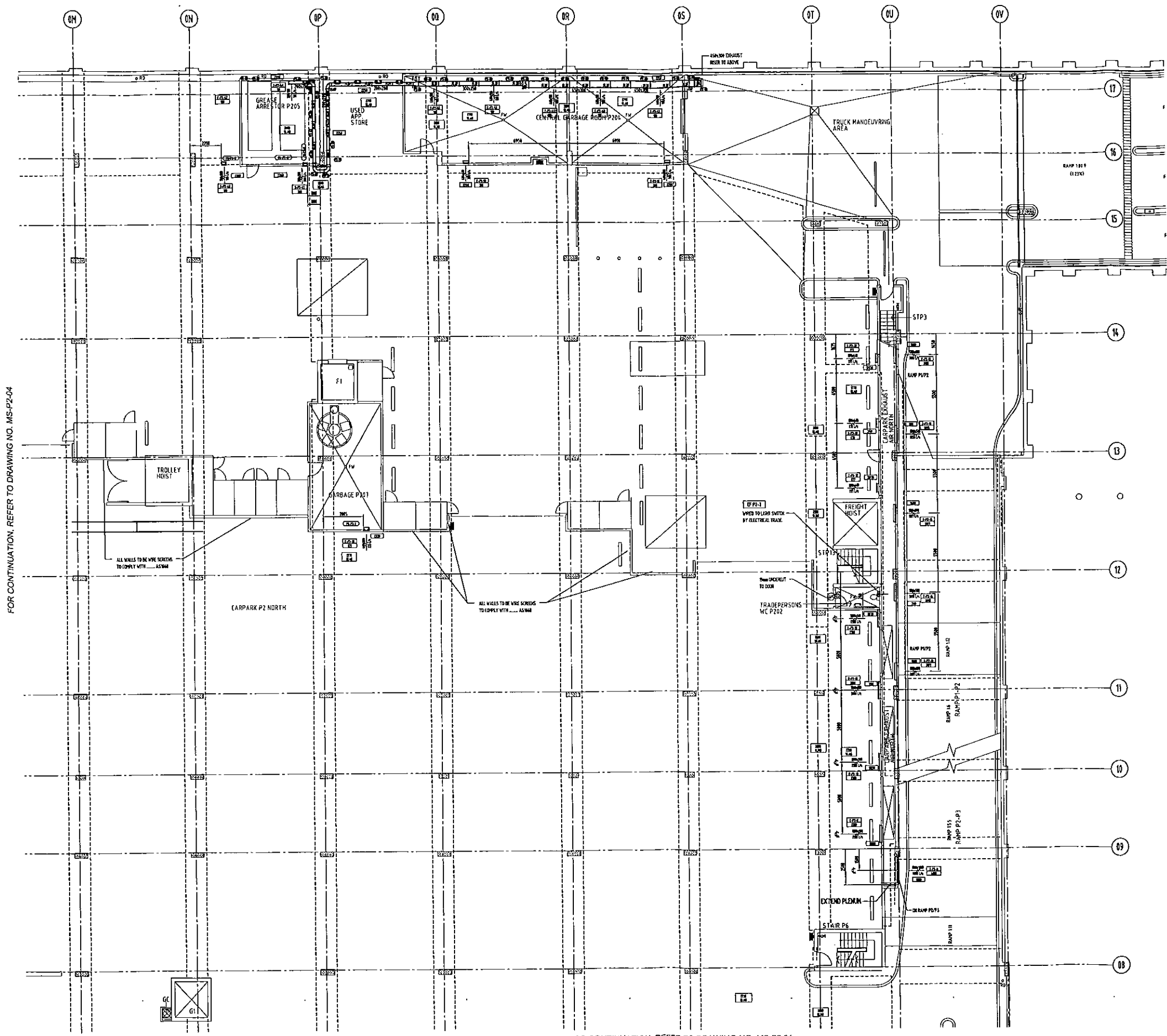
baratech

Stockland

the village

CARPARK LEVEL P2 GRIDS 01 - 08 & 0M - 0V DUCTWORK LAYOUT

DATE: 01.08.2008 DRAWN: ZF WU PROJECT NO: MS-P2-01 SCALE: 1:100 ISSUE: D



FOR CONTINUATION, REFER TO DRAWING NO. MS-P2-04

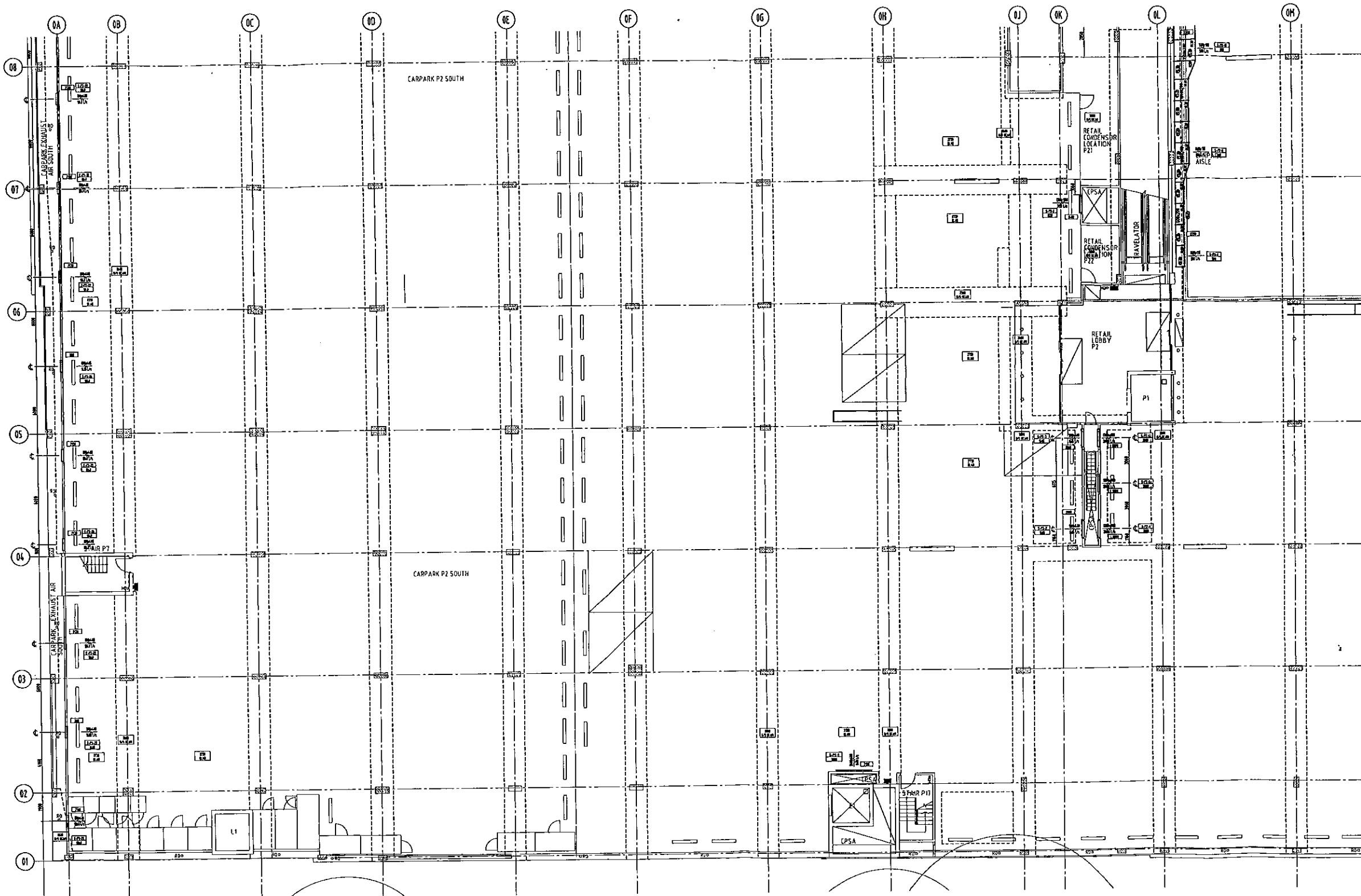
FOR CONTINUATION, REFER TO DRAWING NO. MS-P2-01

AS BUILT

FOR EQUIPMENT SCHEDULES REFER TO DRAWING MS-P2-01

LEGEND DOTTED UNINSULATED DUCTWORK HATCHED EXTERNALLY INSULATED DUCTWORK HATCHED INTERNALLY INSULATED DUCTWORK DOTTED FINE MESH DUCTWORK DOTTED DISTANCE BETWEEN BOTTOM OF SLAB AND STRUCTURAL FLOOR SLAB WALL HOISTED THERMOSTAT KEY PLAN	<table border="1"> <tr> <th>No.</th> <th>Rev.</th> <th>Date</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	Rev.	Date				<table border="1"> <tr> <th>No.</th> <th>Rev.</th> <th>Date</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	Rev.	Date				PLEASE DO NOT SCALE THIS DRAWING AS DIMENSIONS MAY HAVE CHANGED. VERIFY CEILING HEIGHTS AND OTHER DIMENSIONS WITH THE BUILDER ON SITE OR THE ARCHITECT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. CHECK THAT THIS DRAWING IS THE CURRENT ISSUE BEFORE USE. THIS DRAWING IS THE PROPERTY OF BARATACH PTY LTD. AND CAN ONLY BE REPRODUCED WITH THE WRITTEN CONSENT OF THE COMPANY.				FILE: CARPARK LEVEL P2 GRIDS 08-17 & 0M-0V DUCTWORK LAYOUT	DRAWING NO: MS-P2-02	PROJECT:	DATE: 01.08.2008	DRAWN: ZF HUI	SCALE: 1:100	REV: D
		No.	Rev.	Date																					
No.	Rev.	Date																							
D A CHECKED:	PROJECT:	DATE:	DRAWN:	SCALE:	REV:																				

FOR CONTINUATION, REFER TO DRAWING NO. MS-P2-04



FOR CONTINUATION, REFER TO DRAWING NO. MS-P2-01

AS BUILT

FOR EQUIPMENT SCHEDULES REFER TO DRAWING MS-P2-01

LEGEND

- DUCTS UNLAGGED DUCTWORK
- DUCTS 25mm EXTERNALLY INSULATED DUCTWORK
- DUCTS 25mm INTERNALLY INSULATED DUCTWORK
- DUCTS 100mm LAGGED DUCTWORK
- DUCTS FIRE RATED DUCTWORK
- DUCTS DISTANCE BETWEEN MIDDLES OF DUCT AND STRUCTURAL FLOOR SLAB
- WALL MOUNTED THERMOSTAT

