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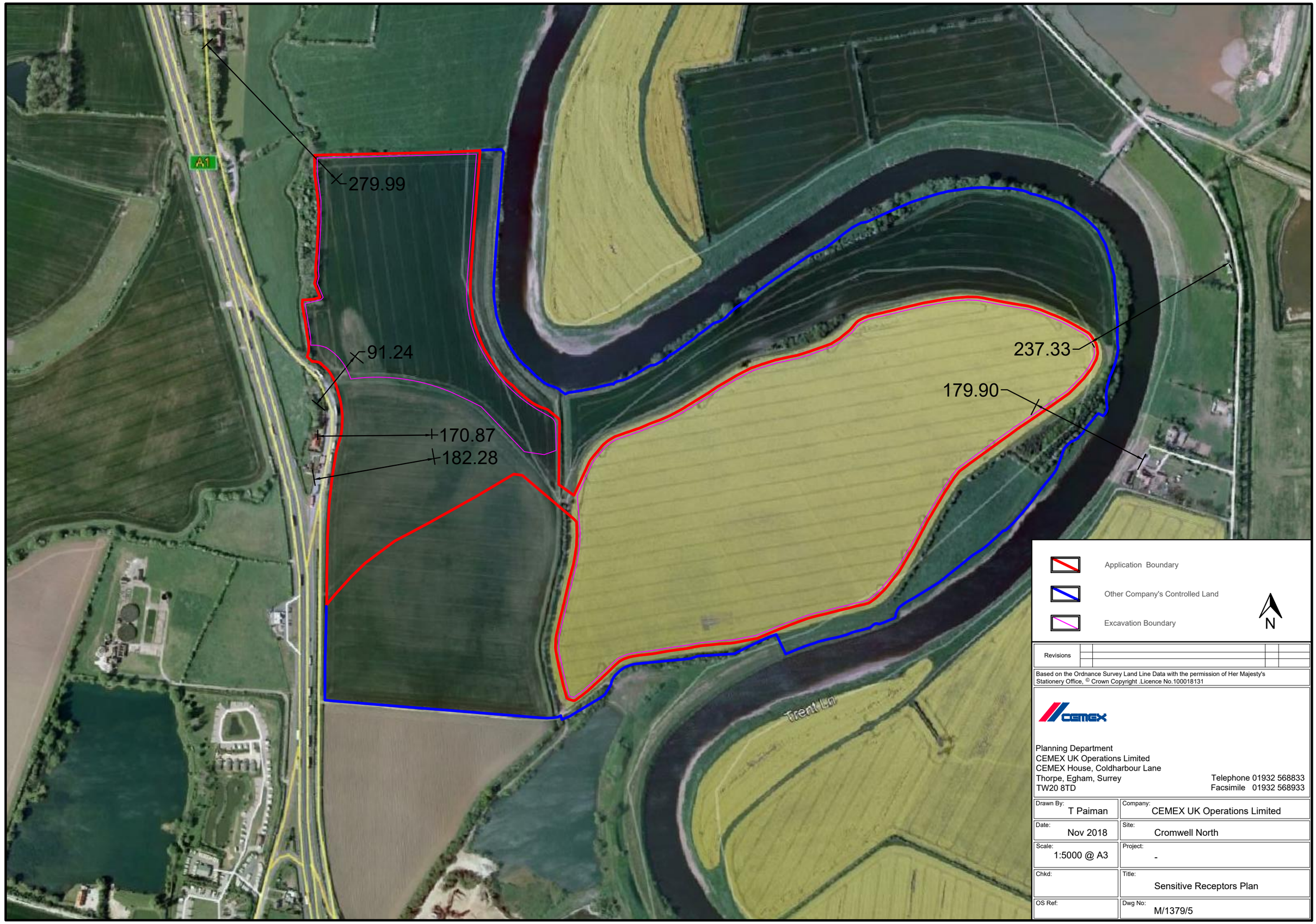

