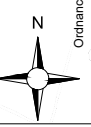


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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Existing Road To Be Upgraded
- Existing Floating Road to be Upgraded
- Proposed New Road
- Proposed New Floating Road
- Existing Road
- Crane Pad Hardstanding Area
- Borrow Pit
- Turbine and Swept Area
- Turbine Foundation

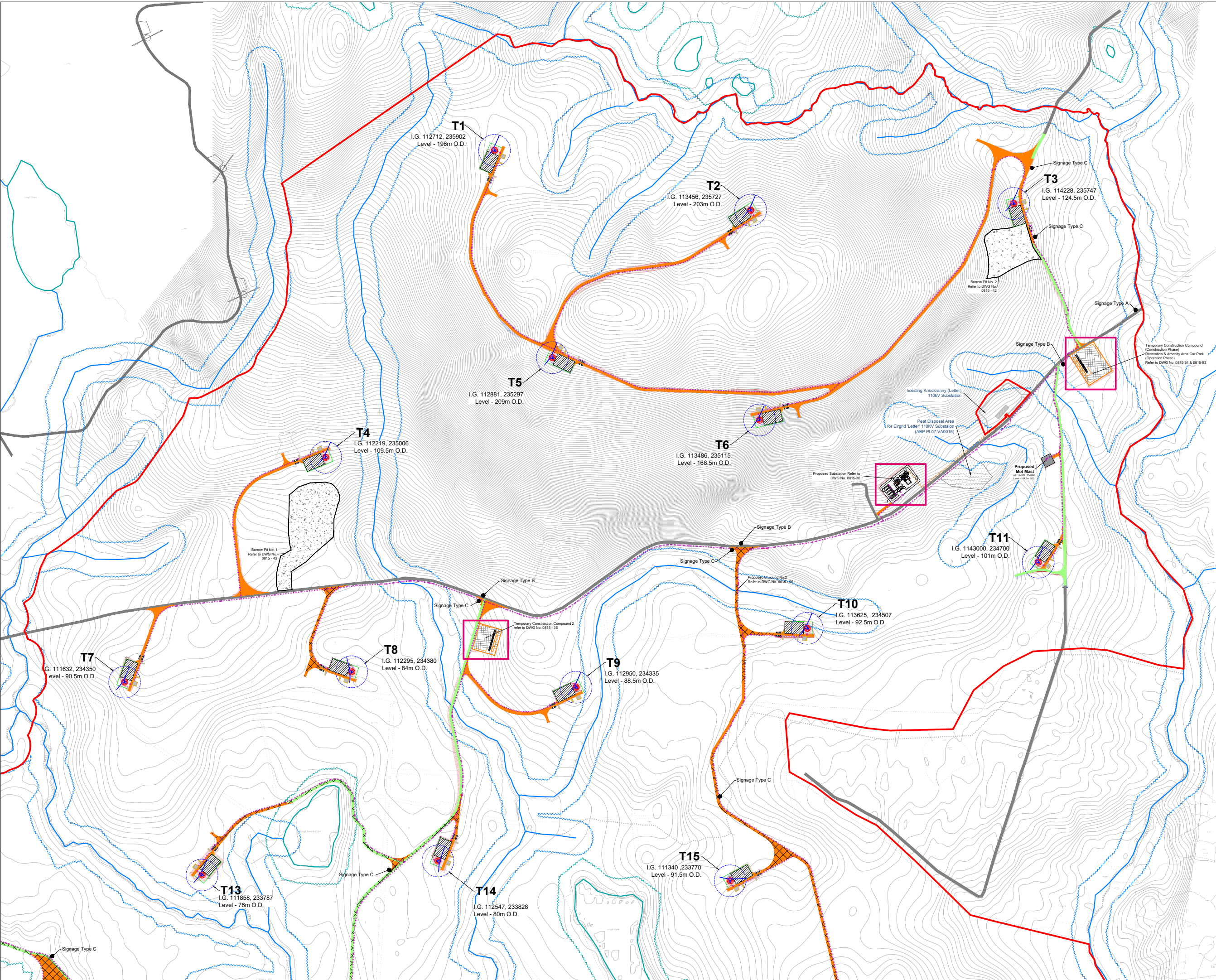
**Site Layout (1:5,000)
Key Plan**

PROJECT TITLE: Arderroo Wind Farm, Co. Galway	
DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160815	DRAWING No.: 0815 - 03
SCALE: 1:12,500 @A1	DATE: 22.11.2018

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Block 1,
Galway Financial Services Centre,
Moneenageisha Road,
Galway, Ireland.

email: info@mccarthykos.ie
website: www.mccarthykos.ie
Tel: +353 91 735611
Fax: +353 91 771279



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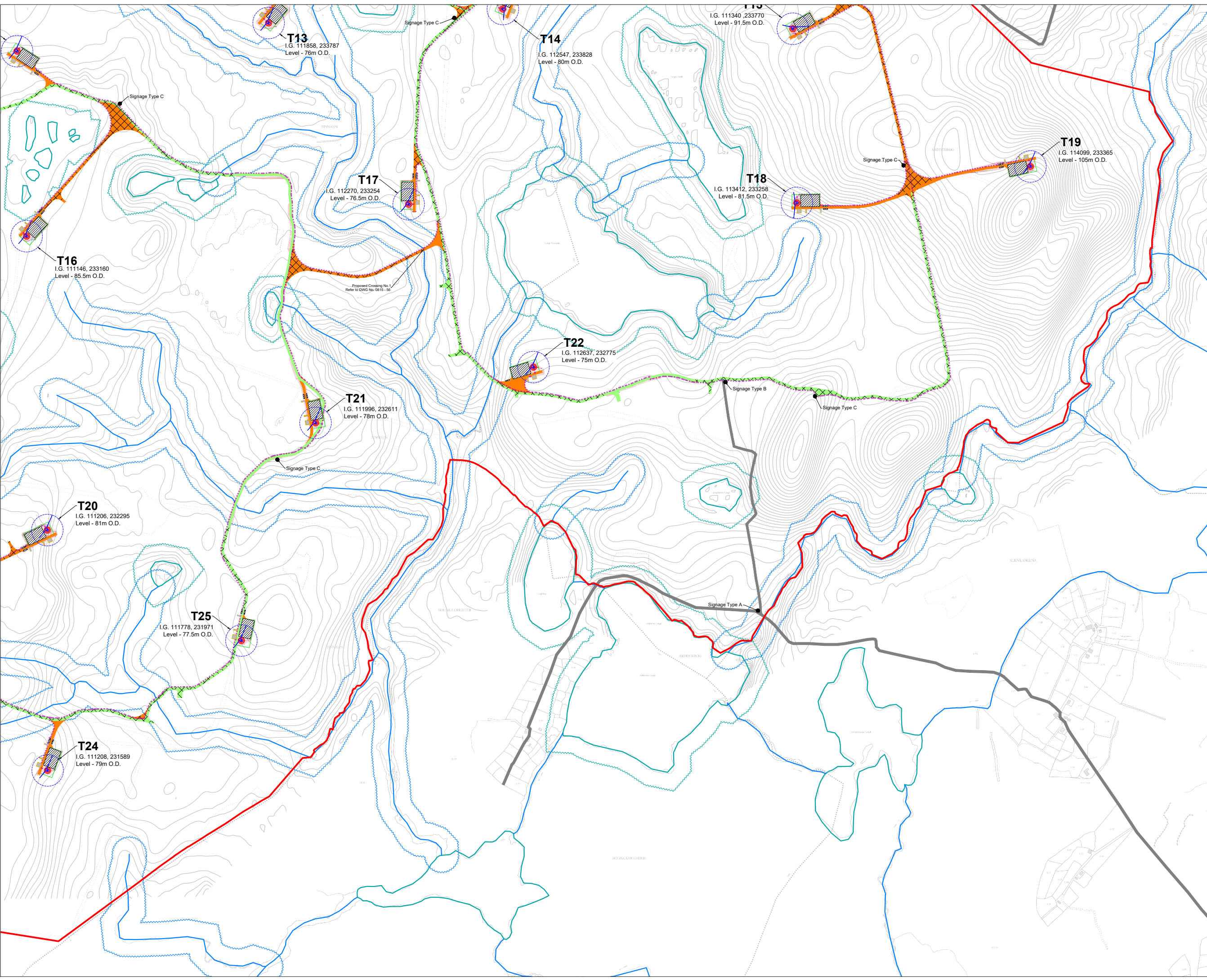
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	Lakes 50m Buffer
	Recreation Signage
	Indicative Cut
	Indicative Fill
	Indicative Grid Connection Cabling Route

DRAWING TITLE:
Site Layout Plan
Sheet 1 of 3

PROJECT TITLE:
 Arderroo Wind Farm, Co. Galway

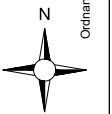
DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160815	DRAWING No.: 0815 - 04
SCALE: 1:5,000 @A1	DATE: 22.11.2018

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DRAWING TITLE:
**Site Layout Plan
 Sheet 3 of 3**

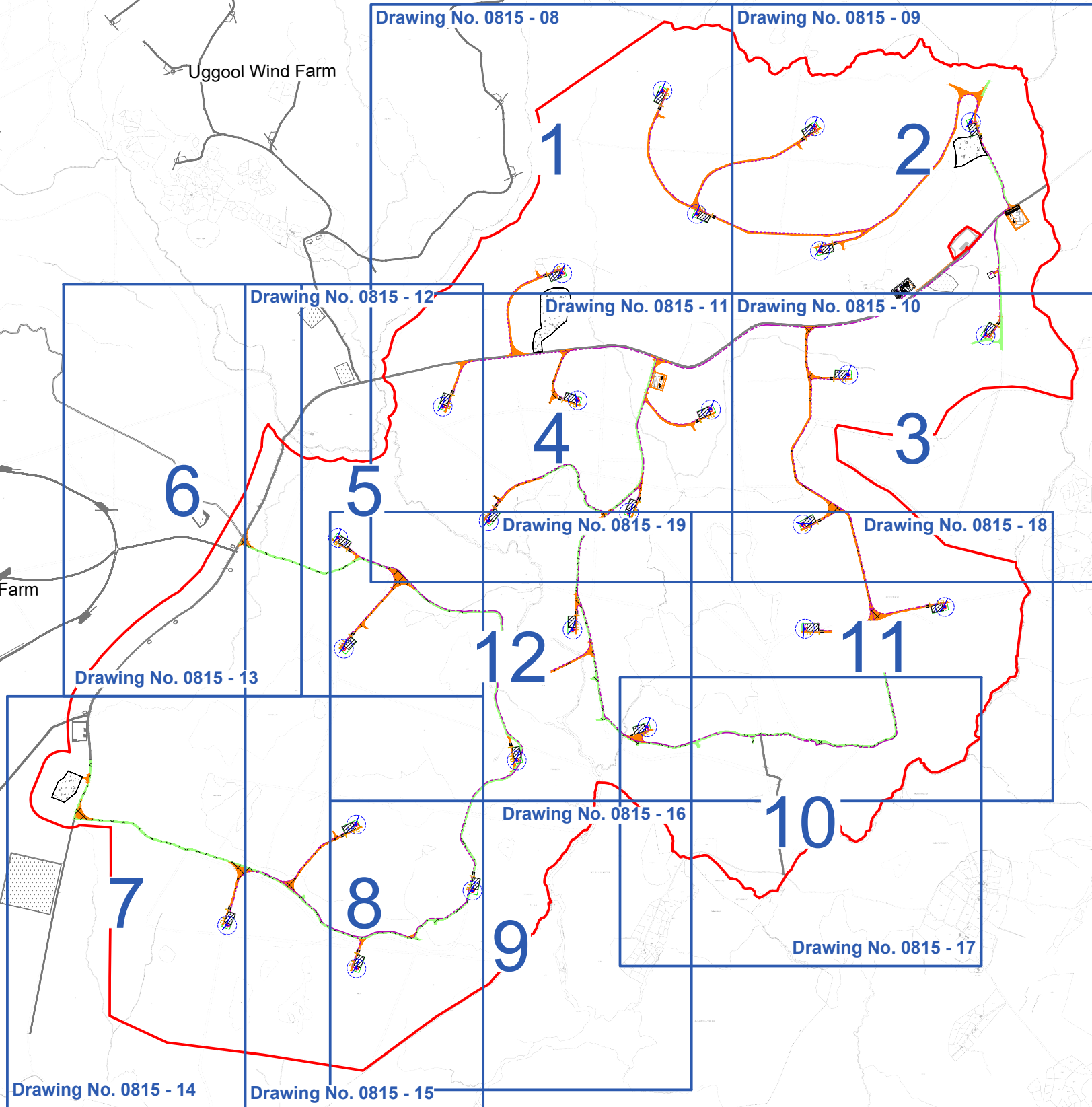
PROJECT TITLE:
 Ardderroo Wind Farm, Co. Galway

DRAWING BY: **Joseph O'Brien** CHECKED BY: **Jimmy Green**

PROJECT No.: **160815** DRAWING No.: **0815 - 06**

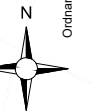
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Cloosh Wind Farm

Uggool Wind Farm



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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend

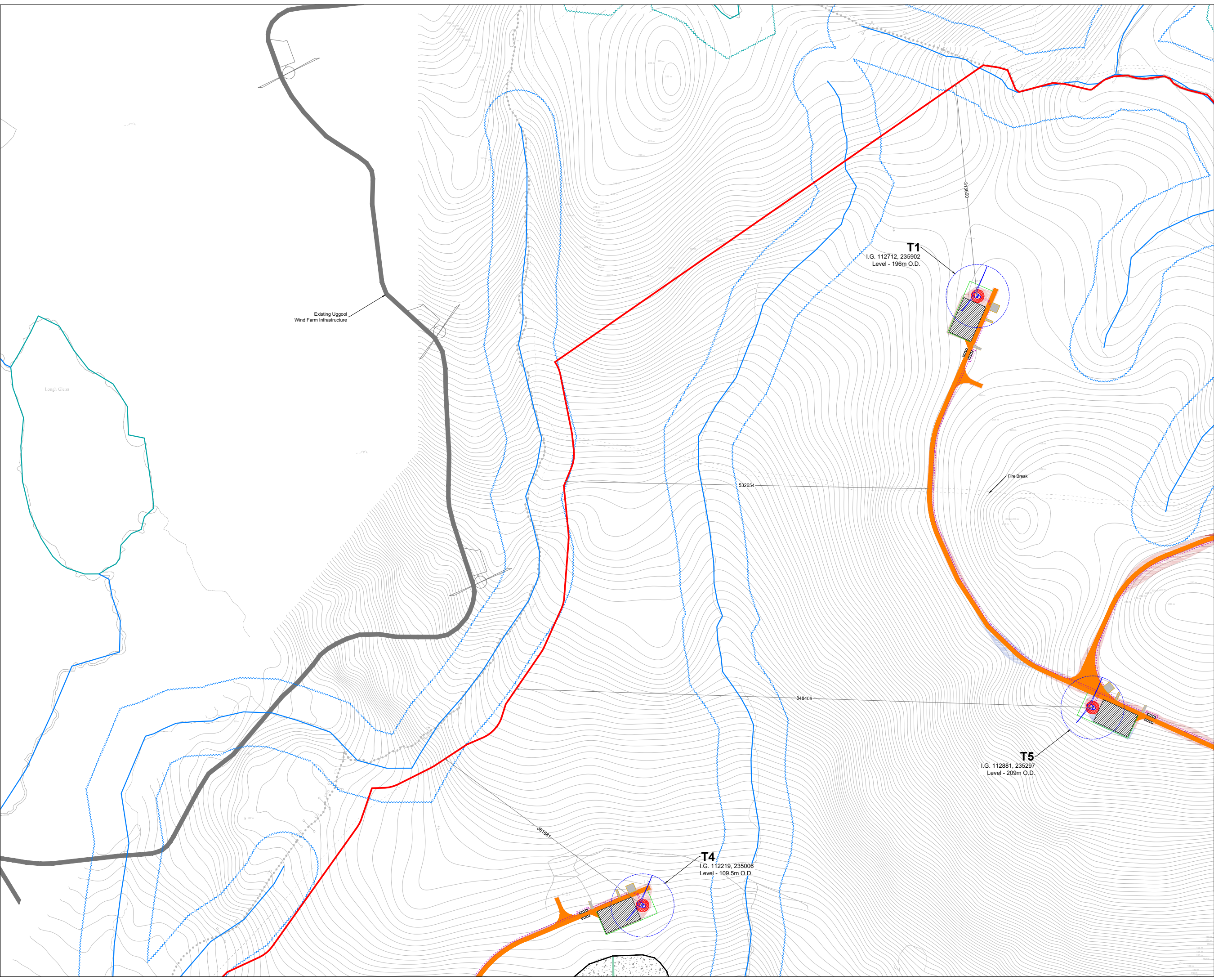
- Planning Application Boundary
- Existing Road To Be Upgraded
- Existing Floating Road to be Upgraded
- Proposed New Road
- Proposed New Floating Road
- Existing Road
- Crane Pad Hardstanding Area
- Borrow Pit
- Turbine and Swept Area
- Turbine Foundation

