



12 February 2010
DT: 5040

Mirvac
Level 26
60 Margaret Street
SYDNEY NSW 2000

Attention: Mr Adrian Checchin

Dear Sir

**BIG W DC AND DICK SMITH DC
HOXTON PARK NSW
EXTERIOR LIGHTING AND SIGNAGE**

We refer to the above project, and as required for the Part 3A submission for the site, we provide the following information detailing what the design will be based on for the external lighting to the Big W and Dick Smith Electronics sites and the proposed illuminated signage, based on the current sketch designs and proposed signage locations.

1. The standards that will be used for the exterior lighting designs are:-

AS/NZS 1158.3.1:2005 Lighting for roads and public spaces Part3.1: Pedestrian area (Category P) lighting – Performance and design requirements

AS 4282:1997 Control of the obtrusive effects of outdoor lighting

2. The design of the lighting and resultant calculated lighting levels will be determined using the lighting design software program Lumen Micro Designer

3. The external lighting will be broken into four main areas:

- a) Truck dock areas (pedestrians and trucks mix)
- b) Truck only movement areas (no pedestrians)
- c) Staff/visitor carpark bay areas (pedestrians and vehicles mix)
- d) Car entry/exit areas (no pedestrians)

4. The relevant applicable lighting subcategory for each of the above four areas from the Australian Standard AS/NZS 1158.3.1:2005 would be:

- a) Lighting subcategory P6
- b) Lighting subcategory P11c
- c) Lighting subcategory P11b
- d) Lighting subcategory P11c

**E. Shelmerdine & Partners
Engineering Pty Ltd**
ABN 40 003 331 879

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Directors

P.W. Matthews
R.W. Butt
B. Kennedy
D.A. Taylor
K.F. Murray

Associates

D.J. Powell
M.R. Lindley

5. The relevant recommended lighting levels from the Australian Standard AS/NZS 1158.3.1:2005 for the four areas is:
 - a) Average horizontal illuminance – 21 lux
 - b) Average horizontal illuminance – 3.5 lux
 - c) Average horizontal illuminance – 7 lux
 - d) Average horizontal illuminance – 3.5 lux
6. The Australian Standard AS 4282:1997 recommends the maximum illuminance in the vertical plane at any nearby residential properties from a commercial area as:-
 - a) Pre-curfew hours – 25 lux
 - b) Curfewed hours – 4 lux

As the residential properties in the area adjacent to the site are a distance away from the proposed buildings, the lighting level requirement for the obtrusive effects of outdoor lighting listed above will be complied to.

7. The light fittings proposed for the site are generally metal halide pole mounted or building mounted luminaires complete with symmetrical or asymmetric beams and designed to minimise glare to the trucks and vehicles manoeuvring around the site. Details of the proposed luminaries to be used are attached with this report.
8. Building signage is proposed for both the Big W building and the Dick Smith Building. The illuminated signs proposed are illuminated by LED light sources and the estimated brightness of the sign face measured in candela per metre squared is 150-300 cd/m². This level is well below the 2,500 cd level allowable under AS 4287:1997.

Having regard to the proposed external lighting, including signage and relevant Australian Standards to be complied with, Shelmerdines are of the opinion that the proposed development will not generate any adverse light spill exceeding the limits allowable under the relevant standards.

Please find attached the following documents to be referenced with the above information:-

- Sketch design of Big W external lighting (Prepared by Shelmerdines Consulting Engineers)
- Sketch design of Dick Smith external lighting (Prepared by Beca Pty Ltd)
- Sketch layout of proposed illuminated signage
- Catalogue information and photometric data details of the proposed external luminaires

Please do not hesitate to contact the undersigned should you require any further information.


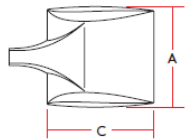
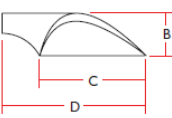



Yours faithfully
SHELMERDINES



David Taylor
DIRECTOR

Project Name	Big W-Distribution Centre-Sydney
Project Number	5040
Luminaire Type	Type "T" 250 Watt Wall Mounted Luminaire
Luminaire Name	Aviator Medium Type III - Wall Mount
Description	Metal Halide Wall Mounted Full Cutoff Medium Area Light
Fitting Size	See Below
Manufacturer	RUUD
Catalogue Number	See Below
Notes	Complete with Area Cutoff Reflector Cat No. AVH30625-MBK