Application Boundary

Other Company's Controlled Land

Excavation Boundary

N

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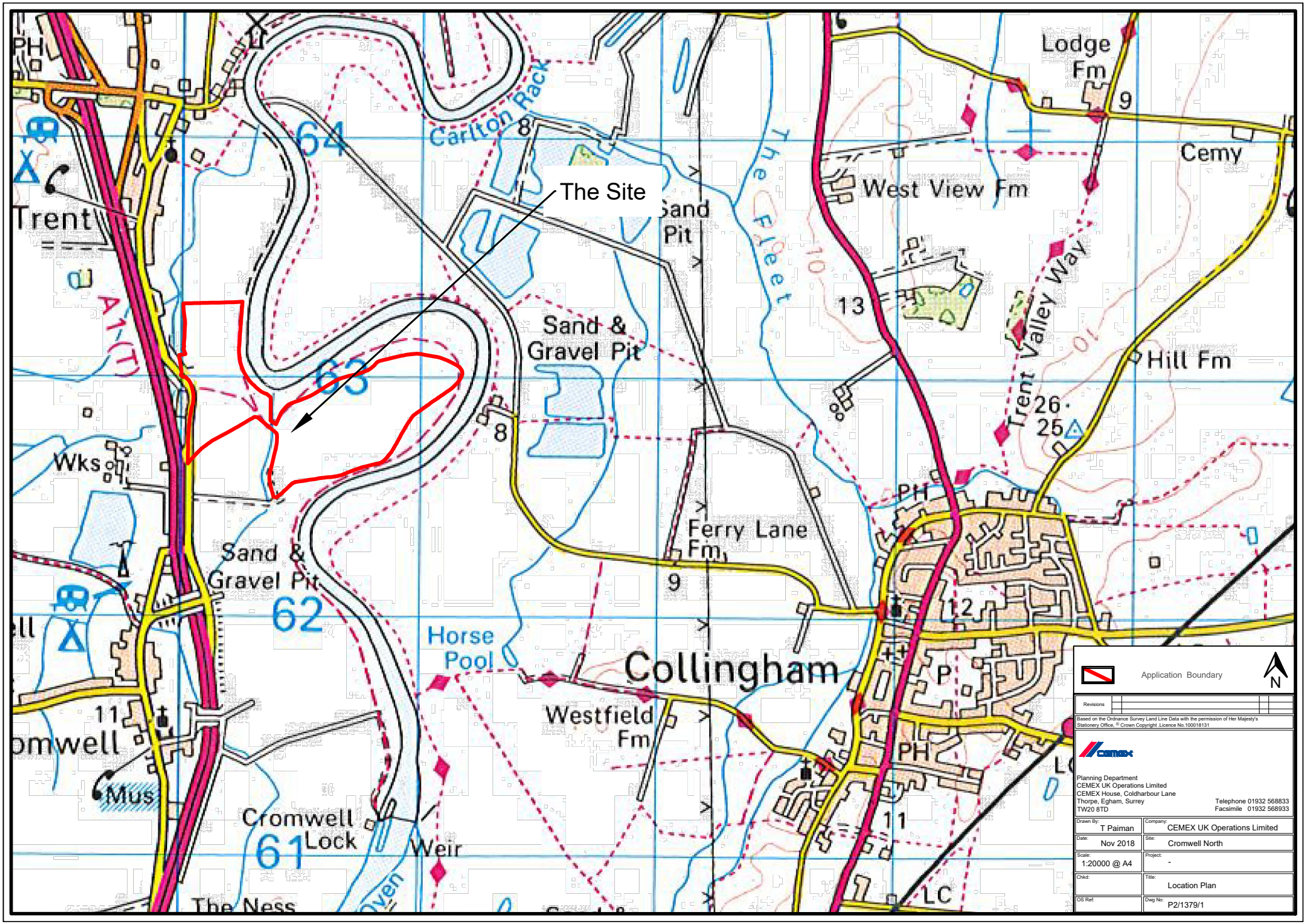
Drawn By: T Paiman	Company: CEMEX UK Operations Limited
Date: Nov 2018	Site: Cromwell North
Scale: 1:5000 @ A3	Project: -
Chkd:	Title: Sensitive Receptors Plan
OS Ref:	Dwg No: M/1379/5


The Site
Carlton Rack
Lodge Fm
Cemy
West View Fm
Trent
Sand Pit
The Fleet
Trent Valley Way
Sand & Gravel Pit
Hill Fm
Wks
Ferry Lane Fm
Sand & Gravel Pit
Horse Pool
Collingham
Westfield Fm
Cromwell Lock
Weir
The Ness
64
63
62
61
Application Boundary
N
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Drawn By: T Paiman
Company: CEMEX UK Operations Limited
Date: Nov 2018
Site: Cromwell North
Scale: 1:20000 @ A4
Project: -
Chkd:
Title: Location Plan
OS Ref:
Dwg No: P2/1379/1