**Site Layout (1:2,500)
Key Plan**

PROJECT TITLE:
Arderroo Wind Farm, Co. Galway

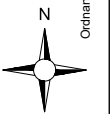
DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160815	DRAWING No.: 0815 - 07
SCALE: 1:12,500 @A1	DATE: 22.11.2018

OS SHEET No.:
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Proposed New Road
 - Works Area
 - Soft Levelled Area
 - Crane Pad Hardstanding Area
 - Borrow Pit
 - Indicative Internal Electrical Cable Trench
 - Turbine and Swept Area
 - Turbine Foundation
 - River/Stream
 - River/Stream Buffer 50m
 - Lakes
 - Lakes 50m Buffer
 - Indicative Cut
 - Indicative Fill



DRAWING TITLE:
**Site Layout Plan
 Sheet 1 of 12**

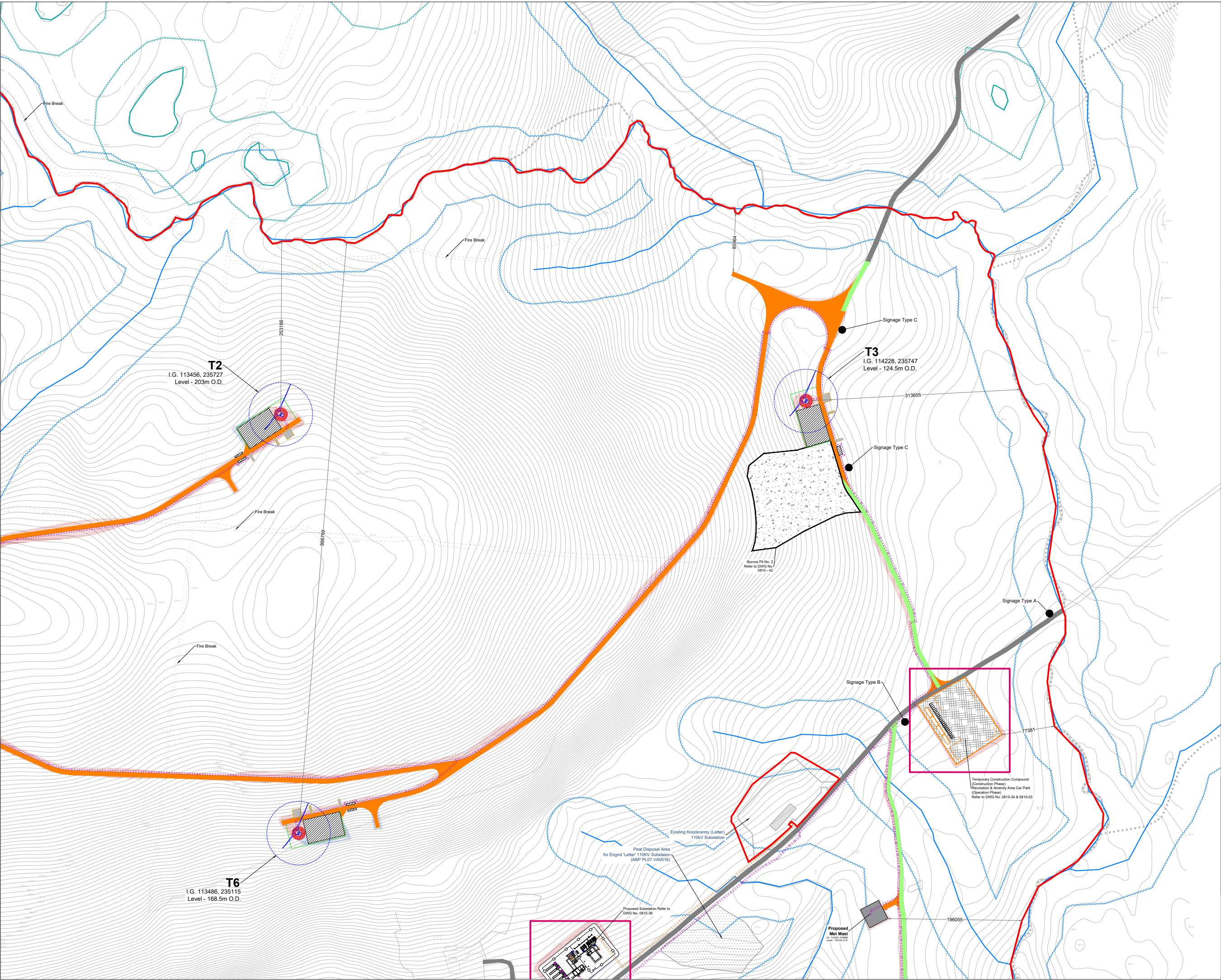
PROJECT TITLE:
 Ardderroo Wind Farm, Co. Galway

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No: 160815	DRAWING No.: 0815 - 08
SCALE: 1:2,500 @A1	DATE: 22.11.2018

OS SHEET No.:
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McCarthy Keville O'Sullivan Ltd.
 Planning & Environmental Consultants
 Block 1,
 Galway Financial Services Centre,
 Moneenageisha Road,
 Galway, Ireland.
 email: info@mccarthykos.ie
 website: www.mccarthykos.ie
 Tel: +353 91 735611
 Fax: +353 91 771279

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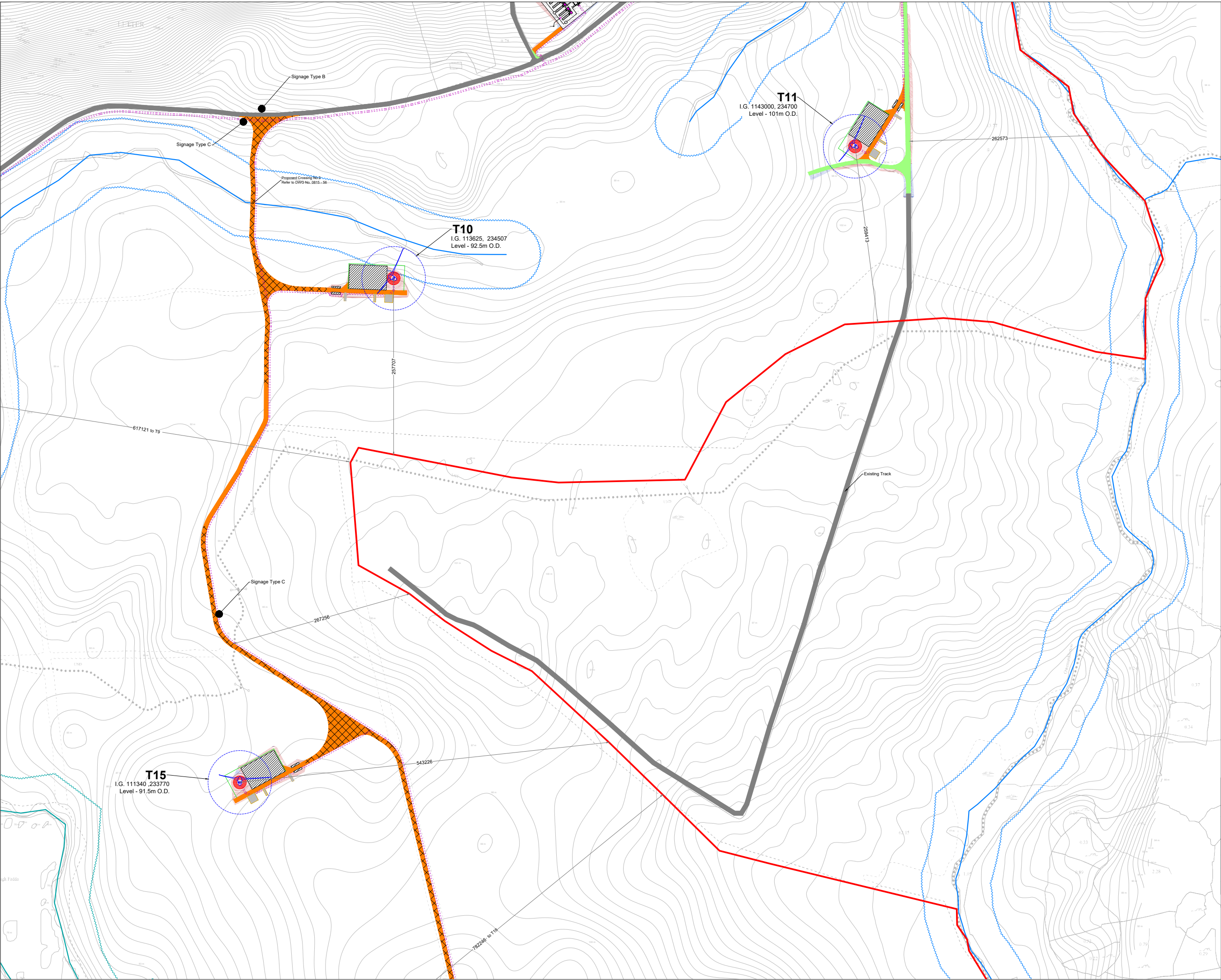
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 - River/Stream Buffer 50m
 - Lakes
 - Lakes 50m Buffer
 - Recreation Signage
 - Indicative Cut
 - Indicative Fill
 - Indicative Grid Connection Cabling Route

DRAWING TITLE:
Site Layout Plan
Sheet 2 of 12

PROJECT TITLE:
 Arderroo Wind Farm, Co. Galway

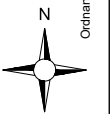
DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160815	DRAWING No.: 0815 - 09
SCALE: 1:2,500 @A1	DATE: 22.11.2018

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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road To Be Upgraded
 - Existing Floating Road to be Upgraded
 - Proposed New Road
 - Proposed New Floating Road
 - Existing Road
 - Works Area
 - Soft Levelled Area
 - Crane Pad Hardstanding Area
 - Indicative Internal Electrical Cable Trench
 - Turbine and Swept Area
 - Turbine Foundation
 - River/Stream
 - River/Stream Buffer 50m
 - Lakes
 - Lakes 50m Buffer
 - Recreation Signage
 - Indicative Cut
 - Indicative Fill
 - Indicative Grid Connection Cabling Route

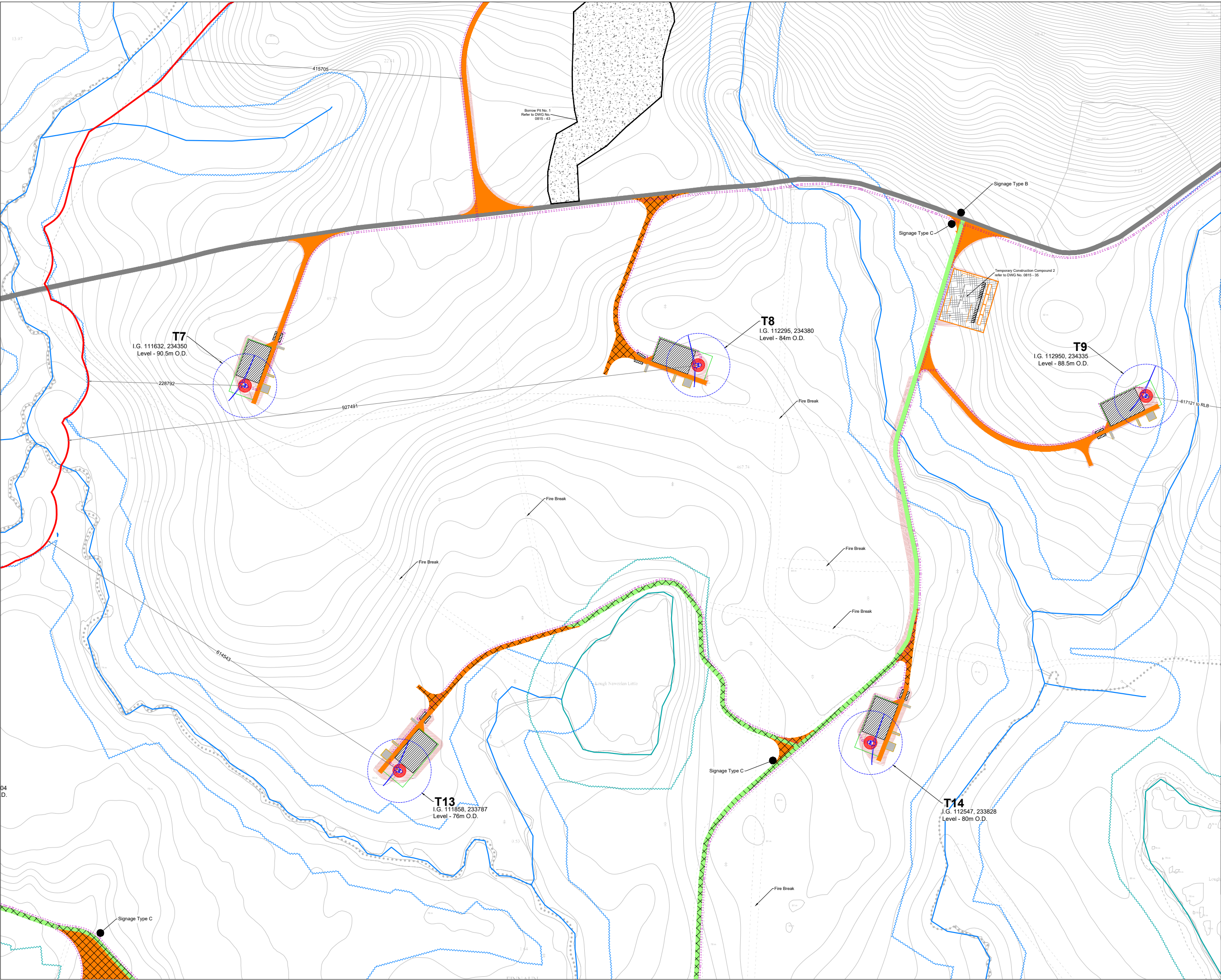


DRAWING TITLE:
**Site Layout Plan
 Sheet 3 of 12**

PROJECT TITLE:
 Ardderroo Wind Farm, Co. Galway

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No: 160815	DRAWING No.: 0815 - 10
SCALE: 1:2,500 @A1	DATE: 22.11.2018

