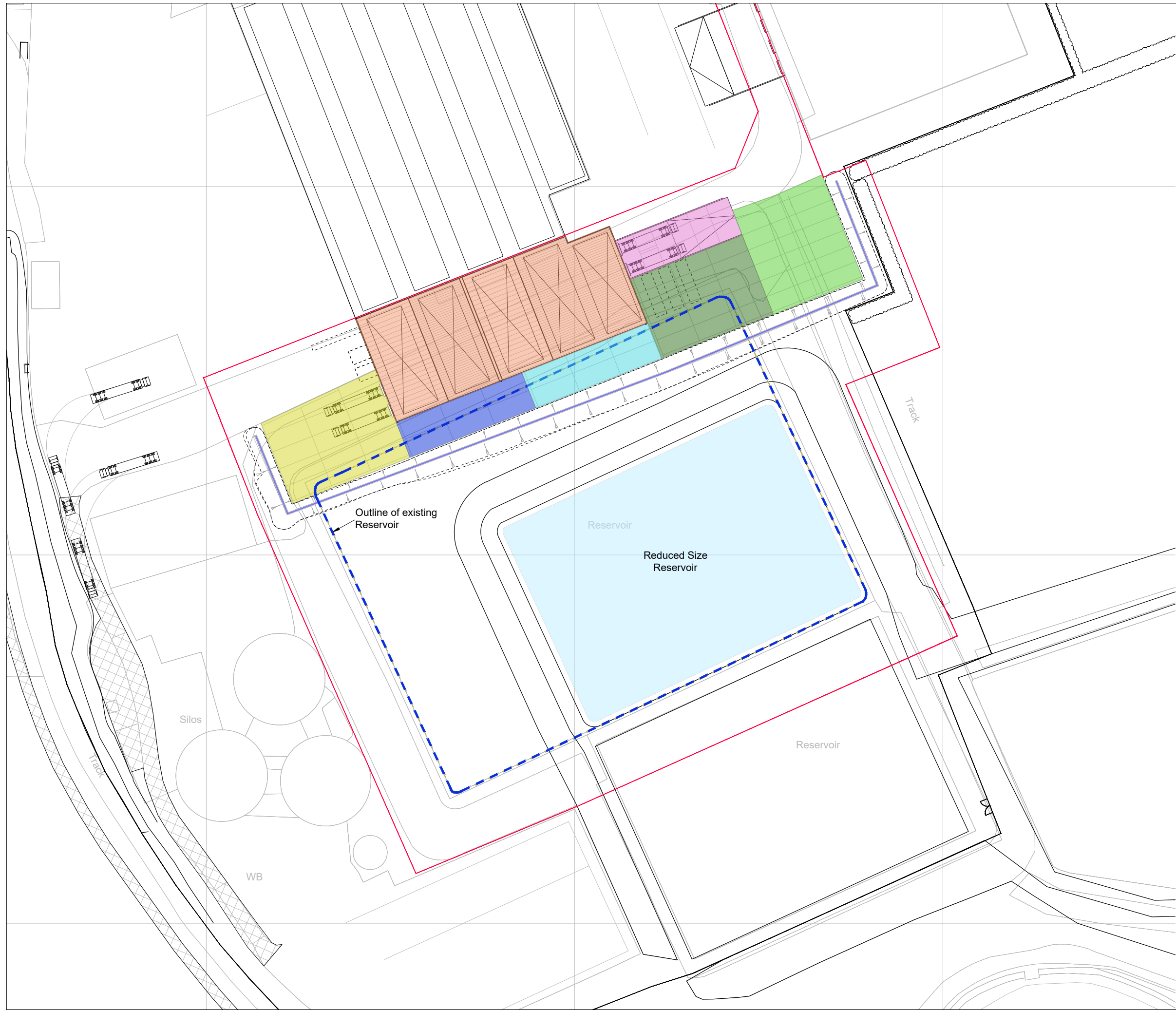


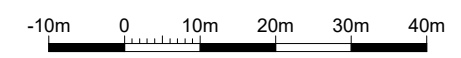
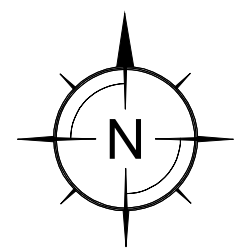
Appendix 5