Application Boundary

Other Company's Controlled Land

N

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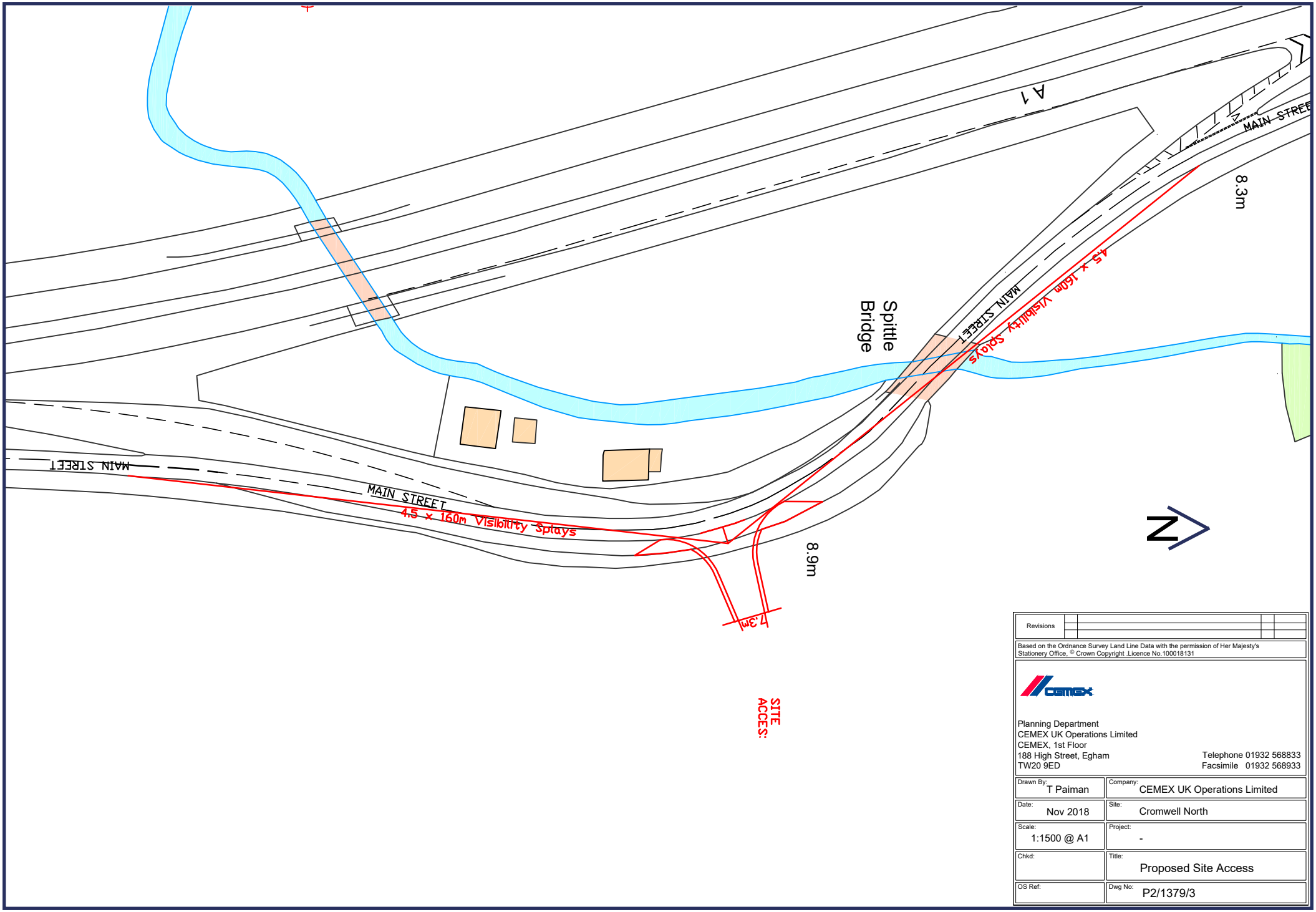
Drawn By: T Paiman	Company: CEMEX UK Operations Limited
Date: Nov 2018	Site: Cromwell North
Scale: 1:5000 @ A3	Project: -
Chkd:	Title: Site Plan
OS Ref:	Dwg No: P2/1379/2



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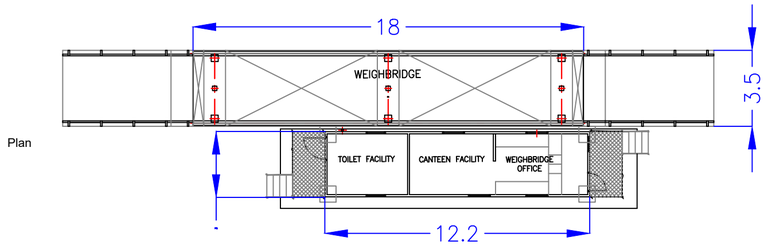
Drawn By: T Paiman	Company: CEMEX UK Operations Limited
Date: Nov 2018	Site: Cromwell North
Scale: 1:1500 @ A1	Project: -
Chkd:	Title: Proposed Site Access
OS Ref:	Dwg No: P2/1379/3

Weighbridge



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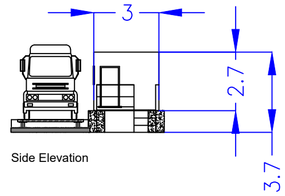
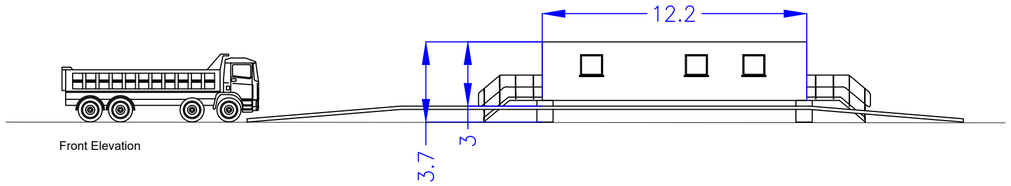


Side Elevation



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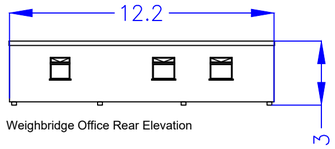
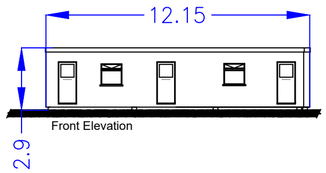


Weighbridge Office Rear Elevation

Portacabins Elevations



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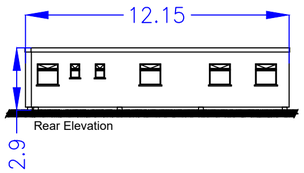
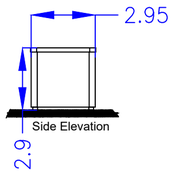
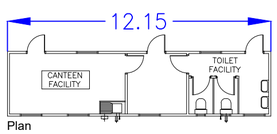