OS SHEET No.: 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

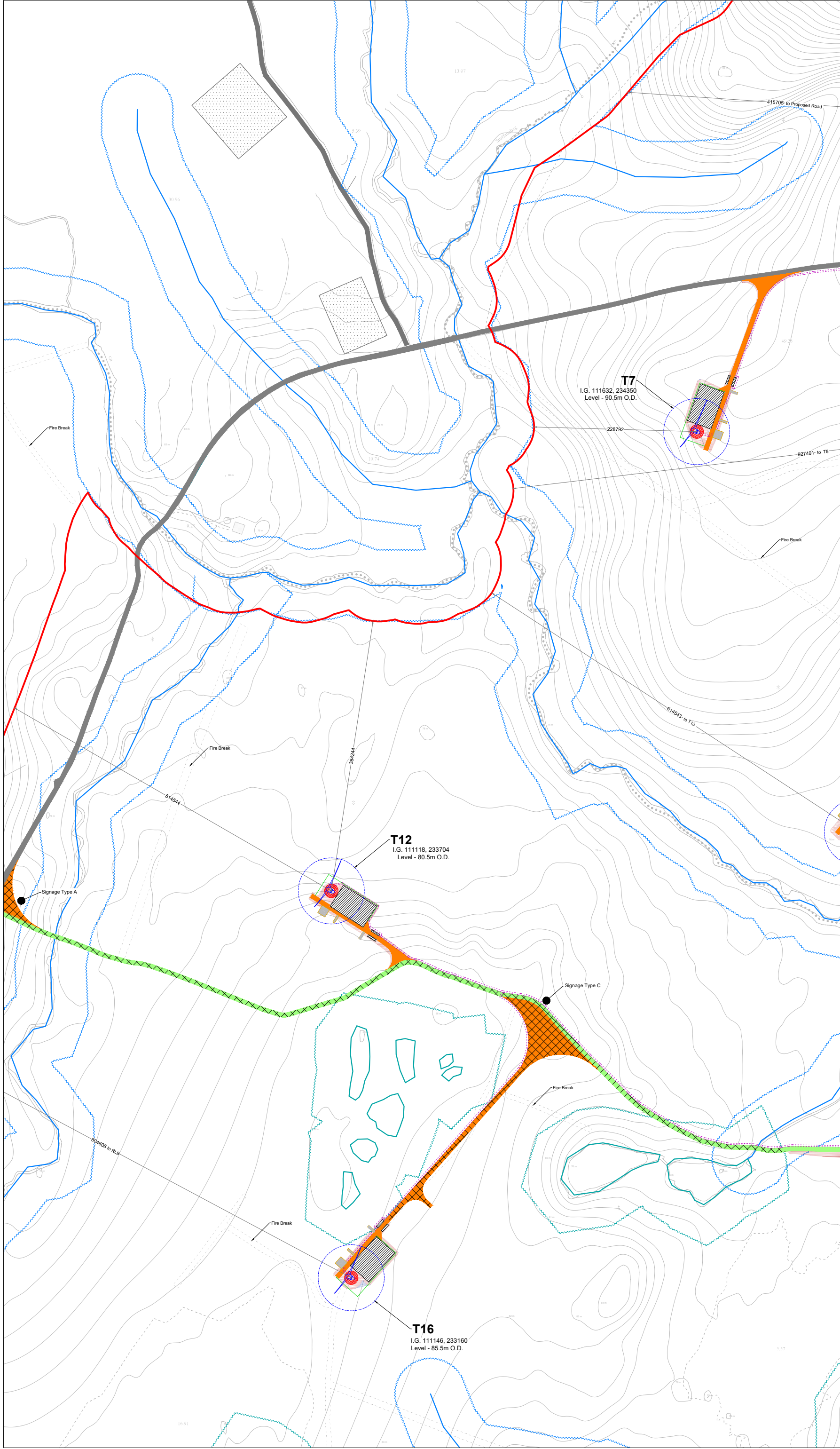
	Planning Application Boundary
	Existing Road To Be Upgraded
	Existing Floating Road to be Upgraded
	Proposed New Road
	Proposed New Floating Road
	Existing Road
	Works Area
	Soft Levelled Area
	Crane Pad Hardstanding Area
	Borrow Pit
	Indicative Internal Electrical Cable Trench
	Turbine and Swept Area
	Turbine Foundation
	River/Stream
	River/Stream Buffer 50m
	Lakes
	Lakes 50m Buffer
	Recreation Signage
	Indicative Cut
	Indicative Fill

DRAWING TITLE:
Site Layout Plan
Sheet 4 of 12

PROJECT TITLE:
 Arderroo Wind Farm, Co. Galway

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160815	DRAWING No.: 0815 - 11
SCALE: 1:2,500 @A1	DATE: 22.11.2018

OS SHEET No.:
 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

- Planning Application Boundary
- Existing Road To Be Upgraded
- Existing Floating Road to be Upgraded
- Proposed New Road
- Proposed New Floating Road
- Existing Road
- Works Area
- Soft Levelled Area
- Crane Pad Hardstanding Area
- Indicative Internal Electrical Cable Trench
- Turbine and Swept Area
- Turbine Foundation
- River/Stream
- River/Stream Buffer 50m
- Lakes
- Lakes 50m Buffer
- Recreation Signage
- Indicative Cut
- Indicative Fill

**Site Layout Plan
Sheet 5 of 12**

PROJECT TITLE: Arderroo Wind Farm, Co. Galway

DRAWING BY: Joseph O Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160815	DRAWING No.: 0815 - 12
SCALE: 1:2,500 @ A1	DATE: 22.11.2018

OS SHEET No.: 2804, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2941, 2942, 2943, 2944, 2945, 2946, 2947, 2948, 2949, 2950, 2951, 2952, 2953, 2954, 2955, 2956, 2957, 2958, 2959, 2960, 2961, 2962, 2963, 2964, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 2975, 2976, 2977, 2978, 2979, 2980, 2981, 2982, 2983, 2984, 2985, 2986, 2987, 2988, 2989, 2990, 2991, 2992, 2993, 2994, 2995, 2996, 2997, 2998, 2999, 3000

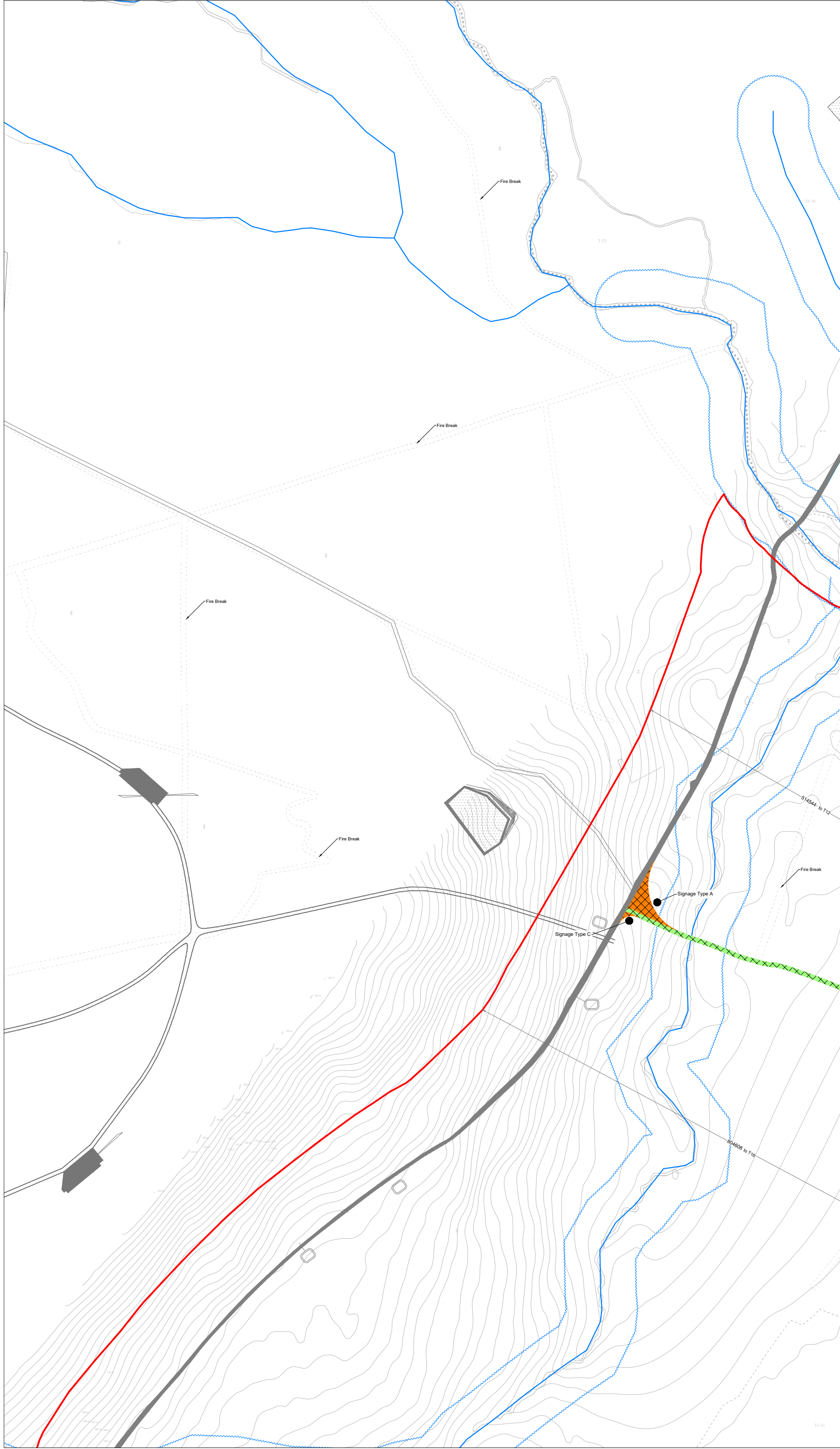
McCarthy Keville O'Sullivan Ltd.
 Planning & Environmental Consultants
 Block 1,
 Galway Financial Services Centre,
 Moneenageisha Road,
 Galway, Ireland.

email: info@mccarthykos.ie
 website: www.mccarthykos.ie
 Tel: +353 91 735611
 Fax: +353 91 771279

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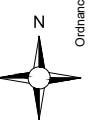
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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.



Drawing Legend

- Planning Application Boundary
- Landowners Boundary
- Existing Floating Road to be Upgraded
- Proposed New Floating Road
- Existing Road
- River/Stream
- River/Stream Buffer 50m
- Recreation Signage

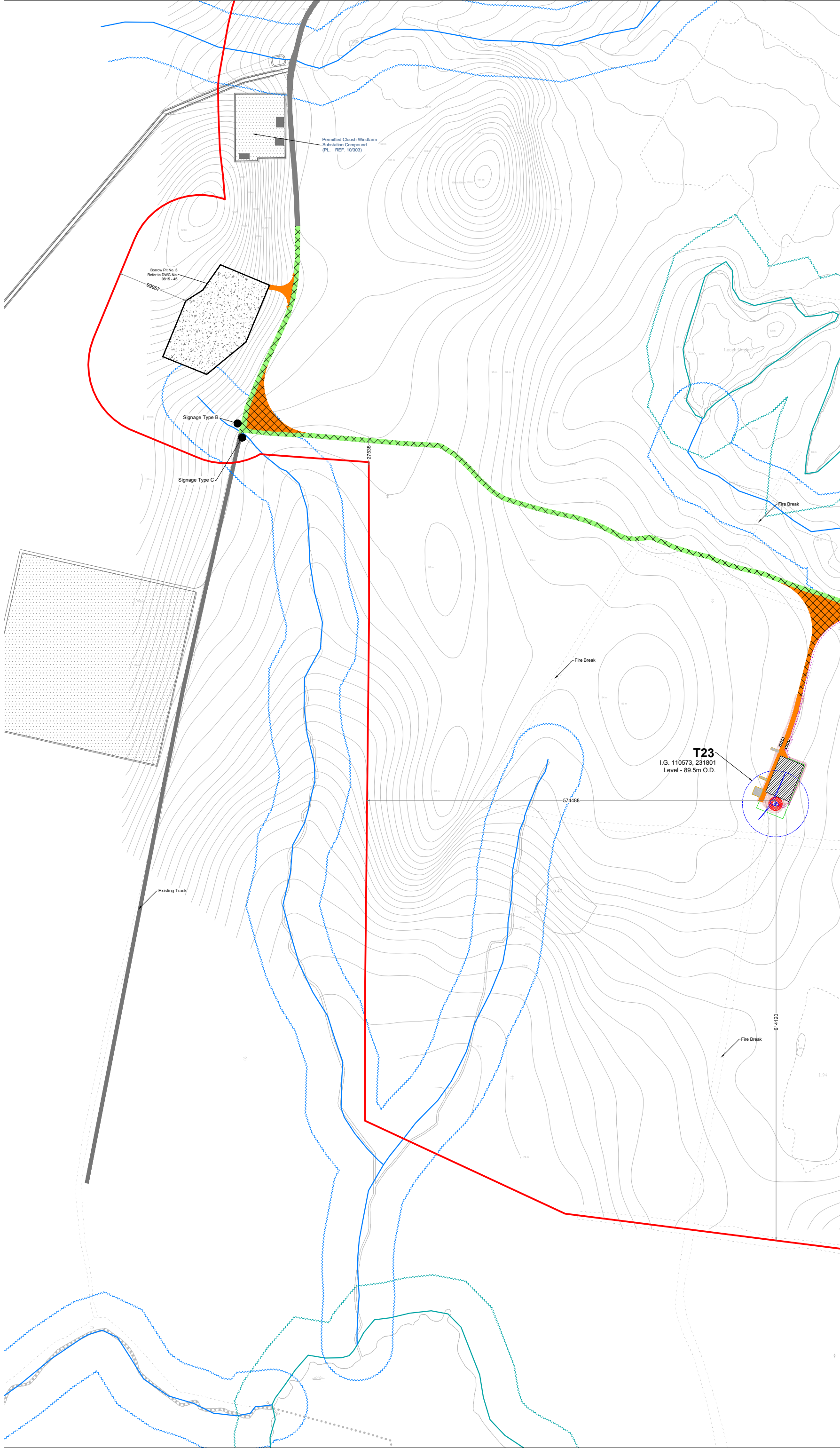


DRAWING TITLE:
**Site Layout Plan
Sheet 6 of 12**

PROJECT TITLE:
Arderroo Wind Farm, Co. Galway

DRAWING BY: Joseph O Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160815	DRAWING No.: 0815 - 13
SCALE: 1:2,500 @ A1	DATE: 22.11.2018

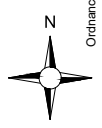
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

	Planning Application Boundary
	Existing Road To Be Upgraded
	Existing Floating Road to be Upgraded
	Proposed New Road
	Proposed New Floating Road
	Existing Road
	Works Area
	Soft Levelled Area
	Crane Pad Hardstanding Area
	Borrow Pit
	Indicative Internal Electrical Cable Trench
	Turbine and Swept Area
	Turbine Foundation
	River/Stream
	River/Stream Buffer 50m
	Lakes
	Lakes 50m Buffer
	Recreation Signage
	Indicative Cut
	Indicative Fill

