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ACCESS & DESIGN CONSIDERATIONS

FOR

REPLACEMENT AND RELOCATION OF EXISTING

FLOODLIT MENAGE

AT

ROCK COTTAGE FARM

ALTON

STOKE-ON-TRENT

ST10 4DH

Introduction:

Rock Farm Cottage has an existing longstanding menage which is located on the highest part of the landholding, well away from the cottage and stables, with a floodlighting pylon located to the south-east of it and which doubles up to light the route between it and the stables. This menage, which is on the most level land on the holding, is at the end of its useful economic life and the floodlighting is also in need of an update.

As the facilities are in daily use, experts in floodlighting and menages were called in to advise upon the replacement and a more appropriate location has been identified. This involves the use of uneven ground and will leave the level site of the existing menage, which will have its surface reverted to pasture, available for grazing and exercise. In addition, the opportunity has been taken to draw up a far less intrusive and more efficient lighting system. A system utilizing halogen lamps has been selected mounted on low level poles as this gives the most economic solution: It also radiates a softer light than an led lighting system would. Specification sheets are attached.

Under the new arrangements, upon the assumption that planning permission is forthcoming, the stables building will adjoin and have easy access to the menage. This will obviate the need for the current lighting pylon which will be removed as part of the scheme.

This application has been drawn up taking the above matters into account.

Assessment of the suitability of the application site

The selected location is immediately adjacent to the main equestrian facilities and no alterations to those facilities are proposed. From an operational point of view, there will be a far more efficient use of the land with more level land available.

The access arrangements to the site will remain unaltered and no additional traffic movements are anticipated: Indeed, due to the fact that the existing menage is at the end of its life, there are currently traffic movements to other facilities.

The proposed location is not only the most efficient from an operational point of view and but also will not intrude into the open countryside to the extent that the existing one does.

Evaluation of the existing buildings on the application site

The facility is open air by definition and there are no buildings on the site that could be adapted to provide this accommodation.

Design considerations for the existing buildings

The proposed menage will be of normal size and use materials (see specification on plan A2624-001) commensurate with this type of structure and will be bordered with a 1.2m high timber post and rail fence. These materials are in keeping with existing buildings and the open countryside location. There will be less visual intrusion.

Services

The proposed use does not impact on any existing arrangements.

Landscaping and the Environment Agency

The property is adjacent to existing mature vegetation and will not be intrusive into the views from any nearby premises. No trees or hedges are affected by this proposal.

It is appreciated that the proposal involves the delivery and removal of a certain amount of materials. All materials will enter or leave site by way of the roadway on the west/north-west boundary of the holding which is more suitable for larger vehicles.

The Applicant is not aware of any other special requirements of the Environment Agency in connection with this application and the proposal is not within a designated flood plain.

Access, highways, parking and circulation requirements

The proposal will not affect the existing access and parking arrangements and all vehicles will be able to enter and leave site in a forward direction to comply with Staffordshire County Highways requirements.

Disability considerations

The facility has been used by disabled persons and new facility will also be fully accessible for all users, whether able-bodied or otherwise.

Other matters

The Applicant is not aware of any other matters required to support the application.

Lighting Applications Department

PRINCIPAL LIGHTING LTD

Project : *Menage Area*
Data : *18/05/2016*
Client name : *Premier Electrical Stoke*
Room : *MH Option: 100 Lux Average Min 0.5 Uniformity*
Calc. area : *Total area*

Project parameters

Room dimensions

X [m] : 40.00
Y [m] : 20.00
Z [m] : 0.00

Calc. parameters

Working plane H [m] : 0.00
Range width [m] : 0.00
Mantenance c. : 0.80

Calculation grid

X : 11
Y : 7
Z : 10

Reflection coeff. (%)

Working plane : 0
Ceiling : 0
Eastern wall : 0
Northern wall : 0
Western wall : 0
Southern wall : 0

Average illuminance [lux]

Working plane : 104
Ceiling : 0
Eastern wall : 0
Northern wall : 0
Western wall : 0
Southern wall : 0

Values on working plane

Lumen per m² : 320.00
Watt per m² : 4.00

UGR crosswise : : N.C.
UGR lenghtwise: : N.C.

