



NOTES.
 It is assumed that any cut material can be reused on site as an engineered fill material. It is likely that material from site will need to be conditioned in terms of their moisture content to ensure they can be adequately compacted within proposed earthworks.
 Topsoil strip is as advised by the geotechnical investigation report. (hydrock ref: WPF-HYD-XX-XX-RP-G-1001-P1.4-S2). this suggests topsoil thickness ranging from 0.15m to 0.4m so an average of 0.3m has been assumed.
 A CBR value of 2.5% has been used for spine road design purposes as advised in the geotechnical investigation report (wfp-hyd-xx-xx-rp-g-1001-p1.4-s2).

CUT Depth Bands

- Band 1 -0.00 - -0.20
- Band 2 -0.20 - -0.40
- Band 3 -0.40 - -0.60
- Band 4 -0.60 - -0.80
- Band 5 -0.80 - -1.00
- Band 6 -1.00 - -1.20
- Band 7 -1.20 - -1.40
- Band 8 -1.40 - -1.60
- Band 9 -1.60 - -1.80
- Band 10 -1.80 -

FILL Depth Bands

- Band 1 0.00 - 0.20
- Band 2 0.20 - 0.40
- Band 3 0.40 - 0.60
- Band 4 0.60 - 0.80
- Band 5 0.80 - 1.00
- Band 6 1.00 - 1.20
- Band 7 1.20 - 1.40
- Band 8 1.40 - 1.60
- Band 9 1.60 - 1.80
- Band 10 1.80 -

Rev	Date	Description	By	Ckd
P15	19/10/20	Updated reference to LEAP area to Southern Gateway Landscape Mound	SM	BS
P14	14/09/20	Updated swale and basin isopachytes	SM	BS
P13	10/04/20	Added isopachytes to allotment area	SM	BS
P12	27/02/20	Adjusted Sports pitch A area and removed storage area 1b	SM	BS
P11	17/10/19	Updated LEAP area and volumes	SM	BS
P10	09/10/19	Removed swale 4a amended topsoil strip volume	SM	BS
P9	30/09/19	Split storage area 1 & removed swale 4A	SM	BS
P8	20/09/19	Cut/fill removed from parcels R1 & R4	SM	BS
P7	14/08/19	Extents of leap and Sports Pitch A updated	SM	BS
P6	01/07/19	Updated LEAP area and southern link rd connections	SM	BS
P5	19/02/19	Adjusted extent of Sports Pitch A earthworks	SM	BS
P4	07/02/19	Parcel R2, R4 & Swales updated	SM	BS
P3	07/08/18	Isopachytes updated	SM	BS
P2	16/04/18	Updated Masterplan Layout to revision Y.	SM	BS
P1	16/08/17	First Issue.	SM	BS

1. Topsoil
 Volumes of 0.3m topsoil strip from each parcel, basins and swales, including volumes of topsoil reuse (assuming 0.2m reuse thickness except where indicated)

Parcel	Area (m ²)	Topsoil Strip Volume (m ³)	200mm Topsoil Reuse Volumes
Parcel R1	28500		
Parcel R2	29000		
Parcel R3	34300		
Parcel R4	41600		
Parcel R5	40076		
Parcel R6	46600		
Parcel R7	20000		
Local Centre	8000	2400	
Secondary Sch	18300		
Primary Sch	30300		4545
Sports Pitch A	12386		2477
Sports Pitch B	11237	3371	2247
South Gate Landscape Mound	17053		3410
Storage Area A	4641		781
Basin 1	13556	4067	2711
Basin 2	2850	855	570
Highway	17590	5277	
Swales	27913	8373	5421
Allotment	9014		2181
Total	408707m²	24343m³	24343m³

2. Sources and volumes of fill material
 Volumes of suitable fill material after 0.3m topsoil strip

Area	Area (m ²)	Cut Volume (m ³)
Swale 1A	1590	2848
Swale 1B	14961	5277
Swale 2A	2890	4240
Swale 2B	2441	2330
Swale 2C	5225	8124
Basin 1	13556	16943
Basin 2	2850	3291
Highway	17590	13888
Drainage Arisings		1083
Total	67605m²	58023m³
Total including Marlstone		66018m³

3. Cut & Fill Volumes
 Where reusable fill is generated the following areas have been adjusted to reduce the volume of site won material

Total reusable fill material available taken from table 2 = 66018m³

Area	Area (m ²)	Fill Volume required (m ³)
Sports Pitch A	12368	9108 (4125 Marlstone Rock)
Sports Pitch B	13595	2936
South Gate Landscape Mound	11941	51286 (3870 Marlstone Rock)
Storage Area 1a	2262	2688
Total	109216m²	66018m³

