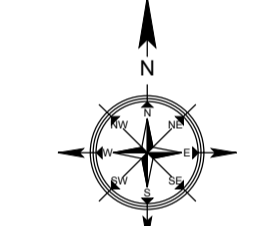


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 3. DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEER'S, ARCHITECT'S AND SERVICE ENGINEER'S DRAWINGS AND SPECIFICATIONS.
 4. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS.

- LEGEND:**
- DENOTES SITE BOUNDARY
 - NEW SURFACE WATER SEWER BY OTHER
 - NEW SURFACE WATER MANHOLE BY OTHER
 - NEW SURFACE WATER SEWER
 - NEW SURFACE WATER MANHOLE
 - NEW SURFACE WATER FLOW CONTROL MANHOLE
 - NEW SURFACE WATER ACCESS JUNCTION
 - PROPOSED ROAD GULLY
 - PROPOSED PETROL INTERCEPTOR
 - PROPOSED ATTENUATION TANK
 - SWMH 1.1 = MANHOLE NO
CL = COVER LEVEL
IL = INVERT LEVEL
 - NEW FOUL WATER SEWER BY OTHER
 - NEW FOUL WATER MANHOLE BY OTHER
 - NEW FOUL WATER SEWER
 - NEW FOUL WATER MANHOLE
 - PROPOSED FOUL WATER ACCESS JUNCTION
 - PROPOSED FOUL INSPECTION CHAMBER
 - PROPOSED FOUL ACCESS JUNCTION
 - FWMH 1.1 = MANHOLE NO
CL = COVER LEVEL
IL = INVERT LEVEL



IRISH WATER STANDARD DETAILS AND CODE OF PRACTICE:
 ALL OF THE SITE DRAINAGE WORKS SHOULD BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER'S (IW) WASTEWATER INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE.

FOR REINFORCED IN SITU ITEMS SUCH AS MANHOLES ETC. ALLOW H12 REBAR @ 200mm BOTH FACES. NOTE THAT PRECAST OPTIONS ARE ALSO SPECIFIED.

- PIPE MATERIALS:**
1. SERVICE CONNECTIONS FROM DWELLING TO BE 100mm Ø UNPLASTICISED PVC IN ACCORDANCE WITH SECTION 3.13 OF IW CODE PRACTICE.
 2. SITE SEWER TO BE THERMOPLASTIC STRUCTURED WALL PIPES IN ACCORDANCE WITH SECTION 3.13 OF THE IW CODE OF PRACTICE.

- TESTING:**
1. SITE SEWER AND MANHOLES TO BE TESTED IN ACCORDANCE WITH SECTION 4.10 OF IW CODE OF PRACTICE.
 2. CCTV AND MANHOLE CONDITION SURVEYS TO BE CARRIED OUT IN ACCORDANCE WITH SECTION 1.9 OF IW CODE OF PRACTICE IN ADVANCE OF THE DEFECTS LIABILITY PERIOD.

NOTE: ALL MANHOLE COVER LEVELS TO BE CHECKED IN SITU TO ENSURE THAT THEY ARE LEVEL WITH THE SURROUNDING FINISHED SURFACES.

| REV. | DESCRIPTION | DATE | PRODUCER | VERIFIER | APPROVER |
|------|-----------------------|----------|----------|----------|----------|
| B | GENERAL REVISIONS | 10/10/19 | CMcD | AD | JR |
| A | SURFACE WATER REVISED | 22/08/19 | CMcD | AD | JR |

PLANNING

Dennany Reidy Associates
 CONSULTING ENGINEERS & PROJECT MANAGERS

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DUBLIN: 30 DRUMCONDRA ROAD UPPER, DRUMCONDRA, DUBLIN 9 D09 F77K
 Tel: 01 216 2956 (Dublin)
 Tel: 061 310 701 (Limerick)
 email: mail@dennanyreidy.ie
 web: www.dennanyreidy.ie

CLIENT: LIMERICK CITY & COUNTY COUNCIL
 CITY HALL
 MERCHANTS QUAY
 LIMERICK

PROJECT: DEERPARK
 ADARE
 Co. LIMERICK

TITLE: SOUTH SITE - PROPOSED FOUL & SURFACE WATER LAYOUTS

| | | | |
|-----------|----------|-----------------|------------|
| DATE: | 31/07/19 | SCALE: | 1:250 @ A1 |
| DESIGNER: | CMcD | DRG. No. | REV. |
| PRODUCER: | CMcD | L200-150 | B |
| VERIFIER: | AD | | |
| APPROVER: | JR | REVISIONS: | A B |

