PROPOSED DYKE CONNECTIVITY REPORT

UPON

PROPOSED FACTORY PROJECT

ON LAND OFF RANGELL GATE,

LOW FULNEY, SPALDING, LINCOLNSHIRE

PROJECT NO: SW 21-193

DOCUMENT REF: SW 21-193-REP-01



FOR NAYLORS NUTRITION

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Revision	Date	Description		
-	September 2022	First Issue	Prepared	M. Pett
			Approved	A.Wilson CEng MIStructE

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Description

The following report has been prepared to demonstrate the riparian dykes surrounding the site have connectivity to the South Holland Internal Drainage Board (SHIDB) system downstream.

The site falls within SHIDB catchment area B, Wisemans. The map below shows the surrounding watercourses:



The site lies approximately 1km from the SHIDB maintained system. The riparian drain to the East of the site falls to the South and then to the West and connects to the Highway/riparian drain adjacent to the A16. This in turn falls to the South and connects to the SHIDB system local to Childers' South Drove.

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A topographical survey has been undertaken which includes detailed survey information of the dykes between the site and the SHIDB system, included within Appendix A. The bed level has been surveyed along with any culverts and incoming pipes. This survey demonstrates that there is a steady fall from the development site to the SHIDB system

The topographical survey did not include two culverts that were anticipated to be in place under field crossings. Therefore, the dykes to the East and South of the site were cleared to reveal these anticipated culverts. A subsequent site walk over was made and levels recorded of these culverts, photos were also taken to demonstrate the dykes connectivity to the wider system. Appendix B includes a drawing showing the culvert information and photo locations, while Appendix C includes the photos taken.

Photos 3 – 6 show the culvert local to the South West corner of the field. The culvert is heavily silted but does confirm that the proposed surface water outfall from the site does connect to the SHIDB system.

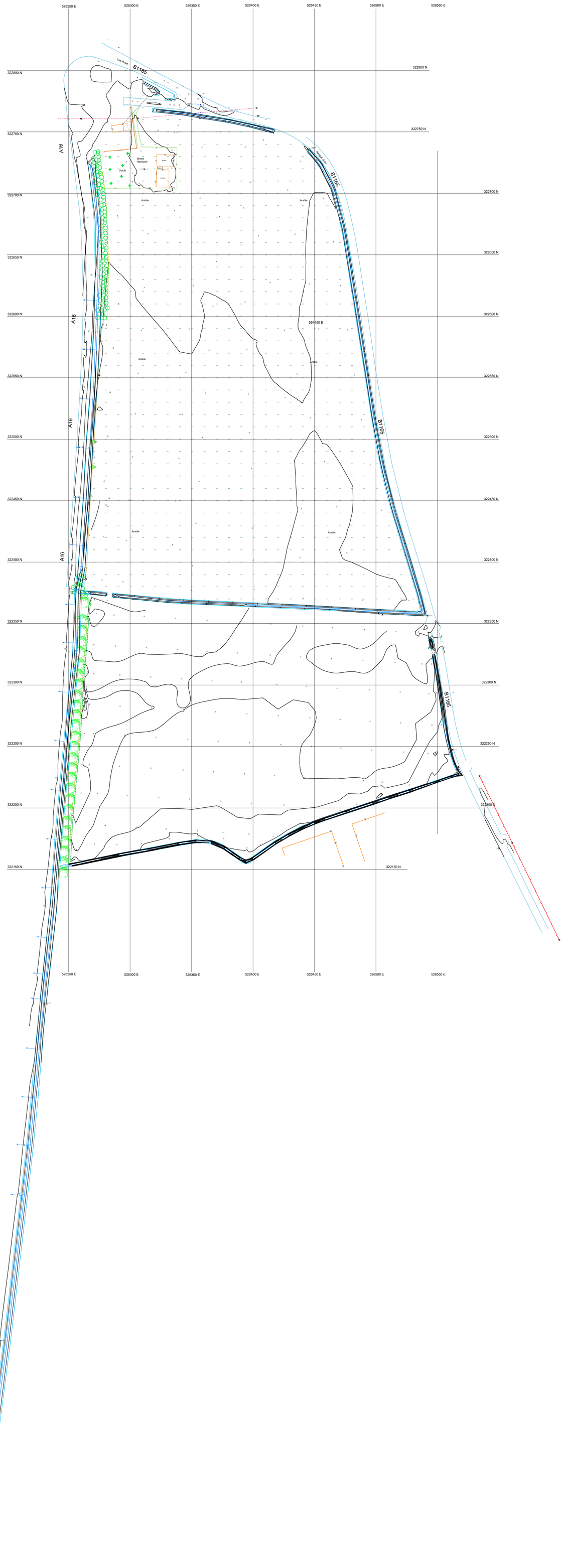
It is recommended that both culverts to the fields boundary drain, which are currently silted, should be cleared at the commencement of works on site.