Total installed fixtures 8 with 8 lamp (Total flux [Klm] 256.00 [klm])

No.	Fixture	No.	Lamp	Flux	No.	Lamp	Flux
8	1803 JMT400	8	JMT400P	256.00	0		0.00

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Installed fixtures details

No.	Fixture	Lamp	Flux	Lamp	Flux	X [m]	Y [m]	Z [m]	I.NS°	I.EW°	Rot.°	Status	Dimmer
1	1803 JMT400	JMT400P	32000		0	8.50	-0.33	8.00	15	0	40	On	100%
2	1803 JMT400	JMT400P	32000		0	31.50	-0.33	8.00	15	0	320	On	100%
3	1803 JMT400	JMT400P	32000		0	9.50	-0.33	8.00	15	0	315	On	100%
4	1803 JMT400	JMT400P	32000		0	30.50	-0.33	8.00	15	0	45	On	100%
5	1803 JMT400	JMT400P	32000		0	8.50	20.33	8.00	15	0	140	On	100%
6	1803 JMT400	JMT400P	32000		0	30.50	20.33	8.00	15	0	135	On	100%
7	1803 JMT400	JMT400P	32000		0	9.50	20.33	8.00	15	0	225	On	100%
8	1803 JMT400	JMT400P	32000		0	31.50	20.33	8.00	15	0	220	On	100%

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Lux table Working plane

18.57	67	102	157	115	90	84	90	113	158	106	69
15.71	71	113	145	129	96	84	96	125	146	119	72
12.86	68	106	136	120	91	80	90	118	136	109	70
10.00	66	102	129	114	87	81	87	114	129	102	66
7.14	70	109	136	118	90	80	91	120	136	106	68
4.29	72	119	146	125	96	84	96	129	145	113	71
1.43	69	106	158	113	90	84	90	115	157	102	67
[m]	1.82	5.45	9.09	12.73	16.36	20.00	23.64	27.27	30.91	34.55	38.18

Typical data	
Eave [lux]	: 104
Emax [lux]	: 158
Emin [lux]	: 66

Uniformity values	
Emin/Eave	: 0.63
Emin/Emax	: 0.42
Emax/Eave	: 1.52

Miscellaneous	
Utilisation c.	: 0.41

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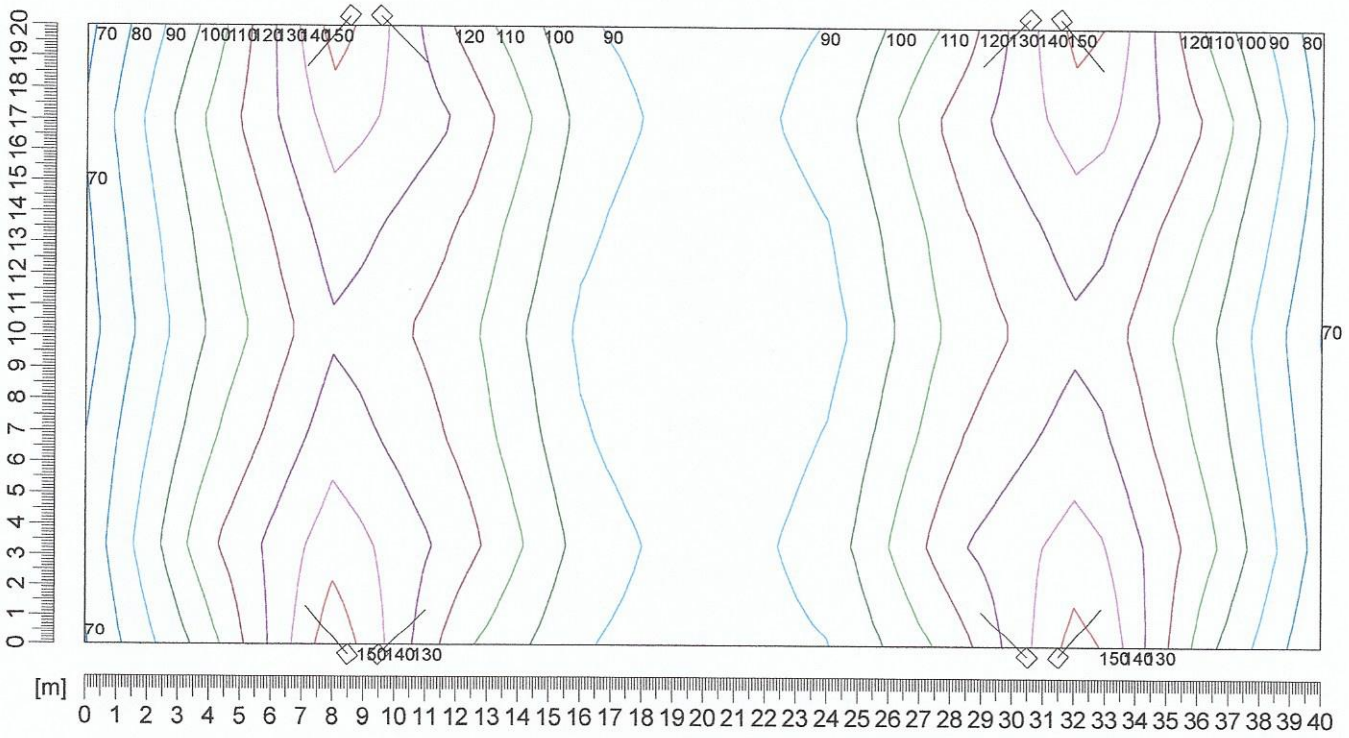
Calc. area	: ***Total area***

