

R:\MCW1088 - BAM Castlelake Residential D\p18.0 Drawings\DR\MCW1088-RPS-00-XX-DR-C-DR0201.dwg



Client

General Notes

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- (v) All Levels refer to Ordnance Survey Datum, Malin Head.

Rev	Date	Dim	App	Amendment / Issue
S4 P01	08/06/22	DR	DR	Issued for Planning
S3 P03	03/06/22	DR	DR	Issue for Review and Comment
P01	26/10/21	DR	DR	Pre-Planning Submission










Model File Identifier
MCW1088-RPS-00-XX-DR-C-DR0201

Scale	1:2000 @ A1 1:4000 @ A3
Created on	15/09/2021
Sheets	01 of 09

Project	Castlelake SHD
Title	Proposed Storm Infrastructure Key Plan
Status	S4
Rev	P01

LEGEND:

-  Existing Storm Sewer
-  Existing Storm Manhole
-  Existing Storm Sewer to be Decommissioned
-  Proposed Storm Sewer
-  Proposed Storm Manhole
-  Proposed Road Gully
-  Proposed Twin Road Gullies



Train Line

To Cork City, Little-Island, Glountaune



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Rev	Date	Dim	Amendment / Issue	App
S4 P01	08/06/22	DR	Issued for Planning	
S3 P03	03/06/22	DR	Issue for Review and Comment	
P01	26/10/21	DR	Pre-Planning Submission	



Model File Identifier
MCW1088-RPS-00-XX-DR-C-DR0201

Scale 1:500 @ A1 1:1000 @ A3	Project Castlelake SHD
Created on 15/09/2021	Title Proposed Storm Infrastructure Drainage Layout (1 of 8)
Sheets 02 of 09	File Identifier MCW1088-RPS-00-XX-DR-C-DR0201-02
Rev S4	App P01



Train Line

Train Line

PROPOSED INFILTRATION TRENCH TO ALLOW FOR SURFACE WATER DRAINAGE AT LOWER ROAD LEVEL MEASURING 2.5m x 14m x 2.3m DEEP -INVERT LEVEL = 2.000mOD

Apartment A7
FFL: +8.00m

ATTENUATION TANK 1
PROPOSED GEO-CELLULAR ATTENUATION TANK MEASURING 600m² x 1.8m DEEP @ 95% VOIDS PROVIDING 900m³ OF STORAGE FOR THE 1:100 YEAR EVENT -INVERT LEVEL = 4.588mOD








VORTEX FLOW CONTROL MANHOLE LIMITING OUTFLOW TO 16.1l/s

ATTENUATION TANK 2
PROPOSED GEO-CELLULAR OFFLINE ATTENUATION TANK MEASURING 230m² x 1.8m DEEP @ 95% VOIDS PROVIDING 345m³ OF STORAGE FOR THE 1:100 YEAR EVENT -INVERT LEVEL = 3.614mOD

VORTEX FLOW CONTROL MANHOLE LIMITING OUTFLOW TO 5.9l/s

Creche
FFL: +5.80m

LEGEND:

-  Existing Storm Sewer
-  Existing Storm Manhole
-  Existing Storm Sewer to be Decommissioned
-  Proposed Storm Sewer
-  Proposed Storm Manhole
-  Proposed Road Gully
-  Proposed Twin Road Gullies