KEY PLAN

No.	Revisions	Date	By	Checked

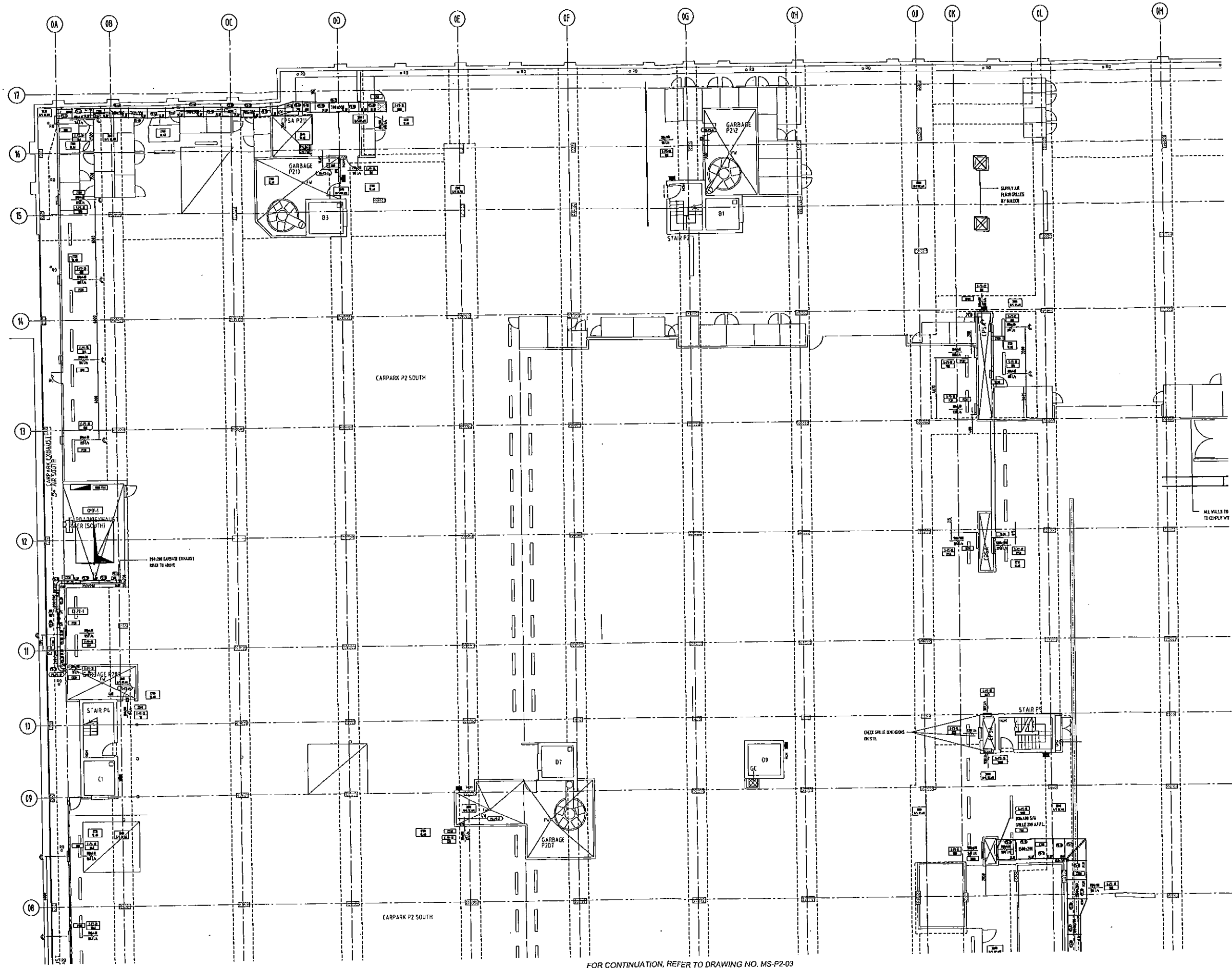
PLEASE DO NOT SCALE THIS DRAWING AS DIMENSIONS MAY HAVE CHANGED. VERIFY GOING HEIGHTS AND OTHER DIMENSIONS WITH THE BUILDER ON SITE OR THE ARCHITECT. WRITER DOWN ARE TO PREFERENCE OVER SCALED DIMENSIONS. CHECK THAT THIS DRAWING IS THE CURRENT ISSUE. BEFORE USE, THIS DRAWING IS THE PROPERTY OF BARATECH PTY LTD AND CAN ONLY BE REPRODUCED WITH THE WRITTEN CONSENT OF THE COMPANY.

baratech
 Pty Ltd
 151/216 CONDAVINE STREET BALGOGLAH NSW 2893
 08 9521 1111
 08 9521 1112

Stockland
 STOCKLAND DEVELOPMENT PTY LIMITED

the village
 151/216 CONDAVINE STREET BALGOGLAH NSW 2893

DATE	01.08.2008	DRAWN	ZF WJL
PROJECT NO.		SCALE	1:100
DRAWING NO.	MS-P2-03	ISSUE	D
DESIGNED BY	G.A. O'NEILL	REVISED BY	



FOR CONTINUATION, REFER TO DRAWING NO. MS-P2-02

AS BUILT

FOR CONTINUATION, REFER TO DRAWING NO. MS-P2-03

FOR EQUIPMENT SCHEDULES REFER TO DRAWING MS-P2-01

LEGEND	
	DUCTS 10mm EXTERNALLY INSULATED DUCTWORK
	DUCTS 20mm EXTERNALLY INSULATED DUCTWORK
	DUCTS 30mm EXTERNALLY INSULATED DUCTWORK
	DUCTS 40mm EXTERNALLY INSULATED DUCTWORK
	DUCTS 50mm EXTERNALLY INSULATED DUCTWORK
	DUCTS 10mm INTERNALLY INSULATED DUCTWORK
	DUCTS 20mm INTERNALLY INSULATED DUCTWORK
	DUCTS 30mm INTERNALLY INSULATED DUCTWORK
	DUCTS 40mm INTERNALLY INSULATED DUCTWORK
	DUCTS 50mm INTERNALLY INSULATED DUCTWORK
	DUCTS FIRE RETURN DUCTWORK
	DUCTS LOCATED BETWEEN BOTTOM OF DECK AND STRUCTURAL FLOOR SLAB
	WALL MOUNTED THERMOSTAT

KEY PLAN	
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PLEASE DO NOT SCALE THIS DRAWING AS DIMENSIONS MAY HAVE CHANGED. VERIFY CEILING HEIGHTS AND OTHER DIMENSIONS WITH THE BUILDER ON SITE OR THE ARCHITECT. WRITE DIMENSIONS TO PREFERENCING OVER SCALED DIMENSIONS. CHECK THAT THIS DRAWING IS THE CURRENT ISSUE BEFORE USE. THIS DRAWING IS THE PROPERTY OF BARATECH PTY LTD AND CAN ONLY BE REPRODUCED WITH THE WRITTEN CONSENT OF THE COMPANY.	
0	AS BUILT
1	ISSUE FOR CONSTRUCTION
2	ISSUE FOR APPROVAL
3	ISSUE FOR COORDINATION
4	ISSUE FOR CONSTRUCTION
5	ISSUE FOR CONSTRUCTION
6	ISSUE FOR CONSTRUCTION
7	ISSUE FOR CONSTRUCTION
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15	ISSUE FOR CONSTRUCTION
16	ISSUE FOR CONSTRUCTION
17	ISSUE FOR CONSTRUCTION

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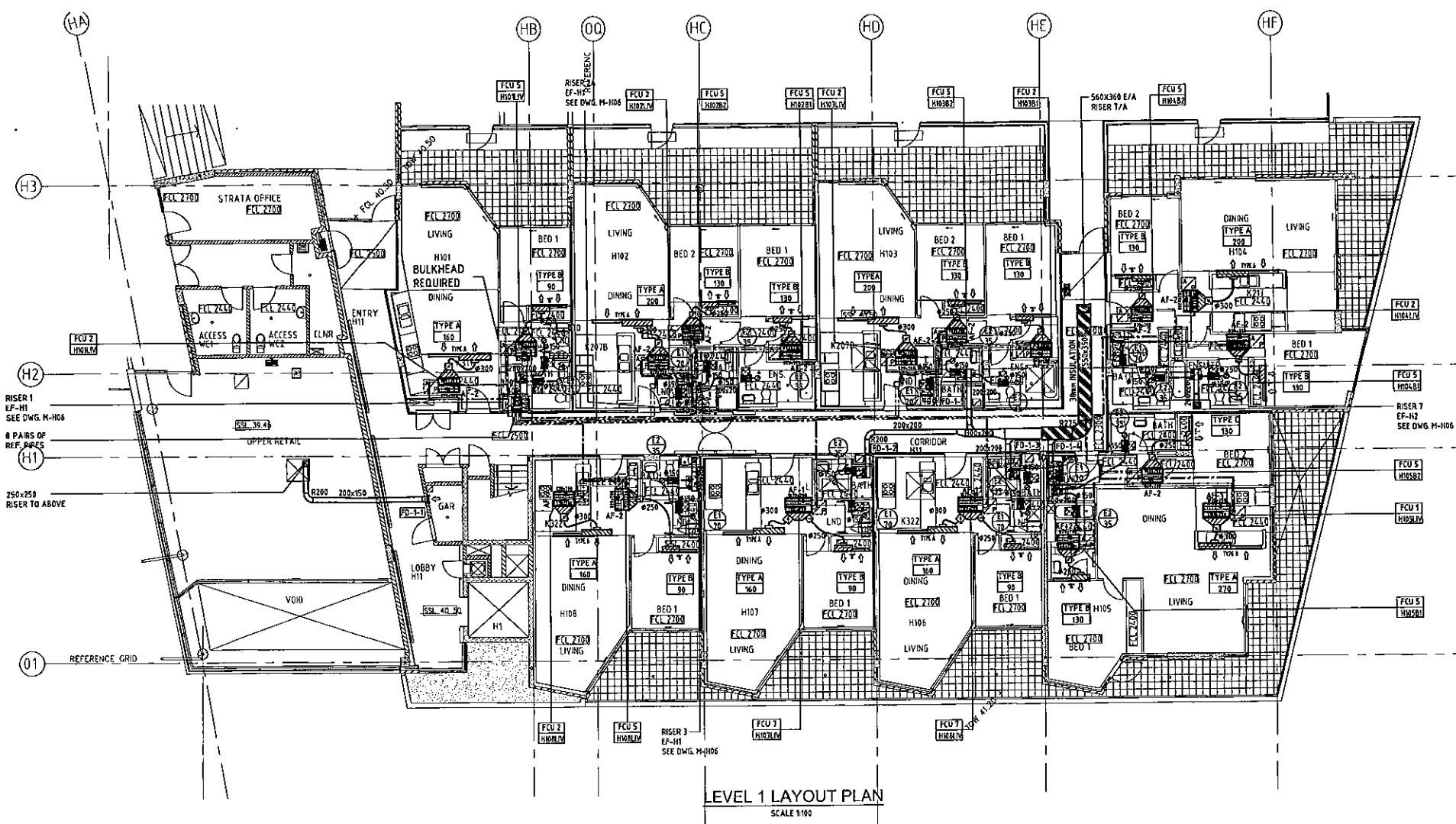


