Ordnance Survey

SHDC
Planning & Development
18 APR 2011
Ref: 026411

Siteplan® 1:2500



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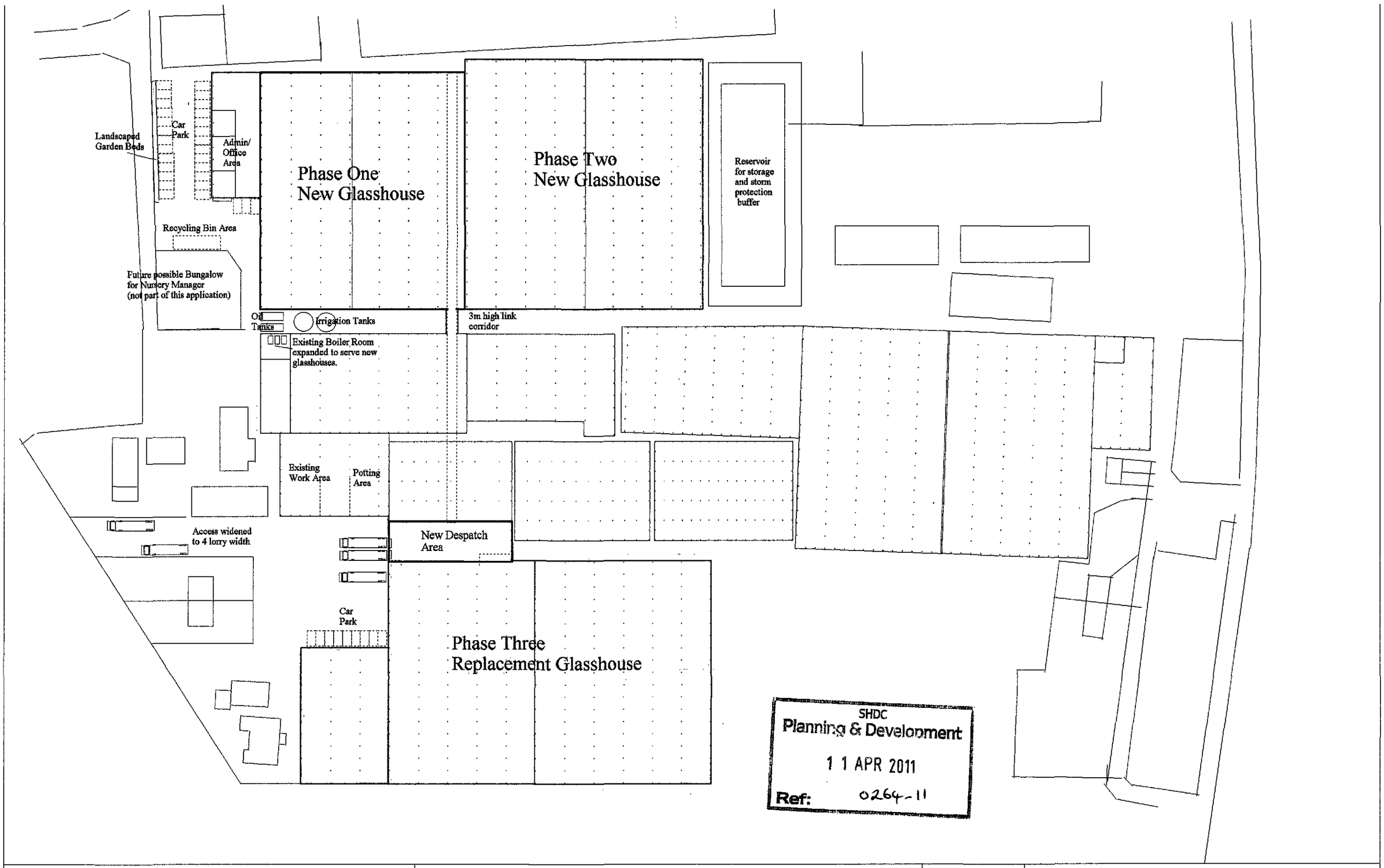
Metres