Rear Elevation

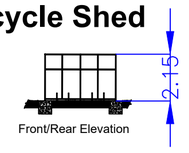


Side Elevation



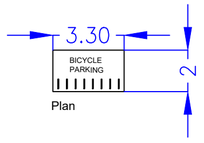
Plan

Bicycle Shed



Front/Rear Elevation

Side Elevation



Plan

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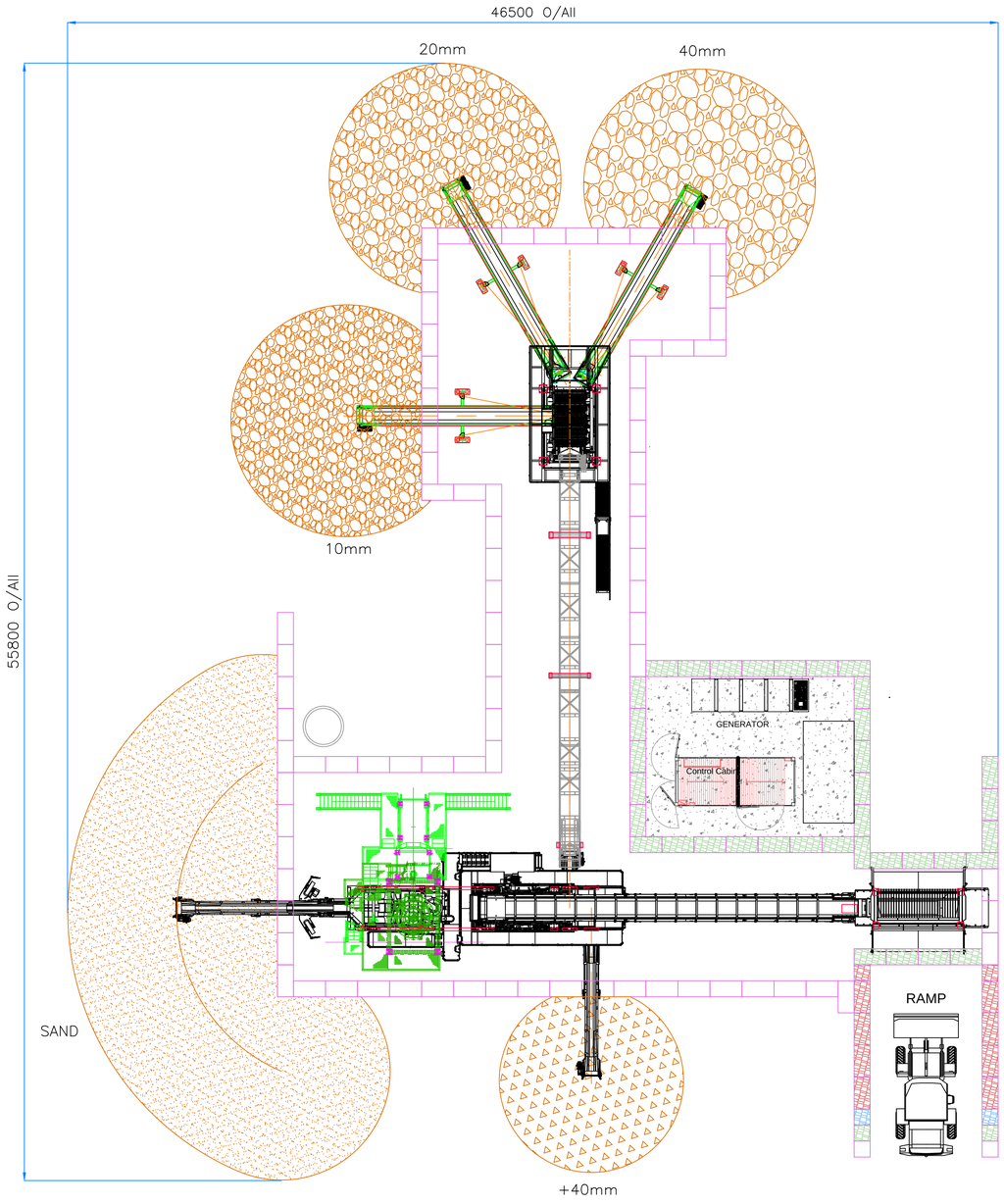
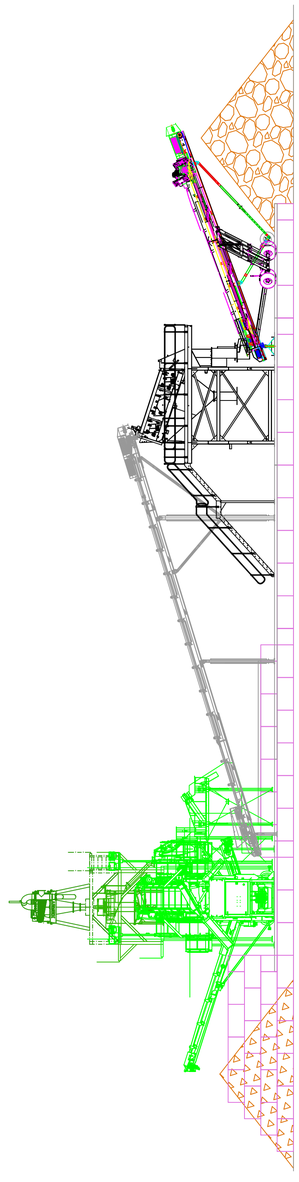
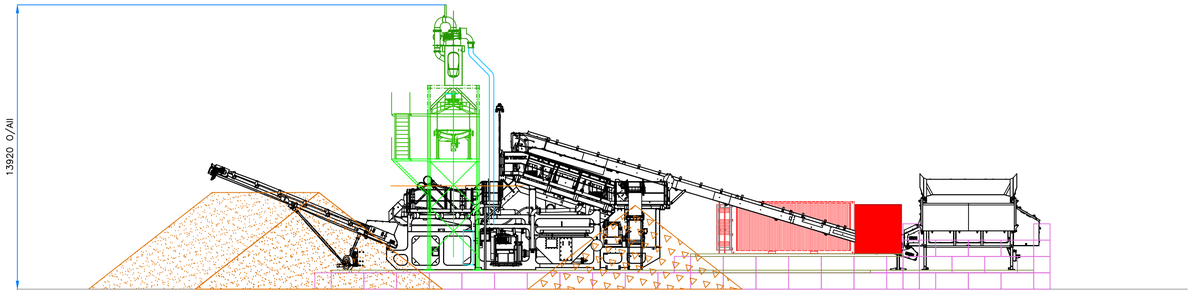
Drawn By: T Paiman	Company: CEMEX UK Operations Limited
Date: Nov 2018	Site: Cromwell - North
Scale: 1:200 @ A2	Project: -
Chkd:	Title: Proposed Weighbridge, Portacabins and Cycle Shed Plan and Elevations
OS Ref:	Dwg No: P1/1379/4