CLIENT: **Stockland**
 STOCKLAND DEVELOPMENT PTY LIMITED

PROJECT: **the village**
 197-215 CONDOMINIUM STREET BALGOONAH NSW 2093

TITLE: **CARPARK LEVEL P2
 GRIDS 08-17 & 0A-0M
 DUCTWORK LAYOUT**

DRAWING NO:	MS-P2-04	DATE:	01.08.2008	SCALE:	1:100	ISSUE:	D
PROJECT NO:		DESIGNER:	ZF HU				
DATE CHECKED:		APPROVED:					
DATE:		DATE:					



- NOTES:
- GPD BY OTHERS, LOCATED APPRO. 800mm FROM DUNE FAN
 - FAN TO BE ELECTRICALLY INTER LOCKED WITH LIGHT SWITCH OF BATH/ENSUITE/LAUNDRY
 - A/C POWER SUPPLY DISTRIBUTION BOARD IN EACH APARTMENT BY OTHERS MECHANICAL CONTRACTOR WIRE TO CONDENSING UNITS & FAN COIL UNITS
 - FRAME FOR LINER GRILLE OF AIR CONDITIONING TO BE PROVIDED BY OTHERS TO THE SPECIFIED GRILLE TYPE SHOWN IN THE GRILLE SCHEDULE
 - ALL SINGLE BEDROOM SHALL BE INSTALLED WITH ZONE CONTROLLED MOTORISED DAMPER TO BE INSTALLED IN FLEXIBLE DUCT OF LIVING ROOM & BED ROOM

DRAWINGS USED

MECHANICAL	ARCHITECTURAL	RC PLAN	STRUCTURAL
M-H01/PT	AH76/VAG	AP25/50	-

LEGEND:

- UNINSULATED METAL DUCTWORK
- 50mm INTERNALLY INSULATED DUCTWORK
- 25mm INTERNALLY INSULATED DUCTWORK FOR VENTILATION & 38mm FOR AIR CONDITIONING
- EXTERNALLY INSULATED FIRE RATED DUCTWORK
- 25mm EXTERNALLY INSULATED DUCTWORK
- R/A RISER
- S/A RISER
- SPIGOT WITH BUTTERFLY DAMPER
- SUPPLY AIR DIFFUSER
- ACCESS PANEL 500x600
- REFRIGERANT PIPING (SUPPLY & RETURN)
- CONDENSATE DRAIN (INSULATED COPPER)
- TUNISH
- FILTER
- TYPE A LINEAR GRILLE-LENGTH/HEIGHT
- SUPPLY AIR GRILLE WITH PLENUM BOX c/w 38mm INTERNAL INSULATION & VERTICAL DIRECTION BLADES MOUNTED DIRECTLY BEHIND GRILLE
- RETURN AIR PATH c/w 100x100 S/METAL ANGLE PAINTED MATT BLACK TO OBSCURE CEILING VOID THROUGH GRILLE
- ACOUSTIC FLEXIBLE DUCTWORK
- EXHAUST GRILLE FAN
- AIR CONDITIONING UNIT LD NO.1
- FIRE DAMPER LEVEL 2 NO.1
- EXHAUST AIR GRILLE 750x100 (FOR BATH/ENSUITE) 750x100 (FOR LAUNDRY)
- MCHANICAL SWITCH BOARD
- NON RETURN DAMPER
- R/A SUPPLY AIR
- S/A SUPPLY AIR
- O/A OUTSIDE AIR
- E/A EXHAUST AIR
- F/A FROM ABOVE
- T/B TO BELOW

NORTH

REVISION	DESCRIPTION	DATE
11	AS INSTALLED	12-06-09
10	AMENDED SIZES OF WALL GRILLES	09-04-09
09	FOR CONSTRUCTION	23-02-09
08	FOR CONSTRUCTION	08-01-09
07	FOR CONSTRUCTION	11-12-08
06	FOR CO-ORDINATION	29-10-08
05	FOR CO-ORDINATION	16-10-08
04	FOR CO-ORDINATION	01-10-08
03	FOR CO-ORDINATION	17-09-08
02	FOR CO-ORDINATION	25-08-08
01	FOR CO-ORDINATION	03-07-08

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CONSULTING ENGINEERS
15A FLOTH 233 VICTORIA AVENUE
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TELEPHONE: 612 9311 4500
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CLIENT
Stockland
STOCKLAND DEVELOPMENT PTY. LIMITED

BUILDER
Abigroup
CONSTRUCTING AUSTRALIA'S FUTURE

MECHANICAL CONTRACTOR
zenithair
AIR CONDITIONING, VENTILATION, ENGINEERING, PROJECT MANAGEMENT
10 BRIDGE ROAD BALGOOLAH NSW 2003
PH 02 8334 8000 FAX 02 8334 8000

PROJECT
the village
191-215 CONNOR STREET BALGOOLAH NSW 2003
PH NO. 04097

DRAWING TITLE:
MECHANICAL SERVICES BUILDING H LEVEL 1 PLAN & DETAILS

ISSUE FOR CONSTRUCTION

SCALE:	CHECKED:	DRAWN:
AS SHOWN @ B1	MH	ENRAVEL
DATE:	DRAWING No.	REV
MAY '08	M - H01	11
SHEET		

FIRE DAMPER SCHEDULE

REF.	DIMENSION	WALL THICKNESS	TYPE
	WIDTH	HEIGHT	(mm)
FD-1-1	250	200	
FD-1-2	200	200	
FD-1-3	200	200	
FD-1-4	200	200	
FD-1-5	200	200	

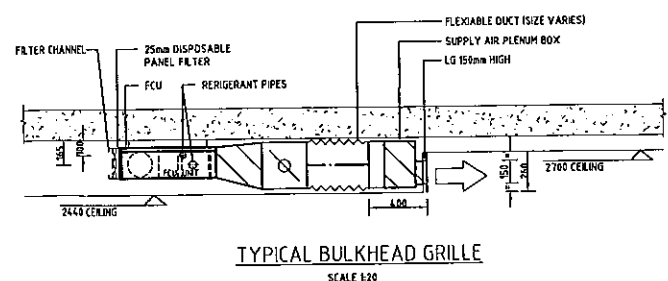
GRILLE SCHEDULE

REF	NECK SIZE (mm)	AREA SERVED	MANUFACTURE	MODEL	COLOR	No OFF QTY
TYPE A	200x150	LIVING/DINING	AIRTAG	BG-10FL	STANDARD WHITE	1
TYPE B	150x150	BED ROOM	AIRTAG	BG-10FL	STANDARD WHITE	1
TYPE C	120x150	BED ROOM	AIRTAG	BG-10FL	STANDARD WHITE	1

BG-10FL: 10mm FLANGE, 25mm DEEP, 5 DEGREE REFLECTION ON BLADES.

EQUIPMENTS SCHEDULE

REF	MAKE	MODEL	REMARK
FCU1	DAIKIN	FX0035NAYE	INDOOR
FCU2	DAIKIN	FX0056NAYE	INDOOR
FCU3	DAIKIN	FX0046NAYE	INDOOR
FCU4	DAIKIN	FX0035NAYE	INDOOR
FCU5	DAIKIN	FX0025NAYE	INDOOR
FCU6	DAIKIN	FB071BY1A	INDOOR
FCU7	DAIKIN	FB071BY1A	INDOOR
FCU8	DAIKIN	FDX535CVMA	INDOOR
FCU9	DAIKIN	FDX535CVMA	INDOOR
CU1	DAIKIN	RXYH04PV4A	OUTDOOR
CU2	DAIKIN	RXYH04PV4A	OUTDOOR
CU3	DAIKIN	RXYH04PV4A	OUTDOOR
CU4	DAIKIN	RXYH04PV4A	OUTDOOR
CU5	DAIKIN	3MX586VMA	OUTDOOR

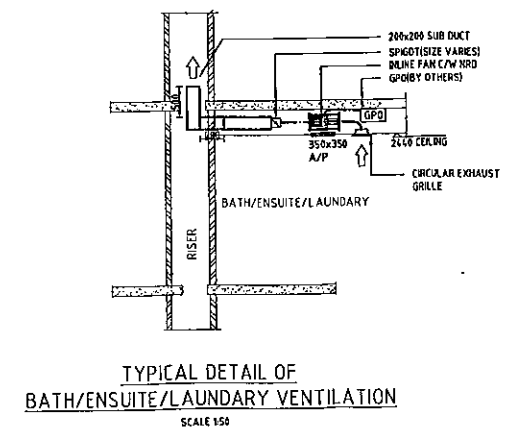
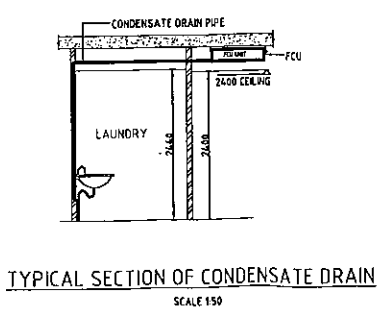