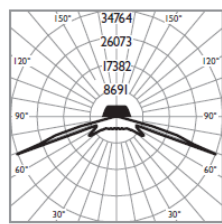

Pictures & Details

AV	H	4	0	6	40 -	2	P	BZ
Product Family	Lamp Orientation	Optical Systems	Mounting Options	Lamps/ Ballasts	Wattages	Ballast Voltages	Options (Factory Installed)	
AV = Aviator	H = Horizontal	3 = Parking/Roadway (Type III) 4 = Forward Throw (Type IV)	0 = Integrated Arm	4 = Probe Start Metal Halide 5 = High Pressure Sodium 6 = Pulse Start Metal Halide	17 = 175 Watt PSMH/PMH 25 = 250 Watt PSMH/PMH-HP 32 = 320 Watt PSMH 40 = 400 Watt PSMH/PMH-HP <small>(Other wattages available - consult factory)</small>	M = Multi-tap (120/208/240/277V) D = Dual volt (120/277V) T = Tri-volt (120/277/347V) 1 = 120 Volt 2 = 277 Volt 27 = 277 Volt 3 = 208 Volt 4 = 240 Volt 5 = 480 Volt 6 = 347 Volt S0 = 220-240V (50Hz) S2 = 220V (50Hz) S3 = 230V (50Hz) S4 = 240V (50Hz)	F = Fuse P = Photocell -SP = External Photocell (480V) Q = Quartz Standby <small>Note: The F and P options require the selection of a single voltage ballast</small>	
 <p>EXTENDED UPSWEEP ARM</p>		<p>A = 18.5" (470 mm) B = 7.9" (201 mm) C = 19.6" (498 mm) D = 26.5" (674 mm)</p> 				<p>Color Options</p> <p>BZ = Bronze BK = Black WH = White PB = Platinum Bronze SV = Silver</p>		 <p>HINGED WALL MOUNT BOX</p>
								 <p>INTEGRATED ARM</p>
								 <p>EXTENDED ARM</p>

MEDIUM AVIATOR TYPE III HORIZONTAL

LEFT: Candlepower distribution curve of 400W PSMH.

RIGHT: Isofootcandle plot of 400W PSMH at 30' (9.1 m) mounting height and 0° vertical tilt. (Plan view)

Extended Information



SBL-AV1
BACKLIGHT SHIELD



AVRP-1
ROUND POLE ADAPTOR

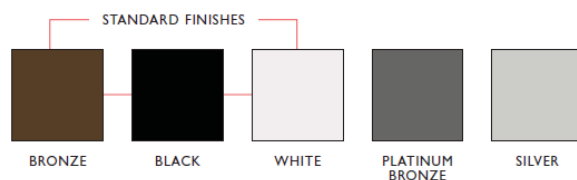


PT-A1
POST TOP
TENON ADAPTOR



WM-5
EXTENDED ARM

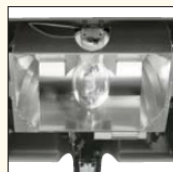
The Aviator's unique Colorfast DeltaGuard™ paint and finish system delivers a wide range of color options for your consideration and is covered by a full 7-year warranty.



QUICK-CONNECT BALLAST TRAY
One-piece, field replaceable electrical ballast tray allows for quick connect and disconnect, easing both installation and maintenance.



EASY ACCESS HINGE AND LENS
The luminaire door is attached to the housing with a patented internal hinge assembly allowing for easy removal of the doorframe, if required. A high temperature silicone gasket seals the optical system from dirt and debris (IP65).




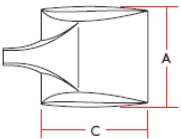
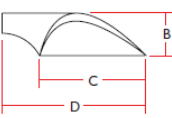
PREMIUM OPTICS
Horizontal lamp with premium reflector materials in a segmented reflector design. This combination delivers excellent streetside efficiency, superior backlight control and greatly improved uniformity demanded by lighting specifiers.



TOOL-LESS ENTRY
Proprietary door-frame latching system allows easy access and servicing of lamp for normal maintenance.

Project Name	Big W-Distribution Centre-Sydney
Project Number	5040
Luminaire Type	Type "U" 320 Watt Wall/Awning Mounted Luminaire
Luminaire Name	Aviator Medium Type IV - Wall Mount
Description	Metal Halide Wall Mounted Full Cutoff Medium Area Light
Fitting Size	See Below
Manufacturer	RUUD
Catalogue Number	See Below
Notes	Complete with Forward Throw Reflector Cat No. AVH40632-MBK