**Proposed Site Layout
and Positively Drained Areas Plan**



KEY:

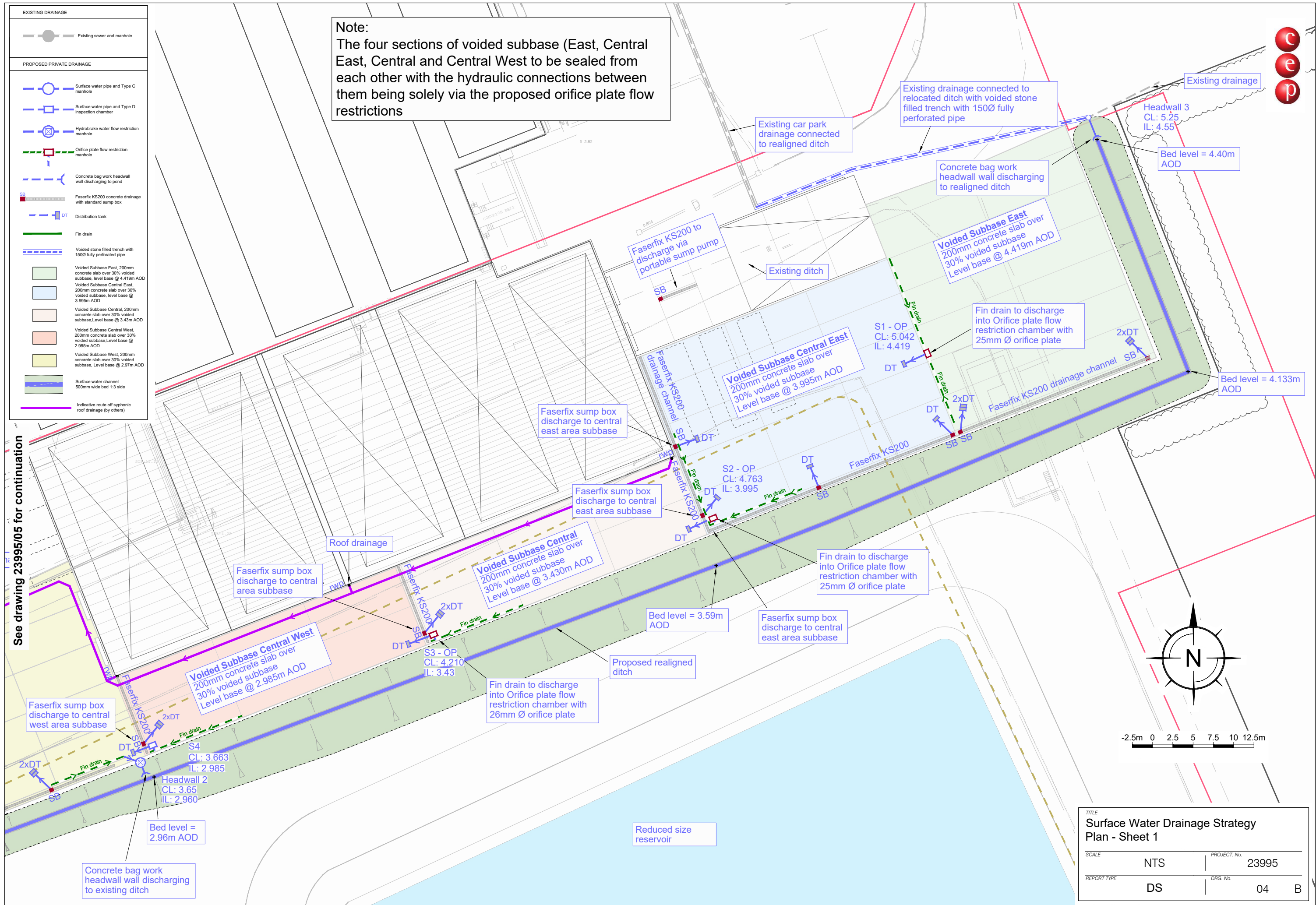
	Site Boundary 27,220m ²
	Extension to Packhouse 2,195m ²
	Hardstanding (East) 785m ²
	Hardstanding (Central East) 755m ²
	Dock Leveller 365m ²
	Hardstanding (Central) 375m ²
	Hardstanding (Central West) 375m ²
	Hardstanding (West) 835m ²
Total	5,685m ²