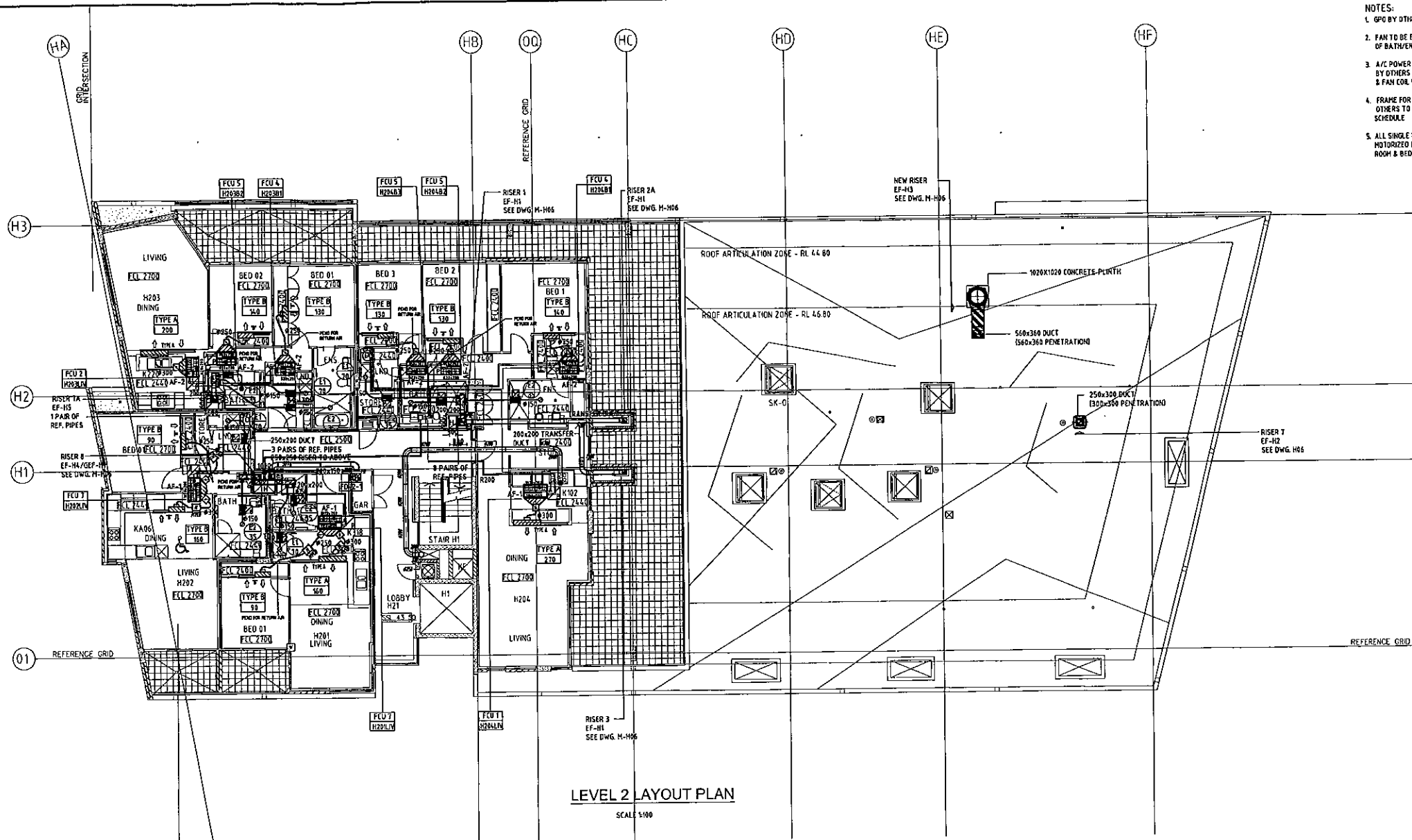
FILTER SCHEDULE

REF	FILTER MEDIA (WxDxT)mm	FILTER HOLDING FRAME ((W+12)x(D+12)xT)
AF-1	1020x200x25	1032x212x25
AF-2	820x200x25	832x212x25

SCHEDULE OF AIR CONDITIONING

Building/Level	Apartment/Room Number	Outdoor Unit		Indoor Unit		Capacity (kwr)		Supply Air l/s
		Quantity	Pipe Size	Quantity	Pipe Size	Cooling	Heating	
HI	H101-LIV/DN	1	-	1	FCU-H101LV-FCU4	3.6	2.4	250
HI	H101-BED1	1	-	1	FCU-H101LV-FCU7	2.4	1.6	150
HI	H102-LIV/DN	1	95/15.9	1	FCU-H102LV-FCU2	4	2.8	200
HI	H102-BED1	1	-	1	FCU-H102LV-FCU5	1.27	0.8	100
HI	H102-BED2	1	-	1	FCU-H102LV-FCU5	1.43	0.9	100
HI	H103VX-LIV/DN	1	95/15.9	1	FCU-F103LV-FCU2	4	2.8	200
HI	H103-BED1	1	-	1	FCU-F103LV-FCU5	1.27	0.8	100
HI	H103-BED2	1	-	1	FCU-F103LV-FCU5	1.43	0.9	100
HI	H104-LIV/DN	1	95/15.9	1	FCU-F104LV-FCU2	7.3	4.8	250
HI	H104-BED1	1	-	1	FCU-F104LV-FCU5	1.07	0.7	100
HI	H104-BED2	1	-	1	FCU-F104LV-FCU5	2.23	1.5	150
HI	H105-LIV/DN	1	95/15.9	1	FCU-F105LV-FCU1	6.03	3.9	270
HI	H105-BED1	1	-	1	FCU-H105LV-FCU5	1.1	0.7	100
HI	H105-BED2	1	-	1	FCU-H105LV-FCU5	1.23	0.8	100
HI	H106VX-LIV/DN	1	-	1	FCU-H106LV-FCU7	4.2	2.8	250
HI	H106-BED1	1	-	1	FCU-H106LV-FCU7	2.4	1.6	150
HI	H107-LIV/DN	1	-	1	FCU-H107LV-FCU7	4.2	2.8	250
HI	H107-BED1	1	-	1	FCU-H107LV-FCU7	2.4	1.6	150
HI	H108-LIV/DN	1	-	1	FCU-H108LV-FCU7	4.2	2.8	250
HI	H108-BED1	1	-	1	FCU-H108LV-FCU7	2.4	1.6	150





- NOTES:
- GPO BY OTHERS, LOCATED APPRO. 800mm FROM INLINE FAN
 - FAN TO BE ELECTRICALLY INTER LOCKED WITH LIGHT SWITCH OF BATH/ENSUITE/LAUNDRY
 - A/C POWER SUPPLY DISTRIBUTION BOARD IN EACH APARTMENT BY OTHERS MECHANICAL CONTRACTOR WIRE TO CONDENSING UNITS & FAN COIL UNITS
 - FRAME FOR LINER GRILLE OF AIR CONDITIONING TO BE PROVIDED BY OTHERS TO THE SPECIFIED GRILLE TYPE SHOWN IN THE GRILLE SCHEDULE
 - ALL SINGLE BEDROOM SHALL BE INSTALLED WITH ZONE CONTROL, MOTORIZED DAMPER TO BE INSTALLED IN FLEXIBLE DUCT OF LIVING ROOM & BED ROOM

DRAWINGS USED

MECHANICAL	ARCHITECTURAL	RE PLAN	STRUCTURAL	HYDRAULICS
11/01/01	AH2/02/AB	AP24/25/C	-	20/02/02/A

LEGEND:

- UNINSULATED METAL DUCTWORK
- 50mm INTERNALLY INSULATED DUCTWORK
- 25mm INTERNALLY INSULATED DUCTWORK FOR VENTILATION & 38mm FOR AIR CONDITIONING
- EXTERNALLY INSULATED FIRE RATED DUCTWORK
- 25mm EXTERNALLY INSULATED DUCTWORK
- R/A RISER
- S/A RISER
- SPIGOT WITH BUTTERFLY DAMPER
- SUPPLY AIR DEFUSER
- ACCESS PANEL 400x600
- REFRIGERANT PIPING (SUPPLY & RETURN)
- CONDENSATE DRAIN (INSULATED COPPER)
- TUNDSH
- FILTER

0 TYPE A LINEAR GRILLE-LENGTHxHEIGHT

SUPPLY AIR GRILLE WITH PLENUM BOX c/v 38mm INTERNAL INSULATION & VERTICAL DIRECTION BLADES MOUNTED DIRECTLY BEHIND GRILLE

RETURN AIR PATH c/v 100x100 S/METAL ANGLE PAINTED MATT BLACK TO ASSURE CEILING VOID THROUGH GRILLE

ACOUSTIC FLEXIBLE DUCTWORK

EXHAUST GRILLE FAN

AIR CONDITIONING UNIT LD NO.1

FIRE DAMPER LEVEL 2 NO.1

EXHAUST AIR GRILLE

350/A-#50 (FOR BATH/ENSUITE)

300/A-#50 (FOR LAUNDRY)

MECHANICAL SWITCH BOARD

NON RETURN DAMPER

RETURN AIR

SUPPLY AIR

OUTSIDE AIR

EXHAUST AIR

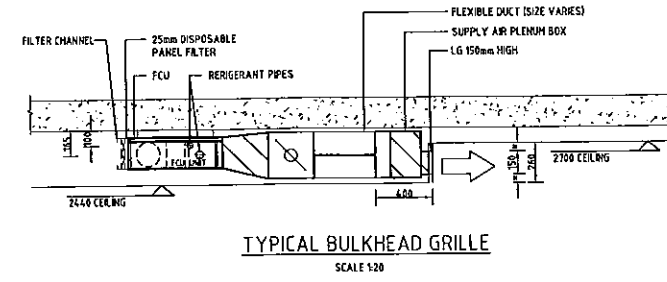
FROM ABOVE

TO BELOW

NORTH

REVISION	DESCRIPTION	DATE
12	AS INSTALLED	12-06-09
11	AMENDED SIZES OF WALL GRILLES	09-04-09
10	FOR CONSTRUCTION	23-02-09
09	FOR CONSTRUCTION	11-02-09
08	PENETRATION FOR R/A ADDED	
07	FOR CONSTRUCTION	08-01-09
06	FOR CONSTRUCTION	11-12-08
05	FOR CO-ORDINATION	29-10-08
04	FOR CO-ORDINATION	16-10-08
03	FOR CO-ORDINATION	01-10-08
02	FOR CO-ORDINATION	17-09-08
01	FOR CO-ORDINATION	25-08-08
00	FOR CO-ORDINATION	03-07-08

LEVEL 2 LAYOUT PLAN
SCALE 1:100



FILTER SCHEDULE

REF	FILTER MEDIA (WxDxT)mm	FILTER HOLDING FRAME ((W+12)x(D+12)xT)
AF-1	920x290x25	932x302x25
AF-2	910x290x25	922x302x25