N

Centre Coordinates: 527380 322326

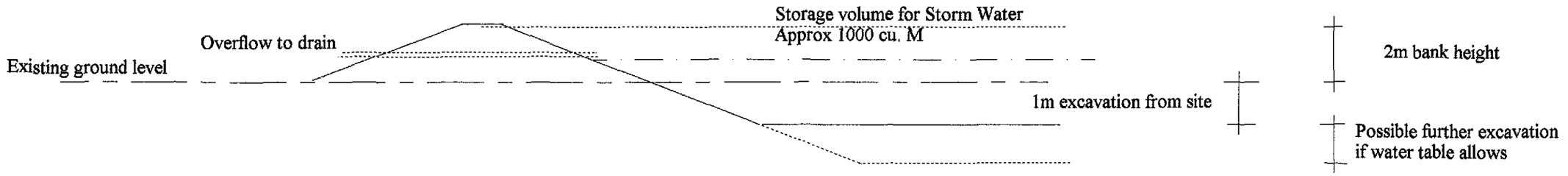
National Grid sheet reference at centre of this Siteplan: TF2722

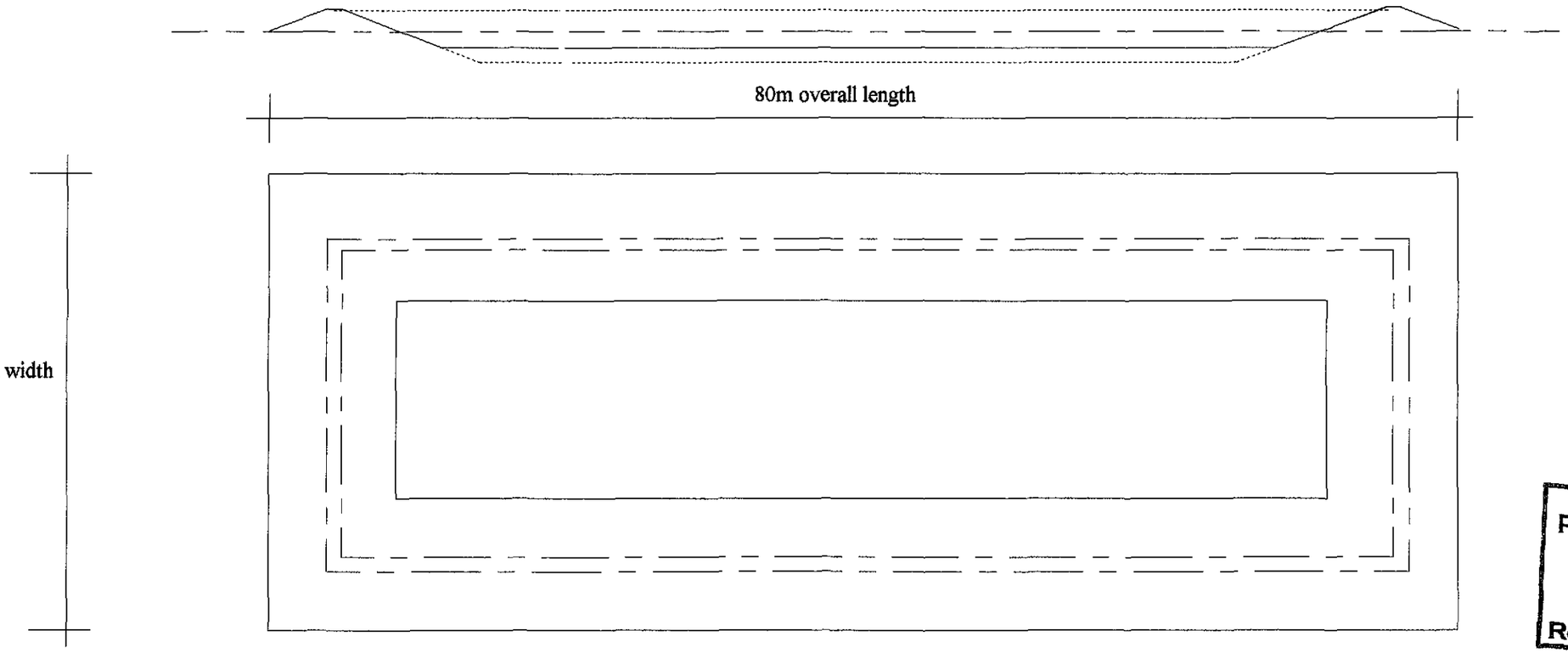
Supplied by: Bookmark Spalding Ltd
Serial Number: 00067200