TITLE Proposed Site Layout And Drained Areas Plan			
SCALE	1:1,000 @ A3	PROJECT No.	23995
REPORT TYPE	DS	DRG. No.	03 B

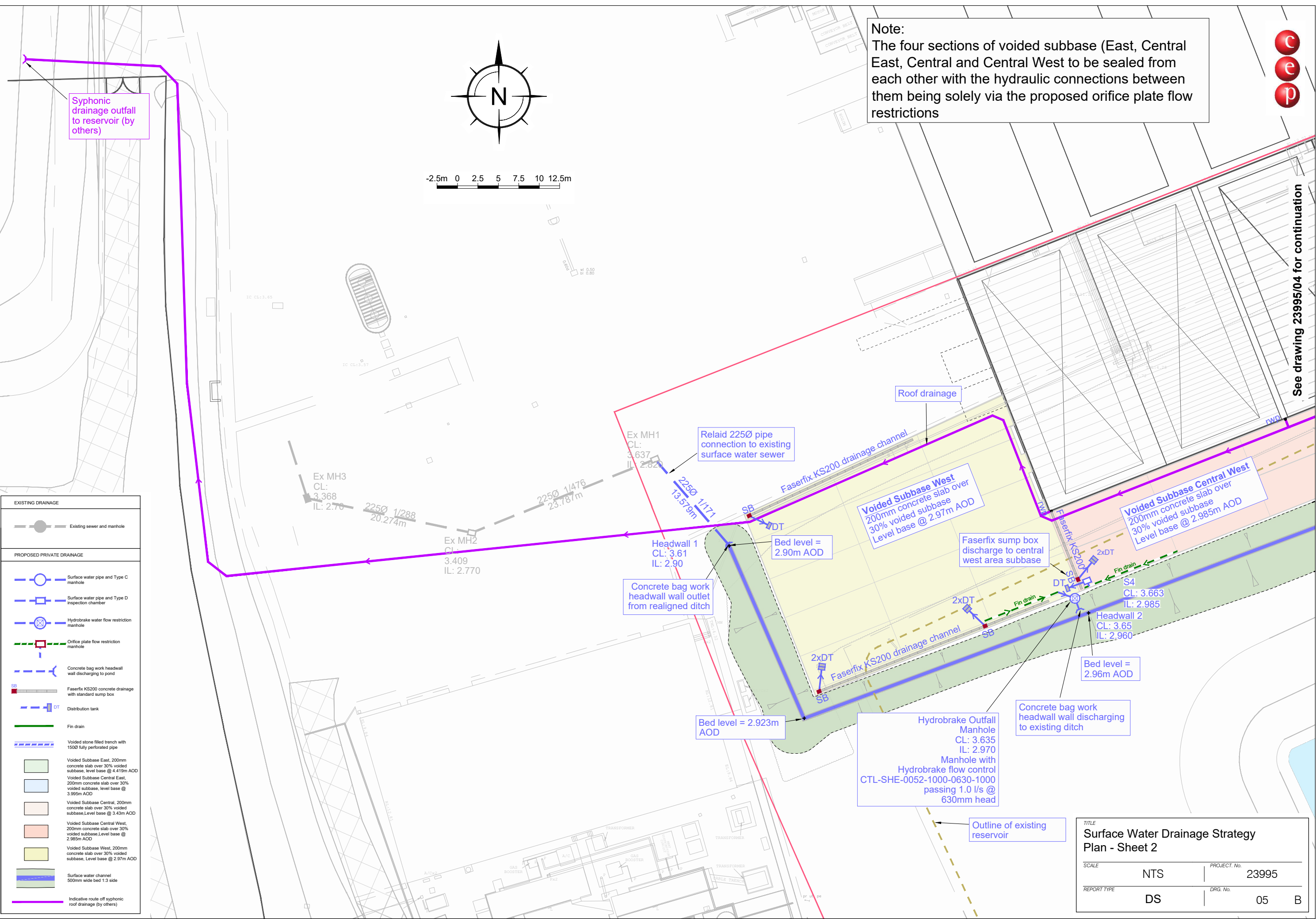
Appendix 6

**Surface Water Drainage Drawings
and Calculations**

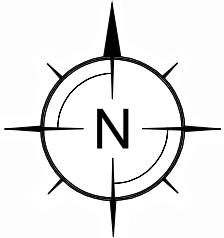


Note:
The four sections of voided subbase (East, Central East, Central and Central West) to be sealed from each other with the hydraulic connections between them being solely via the proposed orifice plate flow restrictions

TITLE			
Surface Water Drainage Strategy			
Plan - Sheet 1			
SCALE		PROJECT No.	
NTS		23995	
REPORT TYPE		DRG. No.	
DS		04 B	



Syphonic drainage outfall to reservoir (by others)



-2.5m 0 2.5 5 7.5 10 12.5m

Note:
The four sections of voided subbase (East, Central East, Central and Central West) to be sealed from each other with the hydraulic connections between them being solely via the proposed orifice plate flow restrictions



See drawing 23995/04 for continuation

EXISTING DRAINAGE

EXISTING sewer and manhole

PROPOSED PRIVATE DRAINAGE

Surface water pipe and Type C manhole

Surface water pipe and Type D inspection chamber

Hydrobrake water flow restriction manhole

Orifice plate flow restriction manhole

Concrete bag work headwall wall discharging to pond

Faserfix KS200 concrete drainage with standard sump box

Distribution tank

Fin drain

Voided stone filled trench with 1500 fully perforated pipe

Voided Subbase East, 200mm concrete slab over 30% voided subbase, level base @ 4.419m AOD

Voided Subbase Central East, 200mm concrete slab over 30% voided subbase, level base @ 3.995m AOD

Voided Subbase Central, 200mm concrete slab over 30% voided subbase, level base @ 3.43m AOD