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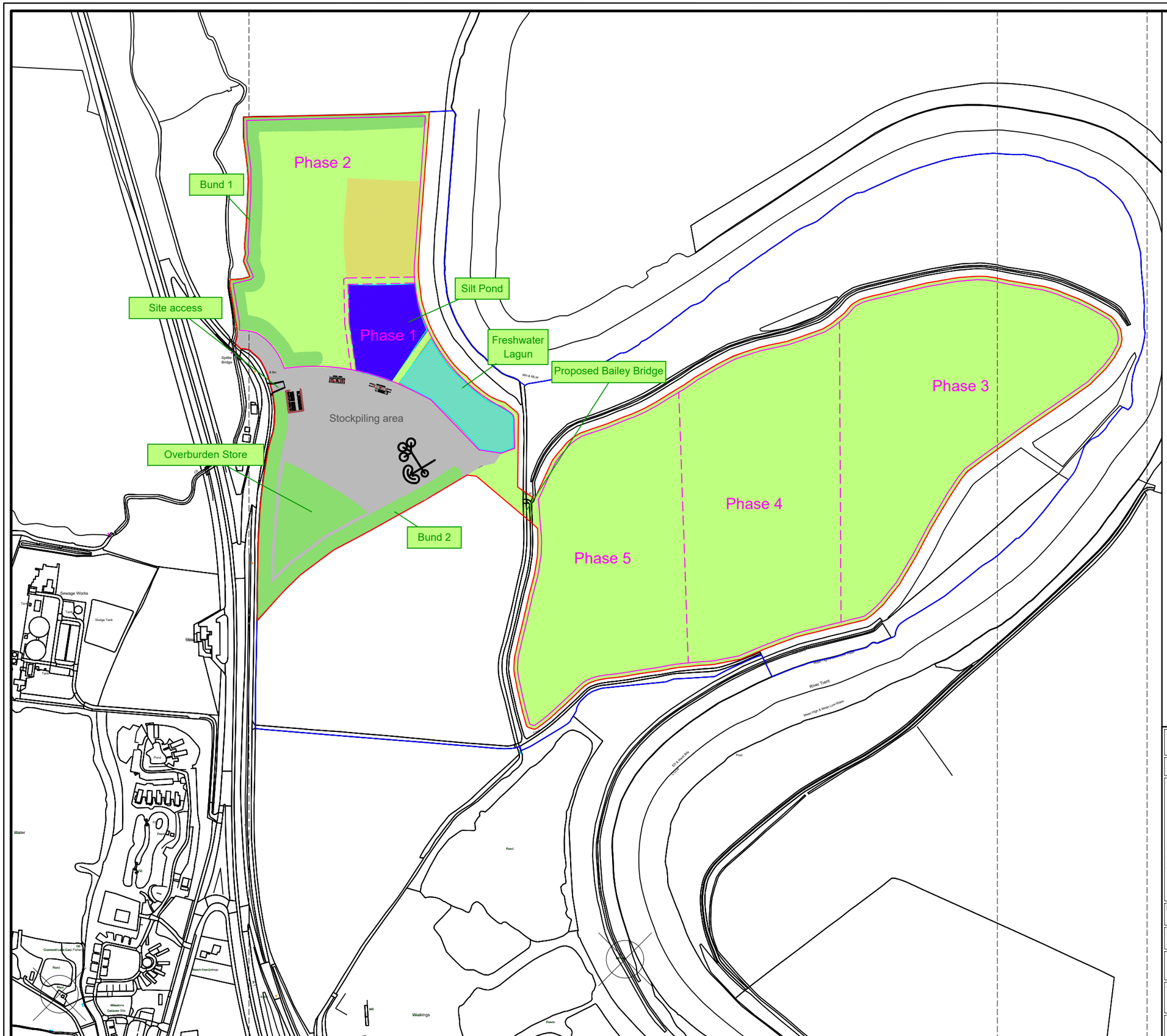
Drawn By: T Paiman	Company: CEMEX UK Operations Limited
Date: Nov 2018	Site: Cromwell North
Scale: 1:1500 @ A1	Project: -
Chkd:	Title: Proposed Plant Layout
OS Ref:	Dwg No: P2/1379/5