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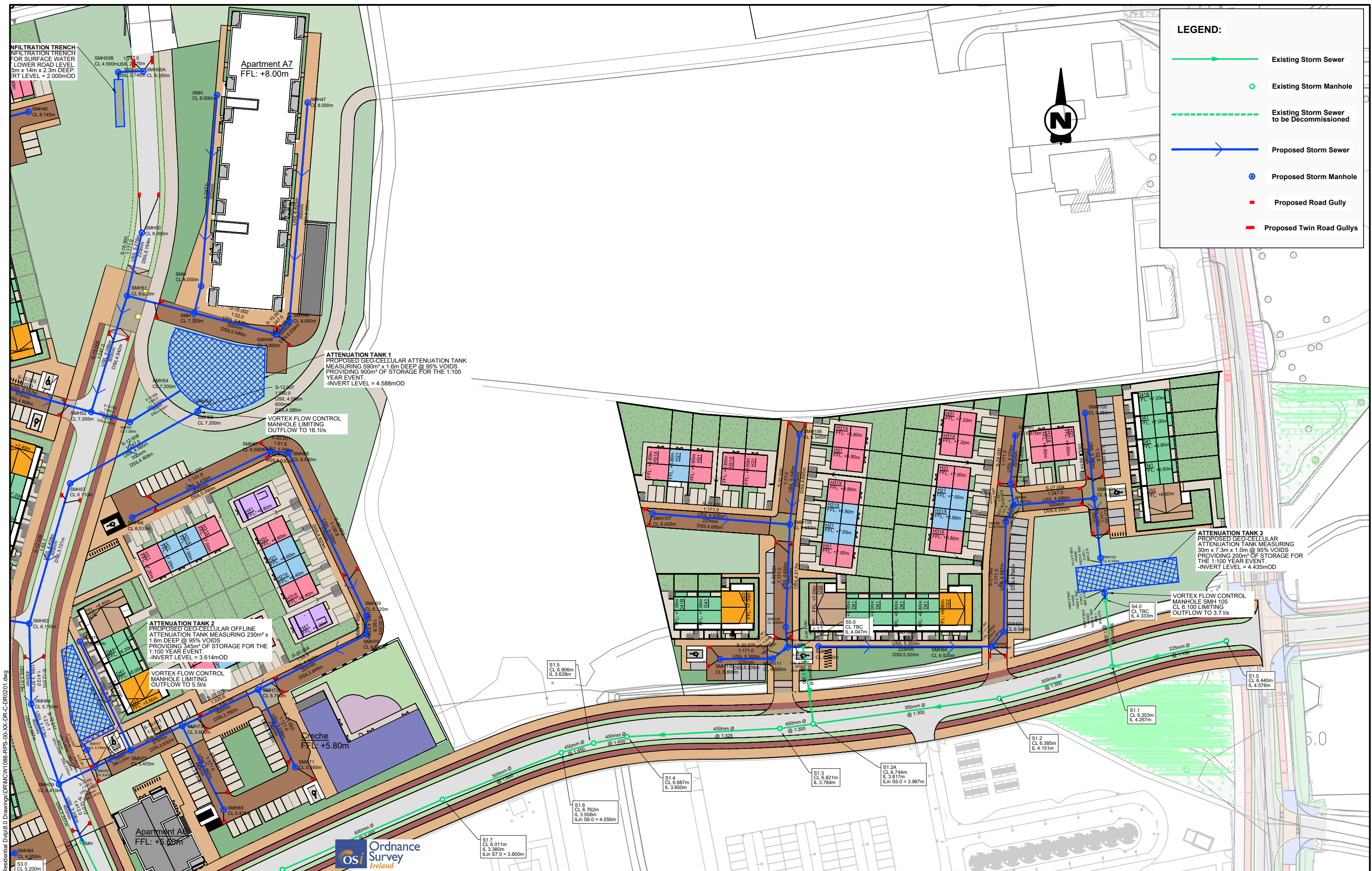
(v) All Levels refer to Ordnance Survey Datum, Main Head.

Rev	Date	Drawn/Checked	Amendment / Issue	App
S4 P01	08/06/22	RPS	Issued for Planning	
S3 P03	03/06/22	RPS	Issue for Review and Comment	
P01	26/10/21	RPS	Pre-Planning Submission	



Model File Identifier
MCW1088-RPS-00-XX-DR-C-DR0201

Scale 1:500 @ A1 1:1000 @ A3	Project Castlelake SHD
Created on 15/09/2021	Title Proposed Storm Infrastructure Drainage Layout (2 of 8)
Sheets 03 of 09	Rev P01
File Identifier MCW1088-RPS-00-XX-DR-C-DR0201-03	Status S4



LEGEND:

- Existing Storm Sewer
- Existing Storm Manhole
- - - Existing Storm Sewer to be Decommissioned
- Proposed Storm Sewer
- Proposed Storm Manhole
- Proposed Road Gully
- Proposed Twin Road Gullies