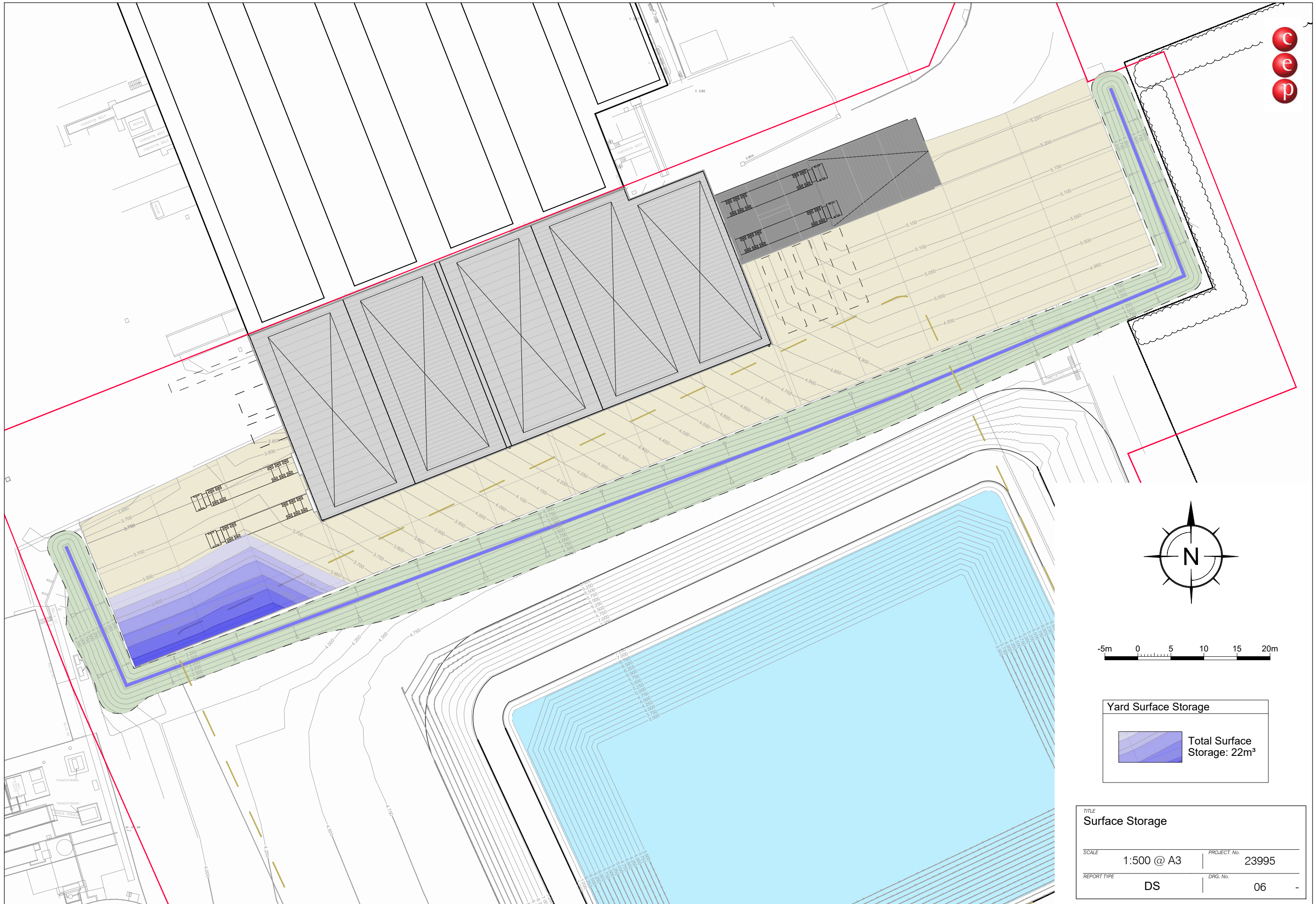
Voided Subbase Central West, 200mm concrete slab over 30% voided subbase, level base @ 2.985m AOD

Voided Subbase West, 200mm concrete slab over 30% voided subbase, level base @ 2.97m AOD

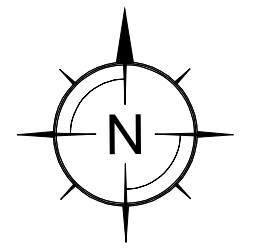
Surface water channel 500mm wide bed 1.3 side

Indicative route off syphonic roof drainage (by others)

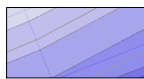
TITLE			
Surface Water Drainage Strategy Plan - Sheet 2			
SCALE	PROJECT No.		
NTS	23995		
REPORT TYPE	DRG. No.		
DS	05	B	



c
e
p



Yard Surface Storage



Total Surface Storage: 22m³

TITLE			
Surface Storage			
SCALE	1:500 @ A3	PROJECT. No.	23995
REPORT TYPE	DS	DRG. No.	06

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.100
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	150.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
Roof	0.220	5.00	5.100	1200	489221.883	99562.557	1.100	4.000

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	1.000	Drain Down Time (mins)	1440	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	0.0		

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
2	0	0	0
10	0	0	0
20	0	0	0
30	0	0	0
30	45	0	0
100	0	0	0
100	45	0	0

Node Roof Online Orifice Control

Flap Valve	x	Invert Level (m)	4.000	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.001		

Node Roof Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	4.000
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	428.0	428.0	1.000	428.0	501.3	1.001	0.0	501.3

Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
10080 minute summer	Roof	10140	4.327	0.327	0.9	140.4817	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
10080 minute summer	Roof	Orifice	0.0	0.6

Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
10080 minute summer	Roof	10140	4.371	0.371	1.0	159.1746	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
10080 minute summer	Roof	Orifice	0.0	0.6

Results for 10 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
10080 minute winter	Roof	9960	4.517	0.517	0.9	221.9209	0.0000	OK
Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)				
10080 minute winter	Roof	Orifice	0.0	0.7				

Results for 20 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
10080 minute winter	Roof	10020	4.562	0.562	1.0	241.3303	0.0000	OK
Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)				
10080 minute winter	Roof	Orifice	0.0	0.7				