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Drawn By: T Paiman	Company: CEMEX UK Operations Limited
Date: Nov 2018	Site: Cromwell North
Scale: 1:5000 @ A3	Project: -
Chkd:	Title: **Conceptual Phasing Plan** Phase 1 - Initial Works
OS Ref:	Dwg No: P2/1379/6

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Drawn By: T Paiman	Company: CEMEX UK Operations Limited
Date: Nov 2018	Site: Cromwell North
Scale: 1:5000 @ A3	Project: -
Chkd:	Title: **Conceptual Phasing Plan** Phase 2 - Main Works (with restoration)
OS Ref:	Dwg No: P2/1379/6

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Drawn By: T Paiman	Company: CEMEX UK Operations Limited
Date: Nov 2018	Site: Cromwell North
Scale: 1:5000 @ A3	Project: -
Chkd:	Title: **Conceptual Phasing Plan** Phase 3 - Main Works (with restoration)
OS Ref:	Dwg No: P2/1379/6

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Drawn By: T Paiman	Company: CEMEX UK Operations Limited
Date: Nov 2018	Site: Cromwell North
Scale: 1:5000 @ A3	Project: -
Chkd:	Title: **Conceptual Phasing Plan** Phase 4 - Main Works Restoration
OS Ref:	Dwg No: P2/1379/6

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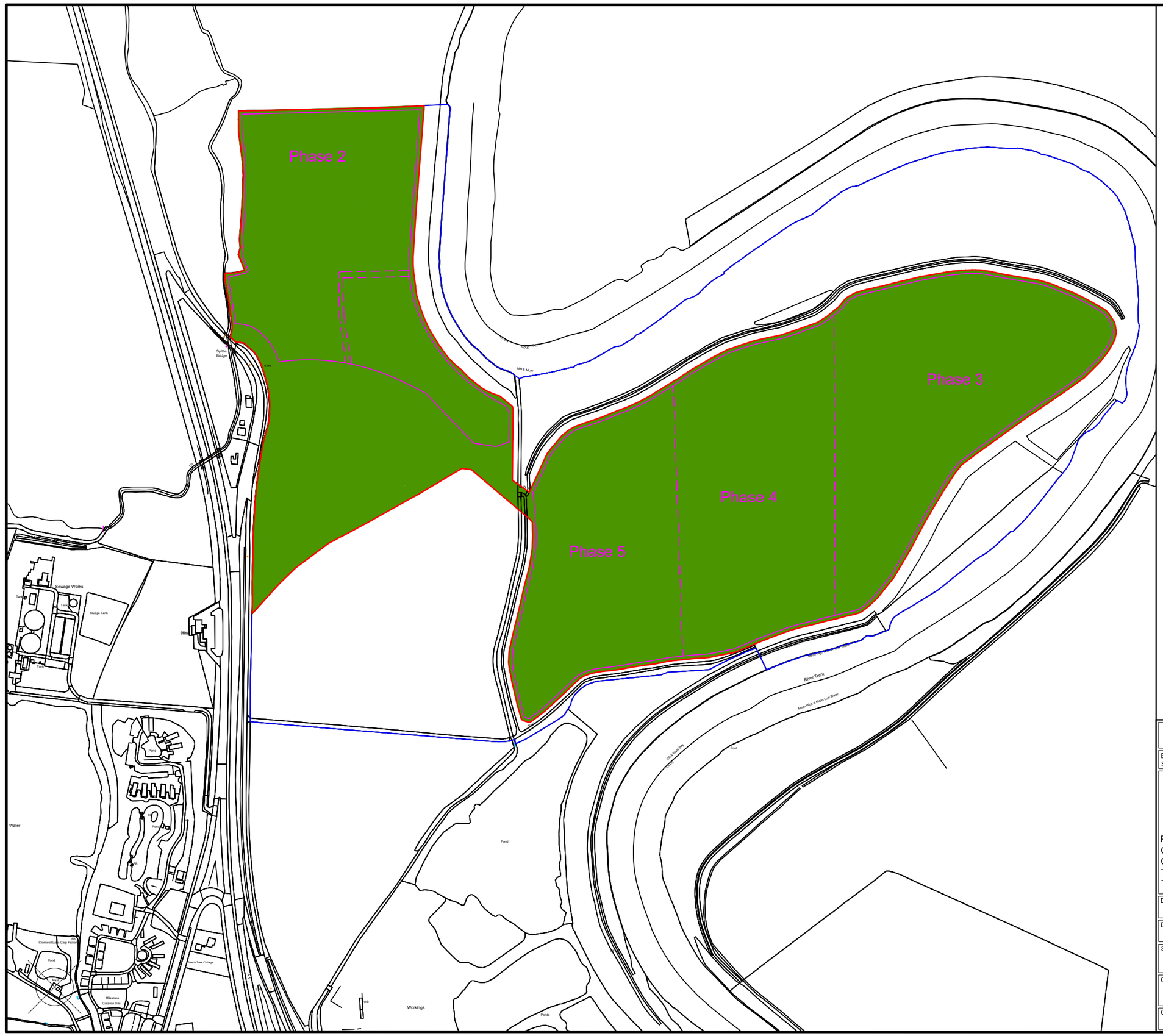
Drawn By: T Paiman	Company: CEMEX UK Operations Limited
Date: Nov 2018	Site: Cromwell North
Scale: 1:5000 @ A3	Project: -
Chkd:	Title: **Conceptual Phasing Plan** Phase 5 - Main Works (Restored)
OS Ref:	Dwg No: P2/1379/3