An allowance for a 0.2m topsoil layer has been allowed for in the above volumes
 Total volume of fill material taken from Table 2 = 66018m³

66018 - 66018 = 0m³

4. Marlstone Rock Volumes
 Volumes of contaminated material removed through swale excavation and topsoil strip

Area	Volume (m ³)
Swale 1B	5619
Swale 2B	1542
Southern Foul Drainage Network	834
Total Volume	7995m³
Volume stored in Sports Pitch A	4125
Volume Stored in Leap	3870
Total	7995m³

This contaminated fill has been placed within the Leap and Sports Pitch A with a minimum of 600mm cover.

5. Cut & Fill Volumes Summary

Total Volume of Topsoil Strip	24343m ³
Topsoil Reuse Volume	24343m ³
Topsoil Volume Remaining	0m ³
Site won Fill Material	66018m ³
Fill Material Reused	66018m ³
Contaminated Fill Material	7995m ³
Fill Material Remaining	0m ³

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Client: **L & Q ESTATES**

Project: **WYKHAM PARK FARM**
 Hydrock Project No: **C-04841**

Drawing Title: **PRELIMINARY CUT & FILL ANALYSIS**

Status: **SO** Purpose of Issue: **INFORMATION**

Drawn:	Checked:	Scale @ A1:	Drawn Date:	First Issue:
SM	BS	As Shown	16/08/2017	16/08/2017

Drawing No.	Revision
WPF-HYD-XX-XX-DR-C-2400	P15

Notes:
 All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications. This drawing is copyright.



LEGEND

- TOPSOIL PLACEMENT (200mm where reused)
- FILL MATERIAL (Min 600mm cover over marlstone rock volumes)
- CUT MATERIAL
- MARLSTONE ROCK (Placed in leap & sports pitch A)
- EXISTING GROUND
- TOPSOIL STRIP