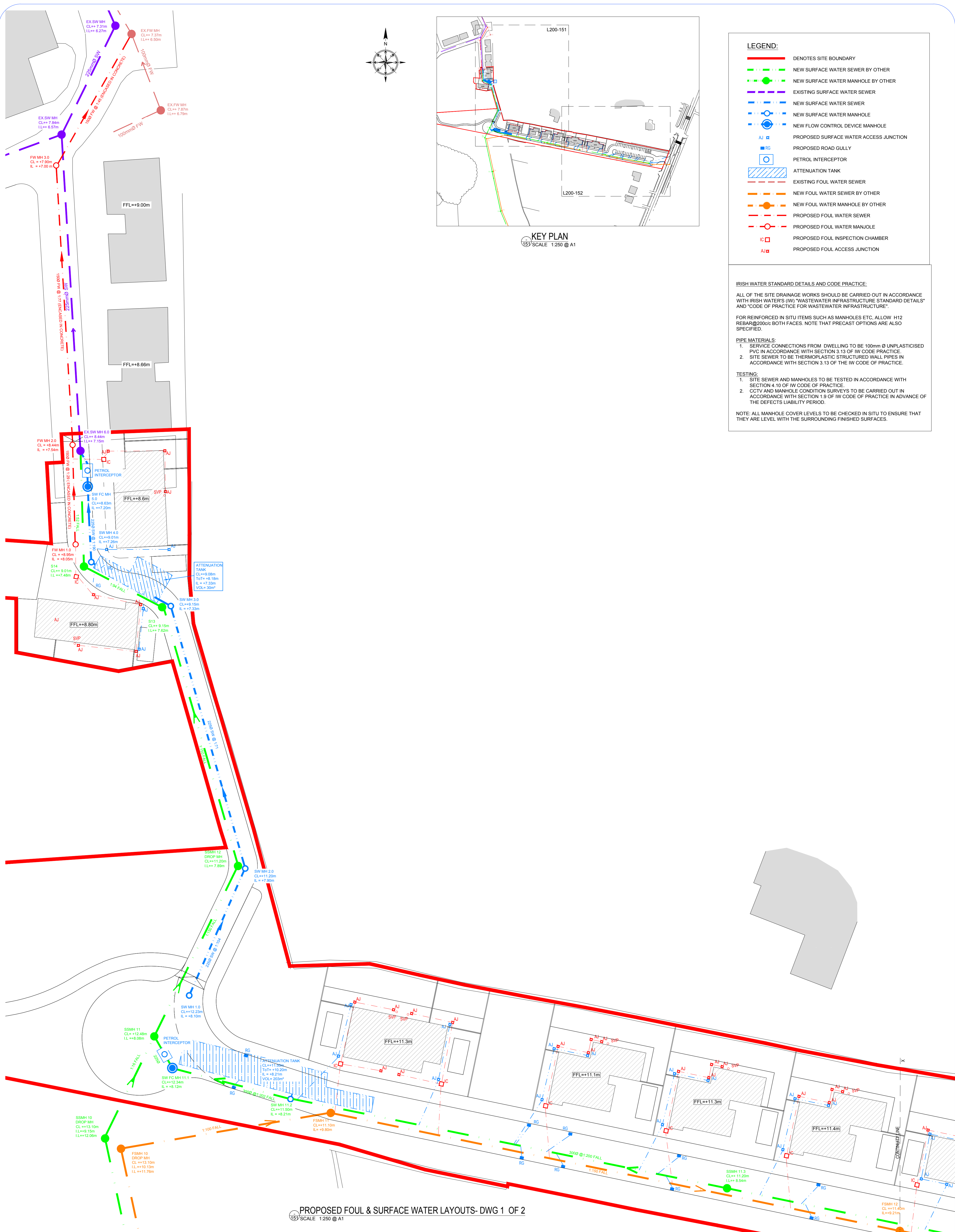
PROPOSED FOUL & SURFACE WATER LAYOUTS
 SCALE 1:250 @ A1

FFL+19.11m

FFL+18.60m

RIDGE 23.45





LEGEND:

- DENOTES SITE BOUNDARY
- NEW SURFACE WATER SEWER BY OTHER
- NEW SURFACE WATER MANHOLE BY OTHER
- EXISTING SURFACE WATER SEWER
- NEW SURFACE WATER SEWER
- NEW SURFACE WATER MANHOLE
- NEW FLOW CONTROL DEVICE MANHOLE
- PROPOSED SURFACE WATER ACCESS JUNCTION
- PROPOSED ROAD GULLY
- PETROL INTERCEPTOR
- ▨ ATTENUATION TANK
- EXISTING FOUL WATER SEWER
- NEW FOUL WATER SEWER BY OTHER
- NEW FOUL WATER MANHOLE BY OTHER
- PROPOSED FOUL WATER SEWER
- PROPOSED FOUL WATER MANHOLE
- PROPOSED FOUL INSPECTION CHAMBER
- PROPOSED FOUL ACCESS JUNCTION

IRISH WATER STANDARD DETAILS AND CODE PRACTICE:

ALL OF THE SITE DRAINAGE WORKS SHOULD BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER'S (IW) "WASTEWATER INFRASTRUCTURE STANDARD DETAILS" AND "CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE".

FOR REINFORCED IN SITU ITEMS SUCH AS MANHOLES ETC, ALLOW H12 REBAR@200c/c BOTH FACES. NOTE THAT PRECAST OPTIONS ARE ALSO SPECIFIED.

PIPE MATERIALS:

- SERVICE CONNECTIONS FROM DWELLING TO BE 100mm Ø UNPLASTICISED PVC IN ACCORDANCE WITH SECTION 3.13 OF IW CODE PRACTICE
- SITE SEWER TO BE THERMOPLASTIC STRUCTURED WALL PIPES IN ACCORDANCE WITH SECTION 3.13 OF THE IW CODE OF PRACTICE.

TESTING:

- SITE SEWER AND MANHOLES TO BE TESTED IN ACCORDANCE WITH SECTION 4.10 OF IW CODE OF PRACTICE.
- CCTV AND MANHOLE CONDITION SURVEYS TO BE CARRIED OUT IN ACCORDANCE WITH SECTION 1.9 OF IW CODE OF PRACTICE IN ADVANCE OF THE DEFECTS LIABILITY PERIOD.

NOTE: ALL MANHOLE COVER LEVELS TO BE CHECKED IN SITU TO ENSURE THAT THEY ARE LEVEL WITH THE SURROUNDING FINISHED SURFACES.

PROPOSED FOUL & SURFACE WATER LAYOUTS- DWG 1 OF 2
SCALE 1:250 @ A1

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| REV. | DESCRIPTION | PRODUCER | DATE | VERIFIER | DATE | APPROVER | DATE |
|------|------------------|----------|----------|----------|----------|----------|----------|
| B | GENERAL REVISION | STR | 11/10/19 | CMCD | 11/10/19 | AD | 11/10/19 |
| A | GENERAL REVISION | STR | 08/10/19 | CMCD | 08/10/19 | AD | 08/10/19 |

PLANNING

Dennany Reidy Associates
CONSULTING ENGINEERS & PROJECT MANAGERS

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DUBLIN: 30 DRUMCONDRRA RD UPPER, DRUMCONDRRA, DUBLIN 9, D09 F17K

Tel: 01 216 2956 (Dublin)
Tel: 061 310 701 (Limerick)
email: mail@dennanyreidy.ie
web: www.dennanyreidy.ie

CLIENT: LIMERICK CITY & COUNTY COUNCIL
CITY HALL, MERCHANTS QUAY, LIMERICK

PROJECT: DEERPARK ADARE CO. LIMERICK

TITLE: NORTH SITE - PROPOSED FOUL & SURFACE WATER LAYOUTS-DWG 1 OF 2

DATE: 03/10/19 SCALES: 1:250 @ A1

DESIGNER: CMCD DWG. No. REV. B

PRODUCER: LG L200-151

VERIFIER: CMCD

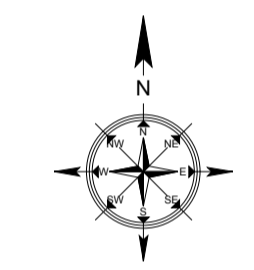
APPROVER: AD REVISIONS: B

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- LEGEND:**
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 - NEW SURFACE WATER SEWER BY OTHER
 - NEW SURFACE WATER MANHOLE BY OTHER
 - EXISTING SURFACE WATER SEWER
 - NEW SURFACE WATER SEWER
 - NEW SURFACE WATER MANHOLE
 - NEW FLOW CONTROL DEVICE MANHOLE
 - PROPOSED SURFACE WATER ACCESS JUNCTION
 - PROPOSED ROAD GULLY
 - PETROL INTERCEPTOR
 - ATTENUATION TANK
 - EXISTING FOUL WATER SEWER
 - NEW FOUL WATER SEWER BY OTHER
 - NEW FOUL WATER MANHOLE BY OTHER
 - PROPOSED FOUL WATER SEWER
 - PROPOSED FOUL WATER MANHOLE
 - PROPOSED FOUL INSPECTION CHAMBER
 - PROPOSED FOUL ACCESS JUNCTION