EQUIPMENTS SCHEDULE

REF	MAKE	MODEL	REMARK
FCU1	DAIKIN	FXD03SHAVE	INDOOR
FCU2	DAIKIN	FXD03SHAVE	INDOOR
FCU3	DAIKIN	FXD04SHAVE	INDOOR
FCU4	DAIKIN	FXD03SHAVE	INDOOR
FCU5	DAIKIN	FXD03SHAVE	INDOOR
FCU6	DAIKIN	F807BYVIA	INDOOR
FCU7	DAIKIN	F807BYVIA	INDOOR
FCU8	DAIKIN	FXS35CVMA	INDOOR
FCU9	DAIKIN	FXS56CVMA	INDOOR
CUI	DAIKIN	RXYN0LPYLA	OUTDOOR
CUI1	DAIKIN	RXYN0SPVLA	OUTDOOR
CUI2	DAIKIN	RXYN0SPVLA	OUTDOOR
CUI3	DAIKIN	RXYN0SPVLA	OUTDOOR
CUI4	DAIKIN	RXYN0SPVLA	OUTDOOR
CUI5	DAIKIN	RXYN0SPVLA	OUTDOOR

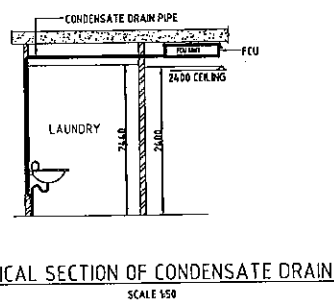
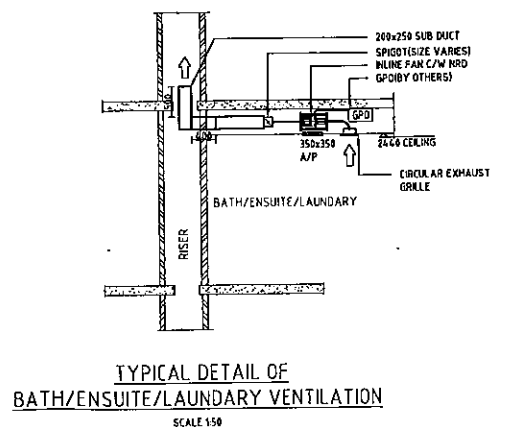
GRILLE SCHEDULE

REF	RECT SIZE (mm)	AREA SERVED	MANUFACTURE	MODEL	COLOR	No. Off QTY
TYPE A	2620x150	LIVING/DINING	AIRTAG	BG-12FL	STANDARD WHITE	3
TYPE B	1500x150	BED ROOM	AIRTAG	BG-12FL	STANDARD WHITE	8

BG-12FL: 2mm PLATE, 27mm DEPT, 6 DEGREE DEFLECTION ON BLADES.

SCHEDULE OF AIR CONDITIONING

Building Level	Apartment/Room Number	Outdoor Unit			Indoor Unit			Capacity (kw)		Supply Air l/s
		Quantity	Pipe Size	Type/Model	Quantity	Pipe Size	Type/Model	Cooling	Heating	
H2	H201-LIV/DIN	1	-	AC-H201-CUI	1	-	FCU-H201LV-FCU1	4.2		254
H2	H201-BED1							2.4		
H2	H202-LIV/DIN	1	-	AC-H202-CUI	1	-	FCU-H202LV-FCU2	4		250
H2	H202-BED1							1.27		
H2	H203YK-LIV/DIN	1	9.5/15.9	AC-H203-CUI	1	6.4/12.7	FCU-F203LV-FCU3	6.4		268
H2	H203-BED1							1.4		148
H2	H203-BED2							1.27		138
H2	H204-LIV/DIN	1	9.5/15.9	AC-H204-CUI	1	6.4/12.7	FCU-F204LV-FCU4	7.3		279
H2	H204-BED1							1.4		148
H2	H204-BED2							1.27		138
H2	H204-BED3							1.43		150



ARCHITECT
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BUILDER
Abigroup
CONSTRUCTING AUSTRALIA'S FUTURE

MECHANICAL CONTRACTOR
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PROJECT
the village
157-216 CONDAMINE STREET BALGOOLAH NSW 2809
P.O. No. 04097

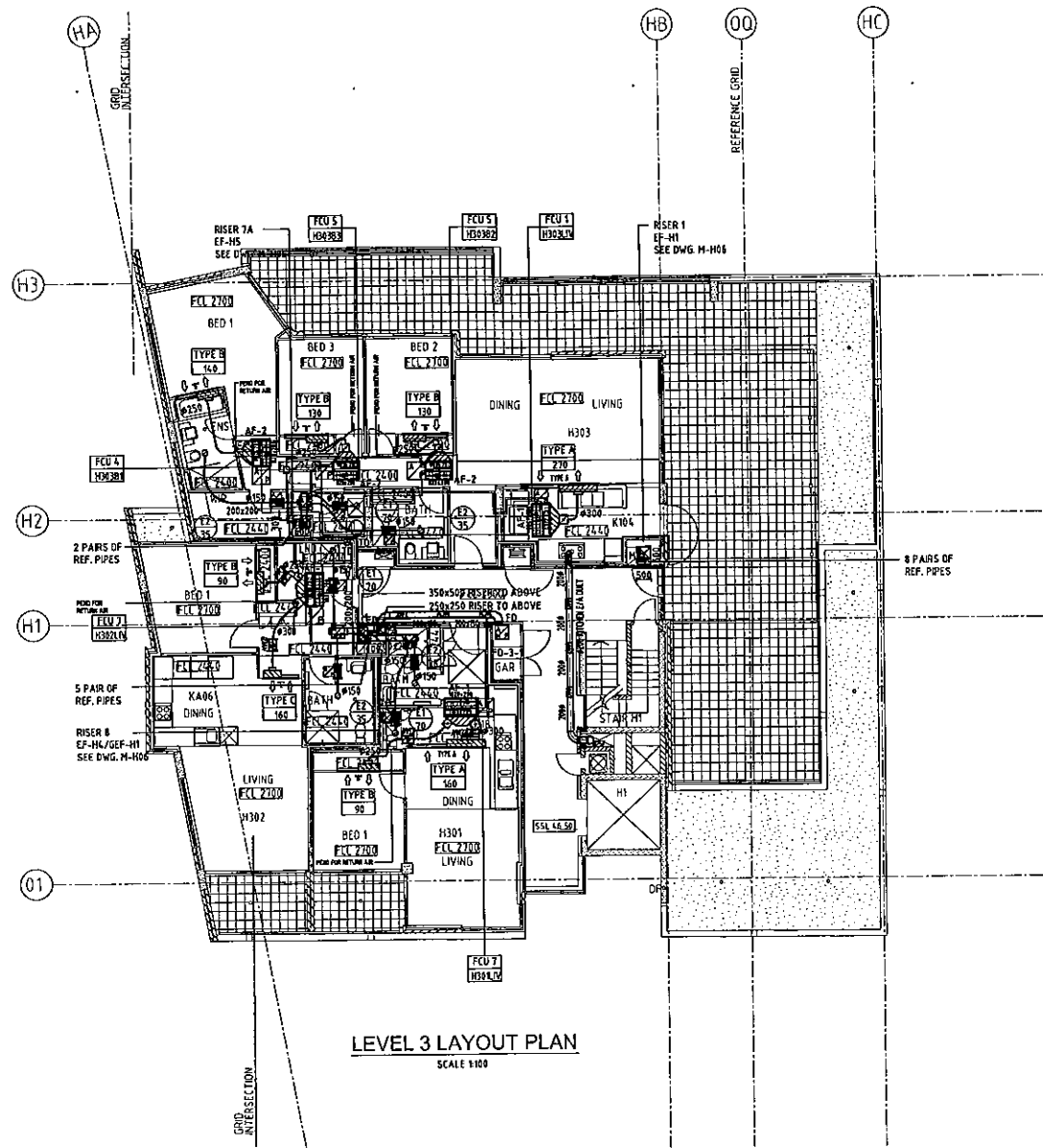
DRAWING TITLE:
MECHANICAL SERVICES BUILDING H LEVEL 2 PLAN & DETAILS

ISSUE
FOR CONSTRUCTION

SCALE:	CHECKED:	DRAWN:
AS SHOWN @ B1	PH	ENRAVEL

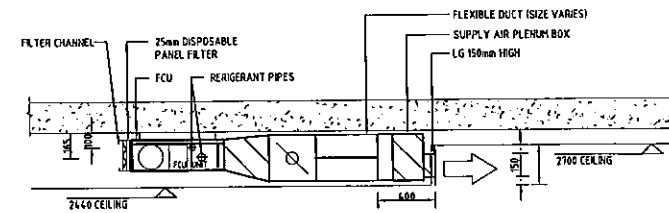
DATE:	DRAWING No.	REV
MAY '08	M - H02	12

SHEET

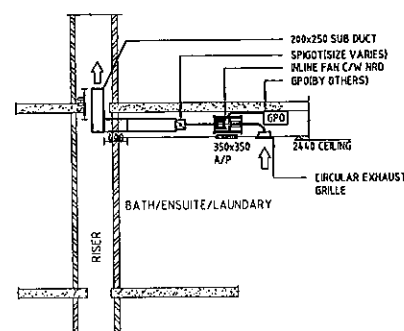


LEVEL 3 LAYOUT PLAN
SCALE 1:100

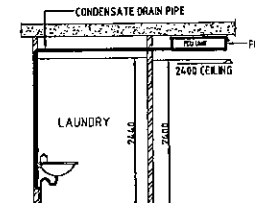
- NOTES:
- GPO BY OTHERS, LOCATED APPRO. 800mm FROM INLINE FAN
 - FAN TO BE ELECTRICALLY INTER LOCKED WITH LIGHT SWITCH OF BATH/ENSUITE/LAUNDRY
 - A/C POWER SUPPLY DISTRIBUTION BOARD IN EACH APARTMENT BY OTHERS MECHANICAL CONTRACTOR WIRE TO CONDENSING UNITS & FAN COIL UNITS
 - FRAME FOR LINER GRILLE OF AIR CONDITIONING TO BE PROVIDED BY OTHERS TO THE SPECIFIED GRILLE TYPE SHOWN IN THE GRILLE SCHEDULE
 - ALL SINGLE BEDROOM SHALL BE INSTALLED WITH ZONE CONTROLLED MOTORIZED DAMPER TO BE INSTALLED IN FLEXIBLE DUCT OF LIVING ROOM & BED ROOM