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11 APR 2011
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Drg. No. 8065 / 01/g		CLIENT Opperman Plants Ltd., Low Fulney, Spalding	DATE Mar 2011	**BRIDGE GREENHOUSES LTD**	
No.	REVISION DATE	PROJECT Proposed Nursery Glasshouse Development Overall Site Outline Proposals	DRAWN N.W.	Park Lane, Donington Spalding, Lincs. PE11 4UE Tel: 01775 821191 Fax: 820306	BRIDGE
			SCALE N.T.S.		

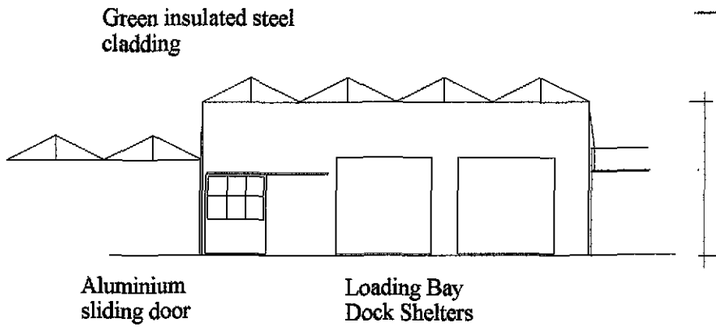