Results for 30 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
10080 minute winter	Roof	10020	4.589	0.589	1.1	252.8369	0.0000	OK
Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)				
10080 minute winter	Roof	Orifice	0.0	0.7				

Results for 30 year +45% CC Critical Storm Duration. Lowest mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
10080 minute winter	Roof	10020	4.856	0.856	1.5	367.1932	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
10080 minute winter	Roof	Orifice	0.0	0.9

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
10080 minute summer	Roof	10140	4.697	0.697	1.9	299.2107	0.0000	OK
Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)				
10080 minute summer	Roof	Orifice	0.0	0.8				

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
10080 minute summer	Roof	10140	4.997	0.997	2.8	427.9630	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m ³)
10080 minute summer	Roof	Orifice	0.0	1.0



Design Settings

Rainfall Methodology	FEH-22	Maximum Time of Concentration (mins)	30.00	Preferred Cover Depth (m)	1.200
Return Period (years)	2	Maximum Rainfall (mm/hr)	150.0	Include Intermediate Ground	✓
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00	Enforce best practice design rules	x
CV	1.000	Connection Type	Level Soffits		
Time of Entry (mins)	5.00	Minimum Backdrop Height (m)	0.200		

Circular Link Type

Template	Freeform Carrier	Barrels	1	Follow Ground	x
Shape	Circular	Auto Increment (mm)	75		

Available Diameters (mm)

100 | 150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)	Invert Level (m)
Voided Subbase East	0.079	5.00	4.909	450	0.490	4.419
Voided Subbase Central East	0.112	5.00	4.725	450	0.730	3.995
Voided Subbase Central	0.038	5.00	4.180	450	0.750	3.430
Voided Subbase Central West	0.038	5.00	3.650	450	0.665	2.985
Voided Subbase West	0.084		3.650	1200	0.680	2.970

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	Voided Subbase East	Voided Subbase Central East	1.000	0.600	4.419	3.995	0.424	2.4	150	5.00	57.3
1.001	Voided Subbase Central East	Voided Subbase Central	1.000	0.600	3.995	3.430	0.565	1.8	150	5.00	57.2
1.002	Voided Subbase Central	Voided Subbase Central West	1.000	0.600	3.430	2.985	0.445	2.2	150	5.01	57.2
1.003	Voided Subbase Central West	Voided Subbase West	1.000	0.600	2.985	2.970	0.015	66.7	150	5.02	57.2

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	6.612	116.8	16.3	0.340	0.580	0.079	0.0	38	4.685
1.001	7.635	134.9	39.5	0.580	0.600	0.191	0.0	55	6.639
1.002	6.774	119.7	47.4	0.600	0.515	0.229	0.0	65	6.378
1.003	1.233	21.8	55.2	0.515	0.530	0.267	0.0	150	1.256

Simulation Settings

Rainfall Methodology	FEH-22	Winter CV	1.000	Drain Down Time (mins)	1440	Check Discharge Rate(s)	x
Rainfall Events	Singular	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0	Check Discharge Volume	x
Summer CV	1.000	Skip Steady State	x	Starting Level (m)			

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0	30	0	0	0
2	0	0	0	30	45	0	0
10	0	0	0	100	0	0	0
20	0	0	0	100	45	0	0



Node Voided Subbase East Online Orifice Control

Flap Valve	x	Invert Level (m)	4.419	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.025		

Node Voided Subbase Central East Online Orifice Control

Flap Valve	x	Invert Level (m)	3.995	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.025		

Node Voided Subbase Central Online Orifice Control

Flap Valve	x	Invert Level (m)	3.430	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.026		

Node Voided Subbase West Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	2.970	Product Number	CTL-SHE-0052-1000-0630-1000
Design Depth (m)	0.630	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.0	Min Node Diameter (mm)	1200

Node Voided Subbase East Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	4.419
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	1065

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	785.0	785.0	0.290	785.0	813.8	0.291	0.0	813.8

Node Voided Subbase Central East Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	3.995
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	



Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	755.0	755.0	0.530	755.0	806.6	0.531	0.0	806.6