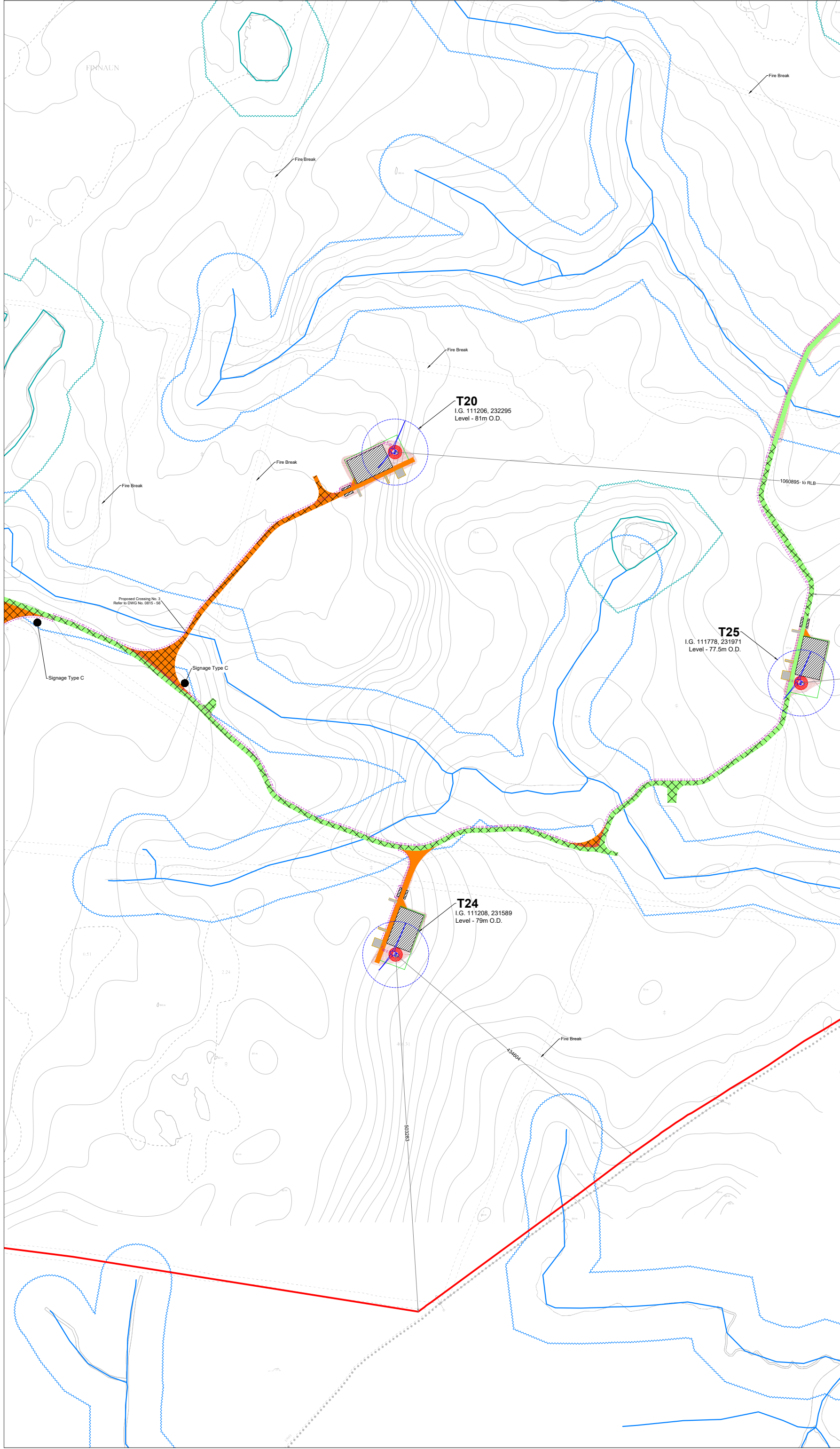


**Site Layout Plan
Sheet 7 of 12**

PROJECT TITLE:
Arderroo Wind Farm, Co. Galway

DRAWING BY: Joseph O Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160815	DRAWING No.: 0815 - 14
SCALE: 1:2,500 @ A1	DATE: 22.11.2018

OS SHEET No.:
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

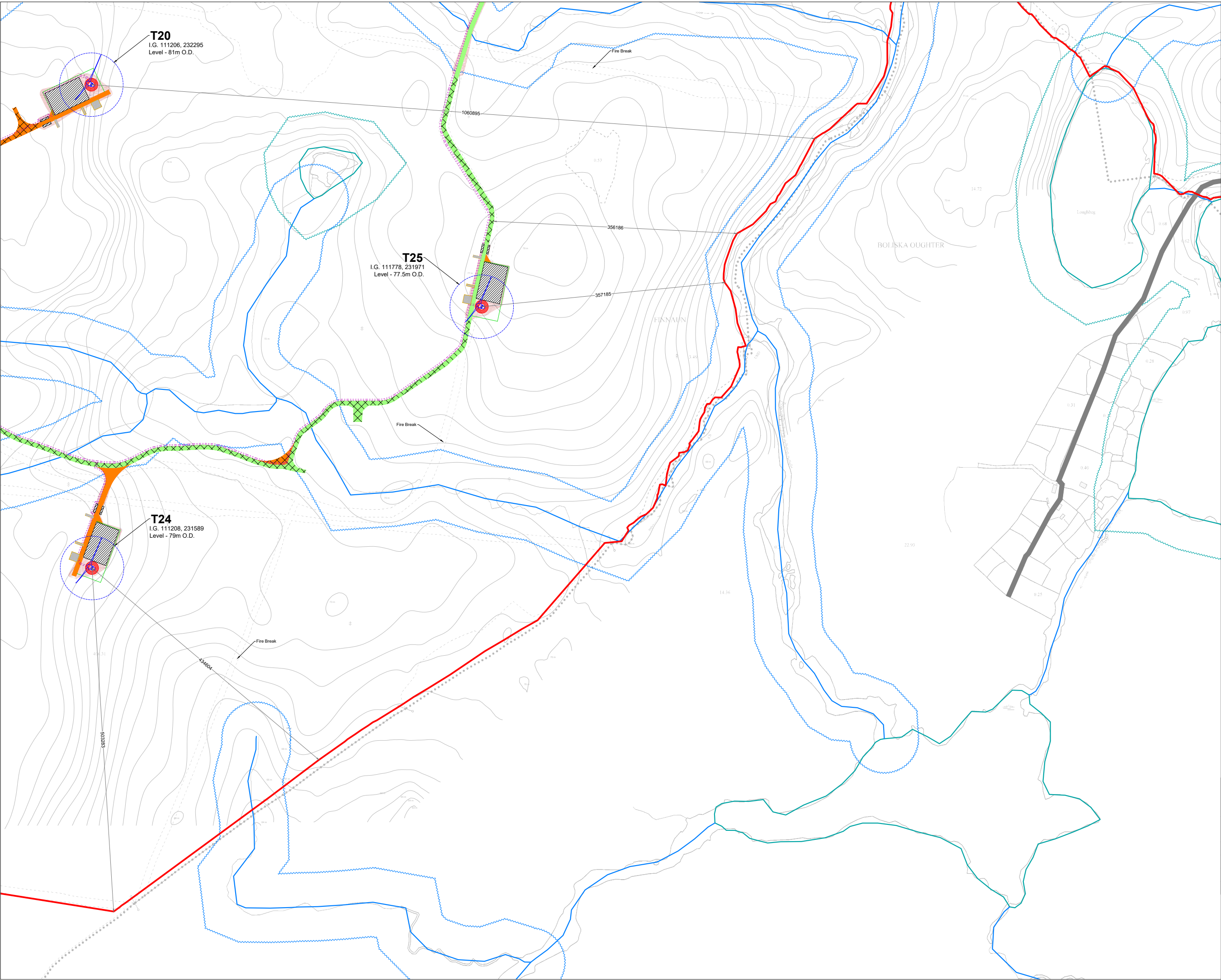
	Planning Application Boundary
	Existing Road To Be Upgraded
	Existing Floating Road to be Upgraded
	Proposed New Road
	Proposed New Floating Road
	Works Area
	Soft Levelled Area
	Crane Pad Handstanding Area
	Indicative Internal Electrical Cable Trench
	Turbine and Swept Area
	Turbine Foundation
	River/Stream
	River/Stream Buffer 50m
	Lakes
	Lakes 50m Buffer
	Recreation Signage
	Indicative Cut
	Indicative Fill

**Site Layout Plan
Sheet 8 of 12**

PROJECT TITLE:
Arderroo Wind Farm, Co. Galway

DRAWING BY: Joseph O Brien	CHECKED BY: Jimmy Green
PROJECT No: 160815	DRAWING No: 0815 - 15
SCALE: 1:2,500 @ A1	DATE: 22.11.2018

OS SHEET No:
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

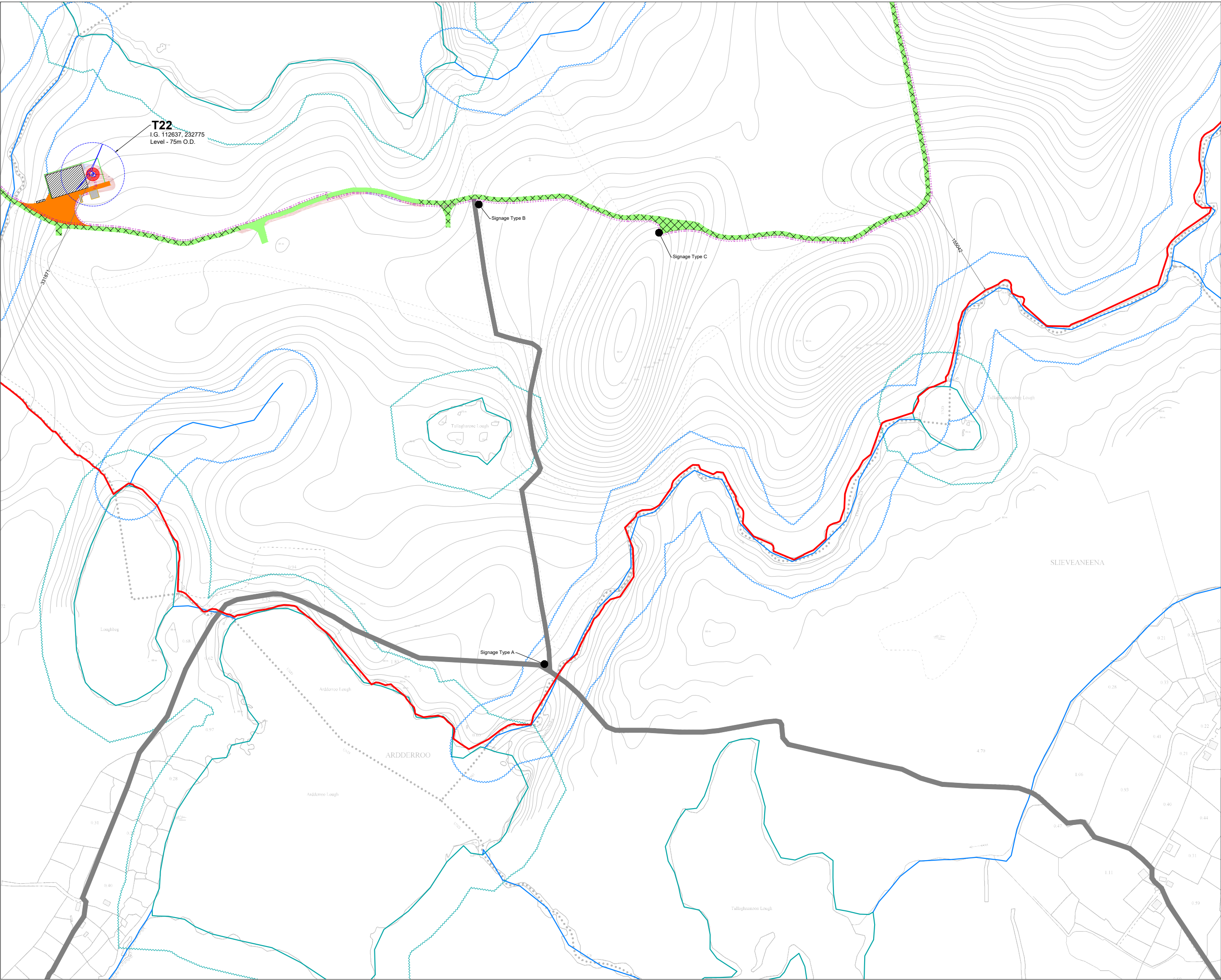
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	Existing Floating Road to be Upgraded
	Proposed New Road
	Proposed New Floating Road
	Works Area
	Soft Levelled Area
	Crane Pad Hardstanding Area
	Indicative Internal Electrical Cable Trench
	Turbine and Swept Area
	Turbine Foundation
	River/Stream
	River/Stream Buffer 50m
	Lakes
	Lakes 50m Buffer
	Recreation Signage
	Indicative Cut
	Indicative Fill

DRAWING TITLE:
**Site Layout Plan
 Sheet 9 of 12**

PROJECT TITLE:
 Ardderroo Wind Farm, Co. Galway

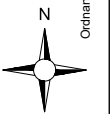
DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No: 160815	DRAWING No: 0815 - 16
SCALE: 1:2,500 @A1	DATE: 22.11.2018

OS SHEET No.:
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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

- Drawing Legend**
- Planning Application Boundary
 - Existing Road To Be Upgraded
 - Existing Floating Road To Be Upgraded
 - Proposed New Road
 - Existing Road
 - Works Area
 - Soft Levelled Area
 - Crane Pad Hardstanding Area
 - Indicative Internal Electrical Cable Trench
 - Turbine and Swept Area
 - Turbine Foundation
 - River/Stream
 - River/Stream Buffer 50m
 - Lakes
 - Lakes 50m Buffer
 - Recreation Signage
 - Indicative Cut
 - Indicative Fill

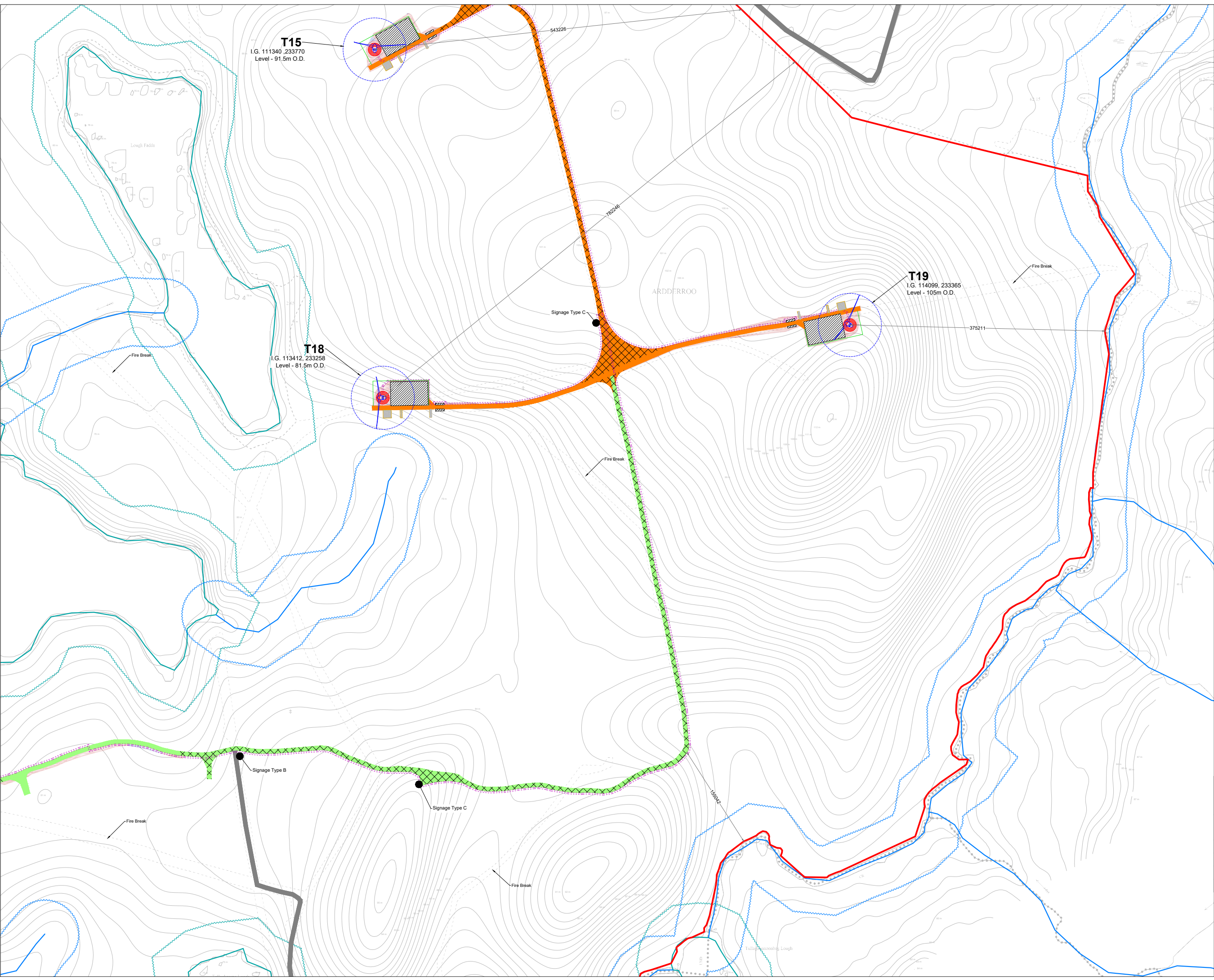


DRAWING TITLE:
**Site Layout Plan
 Sheet 10 of 12**

PROJECT TITLE:
 Ardderroo Wind Farm, Co. Galway

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No: 160815	DRAWING No.: 0815 - 17
SCALE: 1:2,500 @A1	DATE: 22.11.2018

OS SHEET No.: 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 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 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
 8. Final levels may vary depending on local ground conditions.