Pictures & Details

AV	H	4	0	6	40 -	2	P	BZ
Product Family	Lamp Orientation	Optical Systems	Mounting Options	Lamps/Ballasts	Wattages	Ballast Voltages	Options (Factory Installed)	
AV = Aviator	H = Horizontal	3 = Parking/Roadway (Type III) 4 = Forward Throw (Type IV)	0 = Integrated Arm	4 = Probe Start Metal Halide 5 = High Pressure Sodium 6 = Pulse Start Metal Halide	17 = 175 Watt PSMH/PMH 25 = 250 Watt PSMH/PMH-HPS 32 = 320 Watt PSMH 40 = 400 Watt PSMH/PMH-HPS (Other wattages available - consult factory)	M = Multi-tap (120/208/240/277V) D = Dual volt (120/277V) T = Tri-volt (120/277/347V) 1 = 120 Volt 2 = 277 Volt 27 = 277 Volt 3 = 208 Volt 4 = 240 Volt 5 = 480 Volt 6 = 347 Volt S0 = 220-240V (50Hz) S2 = 220V (50Hz) S3 = 230V (50Hz) S4 = 240V (50Hz)	F = Fuse P = Photocell -SP = External Photocell (480V) Q = Quartz Standby Note: The F and P options require the selection of a single voltage ballast	
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EXTENDED UPSWEEP ARM								HINGED WALL MOUNT BOX
								INTEGRATED ARM
								EXTENDED ARM

MEDIUM AVIATOR TYPE IV HORIZONTAL

LEFT: Candlepower distribution curve of 400W PSMH without backlight shield.

RIGHT: Isofootcandle plot of 400W PSMH at 30' (9.1 m) mounting height, 0° vertical tilt, without backlight shield removed. (Plan view)



Extended Information



SBL-AV1
BACKLIGHT SHIELD



AVRP-1
ROUND POLE ADAPTOR

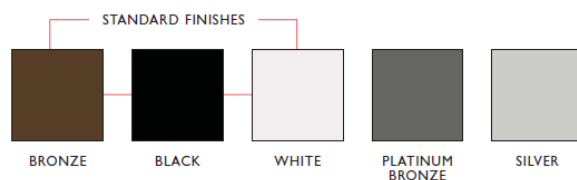


PT-A1
POST TOP
TENON ADAPTOR



WM-5
EXTENDED ARM

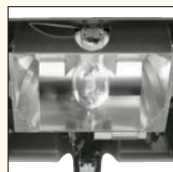
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One-piece, field replaceable electrical ballast tray allows for quick connect and disconnect, easing both installation and maintenance.



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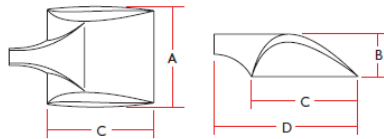


Shelmerdines

Consulting Engineers

Project Name	Big W-Distribution Centre-Sydney
Project Number	5040
Luminaire Type	Type "W" 400 Watt Wall Mounted Luminaire
Luminaire Name	Aviator Medium Type IV - Wall Mount
Description	Metal Halide Wall Mounted Full Cutoff Medium Area Light
Fitting Size	See Below
Manufacturer	RUUD
Catalogue Number	See Below
Notes	Complete with Forward Throw Reflector

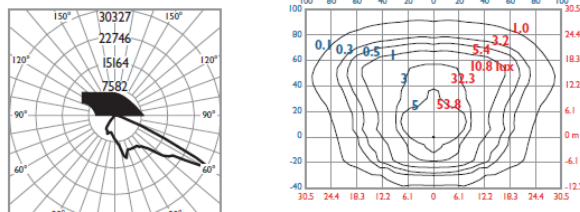
Pictures & Details


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Color Options																				
BZ	Bronze																			
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SV	Silver																			

MEDIUM AVIATOR TYPE IV HORIZONTAL


LEFT: Candlepower distribution curve of 400W PSMH without backlight shield.

RIGHT: Isofootcandle plot of 400W PSMH at 30' (9.1 m) mounting height, 0° vertical tilt, without backlight shield removed. (Plan view)






HINGED WALL MOUNT BOX



INTEGRATED ARM



EXTENDED ARM

Extended Information



SBL-AV1
BACKLIGHT SHIELD



AVRP-1
ROUND POLE ADAPTOR

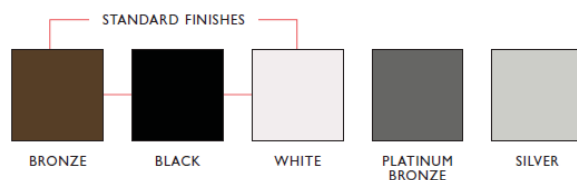


PT-A1
POST TOP
TENON ADAPTOR



WM-5
EXTENDED ARM

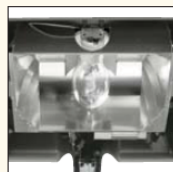
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EASY ACCESS HINGE AND LENS
The luminaire door is attached to the housing with a patented internal hinge assembly allowing for easy removal of the doorframe, if required. A high temperature silicone gasket seals the optical system from dirt and debris (IP65).