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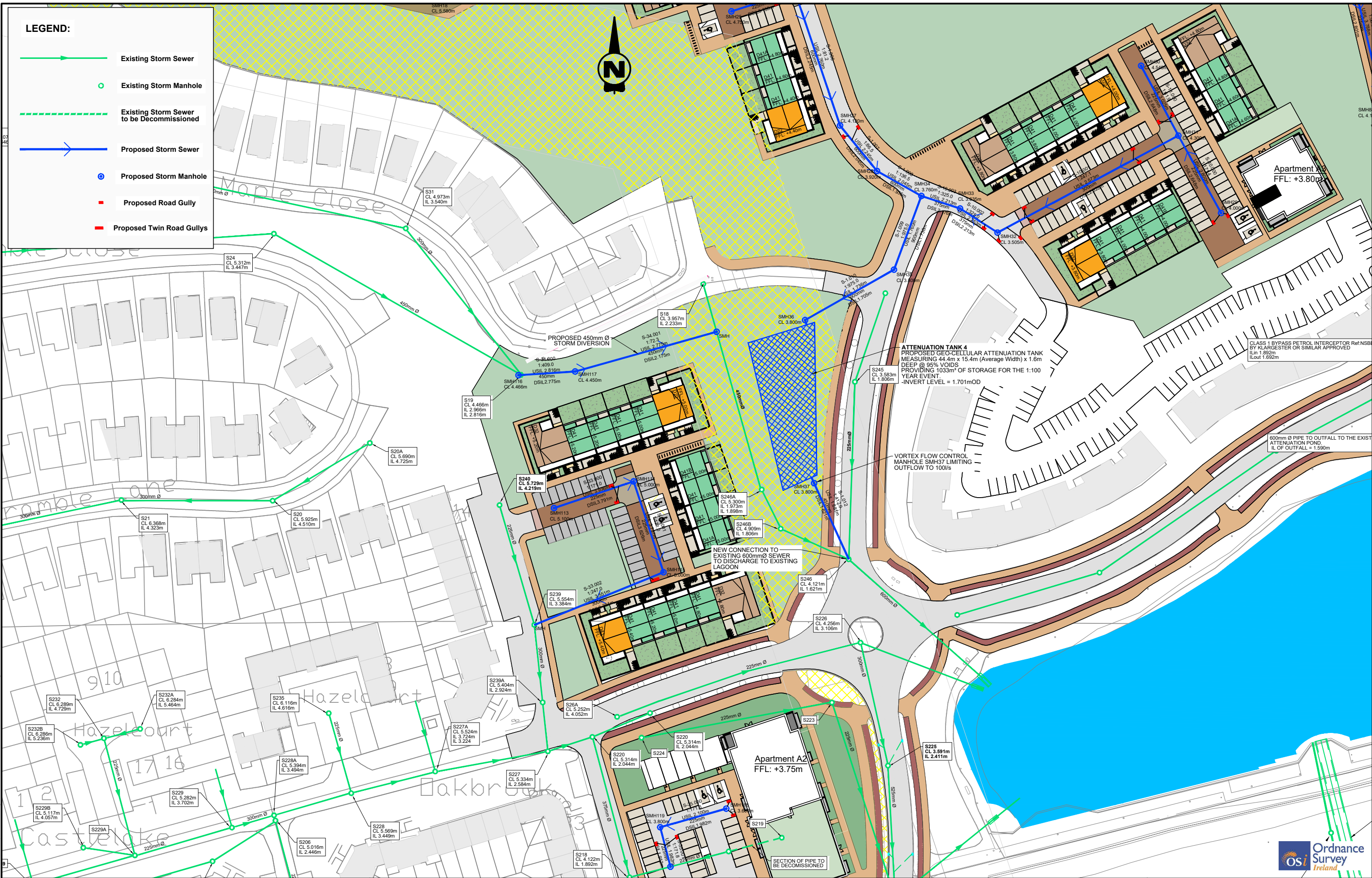
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(v) All Levels refer to Ordnance Survey Datum, Malin Head.

Rev	Date	Dim Chk	Amendment / Issue	App
S4 P01	08/06/22	PKR	Issued for Planning	
S3 P03	03/06/22	PKR	Issue for Review and Comment	
P01	26/10/21	PKR	Pre-Planning Submission	

Model File Identifier
MCW1088-RPS-00-XX-DR-C-DR0201

Scale 1:500 @ A1 1:1000 @ A3	Project Castelake SHD
Created on 15/09/2021	Title Proposed Storm Infrastructure Drainage Layout (3 of 8)
Sheets 04 of 09	File Identifier MCW1088-RPS-00-XX-DR-C-DR0201-04
Rev P01	Status S4



LEGEND:

- Existing Storm Sewer
- Existing Storm Manhole
- - - Existing Storm Sewer to be Decommissioned
- Proposed Storm Sewer
- Proposed Storm Manhole
- Proposed Road Gully
- Proposed Twin Road Gullies