Therefore, it has been demonstrated that the proposed surface and treated foul water discharges from the development site, can drain via the existing riparian drains to the SHIDB maintained system.

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Appendix A - Topographical Survey

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Revision A
Survey extended to cover
area to south of original works
9th August 2021

Revision B
Extra survey works carried out
on highway drainage to south of
site
17th Aug 2022

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Job Title : Site survey - Land to east of A16 at Rangell Gate - Spalding - Lincs

Client : Naylor - Project 1 - J Kirk

Drawn : MDS Date : 22nd March 2021

Drawing number: Rangell 01 Rev B - sheet 3 Scale 1:1250 on A0 sheet

THE DEPICTION OF A WALL, FENCE OR HEDGE DOES NOT NECESSARILY REPRESENT A LEGAL BOUNDARY. IT IS THE CLIENTS RESPONSIBILITY TO CONFIRM LEGAL BOUNDARIES WITH THE VENDOR / CONTRACTOR

Survey information is as result of measurement to existing features and does not imply legal ownership of boundaries or land divisions.
Where boundary alignment lines are added to the survey drawing and are taken from legal documents or other information supplied they are done so within the constraints of drawing quality and scale. They are provided on the basis of opinion and do not imply legal contract.

Drainage information is as a result of surface inspection only, no chambers have been accessed.
Manhole and pipe diameters should be checked before design and construction

This plan should only be used for its original purpose. No responsibility will be accepted if this plan if supplied to any party other than the original client.

All dimensions should be checked on site prior to design and construction.