Drawing Legend

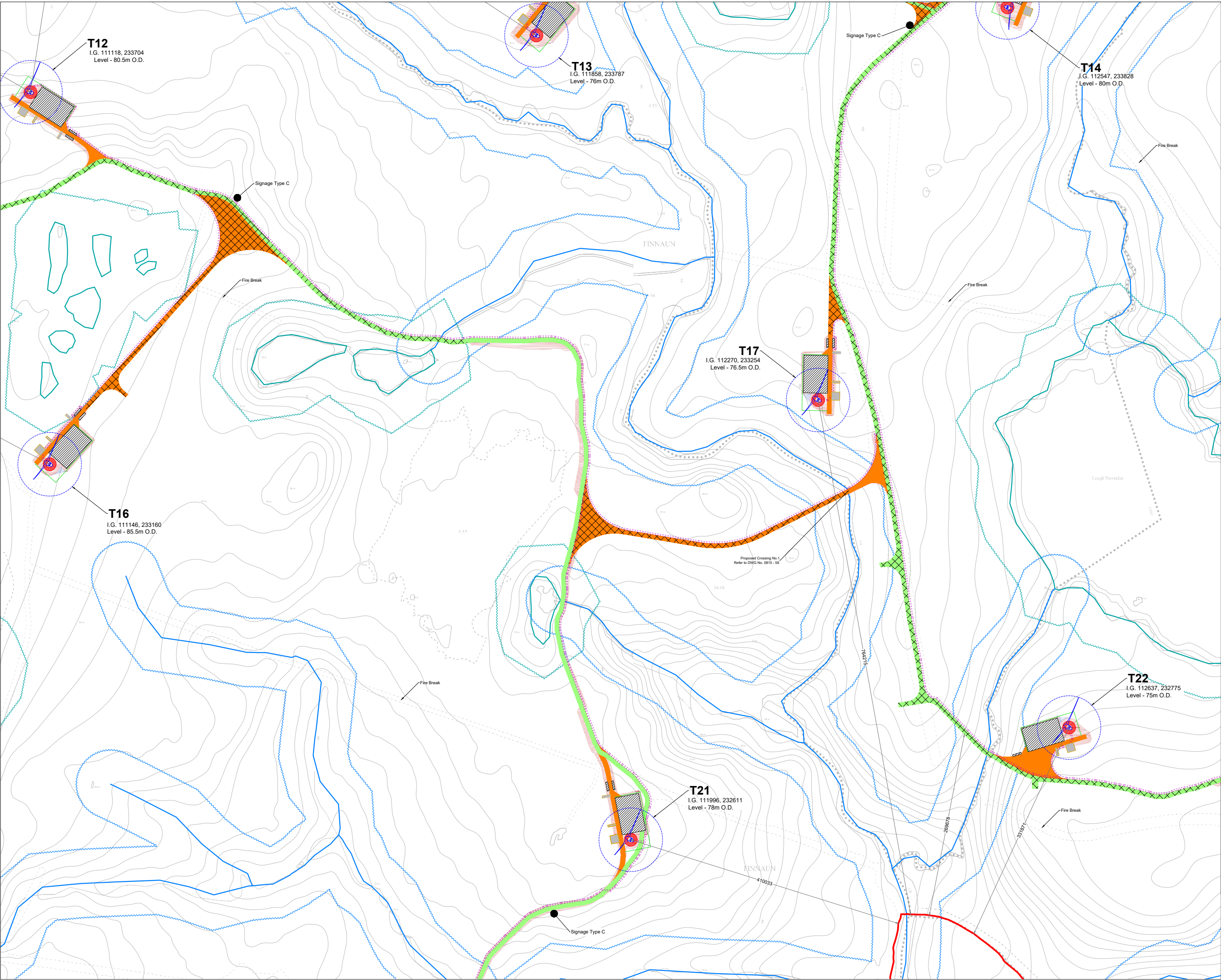
	Planning Application Boundary
	Existing Road To Be Upgraded
	Existing Floating Road to be Upgraded
	Proposed New Road
	Proposed New Floating Road
	Existing Road
	Works Area
	Soft Levelled Area
	Crane Pad Hardstanding Area
	Indicative Internal Electrical Cable Trench
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	Turbine Foundation
	River/Stream
	River/Stream Buffer 50m
	Lakes
	Lakes 50m Buffer
	Recreation Signage
	Indicative Cut
	Indicative Fill

DRAWING TITLE:
**Site Layout Plan
 Sheet 11 of 12**

PROJECT TITLE:
 Ardderroo Wind Farm, Co. Galway

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160815	DRAWING No.: 0815 - 18
SCALE: 1:2,500 @A1	DATE: 22.11.2018

OS SHEET No.:
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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
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Drawing Legend

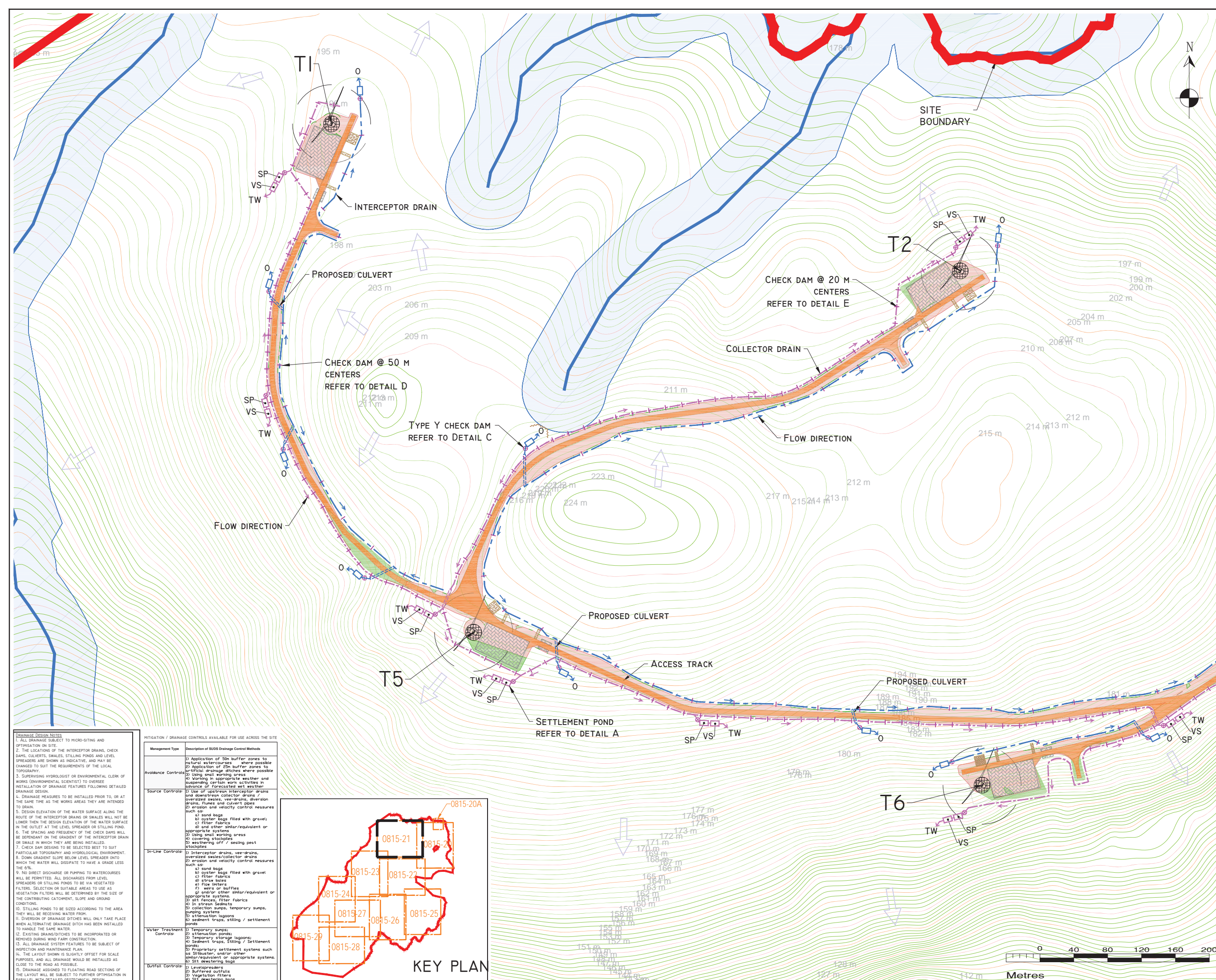
	Planning Application Boundary
	Existing Road To Be Upgraded
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	Proposed New Road
	Proposed New Floating Road
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	Turbine Foundation
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	River/Stream Buffer 50m
	Lakes
	Lakes 50m Buffer
	Recreation Signage
	Indicative Cut
	Indicative Fill

DRAWING TITLE:
Site Layout Plan
Sheet 12 of 12

PROJECT TITLE:
 Arderroo Wind Farm, Co. Galway

DRAWING BY: Joseph O'Brien	CHECKED BY: Jimmy Green
PROJECT No.: 160815	DRAWING No.: 0815 - 19
SCALE: 1:2,500 @A1	DATE: 22.11.2018

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DRAWING LEGEND :

- RIVERS/STREAMS
- LAKES
- RIVERS/STREAMS 50M BUFFER
- LAKES 50M BUFFER
- EXISTING CULVERTS/BRIDGES
- UPSTREAM INTERCEPTOR DRAIN
- SWALES/DOWNSTREAM COLLECTOR DRAIN
- DIRECTION OF FLOW
- SILT FENCES
- DOUBLE/TRIPLE SILT FENCES
- SETTLEMENT POND - LEVEL SPREADER
- SETTLEMENT POND - VEGETATION FILTER - LEVEL SPREADER
- CHECK DAM 'TYPE A'
- CHECK DAM 'TYPE B'
- PROPOSED CULVERTS/BRIDGES
- INTERCEPTOR DITCH CULVERT
- COLLECTOR DITCH CULVERT
- OVERLAND FLOW DISCHARGE
- TREATED WATER DISCHARGE
- SETTLEMENT POND
- SEMI-NATURAL VEGETATION SWALE / FILTER BED / SECONDARY SP
- PUMPING SUMP
- SITE BOUNDARY
- EXISTING GROUND SURFACE MAJOR CONTOUR (10 M INTERVAL)
- EXISTING GROUND SURFACE INTERMEDIATE CONTOUR (5 M INTERVAL)
- EXISTING GROUND SURFACE MINOR CONTOUR (1 M INTERVAL)
- TURBINE AND SWEEP AREA
- TURBINE FOUNDATION
- EXISTING ROAD
- EXISTING ROAD TO BE UPGRADED
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- CRANE PLATFORM
- BORROW PIT
- PROPOSED CUT AREA
- PROPOSED FILL AREA

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Date	Description	Chkd	Signed

HYDRO ENVIRONMENTAL SERVICES

22 Lower Main St
Dungarvan
Co. Waterford
Ireland

tel: +353 (0) 58-44122
tel: +353 (0) 58-44244
email: info@hydroenvironmental.ie
web: www.hydroenvironmental.ie