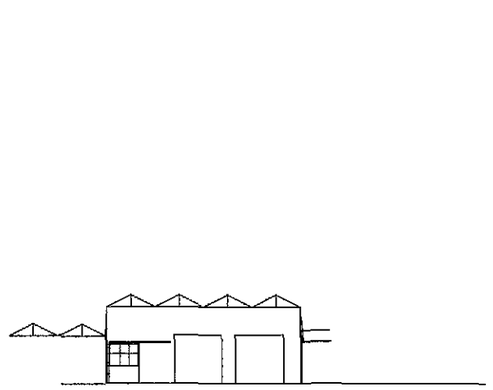


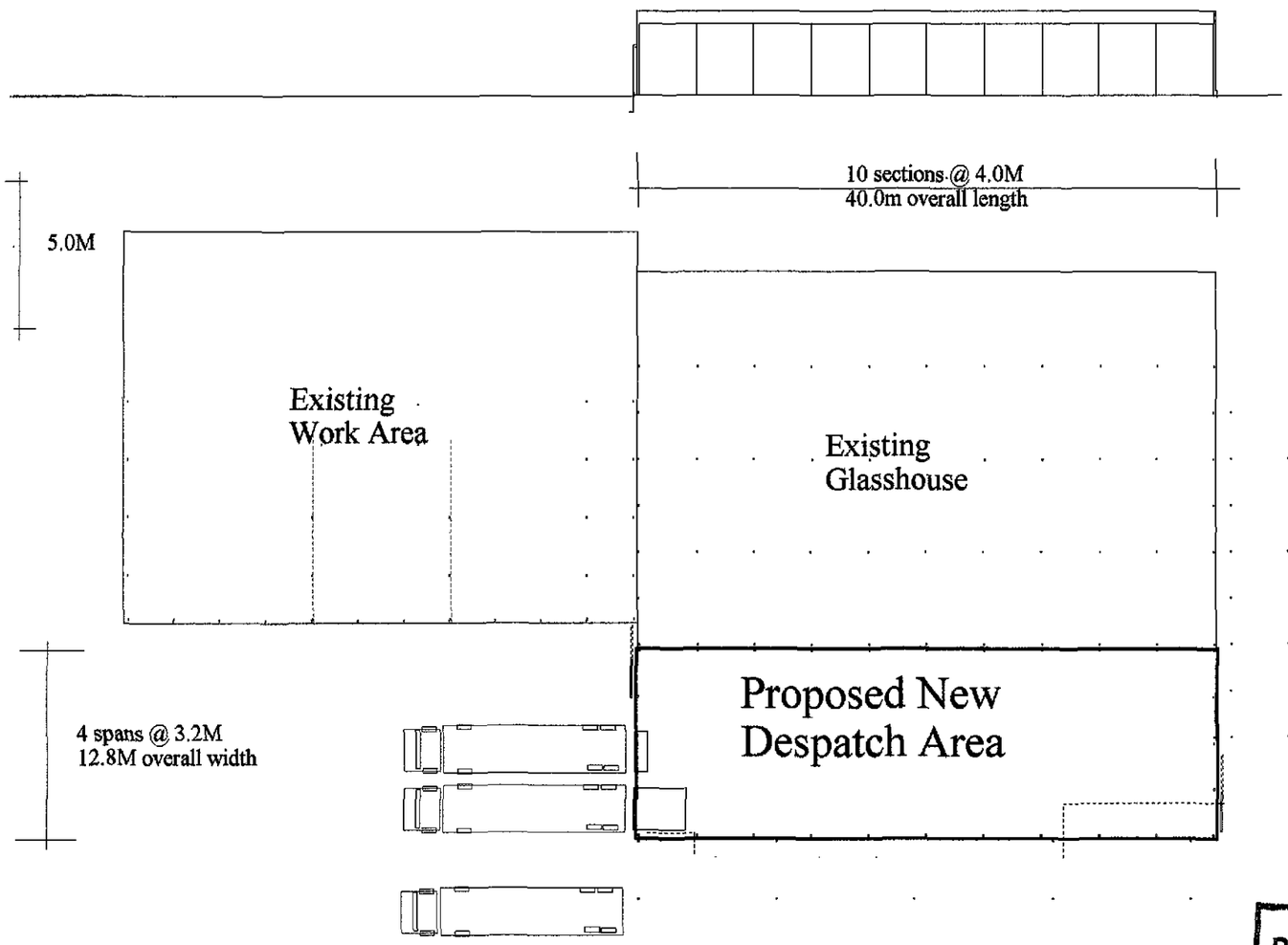
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Water Storage Reservoir
- see calculation sheet for design criteria

Drg. No. 8065 / 03/a			CLIENT Opperman Plants Ltd., Low Fulney, Spalding	DATE Mar 2011	**BRIDGE GREENHOUSES LTD**
			PROJECT Proposed Nursery Glasshouse Development - Reservoir Details	DRAWN N.W.	Park Lane, Donington Spalding, Lincs. PE11 4UE Tel: 01775 821191 Fax: 820306
				SCALE N.T.S.	
No.	REVISION	DATE			