PREMIUM OPTICS
Horizontal lamp with premium reflector materials in a segmented reflector design. This combination delivers excellent streetside efficiency, superior backlight control and greatly improved uniformity demanded by lighting specifiers.



TOOL-LESS ENTRY
Proprietary door-frame latching system allows easy access and servicing of lamp for normal maintenance.


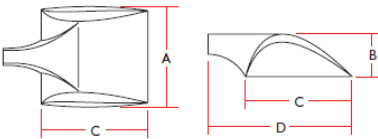

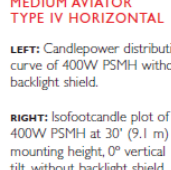

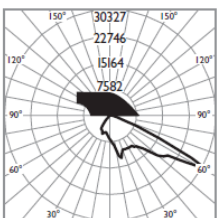
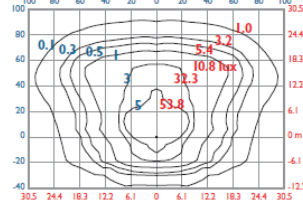



Shelmerdines

Consulting Engineers

Project Name	Big W-Distribution Centre-Sydney
Project Number	5040
Luminaire Type	Type "Y" 250 Watt Wall Mounted Luminaire
Luminaire Name	Aviator Medium Type IV - Pole Mount
Description	Metal Halide Pole Mounted Full Cutoff Medium Area Light
Fitting Size	See Below
Manufacturer	RUUD
Catalogue Number	See Below
Notes	Complete with Forward Throw Reflector

Pictures & Details

AV	H	4	0	6	40 -	2	P	BZ
Product Family	Lamp Orientation	Optical Systems	Mounting Options	Lamps/ Ballasts	Wattages	Ballast Voltages	Options (Factory Installed)	
AV = Aviator	H = Horizontal	3 = Parking/Roadway (Type III) 4 = Forward Throw (Type IV)	0 = Integrated Arm	4 = Probe Start Metal Halide 5 = High Pressure Sodium 6 = Pulse Start Metal Halide	17 = 175 Watt PSMH/PMH 25 = 250 Watt PSMH/PMH-HPS 32 = 320 Watt PSMH 40 = 400 Watt PSMH/PMH-HPS (Other wattages available - consult factory)	M = Multi-tap (120/208/240/277V) D = Dual volt (120/277V) T = Tri-volt (120/277/347V) 1 = 120 Volt 2 = 277 Volt 27 = 277 Volt 3 = 208 Volt 4 = 240 Volt 5 = 480 Volt 6 = 347 Volt 50 = 220-240V (50Hz) 52 = 220V (50Hz) 53 = 230V (50Hz) 54 = 240V (50Hz)	F = Fuse P = Photocell -SP = External Photocell (480V) Q = Quartz Standby Note: The F and P options require the selection of a single voltage ballast	
		A = 18.5" (470 mm) B = 7.9" (201 mm) C = 19.6" (498 mm) D = 26.5" (674 mm)				Color Options BZ = Bronze BK = Black WH = White PB = Platinum Bronze SV = Silver		
EXTENDED UPSWEEP ARM								HINGED WALL MOUNT BOX
								
MEDIUM AVIATOR TYPE IV HORIZONTAL								INTEGRATED ARM
LEFT: Candlepower distribution curve of 400W PSMH without backlight shield.								
								EXTENDED ARM



Shelmerdines Consulting Engineers

Extended Information



SBL-AVI
BACKLIGHT SHIELD



AVRP-I
ROUND POLE ADAPTOR



PT-AI
POST TOP
TENON ADAPTOR



WM-5
EXTENDED ARM



The Aviator's unique Colorfast DeltaGuard™ paint and finish system delivers a wide range of color options for your consideration and is covered by a full 7-year warranty.

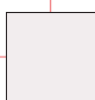
STANDARD FINISHES



BRONZE



BLACK



WHITE



PLATINUM
BRONZE



SILVER

DIE-CAST, SINGLE-PIECE HOUSING

The low-copper aluminum housing with integrated mounting arm helps the luminaire resist corrosion.



7-YEAR FINISH WARRANTY

Exclusive Colorfast DeltaGuard™ finish provides extra corrosion protection, with an electrically deposited epoxy primer and ultra-durable polyester topcoat.