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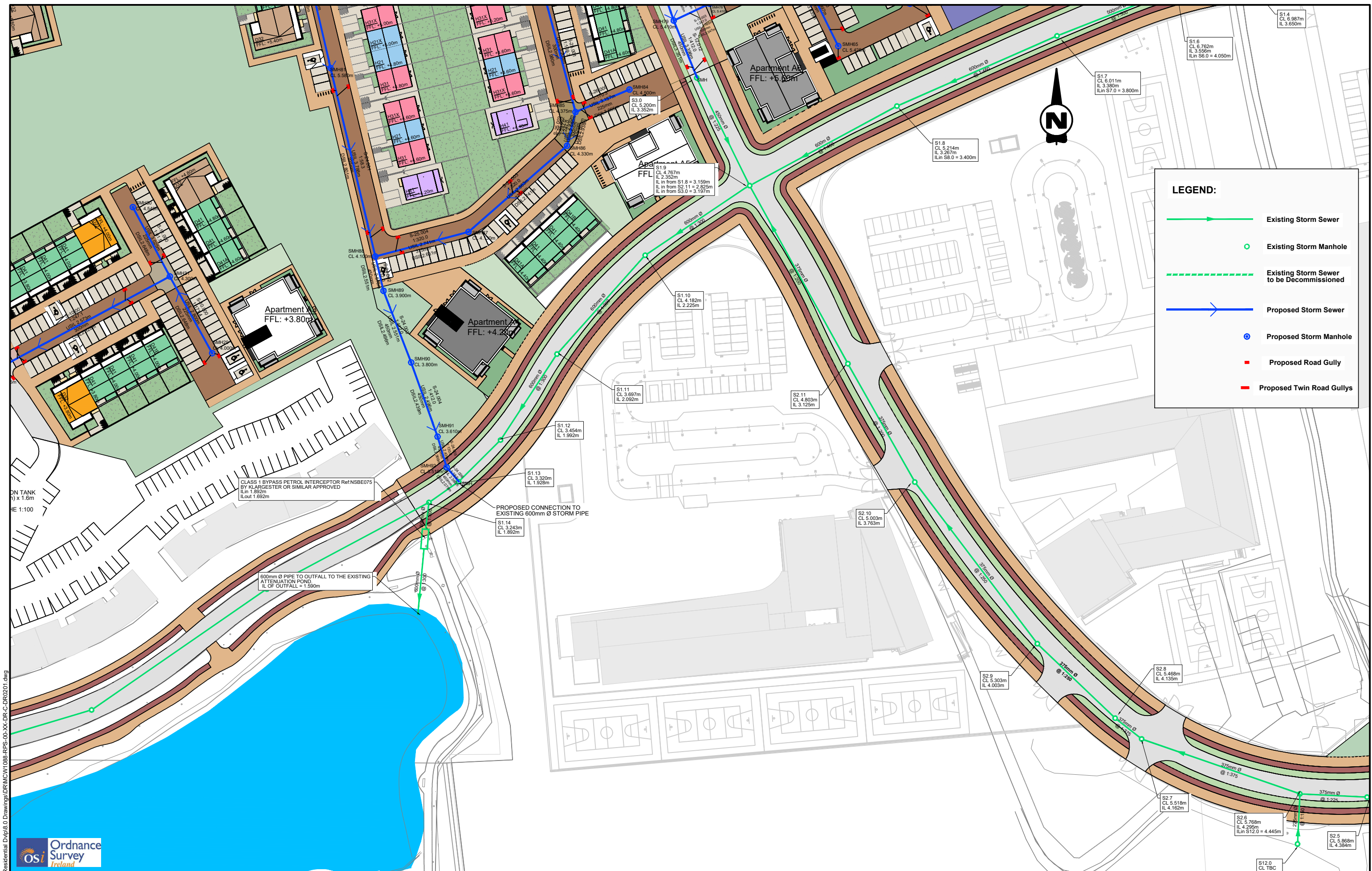
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Rev	Date	Drawn	Checked	Amendment / Issue	App
S4 P01	08/06/22			Issued for Planning	
S3 P03	03/06/22			Issue for Review and Comment	
P01	26/10/21			Pre-Planning Submission	

Model File Identifier
MCW1088-RPS-00-XX-DR-C-DR0201

Scale 1:500 @ A1 1:1000 @ A3	Project Castlelake SHD
Created on 15/09/2021	Title Proposed Storm Infrastructure Drainage Layout (4 of 8)
Sheets 05 of 09	File Identifier MCW1088-RPS-00-XX-DR-C-DR0201-05
Status S4	Rev P01



LEGEND:

- Existing Storm Sewer
- Existing Storm Manhole
- - - Existing Storm Sewer to be Decommissioned
- Proposed Storm Sewer
- Proposed Storm Manhole
- Proposed Road Gully
- Proposed Twin Road Gullies

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Client

Ordnance Survey Ireland

bam

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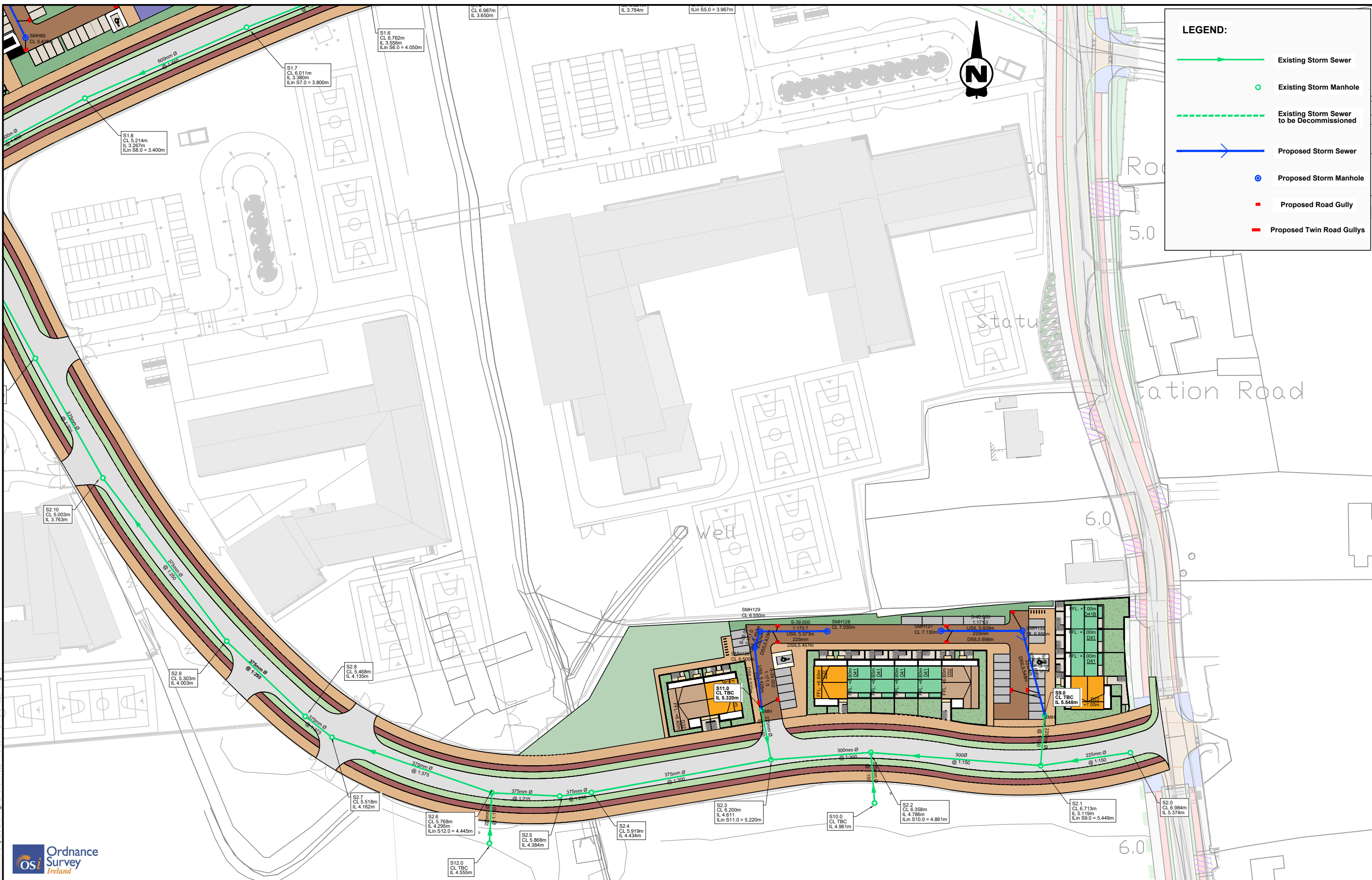
Rev	Date	Dim Chk	Amendment / Issue	App
S4 P01	08/06/22		Issued for Planning	
S3 P03	03/06/22		Issue for Review and Comment	
P01	26/10/21		Pre-Planning Submission	

rps

Model File Identifier
MCW1088-RPS-00-XX-DR-C-DR0201

Scale	Project	Title	Status	Rev
1:500 @ A1 1:1000 @ A3	Castelake SHD	Proposed Storm Infrastructure Drainage Layout (5 of 8)	S4	P01