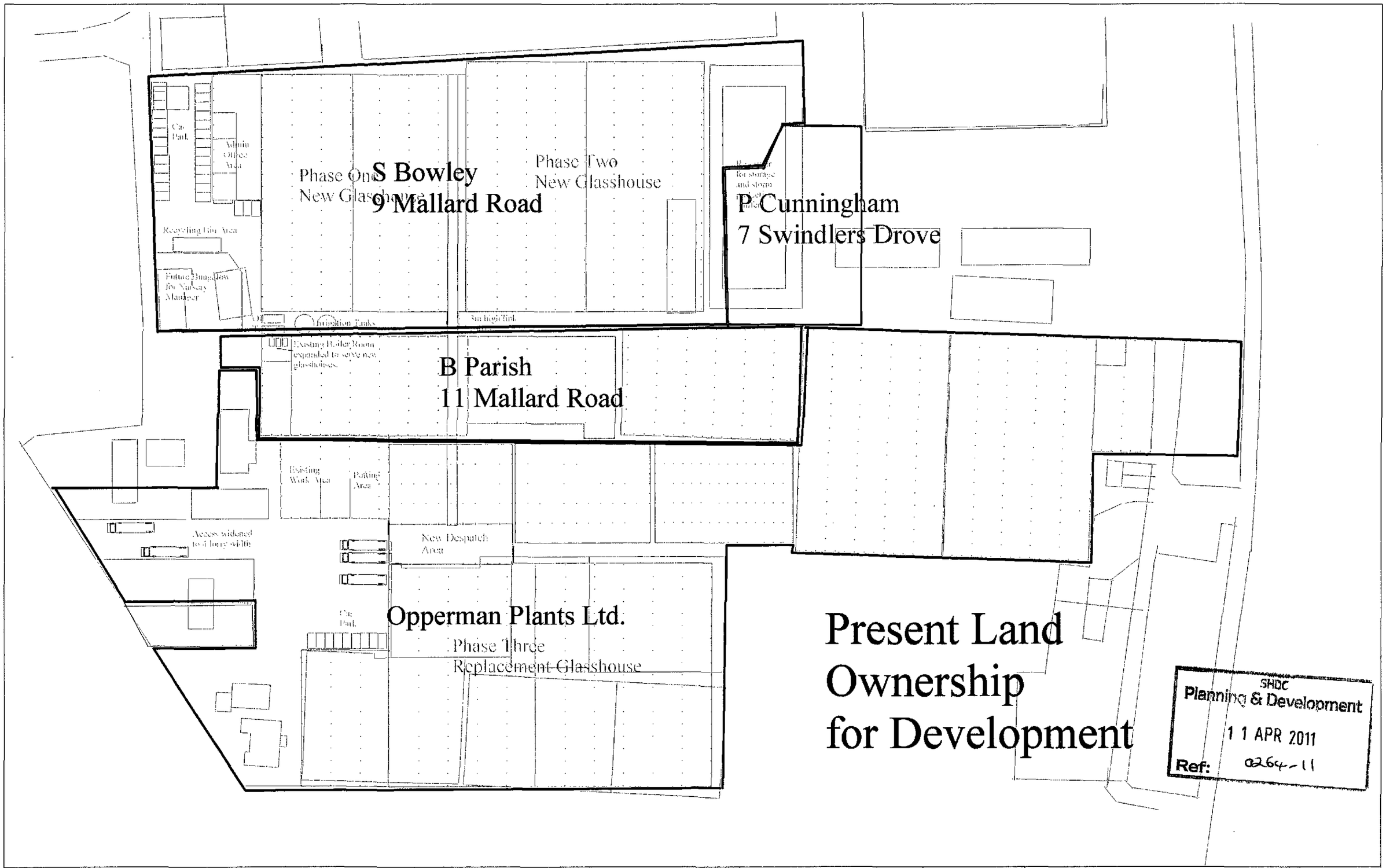




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Proposed New Despatch Area

Drg. No. 8065 / 04 /a			CLIENT Opperman Plants Ltd., Low Fulney, Spalding	DATE Mar 2011	**BRIDGE GREENHOUSES LTD**
			PROJECT Proposed Nursery Glasshouse Development - New Despatch Area	DRAWN N.W.	Park Lane, Donington Spalding, Lincs. PE11 4UE Tel: 01775 821191 Fax: 820306
				SCALE N.T.S.	BRIDGE
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Drg. No. 8065 / 02/a			CLIENT Opperman Plants Ltd., Low Fulney, Spalding	DATE Mar 2011	**BRIDGE GREENHOUSES LTD**
			PROJECT Proposed Nursery Glasshouse Development - Land Ownership	DRAWN N.W.	Park Lane, Donington Spalding, Lincs. PE11 4UE Tel: 01775 821191 Fax: 820306
				SCALE N.T.S.	BRIDGE
No.	REVISION	DATE			