40° C PERFORMANCE

All components are mounted to maximize heat transfer and maintain the coolest possible ballast operating temperatures, allowing for a 40° C ambient operation rating. UL, C-UL and CE listed for wet locations. Other approvals and certifications are also available; consult your local affiliate.



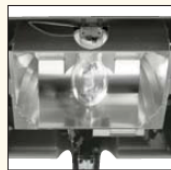
QUICK-CONNECT BALLAST TRAY

One-piece, field replaceable electrical ballast tray allows for quick connect and disconnect, easing both installation and maintenance.



EASY ACCESS HINGE AND LENS

The luminaire door is attached to the housing with a patented internal hinge assembly allowing for easy removal of the doorframe, if required. A high temperature silicone gasket seals the optical system from dirt and debris (IP65).



PREMIUM OPTICS

Horizontal lamp with premium reflector materials in a segmented reflector design. This combination delivers excellent streetside efficiency, superior backlight control and greatly improved uniformity demanded by lighting specifiers.



TOOL-LESS ENTRY

Proprietary door-frame latching system allows easy access and servicing of lamp for normal maintenance.



Shelmerdines Consulting Engineers

Project Name	Big W-Distribution Centre-Sydney
Project Number	5040
Luminaire Type	Type "Z" 1000 Watt Pole Mounted Luminaire
Luminaire Name	Aviator Large Type III - Pole Mount
Description	Metal Halide Pole Mounted Full Cutoff Large Area Light
Fitting Size	See Below
Manufacturer	RUUD
Catalogue Number	See Below
Notes	Complete with Forward Throw Reflector

Pictures & Details

AV	V	4	R	6	99 -	M	P	BK
Product Family	Lamp Orientation	Optical Systems	Mounting Options	Lamps/Ballasts	Wattages	Ballast Voltages	Options (Factory Installed)	
AV = Aviator	V = Vertical	3 = Parking/Roadway (Type III) 4 = Forward Throw (Type IV) 5 = Quadrate (Type V)	0 = Side Arm Mount with optic in standard configuration L = Side Arm Mount with optic rotated properly to install fixture rotated 90° to the left of standard configuration R = Side Arm Mount with optic rotated properly to install fixture rotated 90° to the right of standard configuration F = Round Tube Center Tenon (Tenon Fitter for 2-3/8" up to 3" O.D.) H = Round Tube Center (Direct Fitter for 4" Square Pole) I = Round Tube Center (Direct Fitter for 5" Square Pole) J = Round Tube Center (Direct Fitter for 6" Square Pole)	4 = Probe Start Metal Halide 5 = High Pressure Sodium 6 = Pulse Start Metal Halide	75 = 750 Watt PSMH 99 = 1000 Watt PSMH/MH/HPS 925 = 250 Watt PSMH (Large Aviator) 932 = 320 Watt PSMH (Large Aviator) 935 = 350 Watt PSMH (Large Aviator) 940 = 400 Watt PSMH (Large Aviator) <i>(Other wattages available - consult factory)</i>	M = Multi-tap (120/208/240/277V) D = Dual volt (120/277V) T = Tri-volt (120/277/347V) 1 = 120 Volt 2 = 277 Volt 27 = 277 Volt 3 = 208 Volt 4 = 240 Volt 5 = 480 Volt 6 = 347 Volt 50 = 220-240V (50-Hz) 52 = 220V (50-Hz) 53 = 230V (50-Hz) 54 = 240V (50-Hz)	F = Fuse P = Photocell -SP = External Photocell (480V) Q = Quartz Standby <i>Note: The F and P options require the selection of a single voltage ballast</i>	
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SIDE ARM

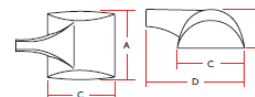
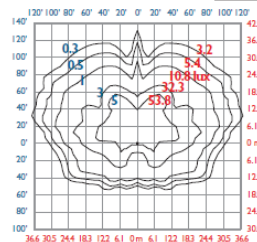
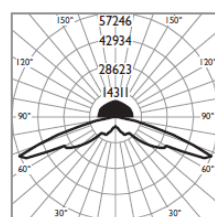


POST TOP MOUNT

LARGE AVIATOR TYPE III VERTICAL

LEFT: Candlepower distribution curve of 1000W MH Type III.

RIGHT: Isofootcandle plot of 1000W MH Type III at 32' (9.7 m) AFG [30' (9.1 m) pole plus 2' (0.6 m) base height].