Isolux Working plane



Section values [lux]

70.0	100.0	130.0
80.0	110.0	140.0
90.0	120.0	150.0

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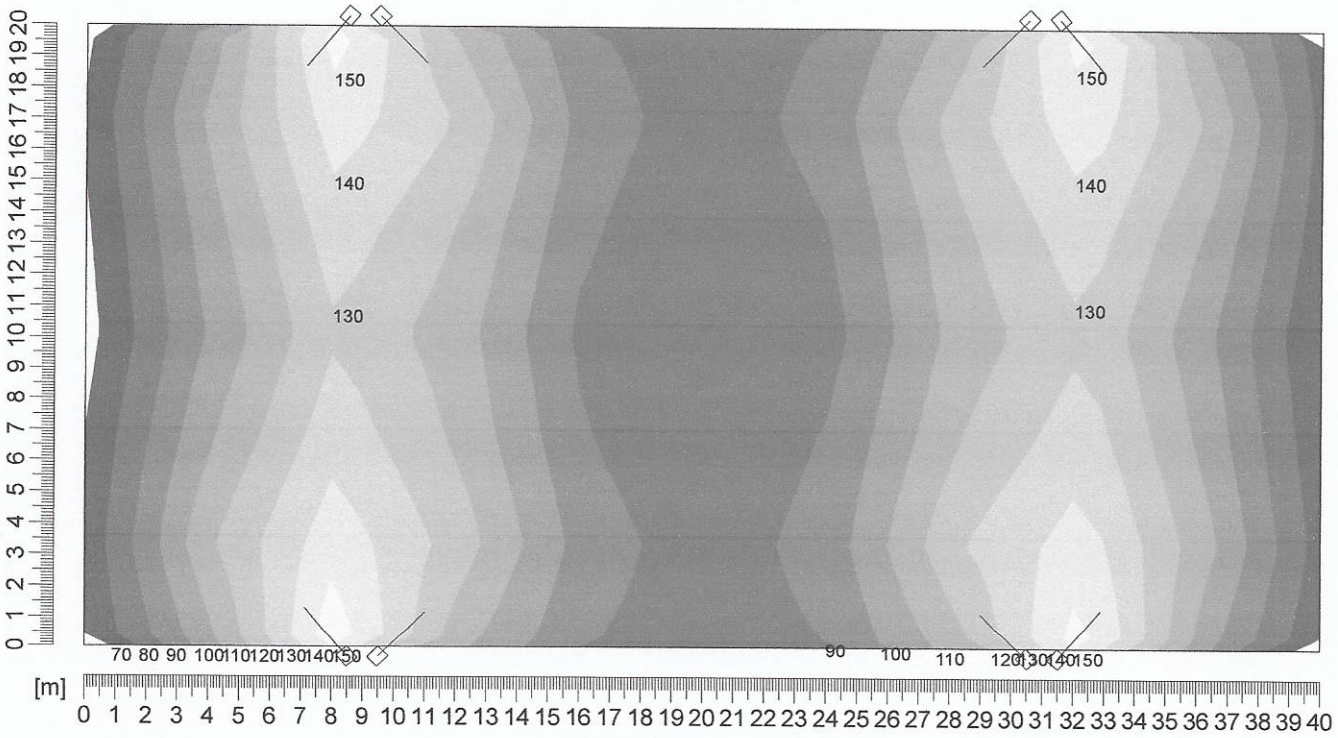
Isolux Working plane