Phase Two Admin/Office Area within glasshouse structure (same specification as phase one)

Phase One New Glasshouse

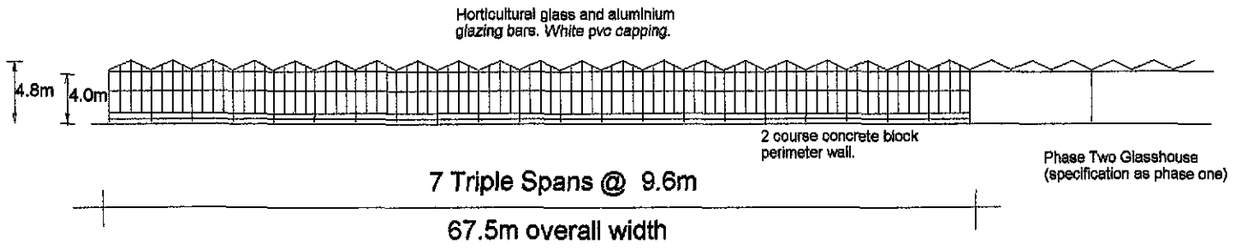
Oil Tanks

Irrigation Tanks

3m high link corridor

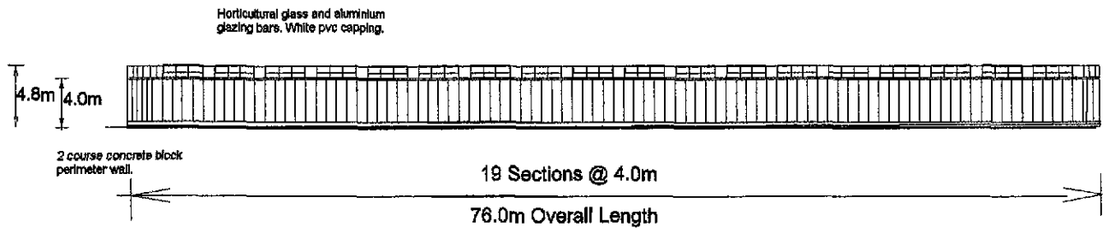
Existing Boiler Room expanded internally to serve new glasshouses. 2 new boilers added

Existing Glasshouse



Typical Gable Elevations - Phase One (Future Phases similar)

Phase Two Glasshouse (same specification as phase one)



Typical Side Elevation - Phase One (Future Phases similar)

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Phase One Glasshouse Plan and Elevation - All other Phases same specification

Drg. No. 8065 / 05/b	CLIENT Opperman Plants Ltd., Low Fulney, Spalding		DATE Mar 2011	**BRIDGE GREENHOUSES LTD**
No. REVISION DATE	PROJECT Proposed Nursery Glasshouse Development - Plan & Elevations Phase One		DRAWN N.W. SCALE 1:500	Park Lane, Donington Spalding, Lincs. PE11 4UE Tel: 01775 821191 Fax: 820306 BRIDGE

BRIDGE GREENHOUSES LTD.
SOUTHERN DIVISION: Chalk Lane, Keynor Lane, Sidlesham, Chichester,
West Sussex, PO20 7NQ
PHONE: 01243 641789 FAX: 01243 641788
Email: south@bridgegreenhouses.co.uk

BRIDGE

Project :	*Opperman*

AREA OF GLASSHOUSE =	*12000* m^2



THE CALCULATED EXCESS VOLUME OF WATER TO BE STORED IS THE VOLUME THAT MUST BE LEFT AVAILABLE IN THE RESERVOIR AT ALL TIMES. THIS TAKES INTO ACCOUNT THE 100 YEAR STORM SITUATION WHICH COULD POTENTIALLY PRODUCE THIS VOLUME OF WATER. THE OVERFLOW PIPE MUST THEREFORE BE SITUATED SO THAT THE VOLUME ABOVE IT IS GREATER THAN OR EQUAL TO THE EXCESS VOLUME TO BE STORED FOR THE STORM BUFFER.