Client: **MCCARTHY KEVILLE O'SULLIVAN**

Job: **ARDDERROO WF, Co. GALWAY**

Title: **Drainage Layout Sheet 2 of 10**

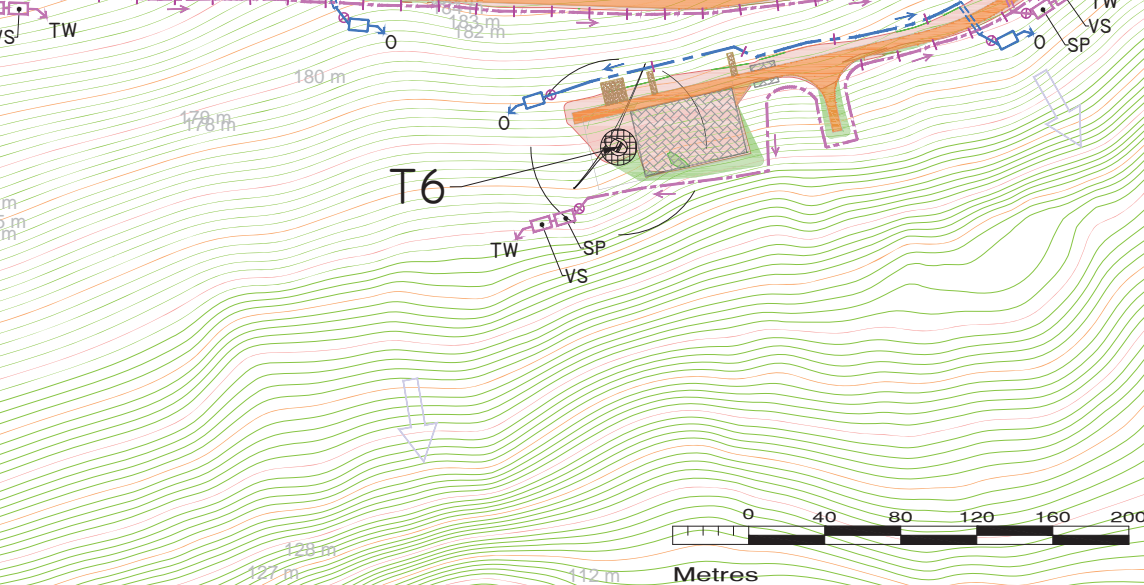
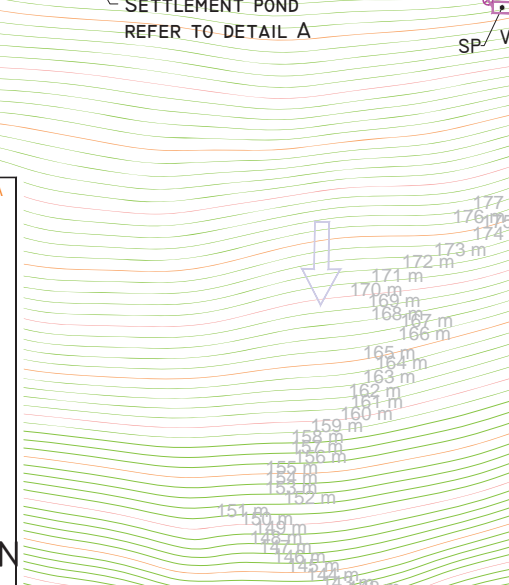
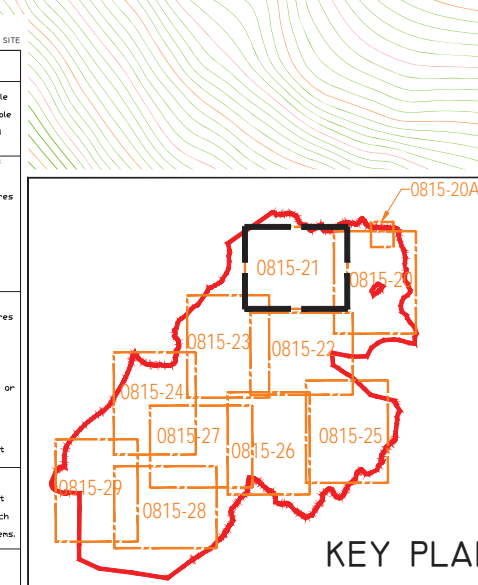
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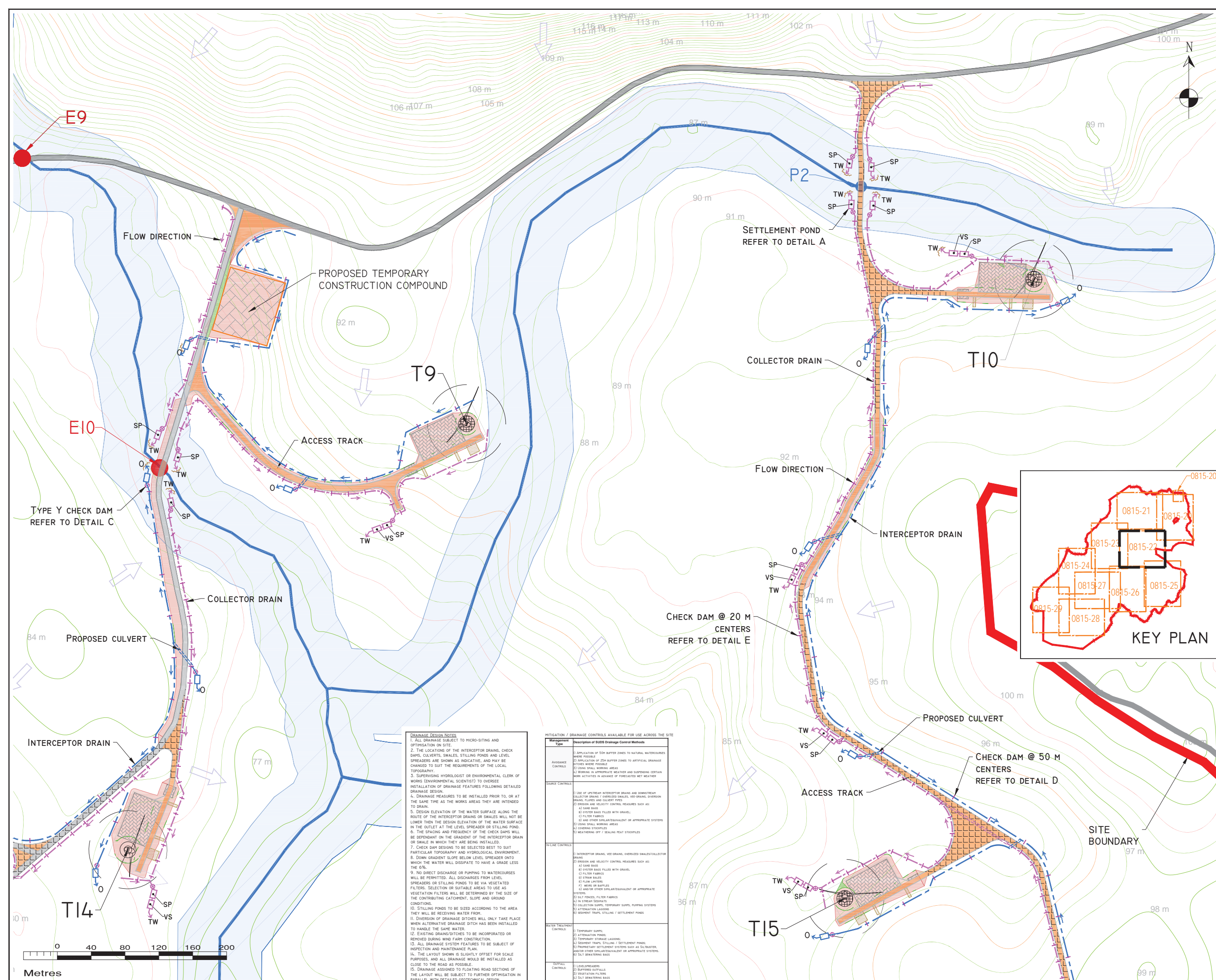
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Sheet Size: **A1** Project No.: **P1227-8**
Scale: **1:2,000 (A1)** Drawn By: **GD**
Date: **21/11/2018** Checked By: **MG**

Drainage Design Notes

- ALL DRAINAGE SUBJECT TO MICRO-SITING AND OPTIMISATION ON SITE.
- THE LOCATIONS OF THE INTERCEPTOR DRAINS, CHECK DAMS, CULVERTS, SWALES, STILLING PONDS AND LEVEL SPREADERS ARE SHOWN AS INDICATIVE, AND MAY BE CHANGED TO SUIT THE REQUIREMENTS OF THE LOCAL TOPOGRAPHY.
- SUPERVISING HYDROLOGIST OR ENVIRONMENTAL CLERK OF WORKS (ENVIRONMENTAL SCIENTIST) TO OVERSEE INSTALLATION OF DRAINAGE FEATURES FOLLOWING DETAILED DRAINAGE DESIGN.
- DRAINAGE MEASURES TO BE INSTALLED PRIOR TO, OR AT THE SAME TIME AS THE WORKS AREAS THEY ARE INTENDED TO DRAIN.
- DESIGN ELEVATION OF THE WATER SURFACE ALONG THE ROUTE OF THE INTERCEPTOR DRAIN OR SWALE WILL NOT BE LOWER THAN THE DESIGN ELEVATION OF THE WATER SURFACE IN THE OUTLET AT THE LEVEL SPREADER OR STILLING POND.
- THE SPACING AND FREQUENCY OF THE CHECK DAMS WILL BE DEPENDANT ON THE GRADIENT OF THE INTERCEPTOR DRAIN OR SWALE IN WHICH THEY ARE BEING INSTALLED.
- CHECK DAM DESIGNS TO BE SELECTED BEST TO SUIT PARTICULAR TOPOGRAPHY AND HYDROLOGICAL ENVIRONMENT.
- DOWN GRADIENT SLOPE BELOW LEVEL SPREADER ONTO WHICH THE WATER WILL DISSIPATE TO HAVE A GRADE LESS THE 6%.
- NO DIRECT DISCHARGE OR PUMPING TO WATERCOURSES WILL BE PERMITTED. ALL DISCHARGES FROM LEVEL SPREADERS OR STILLING PONDS TO BE VIA VEGETATED FILTERS. SELECTION OF SUITABLE AREAS TO USE AS VEGETATION FILTERS WILL BE DETERMINED BY THE SIZE OF THE CONTRIBUTING CATCHMENT, SLOPE AND GROUND CONDITIONS.
- STILLING PONDS TO BE SIZED ACCORDING TO THE AREA THEY WILL BE RECEIVING WATER FROM.
- DIVERSION OF DRAINAGE DITCHES WILL ONLY TAKE PLACE WHEN ALTERNATIVE DRAINAGE DITCH HAS BEEN INSTALLED TO HANDLE THE SAME WATER.
- EXISTING DRAINS/DITCHES TO BE INCORPORATED OR REMOVED DURING AND FAIR CONSTRUCTION.
- ALL DRAINAGE SYSTEM FEATURES TO BE SUBJECT OF INSPECTION AND MAINTENANCE PLAN.
- THE LAYOUT SHOWN IS SLIGHTLY OFFSET FOR SCALE PURPOSES, AND ALL DRAINAGE WOULD BE INSTALLED AS CLOSE TO THE ROAD AS POSSIBLE.
- DRAINAGE ASSIGNED TO FLOATING ROAD SECTIONS OF THE LAYOUT WILL BE SUBJECT TO FURTHER OPTIMISATION IN PARALLEL WITH DETAILED GEOTECHNICAL DESIGN.



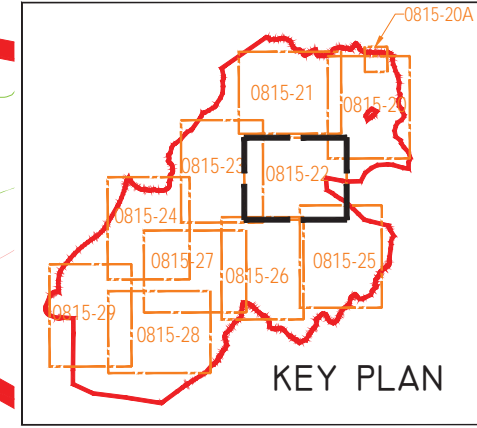


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Date	Description	Chkd	Signed

HYDRO ENVIRONMENTAL SERVICES

22 Lower Main St
Dungavan
Co. Waterford
Ireland

tel: +353 (0) 58-44122
tel: +353 (0) 58-44244
email: info@hydroenvironmental.ie
web: www.hydroenvironmental.ie

Client: **MCCARTHY KEVILLE O'SULLIVAN**

Job: **ARDDERROO WF, Co. GALWAY**

Title: **Drainage Layout Sheet 3 of 10**

Figure No: **0815-22**

Drawing No: **P1227-8-1118-A1-0815-22-00A**

Sheet Size: **A1** Project No.: **P1227-8**

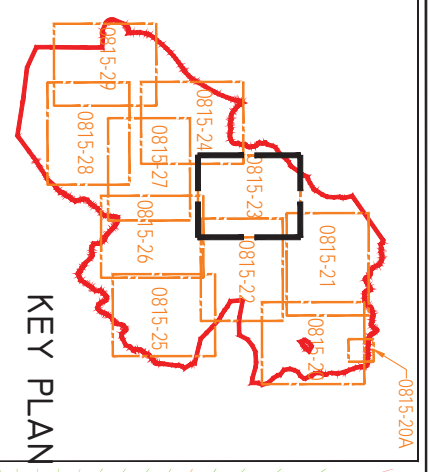
Scale: **1:2,000 (A1)** Drawn By: **GD**
Date: **21/11/2018** Checked By: **MG**

DRAINAGE DESIGN NOTES

1. ALL DRAINAGE SUBJECT TO MICRO-SITING AND OPTIMISATION ON SITE.
2. THE LOCATIONS OF THE INTERCEPTOR DRAINS, CHECK DAMS, CULVERTS, SWALES, STILLING PONDS AND LEVEL SPREADERS ARE SHOWN AS INDICATIVE, AND MAY BE CHANGED TO SUIT THE REQUIREMENTS OF THE LOCAL TOPOGRAPHY.
3. SUPERVISING HYDROLOGIST OR ENVIRONMENTAL CLERK OF WORKS (ENVIRONMENTAL SCIENTIST) TO OVERSEE INSTALLATION OF DRAINAGE FEATURES FOLLOWING DETAILED DRAINAGE DESIGN.
4. DRAINAGE MEASURES TO BE INSTALLED PRIOR TO, OR AT THE SAME TIME AS, THE WORKS AREAS THEY ARE INTENDED TO DRAIN.
5. DESIGN ELEVATION OF THE WATER SURFACE ALONG THE ROUTE OF THE INTERCEPTOR DRAINS OR SWALES WILL NOT BE LOWER THAN THE DESIGN ELEVATION OF THE WATER SURFACE IN THE OUTLET AT THE LEVEL SPREADER OR STILLING POND.
6. THE SPACING AND FREQUENCY OF THE CHECK DAMS WILL BE DEPENDANT ON THE GRADIENT OF THE INTERCEPTOR DRAIN OR SWALE IN WHICH THEY ARE BEING INSTALLED.
7. CHECK DAM DESIGNS TO BE SELECTED BEST TO SUIT PARTICULAR TOPOGRAPHY AND HYDROLOGICAL ENVIRONMENT.
8. DOWN GRADIENT SLOPE BELOW LEVEL SPREADER ONTO WHICH THE WATER WILL DISSEPERATE TO HAVE A GRADE LESS THE 0%.
9. NO DIRECT DISCHARGE OR PUMPING TO WATERCOURSES WILL BE PERMITTED. ALL DISCHARGES FROM LEVEL SPREADERS OR STILLING PONDS TO BE VIA VEGETATED FILTERS. SELECTION OR SUITABLE AREAS TO USE AS VEGETATION FILTERS WILL BE DETERMINED BY THE SIZE OF THE CONTRIBUTING CATCHMENT, SLOPE AND GROUND CONDITIONS.
10. STILLING PONDS TO BE SIZED ACCORDING TO THE AREA THEY WILL BE RECEIVING WATER FROM.
11. DIVERSION OF DRAINAGE DITCHES WILL ONLY TAKE PLACE WHEN ALTERNATIVE DRAINAGE DITCH HAS BEEN INSTALLED TO HANDLE THE SAME WATER.
12. EXISTING DRAINS/DITCHES TO BE INCORPORATED OR REMOVED DURING WIND FARM CONSTRUCTION.
13. ALL DRAINAGE SYSTEM FEATURES TO BE SUBJECT OF INSPECTION AND MAINTENANCE PLAN.
14. THE LAYOUT SHOWN IS SLIGHTLY OFFSET FOR SCALE PURPOSES, AND ALL DRAINAGE WOULD BE INSTALLED AS CLOSE TO THE ROAD AS POSSIBLE.
15. DRAINAGE ASSIGNED TO FLOATING ROAD SECTIONS OF THE LAYOUT WILL BE SUBJECT TO FURTHER OPTIMISATION IN PARALLEL WITH DETAILED GEOTECHNICAL DESIGN.

MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE

Management Type	Description of SUDS Drainage Control Methods
AVOIDANCE CONTROLS	1) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE 2) APPLICATION OF 25M BUFFER ZONES TO ARTIFICIAL DRAINAGE SYSTEMS WHERE POSSIBLE 3) USING SMALL WORKING AREAS 4) WORKING IN APPROPRIATE WEATHER AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER
SOURCE CONTROLS	1) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERLAND SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND GULLY TYPES 2) DESIGN AND VELOCITY CONTROL MEASURES SUCH AS: a) SAND BASINS b) SYSTEM BAGS FILLED WITH GRAVEL c) FILTER FABRICS d) VEGETATION BAGS FILLED WITH GRAVEL e) VEGETATION BAGS FILLED WITH GRAVEL f) VEGETATION BAGS FILLED WITH GRAVEL g) VEGETATION BAGS FILLED WITH GRAVEL h) VEGETATION BAGS FILLED WITH GRAVEL i) VEGETATION BAGS FILLED WITH GRAVEL j) VEGETATION BAGS FILLED WITH GRAVEL k) VEGETATION BAGS FILLED WITH GRAVEL l) VEGETATION BAGS FILLED WITH GRAVEL m) VEGETATION BAGS FILLED WITH GRAVEL n) VEGETATION BAGS FILLED WITH GRAVEL o) VEGETATION BAGS FILLED WITH GRAVEL p) VEGETATION BAGS FILLED WITH GRAVEL q) VEGETATION BAGS FILLED WITH GRAVEL r) VEGETATION BAGS FILLED WITH GRAVEL s) VEGETATION BAGS FILLED WITH GRAVEL t) VEGETATION BAGS FILLED WITH GRAVEL u) VEGETATION BAGS FILLED WITH GRAVEL v) VEGETATION BAGS FILLED WITH GRAVEL w) VEGETATION BAGS FILLED WITH GRAVEL x) VEGETATION BAGS FILLED WITH GRAVEL y) VEGETATION BAGS FILLED WITH GRAVEL z) VEGETATION BAGS FILLED WITH GRAVEL
IN-LINE CONTROLS	1) INTERCEPTOR DRAIN, VEE-DRAIN, OVERLAND SWALES/COLLECTOR DRAINS 2) DESIGN AND VELOCITY CONTROL MEASURES SUCH AS: a) SAND BASINS b) SYSTEM BAGS FILLED WITH GRAVEL c) FILTER FABRICS d) VEGETATION BAGS FILLED WITH GRAVEL e) VEGETATION BAGS FILLED WITH GRAVEL f) VEGETATION BAGS FILLED WITH GRAVEL g) VEGETATION BAGS FILLED WITH GRAVEL h) VEGETATION BAGS FILLED WITH GRAVEL i) VEGETATION BAGS FILLED WITH GRAVEL j) VEGETATION BAGS FILLED WITH GRAVEL k) VEGETATION BAGS FILLED WITH GRAVEL l) VEGETATION BAGS FILLED WITH GRAVEL m) VEGETATION BAGS FILLED WITH GRAVEL n) VEGETATION BAGS FILLED WITH GRAVEL o) VEGETATION BAGS FILLED WITH GRAVEL p) VEGETATION BAGS FILLED WITH GRAVEL q) VEGETATION BAGS FILLED WITH GRAVEL r) VEGETATION BAGS FILLED WITH GRAVEL s) VEGETATION BAGS FILLED WITH GRAVEL t) VEGETATION BAGS FILLED WITH GRAVEL u) VEGETATION BAGS FILLED WITH GRAVEL v) VEGETATION BAGS FILLED WITH GRAVEL w) VEGETATION BAGS FILLED WITH GRAVEL x) VEGETATION BAGS FILLED WITH GRAVEL y) VEGETATION BAGS FILLED WITH GRAVEL z) VEGETATION BAGS FILLED WITH GRAVEL
WATER TREATMENT CONTROLS	1) TEMPORARY SUMPS 2) ATTEMPTION POND 3) TEMPORARY STORAGE LAGOONS 4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 5) PROPERLY SIZED SETTLEMENT SYSTEMS SUCH AS SILT TRAPS AND/OR OTHER SIMILAR EQUIVALENT OR APPROPRIATE SYSTEMS 6) SILT FENCES, FILTER FABRICS 7) IN-THE-DRAIN EQUIPMENT 8) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS 9) ATTEMPTION LAGOONS 10) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS
OUTFALL CONTROLS	1) VEGETATION BAGS 2) BUFFERING SOFTSILLS 3) VEGETATION FILTERS 4) SILT TRAPPING BAGS 5) FLUM LAYERS AND BAGS



DRAINAGE DESIGN NOTES

1. ALL SPANNAES SUBJECT TO MICRO-SITING AND OPTIMIZATION ON SITE.
2. THE INTERCEPTOR DRAIN, CHECK DAMS, CULVERTS, SWALES, STILLING PONS AND LEVEL SPREADERS ARE SHOWN AS INDICATIVE AND MAY BE MODIFIED TO SUIT THE REQUIREMENTS OF THE LOCAL TOPOGRAPHY.
3. SUPERVENING HYDROLOGIST OR ENVIRONMENTAL ENGINEER SHALL BE CONSULTED TO ADVISE ON THE NECESSITY OF INSTALLATION OF REMEDIATION FEATURES FOLLOWING DETAILED DRAINAGE DESIGN.
4. THE INTERCEPTOR DRAIN OR SWALES WILL NOT BE LOWER THAN THE DESIGN ELEVATION OF THE WATER SURFACE OF THE SPILLWAY AND MOUNDING OF THE CHECK DAMS WILL BE DEPENDANT ON THE GRADIENT OF THE INTERCEPTOR DRAIN.
5. CHECK DAM DESIGNS TO BE SELECTED BEST TO SUIT PARTICULAR TOPOGRAPHY AND HYDROLOGICAL ENVIRONMENT WHICH THE WATER WILL DISPERSE TO HAVE A GRADE LESS THAN THE DESIGN ELEVATION OF THE WATER SURFACE.
6. THE EFFECT OF SPANNING OR PILING ON MICROTOPOGRAPHY WILL BE REFINISHED. ALL DISCHARGES FROM LEVEL SPREADERS OR STILLING PONS TO BE VIA VEGETATED VEGETATION FILTERS TO BE DETERMINED BY THE SIZE OF THE CONTRIBUTING CATCHMENT, SLOPE AND GRADE.
7. STILLING PONS TO BE SIZED ACCORDING TO THE AREA THEY WILL BE RECEIVING WATER FROM.
8. ONLY TANK PLACES WHEN ALTERNATIVE DRAINAGE OPTION HAS BEEN INSTALLED TO HANDLE THE SAME WATER.
9. ALL DRAINAGE SYSTEM FEATURES TO BE SUBJECT OF REMOVED DRAINAGE AND LATER CONNECTION.
10. THE LAYOUT SHOWN IS SIMPLY A GUIDE FOR SCALE PURPOSES AND ALL SPANNAES SHOULD BE INFERRED AS TO BE SUBJECT TO FURTHER OPTIMIZATION IN THE LAYOUT WILL BE SUBJECT TO FURTHER OPTIMIZATION IN CONSULTATION WITH THE CLIENT.

PROPOSED DRAINAGE CONTROL AVAILABLE FOR USE ACROSS THE SITE

Symbol	Description
	1. Application of flow path to be used to indicate watercourse
	2. Proposed drainage line
	3. Direction of flow
	4. Proposed drainage line with flow direction
	5. Proposed drainage line with flow direction and flow rate
	6. Proposed drainage line with flow direction and flow rate and flow rate
	7. Proposed drainage line with flow direction and flow rate and flow rate and flow rate
	8. Proposed drainage line with flow direction and flow rate and flow rate and flow rate and flow rate
	9. Proposed drainage line with flow direction and flow rate and flow rate and flow rate and flow rate and flow rate
	10. Proposed drainage line with flow direction and flow rate and flow rate and flow rate and flow rate and flow rate and flow rate

DRAINING LEGEND:

	RIVERS/STREAMS
	LAKES
	RIVERS/STREAMS SOW BUFFER
	LAKES SOW BUFFER
	EXISTING CULVERTS/BRIDGES
	UPSTREAM INTERCEPTOR DRAIN
	SWALES/DOWNSTREAM COLLECTOR DRAIN
	DIRECTION OF FLOW
	SILT FENCES
	DOUBLE/TRIPLE SILT FENCES
	SETTLEMENT POND - LEVEL SPREADER
	SETTLEMENT POND - VEGETATION FILTER
	LEVEL SPREADER
	CHECK DAM TYPE A
	CHECK DAM TYPE B

PROPOSED DRAINAGE

	PROPOSED CULVERTS/BRIDGES
	INTERCEPTOR DITCH CULVERT
	COLLECTOR DITCH CULVERT
	OVERLAND FLOW DISCHARGE
	TREATED WATER DISCHARGE
	SETTLEMENT POND
	SEMI-NATURAL VEGETATION SWALE / FILTER BED / SECONDARY SP
	PUMPING SHED
	SITE BOUNDARY
	EXISTING GROUND SURFACE MAJOR CONTOUR (10 M INTERNAL)
	EXISTING GROUND SURFACE INTERMEDIATE CONTOUR (5 M INTERNAL)
	EXISTING GROUND SURFACE MINOR CONTOUR (1 M INTERNAL)
	TURBINE FOUNDATION
	EXISTING ROAD
	PROPOSED ROAD TO BE UPGRADED
	PROPOSED ROAD
	FLOATING ROAD
	CRANE PLATFORM
	BORROW PIT
	PROPOSED CUT AREA
	PROPOSED FILL AREA

PROJECT DESIGN DRAWING NOTES

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2. CONTRACT AND CONDITIONS.
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6. LAYOUT PLANS SHOW TYPICAL TURBINE MOTOR DIAMETERS AS PER TURBINE DRAWING.

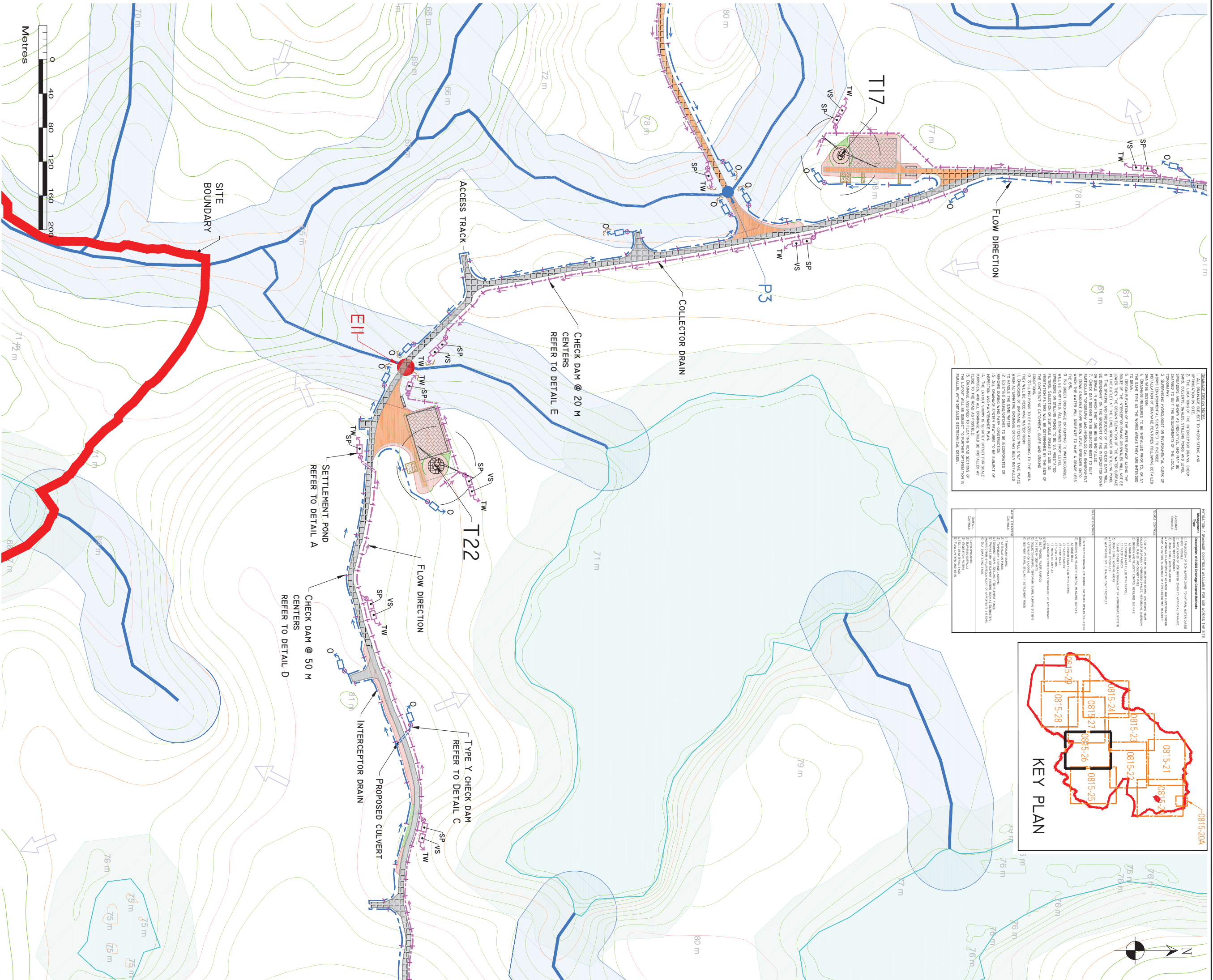
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Date	Description	Chkd	Signed

Client:	MCCARTHY KEVILLE O'SULLIVAN
Job:	ARDERROO WF. CO. GALWAY
Title:	Drainage layout Sheet 4 of 10
Figure No.:	0815-23
Drawing No.:	P1227-B-1118-A1-0815-23-00A
Sheet Size:	A1
Scale:	1:2,000 (A1)
Date:	21/11/2018
Drawn By:	GD
Checked By:	MG

21 Lower Main St
Dungarvan
Co. Waterford
Ireland

tel: +353 (0) 58 44122
tel: +353 (0) 58 44244
email: info@hydroenvironmental.ie
web: www.hydroenvironmental.ie



DRAWING LEGEND:

	RIVERS/STREAMS
	LAKES
	RIVERS/STREAMS SILT BUFFER
	LAKES SILT BUFFER
	EXISTING CULVERTS/BRIDGES
	UPSTREAM INTERCEPTOR DRAIN
	SWALES/DOWNSTREAM COLLECTOR DRAIN
	DIRECTION OF FLOW
	SILT FENCES
	DOUBLE/TRIPLE SILT FENCES
	SETTLEMENT POND - LEVEL SPREADER
	LEVEL SPREADER
	CHECK DAM TYPE A
	CHECK DAM TYPE B

PROPOSED DRAINAGE

	PROPOSED CULVERTS/BRIDGES
	INTERCEPTOR DITCH CULVERT
	COLLECTOR DITCH CULVERT
	OVERLAND FLOW DISCHARGE
	TREATED WATER DISCHARGE
	SETTLEMENT POND
	SEMI-NATURAL VEGETATION SWALE / FILTER BED / SECONDARY SP
	PIPING SUMP
	SITE BOUNDARY
	MAJOR GROUND SURFACE
	EXISTING GROUND SURFACE (10 M INTERVAL)
	INTERMEDIATE GROUND SURFACE (5 M INTERVAL)
	MINOR GROUND SURFACE (1 M INTERVAL)
	TURBINE AND SWEET AREA

EXISTING DRAINAGE

	EXISTING CULVERTS/BRIDGES
	EXISTING ROAD
	PROPOSED ROAD TO BE UPGRADED
	PROPOSED ROAD
	FLOATING ROAD
	CRANE PLATFORM
	BORROW PIT
	PROPOSED CUT AREA
	PROPOSED FILL AREA

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- THIS DRAWING IS A PART OF THE PROJECT DESIGN AS PER THE TYPICAL TOWBINE MOTOR DIAMETER AS PER TOWBINE DRAWING.
- THE USE OF OR RELIANCE UPON THIS DRAWING SHALL BE AT THE USER'S RISK.
- DESIGNER'S RESPONSIBILITY IS LIMITED TO THE DESIGN UNLESS OTHERWISE AGreed IN WRITING. SUCH WRITTEN AGREEMENT TO BE SOUGHT FROM AND ISSUED BY THE COPYRIGHT HOLDER TO THE USER OR RELIANCE UPON.
- THIS DRAWING IS A PART OF THE PROJECT DESIGN AS PER THE TYPICAL TOWBINE MOTOR DIAMETER AS PER TOWBINE DRAWING.