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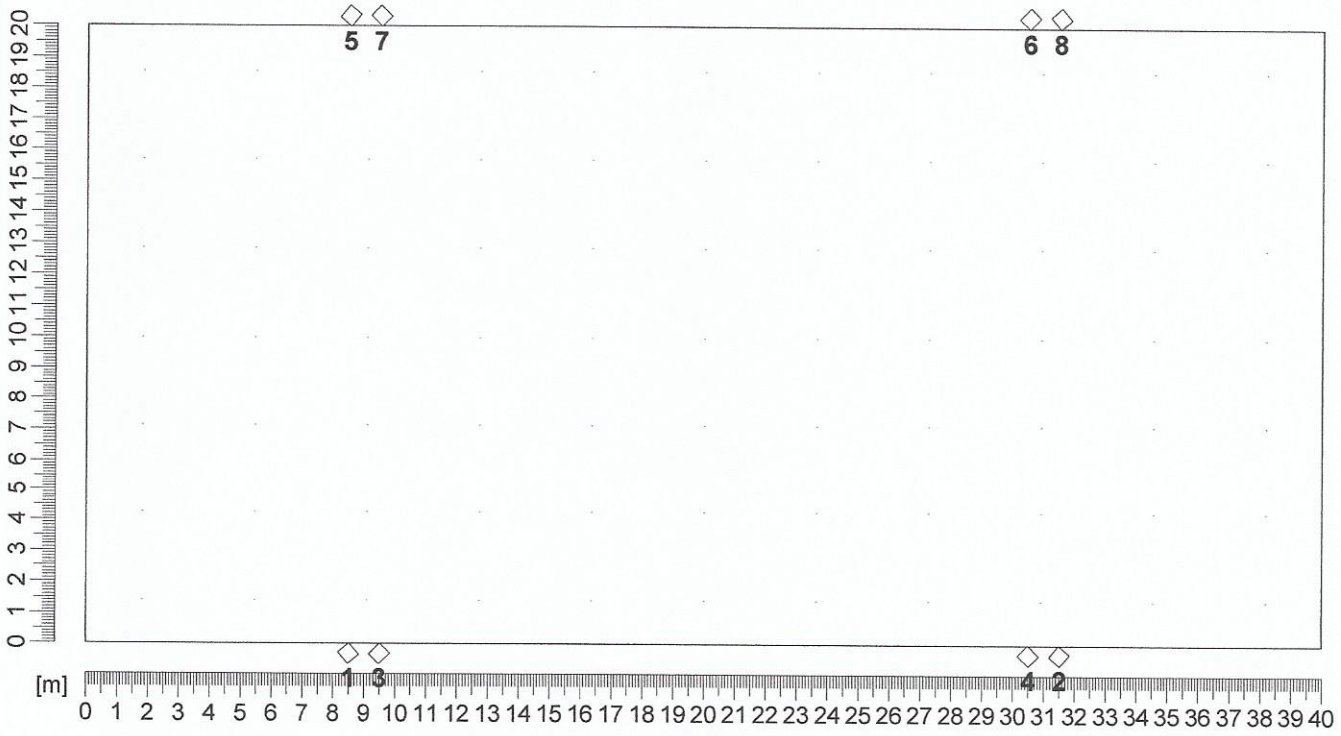
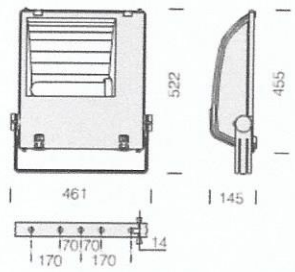
Room	: ***MH Option: 100 Lux Average Min 0.5 Uniformity***
Calc. area	: ***Total area***