IF RECTANGULAR ENTER LENTH AT TOE	=		30 m
IF RECTANGULAR ENTER WIDTH AT TOE	=		80 m
HEIGHT ABOVE GROUND	=		**2.00 m**
ANGLE OF SLOPE ON OUTSIDE =		1 in	**2.0**
ANGLE OF SLOPE ON OUTSIDE IN DEGREES	=		26.57 degrees
DEPTH BELOW GROUND	=		**1.00 m**
TOTAL VERTICAL HEIGHT OF RESERVOIR (FROM A TO C)	=		**3.00 m**
ANGLE OF SLOPE ON WATER SIDE =		1 in	**2.5**
ANGLE OF SLOPE ON WATER SIDE IN DEGREES	=		21.80 degrees
WIDTH OF BANK AT TOP (W)	=		**1.00 m**
LENGTH AT D	=		22.00 m
WIDTH AT D	=		72.00 m
LENGTH AT A	=		20.00 m
WIDTH AT A	=		70.00 m

PLAN AREA OF RESERVOIR AT POINT A	=	1400.00 m^2
PLAN AREA OF RESERVOIR AT POINT B	=	600.00 m^2
PLAN AREA OF RESERVOIR AT POINT C	=	275.00 m^3
PLAN AREA TOTAL	=	2400.00 m^2
SURFACE AREA AT POINT A	=	1486.66 m^2
SURFACE AREA AT POINT D		1670.66 m^2
SURFACE AREA TOTAL	=	2582.98 m^2
PERIMETER OF RESERVOIR AT POINT A	=	180.00 m
PERIMETER OF RESERVOIR AT POINT B	=	140.00 m
PERIMETER OF RESERVOIR AT POINT C	=	120.00 m
PERIMETER OF RESERVOIR AT POINT D	=	188.00 m

VOLUME BELOW POINT A (TOTAL RESERVOIR CAPACITY)	=	**2,400.00 m^3**
VOLUME BELOW POINT B	=	437.50 m^3
HEIGHT OF OVERFLOW PIPE (ABOVE POINT C)	=	2.08 m
VOLUME BELOW OVERFLOW PIPE (IRRIGATION VOLUME)	=	**1,320.00 m^3**

VOLUME OF SOIL EXCAVATED	=	437.50 m^3
VOLUME OF SOIL REQUIRED FOR ABOVE GROUND BANKS	=	2,024.00 m^3
VOLUME OF SOIL DEFICIT	=	-1586.50 m^3

NOT ENOUGH SOIL AVAILABLE FOR BANK!!!!!

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BRIDGE

Project :	*Opperman*

AREA OF GLASSHOUSE =	*12000*	m^2

FIGURES FOR M100 - 1 IN 100 YEAR STORM		
RAINFALL DURATION	2880 48	Minutes Hours
M100-D RAINFALL, WHERE D = 48 HOURS (STORM DURATION)	75	mm
RAINWATER COLLECTED OVER AREA OF GLASS	900	m^3
PLUS 20% FOR PPG25 (CHANGES IN WEATHER) (m3/hour)	1080	m^3
OUTFLOW RATE INTO WATERCOURSE	0	m^3/hour
WATER DRAINED DURING STORM DUTRATION	0	m^3
EXCESS WATER TO BE STORED AS STORM BUFFER	**1080**	m^3
IRRIGATION RATE	5	Litres / m^2 / Day
NUMBER OF DAYS STANDBY FOR IRRIGATION	20	Days
WATER STORAGE VOLUME REQUIRED FOR IRRIGATION	**1200**	m^3
TOTAL WATER STORAGE CAPACITY REQUIRED	**2280**	m^3