TYPICAL BULKHEAD GRILLE
SCALE 1:30



TYPICAL DETAIL OF BATH/ENSUITE/LAUNDRY VENTILATION
SCALE 1:50



TYPICAL SECTION OF CONDENSATE DRAIN
SCALE 1:50

DRAWINGS USED

MECHANICAL	ARCHITECTURAL	RE PLAN	STRUCTURAL
AH203/H	AH203/H	AH203/C	-

LEGEND:

- UNINSULATED METAL DUCTWORK
- 50mm INTERNALLY INSULATED DUCTWORK
- 25mm INTERNALLY INSULATED DUCTWORK FOR VENTILATION & 38mm FOR AIR CONDITIONING
- EXTERNALLY INSULATED FLEXIBLE DUCTWORK
- 25mm EXTERNALLY INSULATED DUCTWORK
- R/A RISER
- S/A RISER
- SPIGOT WITH BUTTERFLY DAMPER
- SUPPLY AIR DIFFUSER
- ACCESS PANEL 600x600
- REFRIGERANT PIPING (SUPPLY & RETURN)
- CONDENSATE DRAIN (INSULATED COPPER)
- TUNOUSH
- FILTER
- TYPE A
- LINEAR GRILLE-LENGTH/HEIGHT
- SUPPLY AIR GRILLE WITH PLENUM BOX c/w 38mm INTERNAL INSULATION & VERTICAL DIRECTION BLADES MOUNTED DIRECTLY BEHIND GRILLE
- RETURN AIR PATH c/w 100x100 S/PETAL ANGLE PAINTED PATT BLACK TO OBTAIN CEILING VOID THROUGH GRILLE
- ACOUSTIC FLEXIBLE DUCTWORK
- EXHAUST GRILLE FAN
- AIR CONDITIONING UNIT NO.1
- FIRE DAMPER LEVEL 2 NO.1
- EXHAUST AIR GRILLE 350x150 (FOR BATH/ENSUITE) 700x150 (FOR LAUNDRY)
- MECHANICAL SWITCH BOARD
- NON RETURN DAMPER
- RETURNS AIR
- SUPPLY AIR
- OUTSIDE AIR
- EXHAUST AIR FROM ABOVE
- TO BELOW

NORTH

REVISION	DESCRIPTION	DATE
11	AS INSTALLED	12-06-09
10	AMENDED TO WALL GRILLE SIZES	08-04-09
09	FOR CONSTRUCTION	23-02-09
	PENETRATION FOR R/A ADDED	
08	FOR CONSTRUCTION	08-01-09
07	FOR CONSTRUCTION	11-12-08
06	FOR CO-ORDINATION	29-10-08
05	FOR CO-ORDINATION	16-10-08
04	FOR CO-ORDINATION	01-10-08
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02	FOR CO-ORDINATION	25-08-08
01	FOR CO-ORDINATION	09-07-08

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P.O. No. 04097

DRAWING TITLE:
MECHANICAL SERVICES BUILDING H LEVEL 3 PLAN & DETAILS

ISSUE FOR CONSTRUCTION

SCALE: AS SHOWN @ B1	CHECKED: MH	DRAWN: ENRAVEL
DATE: JUNE '08	DRAWING No. M - H03	REV 11
SHEET		

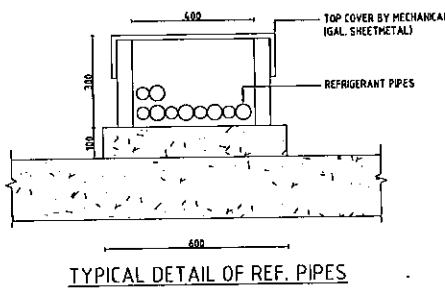
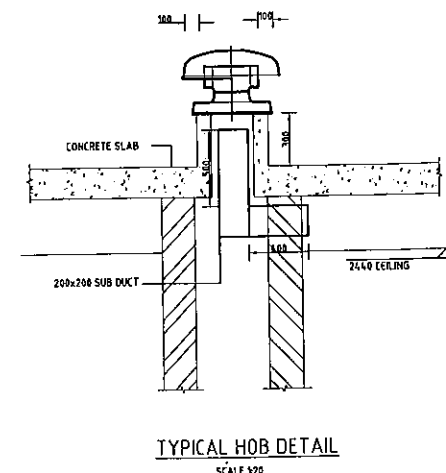
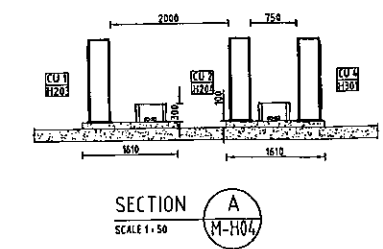
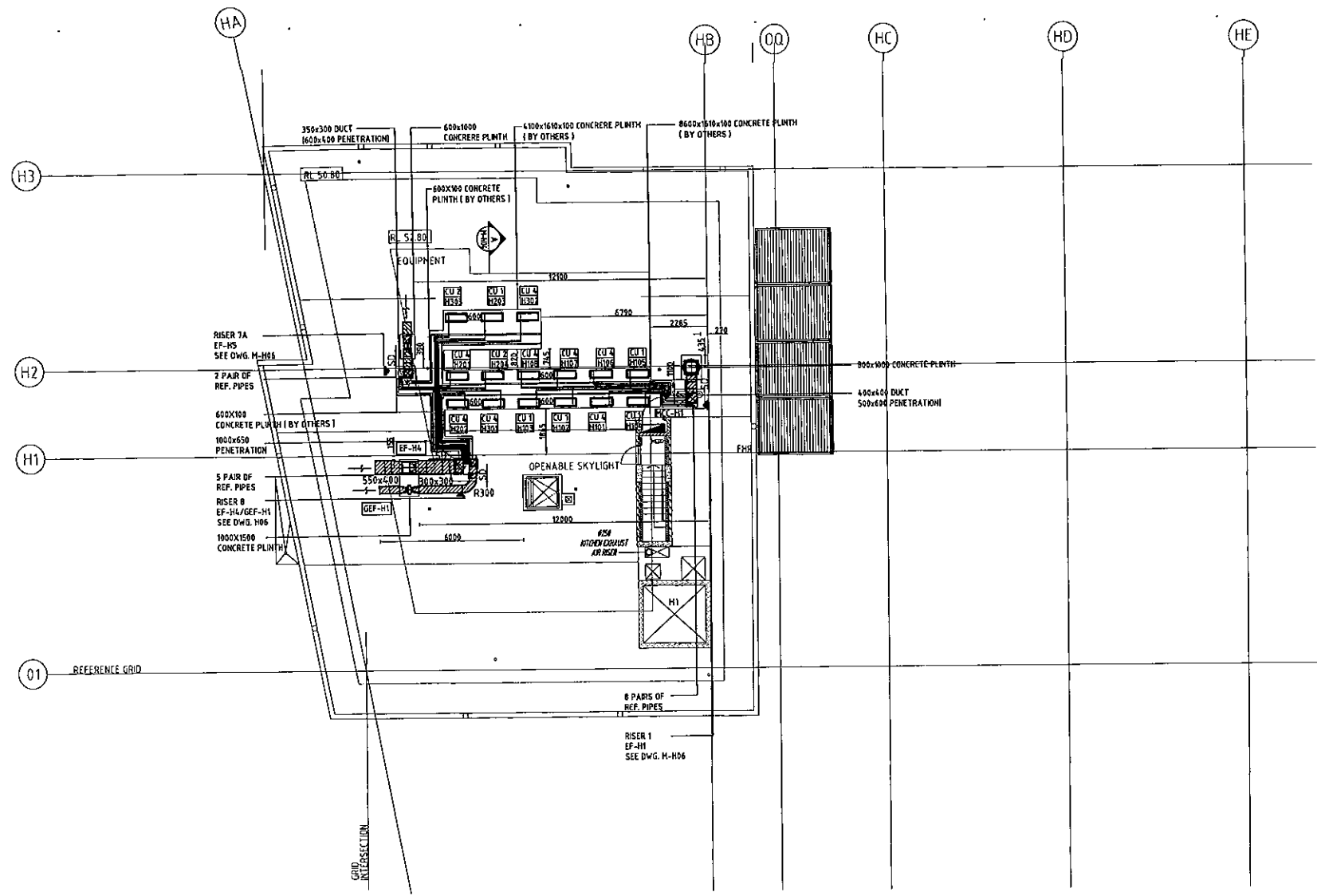
Building/Level	Apartment/Room Number	Outdoor Unit			Indoor Unit			Capacity (kw)		Supply Air l/s
		Quantity	Pipe Size	Type/Model	Quantity	Pipe Size	Type/Model	Cooling	Heating	
H3	H301-Liv/Dn	1	-	AC-H301-CU4	1	-	FCU-H301L1-FCU7	4.3	2.6	250
H3	H301-Bed 1	-	-	-	-	-	-	-	-	-
H3	H302-Liv/Dn	1	-	AC-H302-CU4	1	-	FCU-H302L1-FCU7	4.2	2.4	250
H3	H302-Bed 1	-	-	-	-	-	-	-	-	-
H3	H303-Liv/Dn	1	9.5/15.9	AC-H303-CU2	1	8.5/15.9	FCU-H303L1-FCU1	4.3	2.4	278
H3	H303-Bed 1	-	-	-	-	-	FCU-H303B1-FCU4	2.4	1.8	148
H3	H303-Bed 2	-	-	-	-	-	FCU-H303B2-FCU5	1.7	1.8	138
H3	H303-Bed 3	-	-	-	-	-	FCU-H303B3-FCU5	1.6	1.8	138

FILTER SCHEDULE		
REF	FILTER MEDIA (WxDxT)mm	FILTER HOLDING FRAME ((WxL)x(DxT)xT)
AF-1	1020x200x25	1020x210x25
AF-2	820x200x25	820x210x25

GRILLE SCHEDULE						
REF	NECK SIZE (mm)	AREA SERVED	MANUFACTURE	MODEL	COLOUR	No. Off QTY
TYPE A	2600x150	LIVING/DINING	AIRTAG	BG-12FL	STANDARD WHITE	2
TYPE B	1500x150	BED ROOM	AIRTAG	BG-12FL	STANDARD WHITE	5
TYPE C	1200x150	BED ROOM	AIRTAG	BG-12FL	STANDARD WHITE	1

86-107: 12mm FLANGE, 25mm W/2P, 6 DEGREE DEFLECTION ON BLADES.