File Identifier: MCW1088-RPS-00-XX-DR-C-DR0201-06



LEGEND:

- ▶— Existing Storm Sewer
- Existing Storm Manhole
- - - Existing Storm Sewer to be Decommissioned
- ▶— Proposed Storm Sewer
- Proposed Storm Manhole
- Proposed Road Gully
- Proposed Twin Road Gullies



Client

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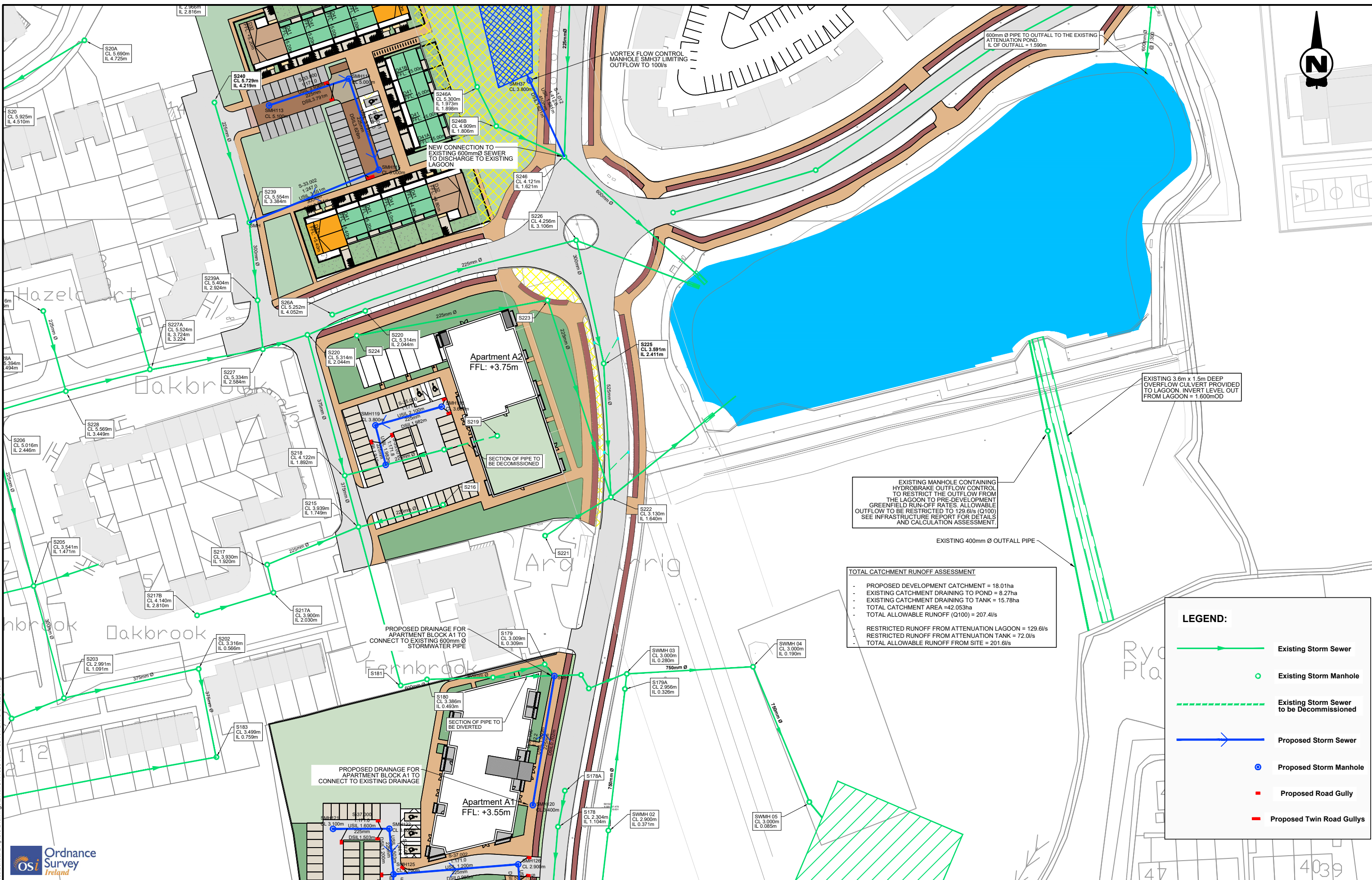
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Rev	Date	Dim Ck	Amendment / Issue	App
S4 P01	08/06/22	PER	Issued for Planning	
S3 P03	03/06/22	PER	Issue for Review and Comment	
P01	26/10/21	PER	Pre-Planning Submission	