A = 25" (635 mm)
B = 14.5" (368 mm)
C = 25.0" (635 mm)
D = 36.7" (931 mm)



Shelmerdines Consulting Engineers

Extended Information

DIE-CAST, SINGLE-PIECE HOUSING

Seamless die-cast aluminum optic housing provides years of rugged, maintenance-free service. The ballast compartments are engineered to provide very cool ballast operation. In the side mount arm configuration, the ballast and other electrical components are located within the side arm. In the post-top mount configuration, the ballast is within the post-top hub.



AVR-P-1
ROUND POLE ADAPTOR

7-YEAR FINISH WARRANTY

Exclusive Colorfast DeltaGuard™ finish provides extra corrosion protection, with an electrically deposited epoxy primer and ultra-durable polyester topcoat.



EASY ACCESS HINGE AND LENS

The luminaire door is attached to the housing with a patented internal hinge assembly allowing for easy removal of the door/frame, if required. A high temperature silicone gasket seals the optical system from dirt and debris (IP65). The flat glass lens achieves the desired full-cutoff classification.



TOOL-LESS ENTRY

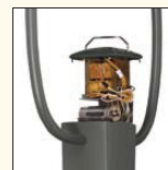
Proprietary door-frame latching system allows easy access and servicing of lamp for normal maintenance. Door-frame is low-copper aluminum to resist corrosion.

PREMIUM VERTICAL LAMP OPTICS

Vertical lamps deliver improved performance in both life and lumen maintenance over horizontal lamps. The Aviator features premium reflector materials utilized in a segmented optical reflector design. This combination delivers excellent streetside efficiency, superior backlight control and greatly improved uniformity demanded by lighting specifiers.

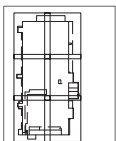
40° C PERFORMANCE

All components are mounted to maximize heat transfer and maintain the coolest possible ballast operating temperatures, allowing for a 40° C ambient operation rating. UL, C-UL and CE listed for wet locations. Other approvals and certifications are also available; consult your local affiliate.



QUICK-CONNECT BALLAST TRAY

In both the side arm and post-top mount configurations, the ballast and other electrical components are located on a one-piece tray for quick and easy connect and disconnect during installation and maintenance. Access to the ballast compartments requires nothing more than a screwdriver. Ballast compartments shown are with CWA gear.