Application Boundary

Other Company's Controlled Land

Phasing Boundary

Extraction Boundary

Restoration Landform

N

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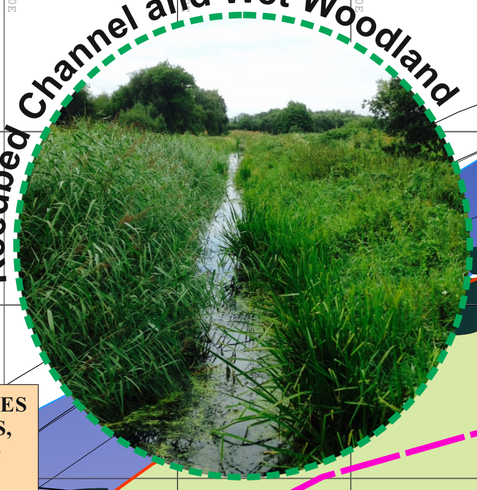
Drawn By: T Paiman	Company: CEMEX UK Operations Limited
Date: Nov 2018	Site: Cromwell North
Scale: 1:5000 @ A3	Project: -
Chkd:	Title: **Conceptual Phasing Plan** Phase 6 - Final Restoration Works
OS Ref:	Dwg No: P2/1379/6

NEW HEDGEROW PLANTING ALONG NORTH BOUNDARY

REEDBED POND WL. 3.5m. AOD approx;

EPHEMERAL PONDS CREATED TO ENCOURAGE AMPHIBIANS AND OTHER AQUATIC SPECIES; GAP IN WET WOODLAND TO ALLOW VIEW INTO WETLAND FROM PRW

Reedbed Channel and Wet Woodland



RETAINED SAND FACES FOR SAND MARTINS, KINGFISHERS AND INVERTEBRATES

NEUTRAL GRASSLAND MEADOW TO PROVIDE FEEDING AND NESTING HABITAT ON UNWORKED LAND

NEW WILLOW STANDARDS PLANTING ALONG INTERNAL DRAIN

SILT DISPOSAL AREA RESTORED TO WET WOODLAND AND REEDBED POND

OPERATIONAL AREA RESTORED TO AGRICULTURAL PRODUCTION

BROADLEAVED WOODLAND PLANTING TO REINFORCE EXISTING FEATURES AND SCREEN LAKE FROM FOOTPATH

BROADLEAVED WOODLAND SCREEN TO A1 CORRIDOR

NEW ARABLE HEADLANDS 6.0m TO HEDGE AND WOODLAND PLANTING; 8.0m TO DRAIN

RETAINED AGRICULTURAL LAND

NATURE CONSERVATION LAKE WL. 3.5mAOD approx (4.5mAOD Max) ; DEEP CHANNELS WITH WIDE MARGINAL FRINGES FOR WET WOODLAND AND REEDBED FORMATION; ISLAND FEATURES FOR FISH SPAWNING

VIEWPOINT FROM PERMISSIVE PATH

PERMISSIVE FOOTPATH LINK THROUGH NEW WETLAND COMPLEX

NEW HEDGEROW PLANTING ALONG ACCESS TRACK

BROADLEAVED WOODLAND PLANTING TO REINFORCE EXISTING FEATURES

Arable Field Margins

Meadow and Lake Marginal Edges

FORMER TARMAC EXTRACTION AREA

MARGINAL REEDBED HABITAT CREATION AND WAVE EROSION CONTROL

NEUTRAL GRASSLAND MEADOW TO PROVIDE FEEDING AND NESTING HABITAT

NATURE CONSERVATION LAKE WL. 5.0m. AOD approx.

KINGFISHER HABITAT VERTICAL EARTH BANK

SEASONALLY WET GRASSLAND

EPHEMERAL PONDS CREATED TO ENCOURAGE AMPHIBIANS AND OTHER AQUATIC SPECIES

EXISTING QUARRY: MODIFIED RESTORATION SCHEME
Submitted July 2018
Minor Additional Amendments
November 2018