EQUIPMENTS SCHEDULE			
REF	MAKE	MODEL	REMARK
FCU1	DAIKIN	FXD033NAVE	INDOOR
FCU2	DAIKIN	FXD036NAVE	INDOOR
FCU3	DAIKIN	FXD046NAVE	INDOOR
FCU4	DAIKIN	FXD033NAVE	INDOOR
FCU5	DAIKIN	FXD025NAVE	INDOOR
FCU6	DAIKIN	F807BY1A	INDOOR
FCU7	DAIKIN	FDX550CVMA	INDOOR
FCU8	DAIKIN	FDX535CVMA	INDOOR
FCU9	DAIKIN	FDX540CVMA	INDOOR
CU1	DAIKIN	RXYH04PV4A	OUTDOOR
CU2	DAIKIN	RXYH03PV4A	OUTDOOR
CU3	DAIKIN	RXYH04PV4A	OUTDOOR
CU4	DAIKIN	RXS710VMA	OUTDOOR
CU5	DAIKIN	30XS80VMA	OUTDOOR



FAN SCHEDULE												
Apartment Served	Fan Designate	Location Riser	FanTech Type & Model	Airflow (l/s)	Static (Pa)	Diameter (mm)	Motor (kw)	Power Supply	RPS	Speed Control	Noise level dBA @ 3m	MCC No.
APT H101, H102, H109, H204	EF-H1	R1	CE354V	450	150	350	0.28	240V/3ph	23	NO	51	MCC-H1
APT H04	EF-H2	R7	MY382E	500	120	300	0.18	240V/3ph	41	NO	55	MCC-H1
APT H03, H105, H106, H107	EF-H3	NEW	CE354V	450	120	450	0.15	240V/3ph	11	NO	47	MCC-H1
APT H201, H301, H202, H302	EF-H4	R8	PCE354D	420	120	350	0.25	240V/3ph	22	NO	51	MCC-H1
APT H203, H303	EF-H5	R7A	MT252	280	100	250	0.11	240V/3ph	62	NO	51	MCC-H1
GARBAGE	GEF-H1	R8	VL-150L	150	150	150	0.11	240V/3ph	65	NO	50	MCC-H1

- DRAWINGS USED**
- | MECHANICAL | ARCHITECTURAL | RC PLAN | STRUCTURAL |
|------------|---------------|---------|------------|
| A B 2007/7 | | | |
- LEGEND:**
- UNINSULATED METAL DUCTWORK
 - 50mm INTERNALLY INSULATED DUCTWORK
 - 25mm INTERNALLY INSULATED DUCTWORK FOR VENTILATION & 38mm FOR AIR CONDITIONING
 - EXTERNALLY INSULATED FIRE RATED DUCTWORK
 - 25mm EXTERNALLY INSULATED DUCTWORK
 - R/A RISER
 - S/A RISER
 - SPOT WITH BUTTERFLY DAMPER
 - SUPPLY AIR DIFFUSER
 - ACCESS PANEL, 600x600
 - REFRIGERANT PIPING (SUPPLY & RETURN)
 - CONDENSATE DRAIN (INSULATED COPPER)
 - TURNISH FILTER
 - TYPE A LINEAR GRILLE - LENGTH x HEIGHT
 - SUPPLY AIR GRILLE WITH PLENUM BOX c/w 38mm INTERNAL INSULATION & VERTICAL DIRECTION BLADES MOUNTED DIRECTLY BEHIND GRILLE
 - RETURN AIR PATH c/w 100x100 S/METAL ANGLE PAINTED MATT BLACK TO OBSCURE CEILING VOID THROUGH GRILLE
 - ACOUSTIC FLEXIBLE DUCTWORK
 - EXHAUST GRILLE FAN
 - AIR CONDITIONING UNIT 1D NO.1
 - FIRE DAMPER LEVEL 2 NO.1
 - EXHAUST AIR GRILLE 350x350 FOR BATH/ENSUITE
 - EXHAUST AIR GRILLE 750x750 FOR LAUNDRY
 - MECHANICAL SWITCH BOARD
 - HOOD RETURN DAMPER
 - RETURN AIR
 - SUPPLY AIR
 - OUTSIDE AIR
 - EXHAUST AIR FROM ABOVE TO BELOW

REVISION	DESCRIPTION	DATE
10	AS INSTALLED	12-06-09
09	FOR CONSTRUCTION	23-02-09
08	FOR CONSTRUCTION	08-01-09
07	FOR CONSTRUCTION	11-12-08
06	FOR CO-ORDINATION	29-10-08
05	FOR CO-ORDINATION	16-10-08
04	FOR CO-ORDINATION	01-10-08
03	FOR CO-ORDINATION	17-09-08
02	FOR CO-ORDINATION	25-08-08
01	FOR CO-ORDINATION	03-07-08

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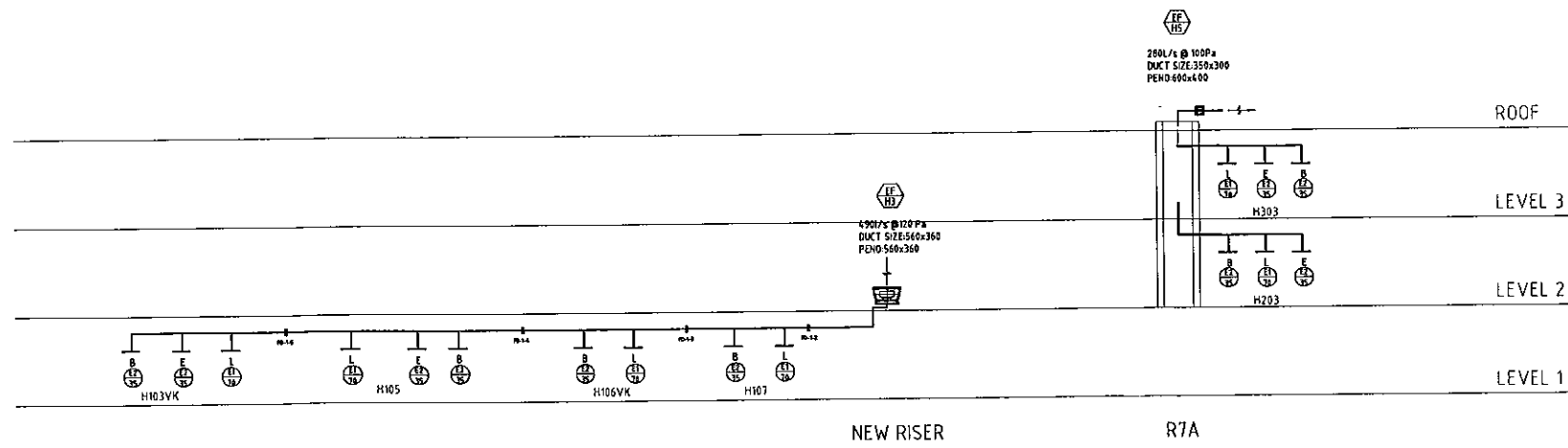
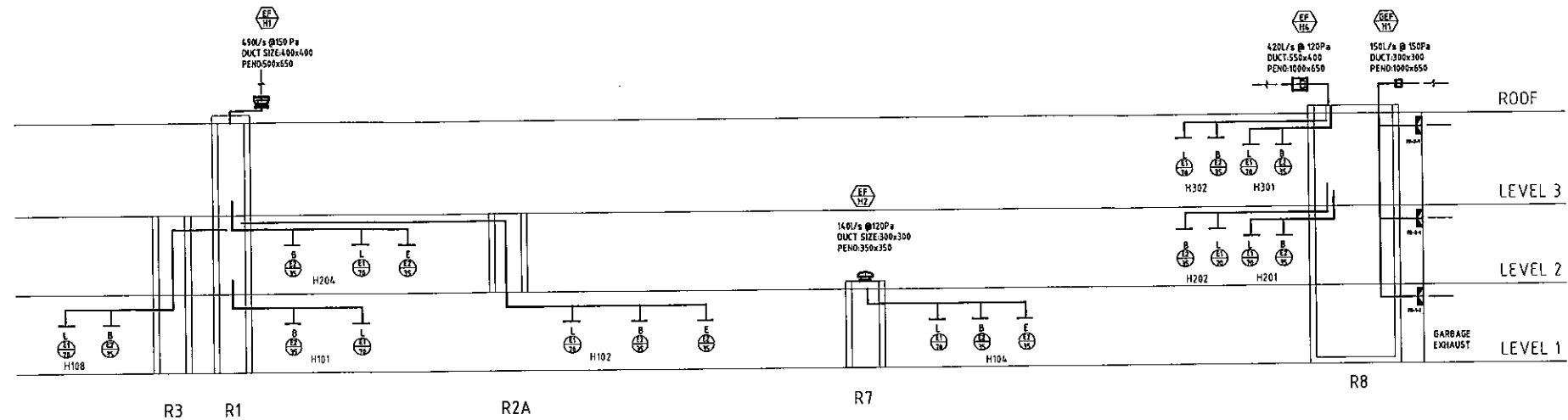
PROJECT
the village
130-215 CONDAVINE STREET BALDWIN NSW 2009
PH NO. 04097

DRAWING TITLE:
MECHANICAL SERVICES
BUILDING H
ROOF PLANS & DETAILS

ISSUE
FOR CONSTRUCTION

SCALE: AS SHOWN @ B1	CHECKED HN	DRAWN ENRAVEL
DATE: JUNE '08	DRAWING No. M - H04	REV 10
SHEET		

DRAWINGS USED			
MECHANICAL	ARCHITECTURAL	RC PLAN	STRUCTURAL
-	-	-	-



REVISION	DESCRIPTION	DATE
09	AS INSTALLED	12-06-09
08	FOR CONSTRUCTION	23-02-09
07	FOR CONSTRUCTION	08-01-09
06	FOR CONSTRUCTION	11-12-08
05	FOR CO-ORDINATION	29-10-08
04	FOR CO-ORDINATION	16-10-08
03	FOR CO-ORDINATION	01-10-08
02	FOR CO-ORDINATION	18-09-08
01	FOR CO-ORDINATION	25-08-08

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CLIENT

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 STOCKLAND DEVELOPMENT PTY. LIMITED

BUILDER

Abigroup
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MECHANICAL CONTRACTOR