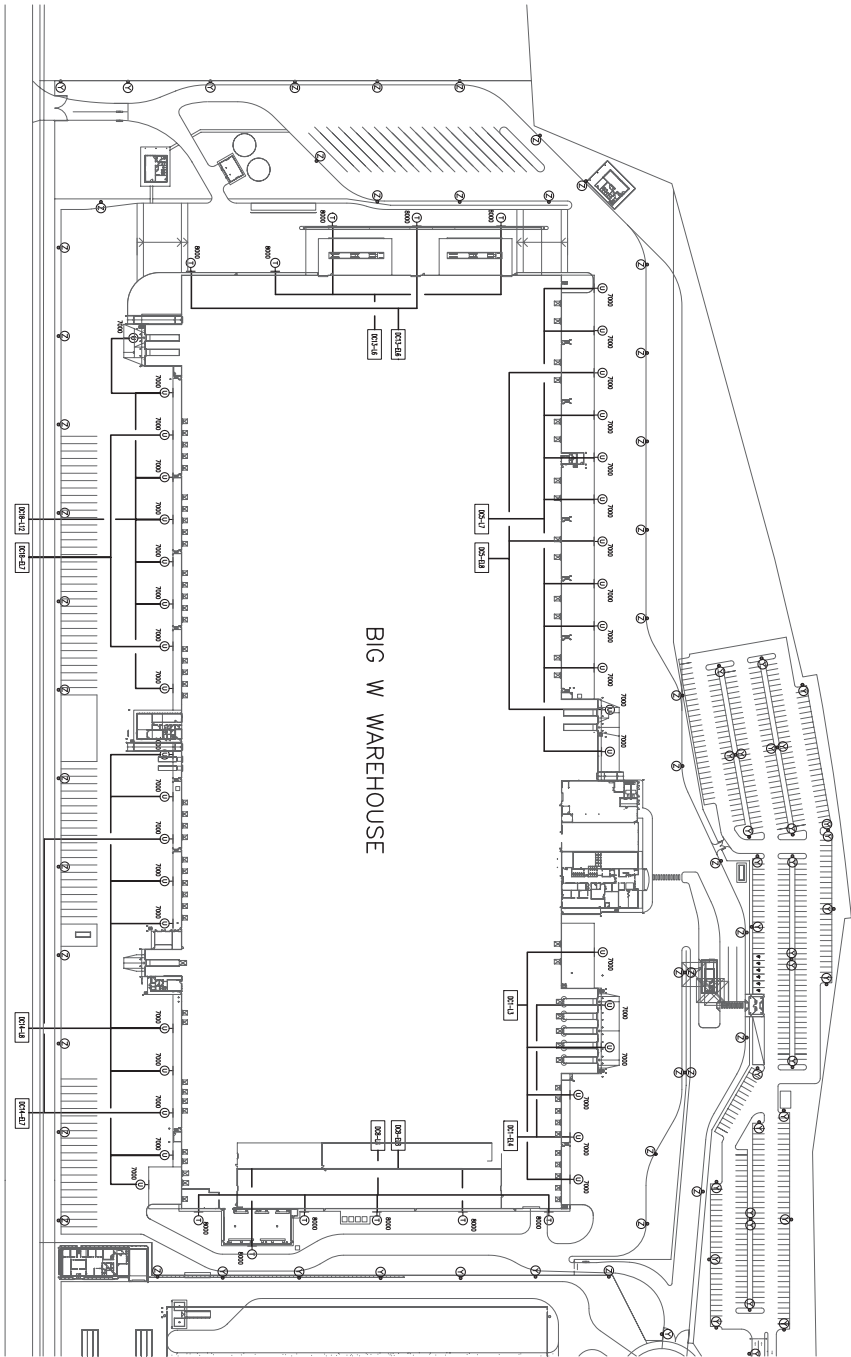


KEY PLAN

CONNECTIONS MUST NOT BE SCALLED FROM DOWNLINKS.

ALL DIMENSIONS TO BE COMPLETED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.

REFER BELOW FOR MORE AMENDMENTS



BIG W WAREHOUSE

PRELIMINARY



DATE	FEB 91	PROJECT #	5040	STATUS	ETD
SCALE	1:1000	(B)			
DRAWN	DT				
CHECKED	<i>W. Snyder</i>				
APPROVED	DT				
		DSG #	ESK-1		P2
		REV #			

BIG W DC
NSW

MSW

ELECTRICAL & MECHANICAL ENGINEERS

[illegible][illegible]

MINA ARCHITECTS

Level 4, 8 Hbb Street, Chatswood NSW 2057
Tel: (02) 9825 8400 Fax: (02) 9456 6444

STRUCTURAL & CIVIL ENGINEERS

BECA PTY LTD

Suite 6, Level 3, 5 George St, Parramatta NSW 2150
Tel: (02) 9691 6773 Fax: (02) 9633 9677

100% (100% Satisfaction Guarantee) - 24 Hour Emergency Service

FIRE ENGINEERS

BASSETTS

Level 11, 44 Market St Sydney NSW 2000
Tel: (02) 8295 7555 Fax: (02) 8295 7502

HYDRAULIC ENGINEERS

MCM DONNELLY & PARTNERS PTY LTD

Suite 1, 103 Poyntz Highway, Chatterbox NSW 2067
Tel: (02) 9634 8711 Fax: (02) 9424 6977

COST MANAGEMENT

PAGE KIRKLAND

Latif Z. 1 Marook St, Sydney NSW 2000
Tel: (02) 6083 7311 Fax: (02) 9283 7322

	0	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
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ELECTRICAL SERVICES

EXTERNAL LIGHTING LAYOUT

DATE	FEB 11	PROJECT	STATUS
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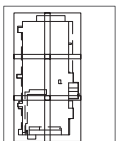
SCALE 1:1000 (3")

5040 E/TD

CRUJING 07

CHIEFED	D. Taylor	2007/8	2007/8
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APPROVED BY _____ ESK-1 P2