Model File Identifier
MCW1088-RPS-00-XX-DR-C-DR0201

Scale	1:500 @ A1 1:1000 @ A3	Project	Castlelake SHD
Created on	15/09/2021	Title	Proposed Storm Infrastructure Drainage Layout (6 of 8)
Sheets	07 of 09	Status	S4
File Identifier	MCW1088-RPS-00-XX-DR-C-DR0201-07	Rev	P01



EXISTING MANHOLE CONTAINING HYDROBRAKE OUTFLOW CONTROL TO RESTRICT THE OUTFLOW FROM THE LAGOON TO PRE-DEVELOPMENT GREENFIELD RUN-OFF RATES. ALLOWABLE OUTFLOW TO BE RESTRICTED TO 129.6l/s (Q100) SEE INFRASTRUCTURE REPORT FOR DETAILS AND CALCULATION ASSESSMENT

TOTAL CATCHMENT RUNOFF ASSESSMENT

- PROPOSED DEVELOPMENT CATCHMENT = 18.01ha
- EXISTING CATCHMENT DRAINING TO POND = 8.27ha
- EXISTING CATCHMENT DRAINING TO TANK = 15.78ha
- TOTAL CATCHMENT AREA = 42.053ha
- TOTAL ALLOWABLE RUNOFF (Q100) = 207.4l/s

RESTRICTED RUNOFF FROM ATTENUATION LAGOON = 129.6l/s
 RESTRICTED RUNOFF FROM ATTENUATION TANK = 72.0l/s
 - TOTAL ALLOWABLE RUNOFF FROM SITE = 201.6l/s

LEGEND:

- Existing Storm Sewer (Green line with arrow)
- Existing Storm Manhole (Green circle)
- Existing Storm Sewer to be Decommissioned (Dashed green line)
- Proposed Storm Sewer (Blue line with arrow)
- Proposed Storm Manhole (Blue circle)
- Proposed Road Gully (Red square)
- Proposed Twin Road Gullies (Red rectangle)

Client: **Ordnance Survey Ireland**

bam

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S3 P03	03/06/22			Issue for Review and Comment	
P01	26/10/21			Pre-Planning Submission	