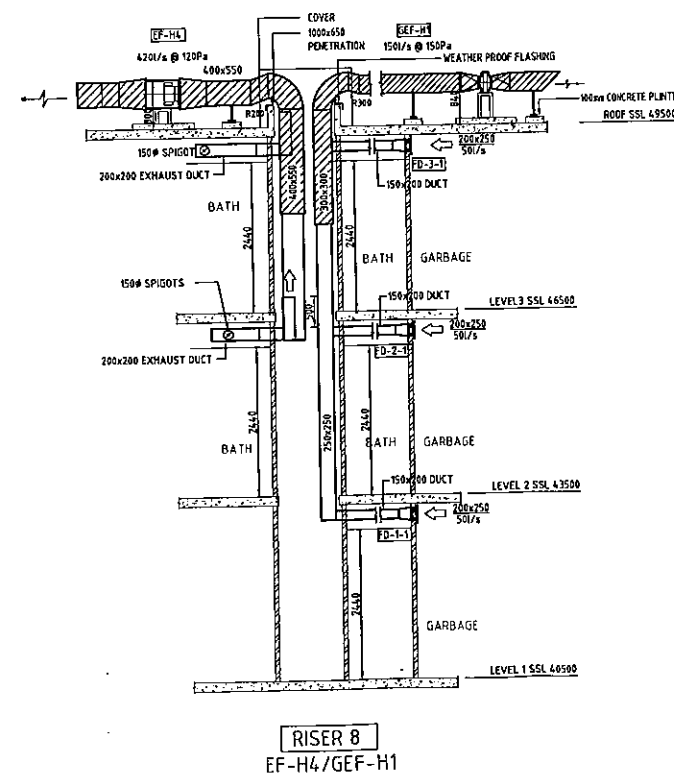
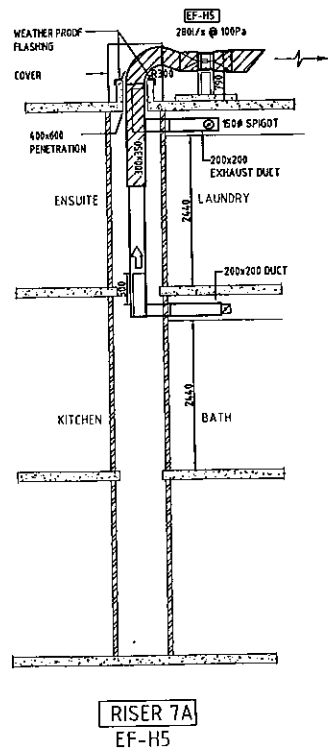
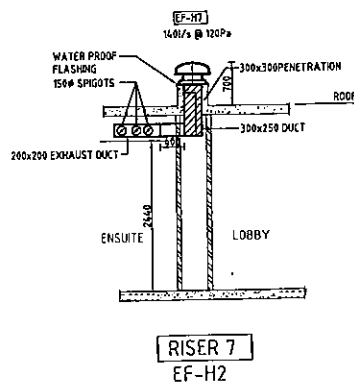
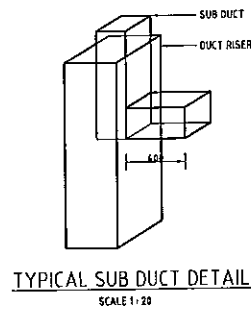
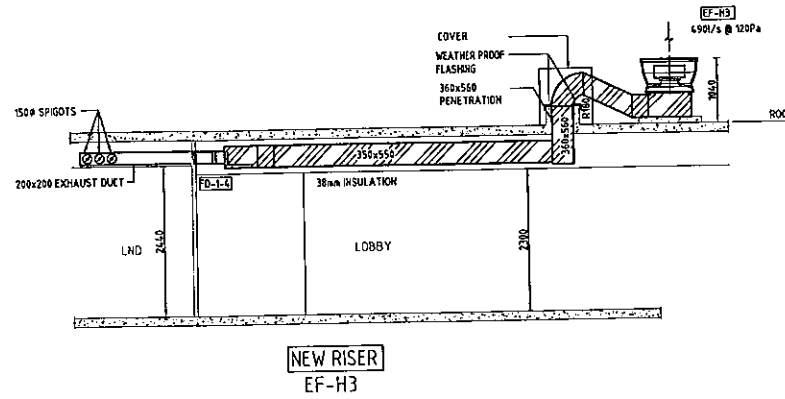
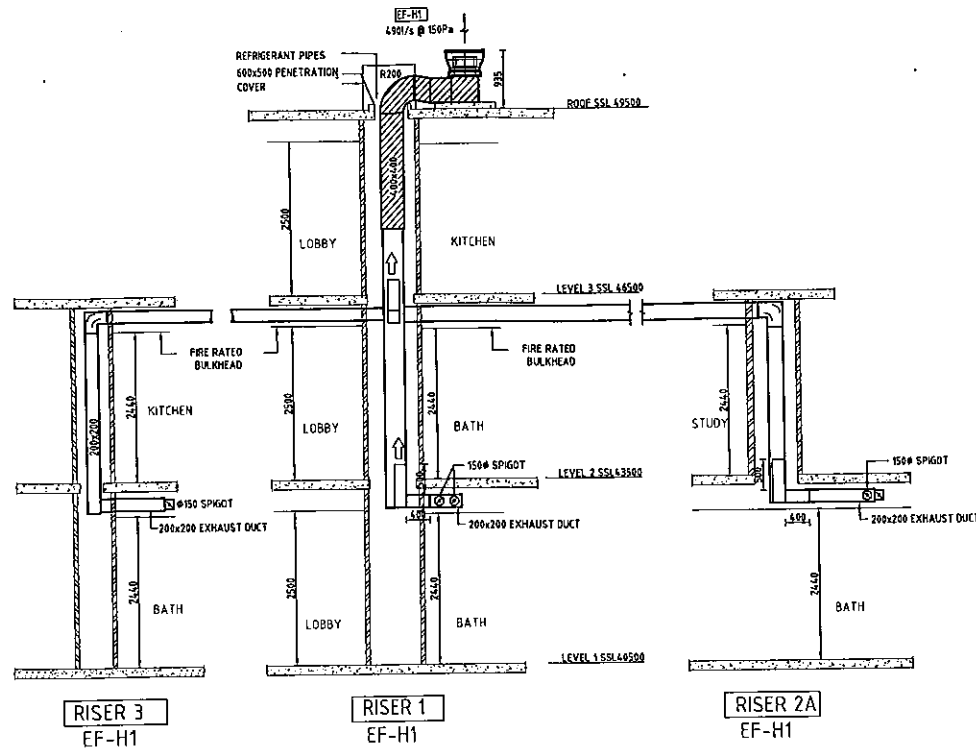
zenithair
 AIR CONDITIONING VENTILATION ENGINEERING PROJECT MANAGEMENT
 12/1200 WILSON ROAD CHIPPENDALE NSW 2008
 PH: 61 2 9311 8200 FAX: 61 2 9311 8200

PROJECT

the village
 197-215 CONNAMORE STREET BALGOONAN NSW 2009
 Ph: No. 04997

DRAWING TITLE:
 MECHANICAL SERVICES
 AIR SCHEMATIC
 BUILDING (H)

ISSUE		
SCALE	CHECKED	DRAWN
AS SHOWN @ B1	MN	ENRAVEL
DATE: JUNE '09	DRAWING No. M-H05	REV 09
SHEET		



DRAWINGS USED			
MECHANICAL	ARCHITECTURAL	RC PLAN	STRUCTURAL

LEGEND:

- UNINSULATED METAL DUCTWORK
- 50mm INTERNALLY INSULATED DUCTWORK
- 25mm INTERNALLY INSULATED DUCTWORK FOR VENTILATION & 38mm FOR AIR CONDITIONING
- EXTERNALLY INSULATED FIRE RATED DUCTWORK
- 25mm EXTERNALLY INSULATED DUCTWORK
- R/A RISER
- S/A RISER
- SPIGOT WITH BUTTERFLY DAMPER
- SUPPLY AIR DIFFUSER
- ACCESS PANEL 600x600
- REFRIGERANT PIPES (SUPPLY & RETURN)
- CONDENSATE DRAIN (INSULATED COPPER)
- TUNDISH
- FILTER
- LINEAR GRILLE - LENGTHWISE MOUNT
- SUPPLY AIR GRILLE WITH PLENUM BOX c/w 38mm INTERNAL INSULATION & VERTICAL DIRECTION BLADES
- RETURN AIR PATH c/w 100x100 S/METAL ANGLE PAINTED MATT BLACK TO ENSURE CEILING VOID THROUGH GRILLE
- ACOUSTIC FLEXIBLE DUCTWORK
- EXHAUST GRILLE FAN
- AIR CONDITIONING UNIT (L.D. NO. 1)
- FIRE DAMPER LEVEL 2 NO. 1
- EXHAUST AIR GRILLE 350/s - #150 (FOR BATH/ENSUITE) 700/s - #150 (FOR LAUNDRY)
- MECHANICAL SWITCH BOARD
- NON RETURN DAMPER
- R/A RETURN AIR
- S/A SUPPLY AIR
- O/A OUTSIDE AIR
- E/A EXHAUST AIR
- F/A FROM ABOVE
- T/B TO BELOW

NO	AS INSTALLED	DATE
09	FOR CONSTRUCTION	23-02-09
08	FOR CONSTRUCTION	15-02-09
07	FOR CONSTRUCTION	08-01-09
06	FOR CONSTRUCTION	11-12-08
05	FOR CO-ORDINATION	23-10-08
04	FOR CO-ORDINATION	16-10-08
03	FOR CO-ORDINATION	03-10-08
02	FOR CO-ORDINATION	18-05-08
01	FOR CO-ORDINATION	25-08-08

REVISION	DESCRIPTION	DATE

ARCHITECT
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zenithair
AIR CONDITIONING VENTILATION ENGINEERING PROJECT MANAGEMENT
11 THE BOWEN ROAD NEWCASTLE NSW 2300
PH: 02 8338 8800

PROJECT
the village
197-215 CONDOMINIUM STREET BALDWIN NSW 2003
Proj No. 04097

DRAWING TITLE
**MECHANICAL SERVICES
BUILDING H
RISER DETAILS**

ISSUE
FOR CONSTRUCTION

SCALE:	CHECKED:	DRAWN:
1:50 @ B1	MH	ENRAVEL

DATE:	DRAWING No.	REV
MAY '08	M - H06	10

SHEET