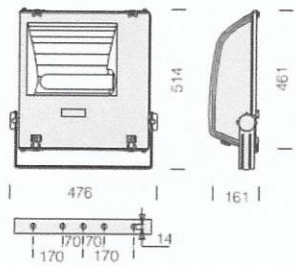
Layout Working plane



IP66 IK07

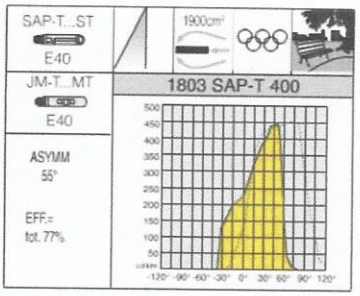


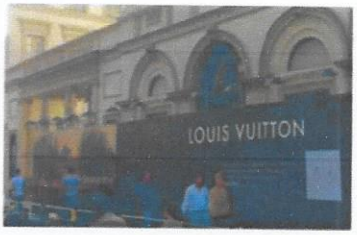
IP66 IK08 ⧈



Reflector: asymmetric 55° (efficiency 77%) made of 3µ thick 99.85 anodised, polished and hammered aluminium.







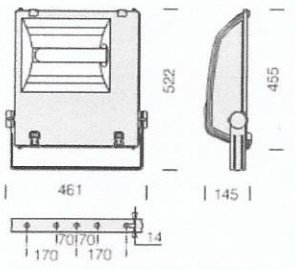
U.V.

1803 Rodio 3 - asymmetric

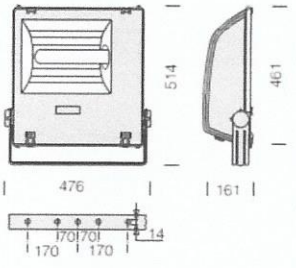
		CNRL		CNRL double insulation		Lamps (Ta=25°C)
wattage	colour	weight	code	weight	code	Kelvin - ølm - Ra
SAP-T 150	graphite	9.00	414715-00	9.50	414710-14	2000K - 17200lm - Ra 40
SAP-T 250	graphite	10.00	414716-00	10.50	414711-14	2000K - 33000lm - Ra 40
SAP-T 400	graphite	10.40	414717-00	10.70	414712-14	2000K - 56700lm - Ra 40
JM-T 250	graphite	9.50	414718-00	9.80	414713-14	4500K - 20500lm - Ra 2b
JM-T 400	graphite	10.40	414719-00	10.70	414714-14	4500K - 35000lm - Ra 2b

Double insulation version supplied with knife switch. ⧈

IP66 IK07

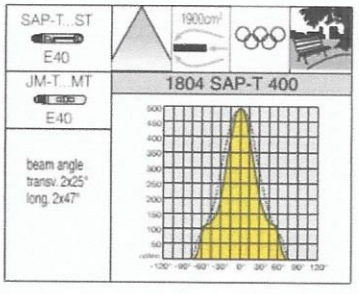


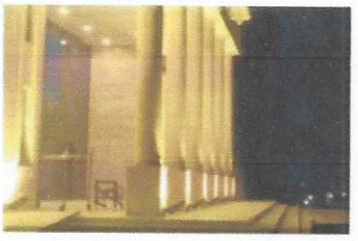
IP66 IK08 ⧈



Reflector: symmetric made of 3µ thick 99.85 anodised, polished and hammered aluminium.







U.V.

1804 Rodio 3 - symmetric

		CNRL		CNRL double insulation		Lamps (Ta=25°C)
wattage	colour	weight	code	weight	code	Kelvin - ølm - Ra
SAP-T 150	graphite	9.00	414815-00	9.50	414810-14	2000K - 17200lm - Ra 40
SAP-T 250	graphite	10.00	414816-00	10.50	414811-14	2000K - 33000lm - Ra 40
SAP-T 400	graphite	10.40	414817-00	10.70	414812-14	2000K - 56700lm - Ra 40
JM-T 250	graphite	9.50	414818-00	9.80	414813-14	4500K - 20500lm - Ra 2b
JM-T 400	graphite	10.40	414819-00	10.70	414814-14	4500K - 35000lm - Ra 2b

Double insulation version supplied with knife switch. ⧈