DO NOT SCALE FROM THIS DRAWING

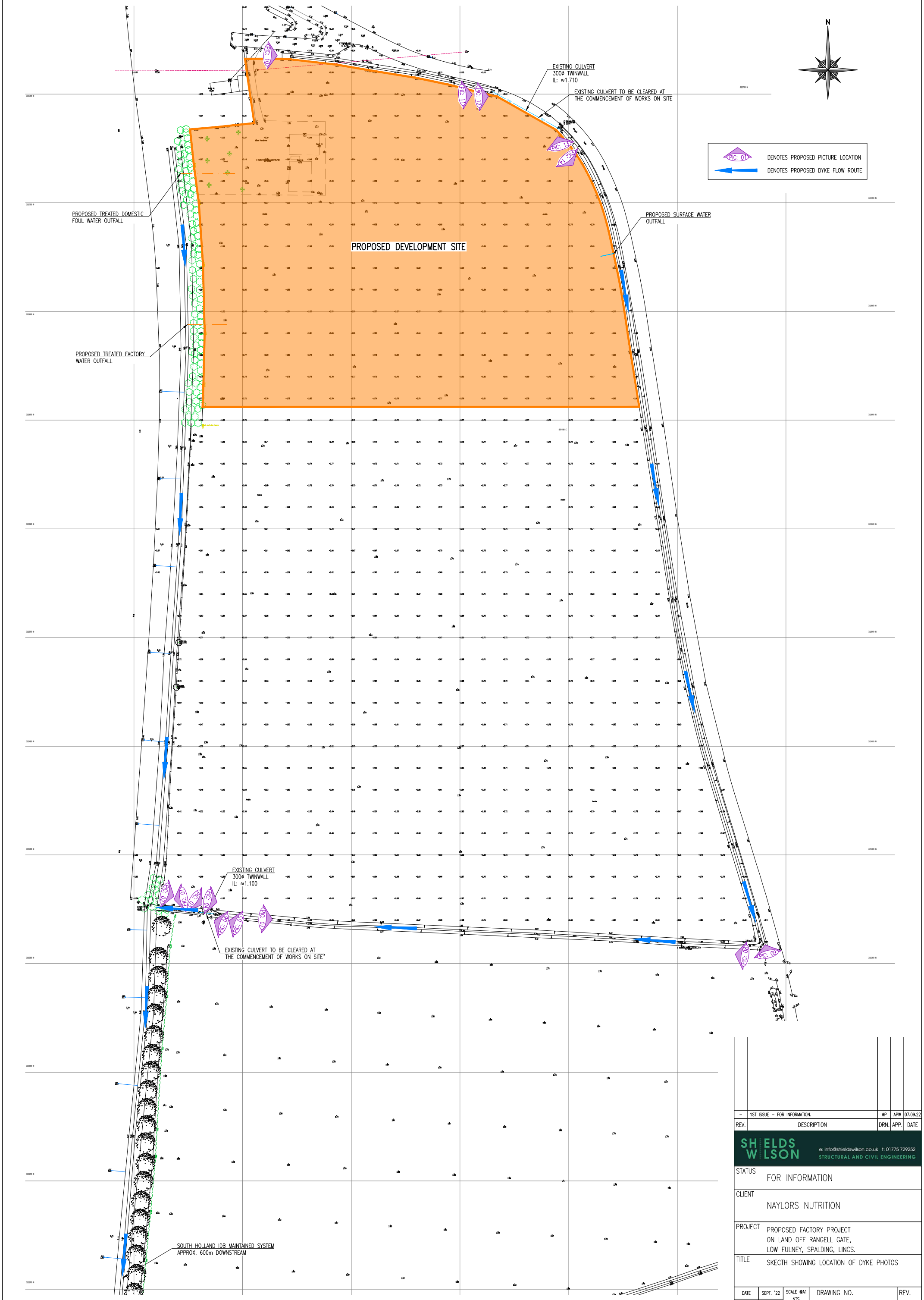
All trees marked as "indicative" have approximate heights and spreads
Trees marked with a "T" or "TAG" have been measured on site and should be referenced in conjunction with the Tree Survey Report carried out for SHDC by others

The data used for the computation of horizontal & vertical control for this survey was recorded using survey grade GPS receivers and corrected data from Trimble VRS Services using Geoid model OSTN15 with OSGM 15 .
Station establishment was carried out in accordance with best practice guidelines issued by The Survey Association.

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Appendix B - Drawing Showing Photo Locations

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REV.	DESCRIPTION	DRN.	APP.	DATE
–	1ST ISSUE – FOR INFORMATION.	MP	APW	07.09.22

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STRUCTURAL AND CIVIL ENGINEERING

STATUS: FOR INFORMATION

CLIENT: NAYLORS NUTRITION

PROJECT: PROPOSED FACTORY PROJECT
ON LAND OFF RANGELL GATE,
LOW FULNEY, SPALDING, LINCS.

TITLE: SKECTH SHOWING LOCATION OF DYKE PHOTOS

DATE	SEPT. '22	SCALE @A1	DRAWING NO.	REV.
DRAWN	MP	NTS	SW 21-193-SK20	–

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Appendix C - Dyke Photos

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Photo 1

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Photo 2

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Photo 3

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