Node Voided Subbase Central Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	3.430
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	375.0	375.0	0.550	375.0	412.8	0.551	0.0	412.8

Node Voided Subbase Central West Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	2.985
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	375.0	375.0	0.450	375.0	405.9	0.451	0.0	405.9

Node Voided Subbase West Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	2.970
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	835.0	835.0	0.330	835.0	868.8	0.331	0.0	868.8

Node Voided Subbase West Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	3.500
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	1620



Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	145.0	145.0	0.150	145.0	151.4	0.151	0.0	151.4



Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	Voided Subbase East	930	4.477	0.058	1.0	13.7219	0.0000	OK
10080 minute summer	Voided Subbase Central East	5820	4.114	0.119	0.7	26.9458	0.0000	OK
10080 minute summer	Voided Subbase Central	6240	3.560	0.130	0.6	14.6321	0.0000	OK
2160 minute summer	Voided Subbase Central West	1380	3.038	0.053	0.8	5.9671	0.0000	OK
2160 minute summer	Voided Subbase West	1380	3.038	0.068	1.9	17.0961	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
1440 minute summer	Voided Subbase East	1.000	0.3	
10080 minute summer	Voided Subbase Central East	1.001	0.4	
10080 minute summer	Voided Subbase Central	1.002	0.5	
7200 minute winter	Voided Subbase Central West	1.003	1.4	
2160 minute summer	Voided Subbase West	Hydro-Brake®	0.8	91.3



Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	Voided Subbase East	525	4.493	0.074	2.1	17.4143	0.0000	OK
8640 minute summer	Voided Subbase Central East	5160	4.141	0.146	0.8	33.1335	0.0000	OK
10080 minute summer	Voided Subbase Central	6420	3.587	0.157	0.6	17.7186	0.0000	SURCHARGED
1440 minute summer	Voided Subbase Central West	960	3.052	0.067	0.9	7.5724	0.0000	OK
1440 minute summer	Voided Subbase West	960	3.052	0.082	2.1	20.6784	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
720 minute summer	Voided Subbase East	1.000	0.3	
8640 minute summer	Voided Subbase Central East	1.001	0.5	
10080 minute summer	Voided Subbase Central	1.002	0.5	
120 minute summer	Voided Subbase Central West	1.003	1.4	
1440 minute summer	Voided Subbase West	Hydro-Brake®	0.9	94.5



Results for 10 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	Voided Subbase East	352	4.538	0.119	3.9	28.1218	0.0000	OK
1440 minute winter	Voided Subbase Central East	1380	4.219	0.224	2.1	50.7448	0.0000	SURCHARGED
10080 minute summer	Voided Subbase Central	6780	3.653	0.223	0.8	25.0981	0.0000	SURCHARGED
720 minute summer	Voided Subbase Central West	675	3.102	0.117	2.0	13.2032	0.0000	OK
720 minute summer	Voided Subbase West	675	3.102	0.132	4.1	33.2547	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
360 minute winter	Voided Subbase East	1.000	0.4	
1440 minute winter	Voided Subbase Central East	1.001	0.6	
10080 minute summer	Voided Subbase Central	1.002	0.6	
30 minute summer	Voided Subbase Central West	1.003	2.7	
720 minute summer	Voided Subbase West	Hydro-Brake®	1.0	100.7



Results for 20 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	Voided Subbase East	456	4.557	0.138	3.5	32.5391	0.0000	OK
1440 minute winter	Voided Subbase Central East	1410	4.253	0.258	2.4	58.4797	0.0000	SURCHARGED
10080 minute summer	Voided Subbase Central	6900	3.680	0.250	0.8	28.1738	0.0000	SURCHARGED
960 minute winter	Voided Subbase Central West	915	3.126	0.141	1.4	15.8906	0.0000	OK
960 minute winter	Voided Subbase West	915	3.126	0.156	2.8	39.2539	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
480 minute winter	Voided Subbase East	1.000	0.5	
1440 minute winter	Voided Subbase Central East	1.001	0.6	
10080 minute summer	Voided Subbase Central	1.002	0.7	
30 minute summer	Voided Subbase Central West	1.003	3.2	
960 minute winter	Voided Subbase West	Hydro-Brake®	1.0	118.3