IRISH WATER STANDARD DETAILS AND CODE PRACTICE:

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FOR REINFORCED IN SITU ITEMS SUCH AS MANHOLES ETC. ALLOW H12 REBAR@200mm BOTH FACES. NOTE THAT PRECAST OPTIONS ARE ALSO SPECIFIED.

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NOTE: ALL MANHOLE COVER LEVELS TO BE CHECKED IN SITU TO ENSURE THAT THEY ARE LEVEL WITH THE SURROUNDING FINISHED SURFACES.

| REV. | DESCRIPTION | DATE | DATE | DATE |
|------|------------------|----------|----------|----------|
| A | GENERAL REVISION | 11/10/19 | 11/10/19 | 11/10/19 |

PLANNING

Dennany Reidy Associates
 CONSULTING ENGINEERS & PROJECT MANAGERS

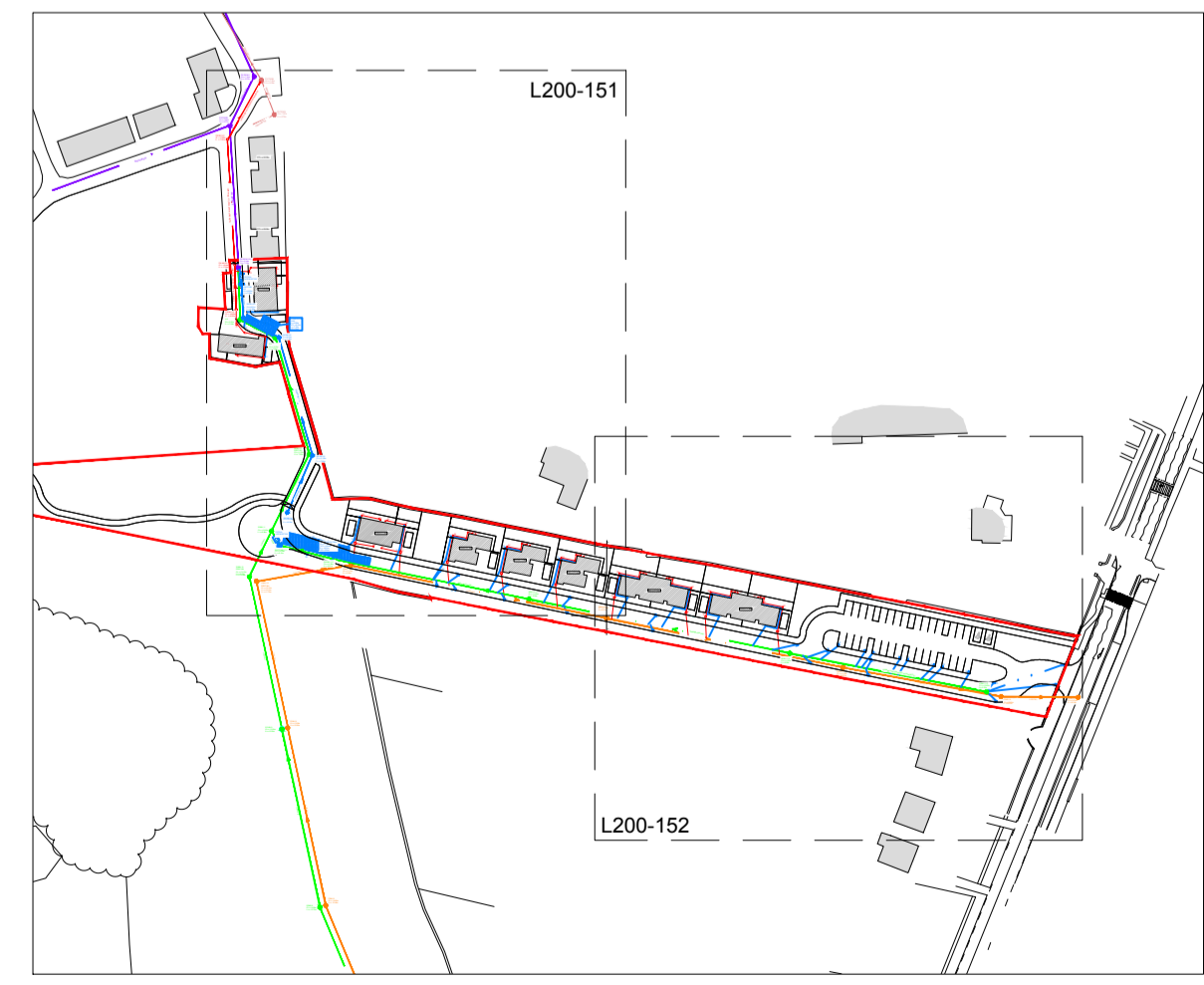