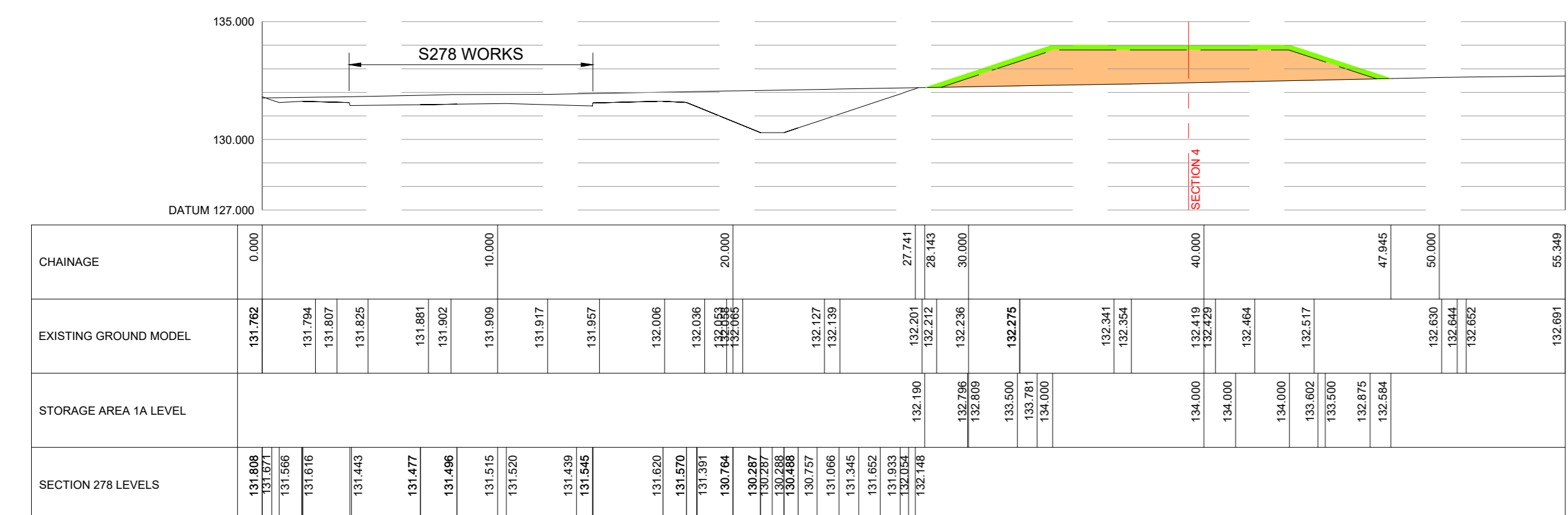
NOTES

LEAP

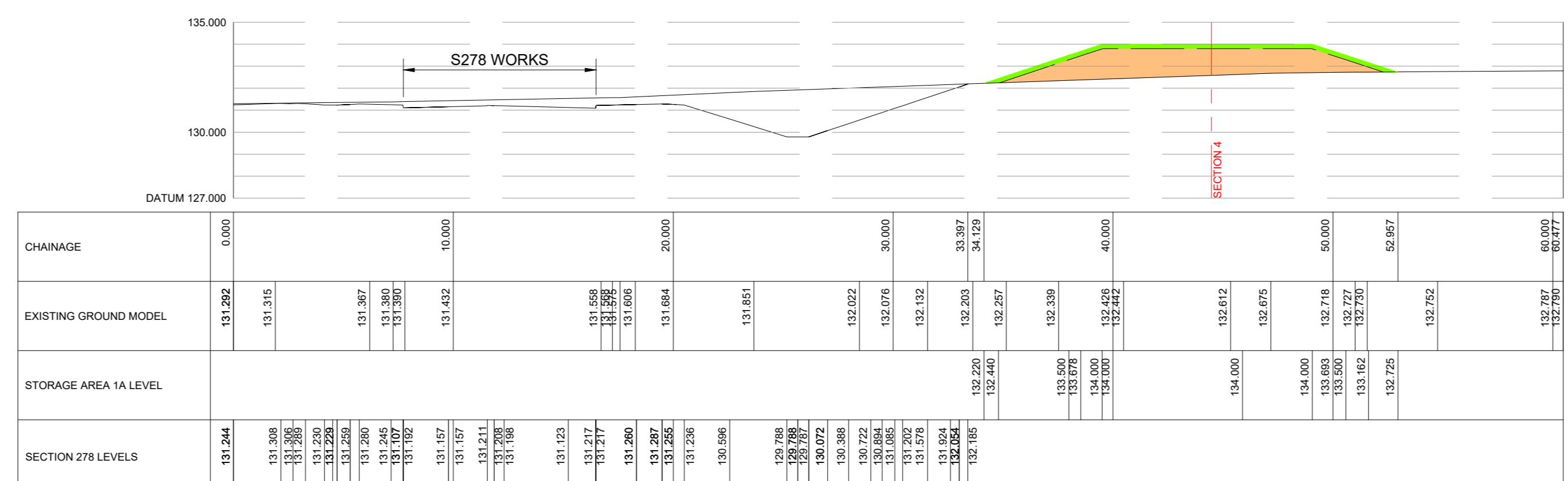
Total fill available = 51084m³
 Fill volume consists of: 2388m³ Topsoil, 3870m³ Marlstone Rock deposits, 44826m³ Suitable Material