Results for 30 year Critical Storm Duration. Lowest mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	Voided Subbase East	464	4.570	0.151	3.8	35.5465	0.0000	SURCHARGED
1440 minute winter	Voided Subbase Central East	1410	4.275	0.280	2.6	63.5530	0.0000	SURCHARGED
4320 minute summer	Voided Subbase Central	3660	3.695	0.265	1.0	29.8379	0.0000	SURCHARGED
720 minute winter	Voided Subbase Central West	705	3.140	0.155	1.8	17.4715	0.0000	SURCHARGED
720 minute winter	Voided Subbase West	705	3.140	0.170	3.5	42.7831	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
480 minute winter	Voided Subbase East	1.000	0.5	
1440 minute winter	Voided Subbase Central East	1.001	0.7	
4320 minute summer	Voided Subbase Central	1.002	0.7	
30 minute summer	Voided Subbase Central West	1.003	3.5	
720 minute winter	Voided Subbase West	Hydro-Brake®	1.0	110.8



Results for 30 year +45% CC Critical Storm Duration. Lowest mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	Voided Subbase East	464	4.644	0.225	5.5	52.9245	0.0000	FLOOD RISK
2160 minute winter	Voided Subbase Central East	2100	4.415	0.420	2.7	95.1037	0.0000	SURCHARGED
10080 minute summer	Voided Subbase Central	7260	3.834	0.404	1.1	45.5281	0.0000	SURCHARGED
10080 minute summer	Voided Subbase Central West	8100	3.294	0.309	1.1	34.7745	0.0000	SURCHARGED
10080 minute summer	Voided Subbase West	8100	3.294	0.324	1.7	81.4239	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
480 minute winter	Voided Subbase East	1.000	0.6	
2160 minute winter	Voided Subbase Central East	1.001	0.8	
10080 minute summer	Voided Subbase Central	1.002	0.9	
15 minute summer	Voided Subbase Central West	1.003	4.5	
120 minute summer	Voided Subbase West	Hydro-Brake®	1.0	89.3



Results for 100 year Critical Storm Duration. Lowest mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	Voided Subbase East	464	4.609	0.190	4.7	44.8589	0.0000	FLOOD RISK
1440 minute winter	Voided Subbase Central East	1410	4.352	0.357	3.1	80.8853	0.0000	SURCHARGED
4320 minute summer	Voided Subbase Central	4200	3.761	0.331	1.2	37.2680	0.0000	SURCHARGED
1440 minute winter	Voided Subbase Central West	1410	3.194	0.209	1.5	23.5442	0.0000	SURCHARGED
1440 minute winter	Voided Subbase West	1410	3.194	0.224	2.7	56.3415	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
480 minute winter	Voided Subbase East	1.000	0.6	
1440 minute winter	Voided Subbase Central East	1.001	0.8	
4320 minute summer	Voided Subbase Central	1.002	0.8	
30 minute summer	Voided Subbase Central West	1.003	4.1	
240 minute summer	Voided Subbase West	Hydro-Brake®	1.0	93.8



Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	Voided Subbase East	690	4.705	0.286	4.9	67.4610	0.0000	FLOOD RISK
2160 minute winter	Voided Subbase Central East	2040	4.517	0.522	3.7	118.2280	0.0000	FLOOD RISK
5760 minute summer	Voided Subbase Central	5580	4.029	0.599	2.7	62.0265	0.0000	FLOOD RISK
10080 minute summer	Voided Subbase Central West	8580	3.627	0.642	1.3	50.7833	0.0000	FLOOD RISK
10080 minute summer	Voided Subbase West	8580	3.626	0.656	1.9	101.9437	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
480 minute winter	Voided Subbase East	1.000	3.0	
10080 minute summer	Voided Subbase Central East	1.001	2.7	
2160 minute summer	Voided Subbase Central	1.002	6.1	
15 minute summer	Voided Subbase Central West	1.003	5.3	
10080 minute summer	Voided Subbase West	Hydro-Brake®	1.0	513.1