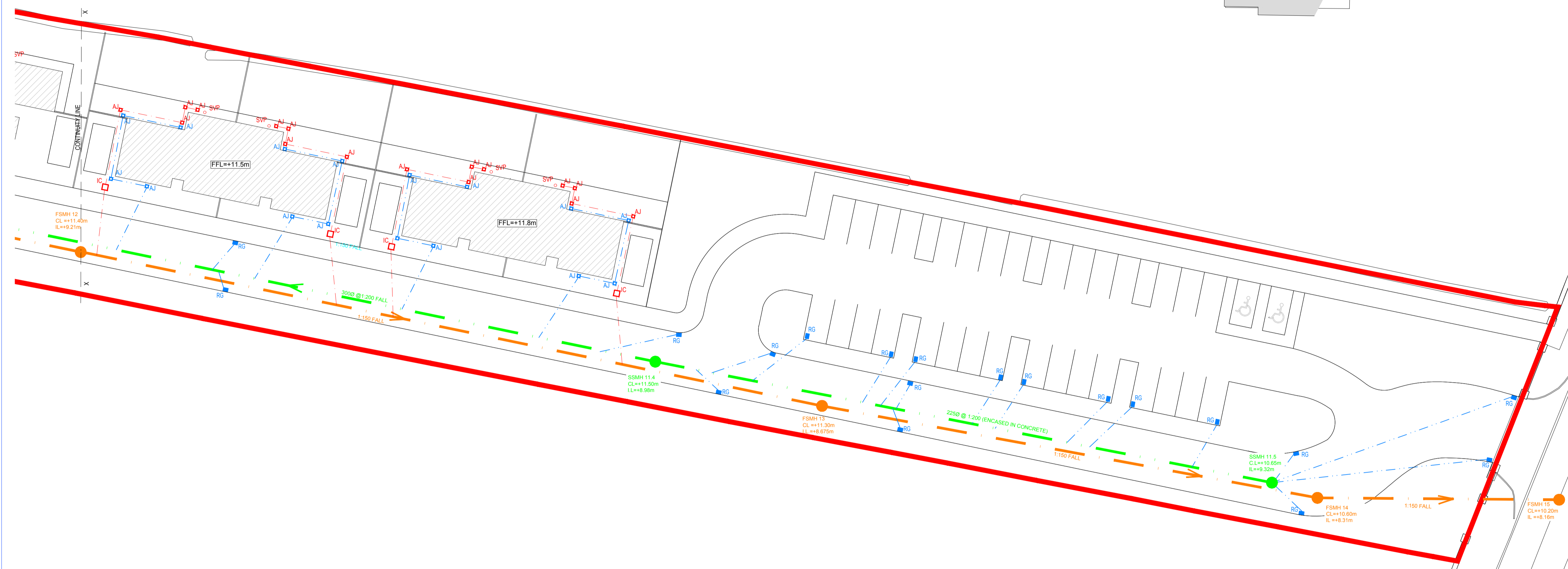
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 web: www.dennanyreidy.ie

CLIENT: LIMERICK CITY & COUNTY COUNCIL
 CITY HALL
 MERCHANTS QUAY
 LIMERICK

PROJECT: DEERPARK ADARE Co. LIMERICK

TITLE: NORTH SITE - PROPOSED FOUL & SURFACE WATER LAYOUTS- DWG 2 OF 2

| | | | |
|-----------|----------|-----------------|---------------|
| DATE: | 03/10/19 | SCALE: | 1:250 @ A1 |
| DESIGNER: | CMd | DRG. No. | |
| PRODUCER: | LG | L200-152 | REV. A |
| VERIFIER: | CMd | | |
| APPROVER: | AD | REVISIONS: | A |



KEY PLAN
 SCALE: 1:250 @ A1

PROPOSED FOUL & SURFACE WATER LAYOUTS- DWG 2 OF 2
 SCALE: 1:250 @ A1