Topsoil reuse volume = 2388m³ assuming 0.2m thickness

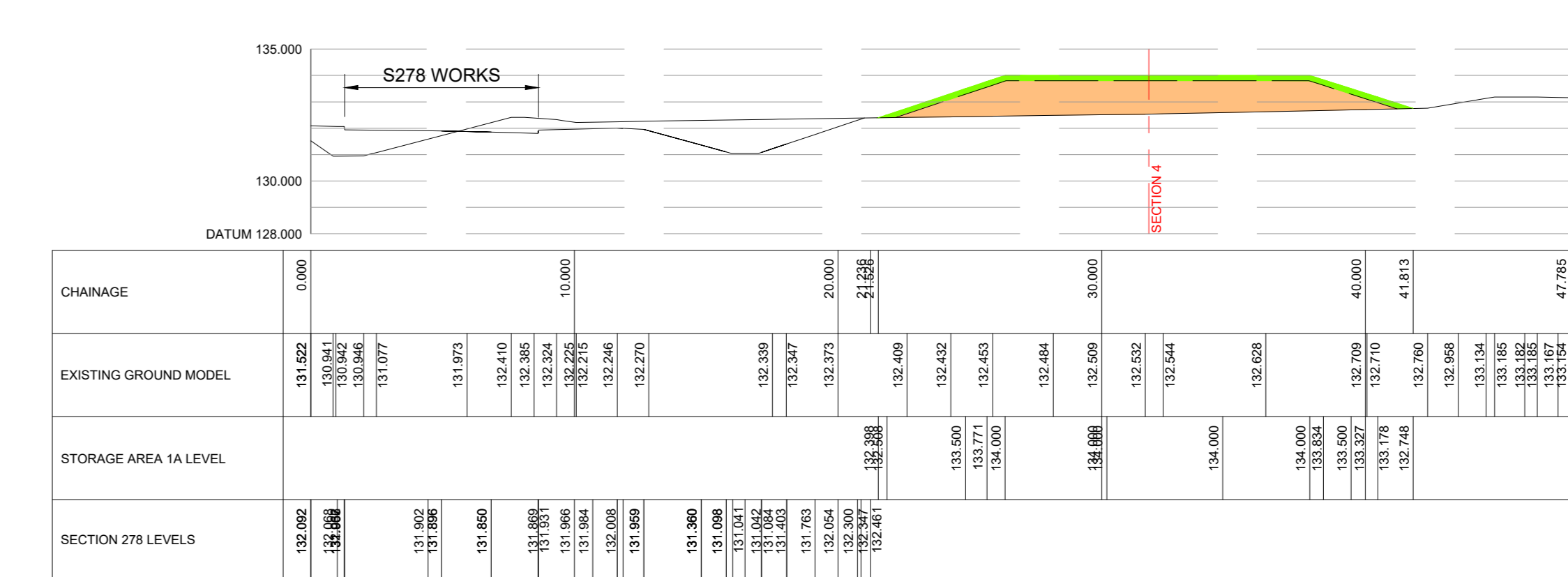
For Sports Pitch A sections refer to drawing: WPF-HYD-XX-XX-DR-C-0210
 For Sports Pitch B sections refer to drawing: WPF-HYD-XX-XX-DR-C-0211
 For site wide Cut & Fill Analysis refer to drawing: WPF-HYD-XX-XX-DR-C-2400



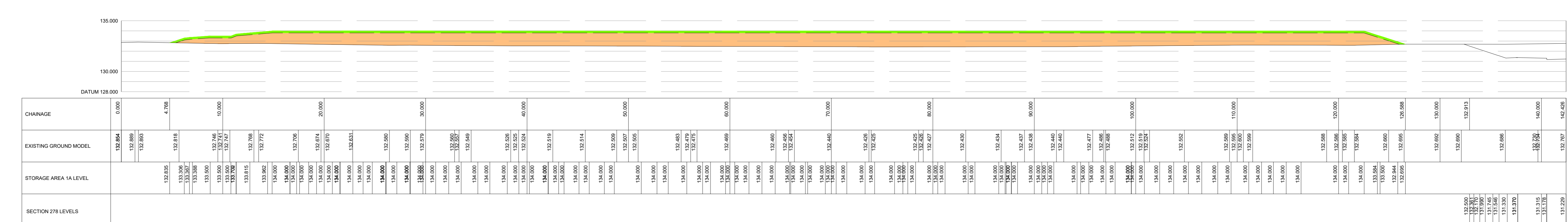
STORAGE AREA CROSS SECTION 1
SCALE 1:200



STORAGE AREA CROSS SECTION 2
SCALE 1:200



STORAGE AREA CROSS SECTION 3
SCALE 1:200

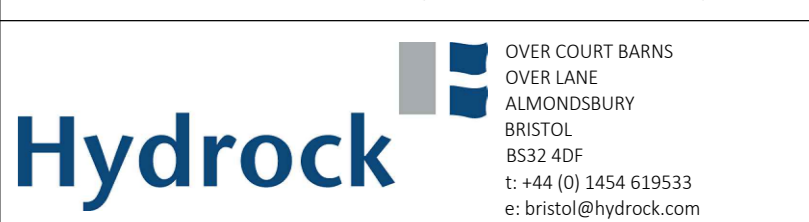


STORAGE AREA CROSS SECTION 4
SCALE 1:200

NOTES

REVISIONS

Rev	Date	Description	By	Ckd	Appd
P03	14/09/20	Updated swale profiles	MF	SM	SM
P02	27/04/20	Added greyscale layout	MF	SM	SM
P01	10/04/20	First issue	MF	SM	SM



CLIENT
L & Q ESTATES

PROJECT
**WYKHAM PARK FARM
BANBURY**

TITLE
**CUT AND FILL ANALYSIS
STORAGE AREA 1A**

HYDROCK PROJECT NO. C-04841-C	SCALE @ A0 1:1000
STATUS DESCRIPTION INFORMATION	STATUS S2
DRAWING NO. / PROJECT CODE ORIGINATOR/ZONE-LEVEL-TYPE/SCALE/NUMBER WPF-HYD-XX-XX-DR-C-0209	REVISION P03