RPS

Scale: 1:500 @ A1, 1:1000 @ A3

Created on: 15/09/2021

Sheets: 08 of 09

Project: **Castlelake SHD**

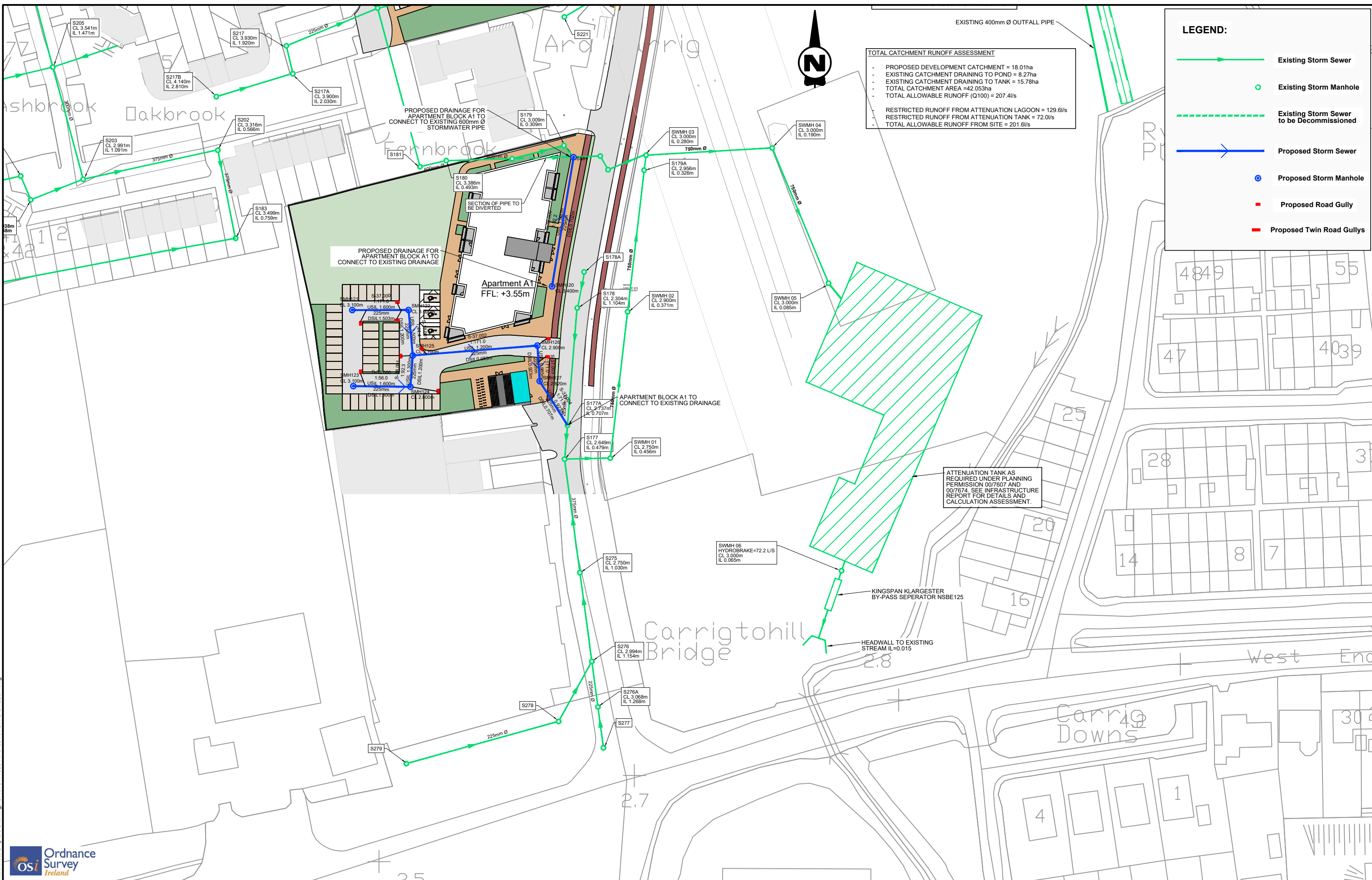
Title: **Proposed Storm Infrastructure Drainage Layout (7 of 8)**

Model File Identifier: **MCW1088-RPS-00-XX-DR-C-DR0201**

File Identifier: **MCW1088-RPS-00-XX-DR-C-DR0201-08**

Status: **S4**

Rev: **P01**



TOTAL CATCHMENT RUNOFF ASSESSMENT

- PROPOSED DEVELOPMENT CATCHMENT = 18.01ha
- EXISTING CATCHMENT DRAINING TO POND = 8.27ha
- EXISTING CATCHMENT DRAINING TO TANK = 15.78ha
- TOTAL CATCHMENT AREA = 42.053ha
- TOTAL ALLOWABLE RUNOFF (Q100) = 207.4l/s

RESTRICTED RUNOFF FROM ATTENUATION LAGOON = 129.6l/s
 RESTRICTED RUNOFF FROM ATTENUATION TANK = 72.0l/s
 TOTAL ALLOWABLE RUNOFF FROM SITE = 201.6l/s

LEGEND:

- Existing Storm Sewer (Green line with arrow)
- Existing Storm Manhole (Green circle)
- Existing Storm Sewer to be Decommissioned (Dashed green line)
- Proposed Storm Sewer (Blue line with arrow)
- Proposed Storm Manhole (Blue circle)
- Proposed Road Gully (Red line)
- Proposed Twin Road Gullies (Red line with two parallel bars)

Client: **Castlelake Residential**

Scale: 1:500 @ A1
1:1000 @ A3

Created on: 15/09/2021

Sheets: 09 of 09

Project: **Castlelake SHD**

Title: **Proposed Storm Infrastructure Drainage Layout (8 of 8)**

Status: S4

Rev: P01

Model File Identifier: **MCW1088-RPS-00-XX-DR-C-DR0201**

File Identifier: **MCW1088-RPS-00-XX-DR-C-DR0201-09**

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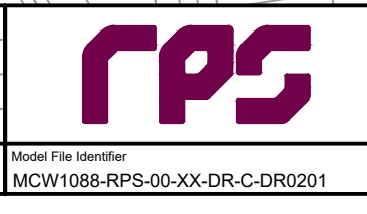
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S3	P03	03/06/22		Issue for Review and Comment	
P01		26/10/21		Pre-Planning Submission	



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