MARSHY AREAS CREATED IN FORMER SILT LAGOONS

FORMER SILT LAGOONS CAPPED; RESTORATION TO NEUTRAL GRASSLAND FIELD WITH NEW HEDGEROWS

PLANTING SCHEDULE

TREES		Size	Notes	Hedgerows	Percentage Mixes: Wet Woodland - Tree Mix	Wood Edge Scrub Mix	Dry Woodland
Natural Colonisation:					(up to 10% of total plantation area - left as open ground to allow colonisation)	(up to 5% of total plantation area) - left as open ground to allow colonisation)	(up to 5% of total plantation area) - left as open ground to allow colonisation)
Fraxinus excelsior	*(Ash)*	Self Set	Not to be planted from stock unless disease free strain becomes available	To develop as standards			
Planting Material from onsite source:							
Salix fragilis	*(Crack Willow)*	0.9-1.2m setts	Taken from specimens in late winter	To develop as standards			
Stock planting:							
Alnus glutinosa	*(Alder)*	0.4-0.6m t/s	All to be		25		10
Betula pubescens	*(Downy Birch)*	0.4-0.6m t/s	planted at 2.1m c/s		15	3	10
Malus sylvestris	*(Crab Apple)*	0.4-0.6m t/s		1		2	
Quercus robur	*(Oak)*	0.35-0.45m t/s		3			25
Salix fragilis	*(Crack Willow)*	0.4-0.6m t/s		1	10		
Tilia cordata	*(Small Leaved Lime)*	0.4-0.6m t/s					5
TOTAL TREES				5	50	5	50
SHRUBS							
Stock planting:							
Acer campestre	*(Field Maple)*	0.4-0.6m t/s	All planting to be protected	5		10	15
Cornus sanguinea	*(Dogwood)*	0.4-0.6m t/s	with "Tubex" ecostarts or	5		5	
Corylus avellana	*(Hazel)*	0.4-0.6m t/s				15	10
Crataegus monogyna	*(Hawthorn)*	0.4-0.6m t/s	similar	62		25	10
Prunus spinosa	*(Blackthorn)*	0.4-0.6m t/s		10		10	5
Rhamnus carthatica	*(Purging Buckthorn)*	0.4-0.6m t/s					
Rosa canina	*(Dog Rose)*	0.4-0.6m t/s		3			
Salix aurita	*(Eared Willow)*	0.4-0.6m t/s	1.0m diameter weedfree area		10		
Salix caprea	*(Goat Willow)*	0.4-0.6m t/s	to be maintained around each	5	10	15	10
Salix cinerea	*(Sallow)*	0.4-0.6m t/s	tree and shrub for five years		15		
Salix purpurea	*(Purple Willow)*	0.4-0.6m t/s	after planting, or until canopy		5		
Salix viminalis	*(Osier)*	0.4-0.6m t/s	closes, whichever is sooner		5		
Sambucus nigra	*(Elder)*	0.4-0.6m t/s		5	5	15	
TOTAL SHRUBS				95	50	95	50
TOTAL TREES AND SHRUBS				100	100	100	100

Programme of Implementation

To be carried out in November-March planting season for bare root stock.

Prior to planting, any areas of compaction to be broken up to a depth of 450mm.

Trees and shrubs to be notch planted.

Natural colonisation will be encouraged in all parts of the restored site, including grassland, aquatic margins, hedgerows, wet woodland and lakeside areas

Maintenance

All planting to be maintained by use of glyphosate to create a 1.0m diameter circle around each tree and shrub during the five year aftercare period, or until canopies close. This will permit rapid establishment.

Two maintenance visits will be carried out per year during the aftercare period, one in spring and one in early summer.

Visits will include weed control (including noxious weeds), litter removal and checking and firming up tree shelters.

Any plants dying during the five-year aftercare period will be replaced with a size and species to be agreed with the Mineral Planning Authority to maintain 100% stocking rate during the aftercare period and to achieve a minimum 95% stocking rate (to allow for expected plant growth)upon final restoration.

Should Ash trees fail to colonise the new hedgerows, then additional Field Maple standards will be planted during Year 5 of the aftercare period.

Any plants loosened by frost or wind will be firmed up and any damaged branches will be removed using a sharp pruning knife.

At the end of the aftercare period, or before, should growth warrant it, tree shelters will be removed from the planting.

Grassland Notes:

Programme of Implementation

The optimum months for planting marginal plugs are April and May.

The optimum months for sowing grass / wildflower seed Emorsgate EM8 for wetland soils are April or September.

Maintenance: Five Year Aftercare

The grassed areas will be cut down to 100mm in March.

The grass sward will be mown or strimmed down at the end of September should grass growth warrant it

Noxious invasive weeds (eg Ragwort, thistle, dock, japanese knotweed, giant hogweed) will be controlled by Glyphosate applications

Any areas of failed grass will be re-sown in the following sowing season

KEY :

- Application Area
- Extraction Area
- Existing Vegetation and Hedgerows
- Existing Public Right of Way
- Proposed Permissive Footpath Link
- Proposed Contour (at 0.5m intervals)
- Proposed Dry Woodland or Tree Planting
- Proposed Wet Woodland
- Proposed Wood Edge or Shrub Scrub Planting
- Neutral Meadow Grassland
- Seasonally Wet Grassland } To be seeded with Wet Meadow Mix Emorsgate EM08 or similar at 2g/m2
- Aquatic Margins/Reedbed
- Open Water
- Water Level Balancing Pipe
- Potential Water Level Control - Flap Valve Connection to River/Drain Subject to EA/IDB consent
- Scrapes / Ephemeral Ponds
- Arable land reinstated or retained
- Arable Field Headland for Invertebrate Interest

Revisions

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Telephone 01788 517000

Drawn By: AW	Company: CEMEX UK Materials Limited
Date: Nov 2018	Site: CROMWELL
Scale(s): 1 : 2500	Project: SAND & GRAVEL EXTRACTION
Chkd	Title: **CONCEPT RESTORATION MASTERPLAN**
Site Ref.	Drawing No.: P2 / 1379 / 7