KEY PLAN

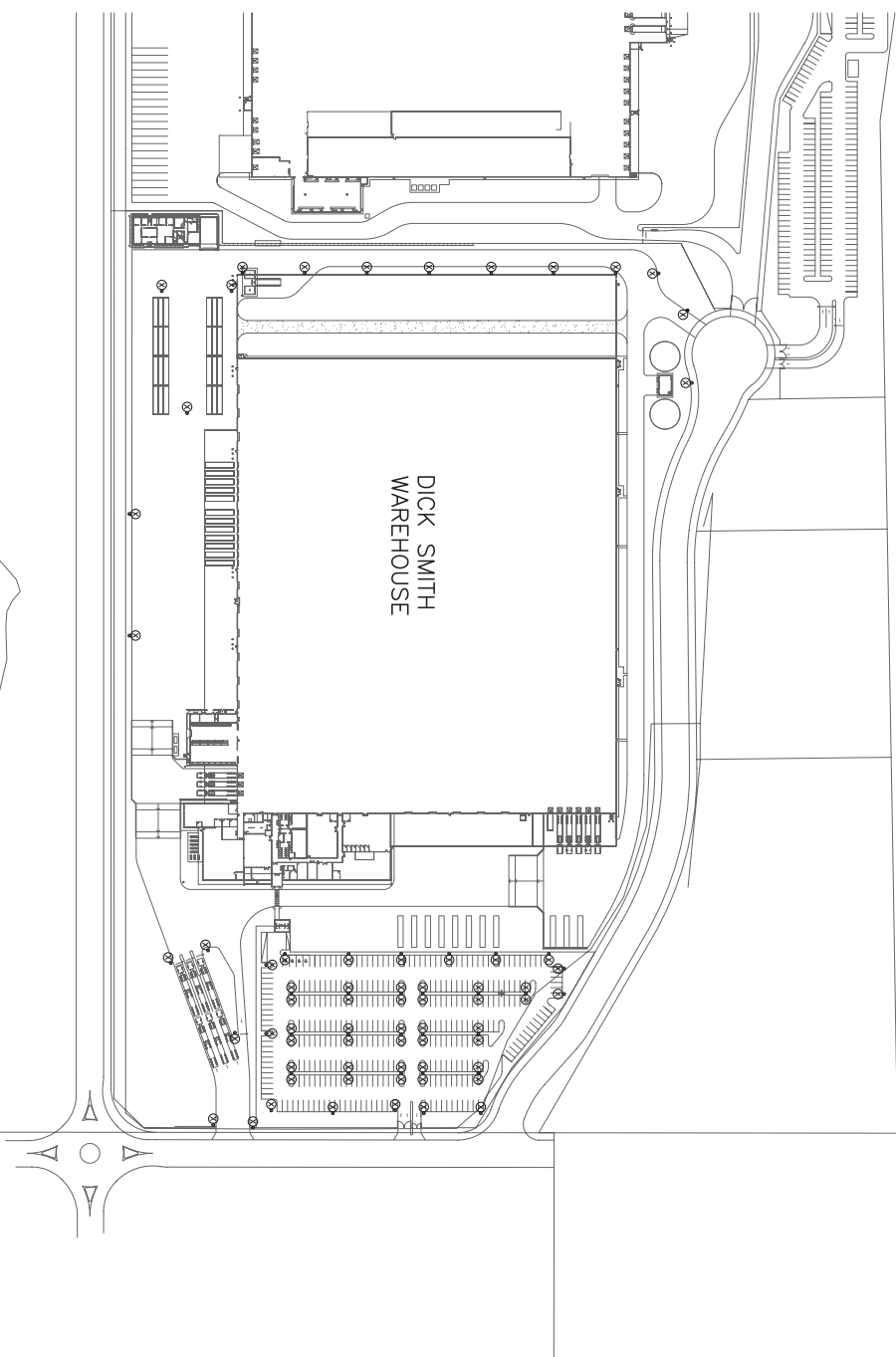
THE PROBLEM WITH DRAWING AND THE CONCERNS REGARDING THE SHIELDING OF THE DRAWING FROM THE USER ARE DISCUSSED HEREIN AS THE WHOLE OR PART MAY PROVIDE THE USER WITH AN AESTHETIC ADVANTAGE.

CONSEQUENTLY, DRAWINGS RATHER THAN UNANSWERED OR UNANSWERED QUESTIONS SHOULD NOT BE ANSWERED BY THE USER.

QUESTIONS MUST NOT BE ANSWERED BY THE USER.

ALL QUESTIONS TO BE ANSWERED BY THE USER MUST BE THE ANSWER OF THE USER.

REFER BELOW FOR MORE AMENDMENTS



PRELIMINARY



DATE	FEB 93	PROJECT #	5040	SOURCE	E/TD
SCALE	1:1000				
CRATION	DT				
CHECKED	<i>D. Stephen</i>	DWG #		REF #	
APPROVED	DT	ESK-2	P2		

PROJECT
PROPOSED DC
SYDNEY

dick smith
Talk to the Technoerts



Woolworths
the fresh food people

Shelmerdines
Consulting Engineers

555 Marine Drive
Pacine Beach 97266 Oregon
Phone: 503/344-8888
Fax: 503/344-8888

Level 4, 8 Hwp Street Chalfont NSW 2007

Sale 6, Lot 3, 9 George St, Parramatta NSW 2150

BASSELS
Level 11.44 Model St Suther NSW 2000

NIVEN DONNELLY & PARTNERS PTY LTD
 Suite 1 TRO David Livingstone Conference NSW 20

PAGE KIRKLAND

ELECTRICAL SERVICES

EXTERNAL LIGHTING LAYOUT