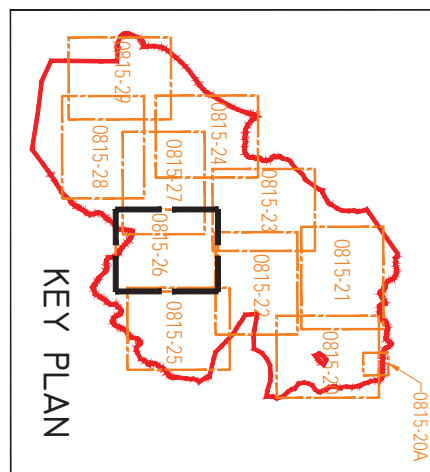
Client: MCCARTHY KEVILLE O'SULLIVAN	
Job: ARDERROO WF. CO. GALWAY	
Title: DRAINAGE LAYOUT SHEET 7 OF 10	
Figure No: 0815-26	
Drawing No: P1227-8-1118-A1-0815-26-00A	
Sheet Size: A1	Project No.: P1227-8
Scale: 1:2,000 (A1)	Drawn By: GJD
Date: 21/11/2018	Checked By: MG

DESIGN DESIGN NOTES

1. THE LOCATION OF THE INTERCEPTOR DRAIN CHECK DAMS SHALL BE SHOWN AS INDICATIVE, AND MAY BE CHANGED TO SUIT THE REQUIREMENTS OF THE LOCAL AUTHORITY.
2. THE LOCATION OF THE INTERCEPTOR DRAIN CHECK DAMS SHALL BE SHOWN AS INDICATIVE, AND MAY BE CHANGED TO SUIT THE REQUIREMENTS OF THE LOCAL AUTHORITY.
3. SUPERSEDES HYDROLOGIST OR ENVIRONMENTAL CLERK OF WORK (ENVIRONMENTAL SERVICES) TO CONSIDER THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.
4. DESIGN MEASURES TO BE INSTALLED FROM TO, OR AT THE END OF THE DRAINAGE SYSTEM, SHALL BE INSTALLED TO SUIT THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.
5. DESIGN ELEVATION OF THE WATER SURFACE ABOVE THE DRAINAGE SYSTEM SHALL BE INSTALLED TO SUIT THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.
6. DOWN SLOPE SHALL BE INSTALLED TO SUIT THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.
7. DESIGN ELEVATION OF THE WATER SURFACE ABOVE THE DRAINAGE SYSTEM SHALL BE INSTALLED TO SUIT THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.
8. DOWN SLOPE SHALL BE INSTALLED TO SUIT THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.
9. NO DIRECT DISCHARGE OF RAINWATER TO WATERCOURSES SHALL BE INSTALLED TO SUIT THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.
10. DESIGN ELEVATION OF THE WATER SURFACE ABOVE THE DRAINAGE SYSTEM SHALL BE INSTALLED TO SUIT THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.
11. DESIGN ELEVATION OF THE WATER SURFACE ABOVE THE DRAINAGE SYSTEM SHALL BE INSTALLED TO SUIT THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.
12. EXISTING DRAINAGE SYSTEMS TO BE ACCOMMODATED ON THE SITE SHALL BE INSTALLED TO SUIT THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.
13. ALL DRAINAGE SYSTEMS SHALL BE INSTALLED TO SUIT THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.
14. ALL DRAINAGE SYSTEMS SHALL BE INSTALLED TO SUIT THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.
15. ALL DRAINAGE SYSTEMS SHALL BE INSTALLED TO SUIT THE LOCAL AUTHORITY'S REQUIREMENTS FOR THE DESIGN OF DRAINAGE DESIGN.

PROPOSED DRAINAGE CONTROL MEASURES FOR USE ACROSS THE SITE

Type	Description of Proposed Control Measures
Interceptor Drain	Interceptor drain, vertical, concrete, installed parallel to the site boundary, to collect and divert runoff from the site.
Collector Drain	Collector drain, vertical, concrete, installed parallel to the site boundary, to collect and divert runoff from the site.
Check Dam	Check dam, concrete, installed across the drainage path, to reduce the velocity of runoff and prevent erosion.
Settlement Pond	Settlement pond, concrete, installed at the end of the drainage path, to settle sediment and debris from the runoff.
Silt Fence	Silt fence, vegetative, installed across the drainage path, to trap sediment and debris from the runoff.
Vegetative Swale	Vegetative swale, installed across the drainage path, to slow down runoff and trap sediment and debris from the runoff.
Filter Bed	Filter bed, installed across the drainage path, to filter out sediment and debris from the runoff.
Secondary SP	Secondary silt pond, installed at the end of the drainage path, to settle sediment and debris from the runoff.
Piping Sump	Piping sump, installed at the end of the drainage path, to collect and divert runoff from the site.



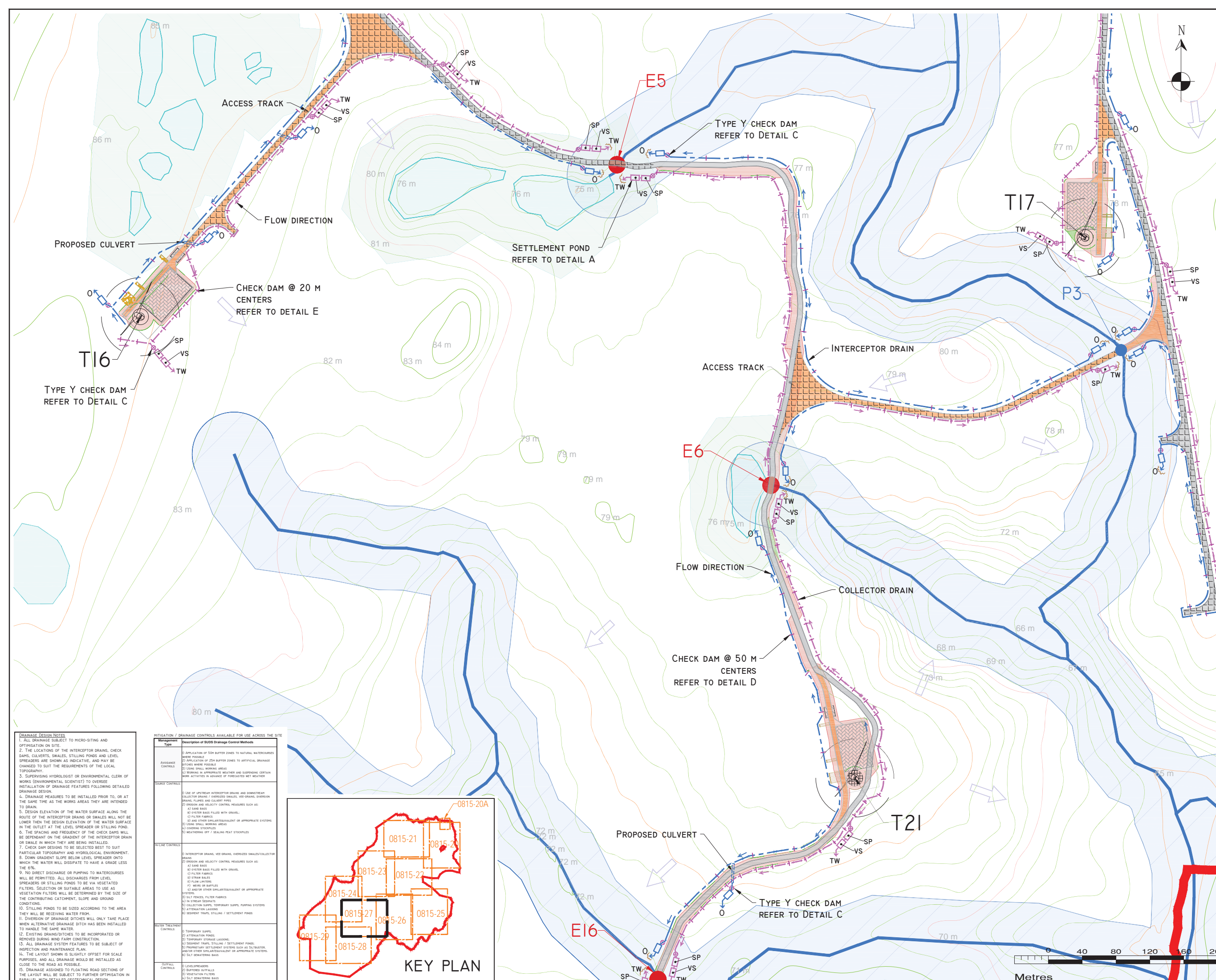
Revisions

Date	Description	Chkd	Signed

Hydro Environmental Services

21 Lower Main St
Dungarvan
Co. Waterford
Ireland

tel: +353 (0) 58 44122
tel: +353 (0) 58 44244
email: info@hydroenvironmental.ie
web: www.hydroenvironmental.ie



DRAWING LEGEND :

- RIVERS/STREAMS
- LAKES
- RIVERS/STREAMS 50M BUFFER
- LAKES 50M BUFFER
- EXISTING CULVERTS/BRIDGES
- UPSTREAM INTERCEPTOR DRAIN
- SWALES/DOWNSTREAM COLLECTOR DRAIN
- DIRECTION OF FLOW
- SILT FENCES
- DOUBLE/TRIPLE SILT FENCES
- SETTLEMENT POND - LEVEL SPREADER
- SETTLEMENT POND - VEGETATION FILTER - LEVEL SPREADER
- CHECK DAM 'TYPE A'
- CHECK DAM 'TYPE B'
- PROPOSED CULVERTS/BRIDGES
- INTERCEPTOR DITCH CULVERT
- COLLECTOR DITCH CULVERT
- OVERLAND FLOW DISCHARGE
- TREATED WATER DISCHARGE
- SETTLEMENT POND
- SEMI-NATURAL VEGETATION SWALE / FILTER BED / SECONDARY SP
- PUMPING SUMP
- SITE BOUNDARY
- EXISTING GROUND SURFACE MAJOR CONTOUR (10 M INTERVAL)
- EXISTING GROUND SURFACE INTERMEDIATE CONTOUR (5 M INTERVAL)
- EXISTING GROUND SURFACE MINOR CONTOUR (1 M INTERVAL)
- TURBINE AND SWEEP AREA
- TURBINE FOUNDATION
- EXISTING ROAD
- EXISTING ROAD TO BE UPGRADED
- PROPOSED ROAD
- FLOATING ROAD
- CRANE PLATFORM
- BORROW PIT
- PROPOSED CUT AREA
- PROPOSED FILL AREA

PROJECT DESIGN DRAWING NOTES

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- LAYOUT PLANS SHOW TYPICAL TURBINE ROTOR DIAMETER AS PER TURBINE DRAWING.

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Date	Description	Chkd	Signed
Revisions			

HYDRO ENVIRONMENTAL SERVICES
 22 Lower Main St | tel: +353 (0) 58-44122
 Dungarvan | tel: +353 (0) 58-44244
 Co. Waterford | email: info@hydroenvironmental.ie
 Ireland | web: www.hydroenvironmental.ie

Client: **MCCARTHY KEVILLE O'SULLIVAN**

Job: **ARDDERROO WF, Co. GALWAY**

Title: **Drainage Layout Sheet 8 of 10**

Figure No: **0815-27**

Drawing No: **P1227-8-1118-A1-0815-27-00A**

Sheet Size: **A1** Project No.: **P1227-8**

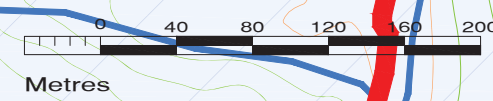
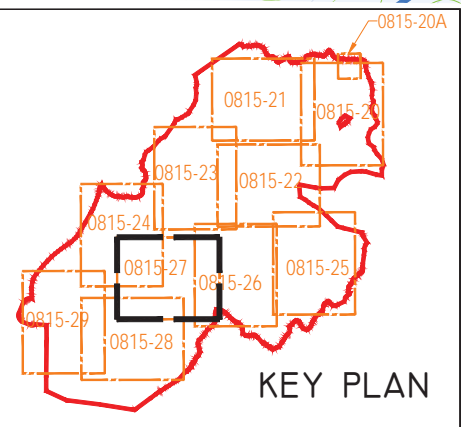
Scale: **1:2,000 (A1)** Drawn By: **GD**
 Date: **21/11/2018** Checked By: **MG**

Drainage Design Notes

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- SUPERVISING HYDROLOGIST OR ENVIRONMENTAL CLERK OF WORKS (ENVIRONMENTAL SCIENTIST) TO OVERSEE INSTALLATION OF DRAINAGE FEATURES FOLLOWING DETAILED DRAINAGE DESIGN.
- DRAINAGE MEASURES TO BE INSTALLED PRIOR TO, OR AT THE SAME TIME AS THE WORKS AREAS THEY ARE INTENDED TO DRAIN.
- DESIGN ELEVATION OF THE WATER SURFACE ALONG THE ROUTE OF THE INTERCEPTOR DRAIN OR SWALES WILL NOT BE LOWER THAN THE DESIGN ELEVATION OF THE WATER SURFACE IN THE OUTLET AT THE LEVEL SPREADER OR STILLING POND.
- THE SPACING AND FREQUENCY OF THE CHECK DAMS WILL BE DEPENDANT ON THE GRADIENT OF THE INTERCEPTOR DRAIN OR SWALE IN WHICH THEY ARE BEING INSTALLED.
- CHECK DAM DESIGNS TO BE SELECTED BEST TO SUIT PARTICULAR TOPOGRAPHY AND HYDROLOGICAL ENVIRONMENT.
- DOWN GRADIENT SLOPE BELOW LEVEL SPREADER INTO WHICH THE WATER WILL DISAPPEAR TO HAVE A GRADE LESS THAN 6%.
- NO DIRECT DISCHARGE OR PUMPING TO WATERCOURSES WILL BE PERMITTED. ALL DISCHARGES FROM LEVEL SPREADERS OR STILLING PONDS TO BE VIA VEGETATED FILTERS. SELECTION OF SUITABLE AREAS TO USE AS VEGETATED FILTERS WILL BE DETERMINED BY THE SIZE OF THE CONTRIBUTING CATCHMENT, SLOPE AND GROUND CONDITIONS.
- STILLING PONDS TO BE SIZED ACCORDING TO THE AREA THEY WILL BE RECEIVING WATER FROM.
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- EXISTING DRAINAGE/DITCHES TO BE INCORPORATED OR REMOVED DURING WORKS CONSTRUCTION.
- ALL DRAINAGE SYSTEM FEATURES TO BE SUBJECT OF INSPECTION AND MAINTENANCE PLAN.
- THE LAYOUT SHOWN IS SLIGHTLY OFFSET FOR SCALE PURPOSES, AND ALL DRAINAGE WOULD BE INSTALLED AS CLOSE TO THE ROAD AS POSSIBLE.
- DRAINAGE ASSIGNED TO FLOATING ROAD SECTIONS OF THE LAYOUT WILL BE SUBJECT TO FURTHER OPTIMISATION IN PARALLEL WITH DETAILED GEOTECHNICAL DESIGN.

MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE

Management Type	Description of SUDS Drainage Control Methods
Avoidance Controls	1) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE 2) APPLICATION OF 25M BUFFER ZONES TO ARTIFICIAL DRAINAGE SYSTEMS WHERE POSSIBLE 3) USING SMALL WORKING AREAS 4) WORKING IN APPROPRIATE WEATHER AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED MET WEATHER
Source Controls	1) USE OF UPSTREAM INTERCEPTOR DRAIN AND DOWNSTREAM COLLECTOR DRAIN / OVERLAND SWALE, VEGETATED SWALE, DRAINAGE SWALE, FLUMES AND CULVERT PILES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) SYSTEM BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) OTHER SPILLAGE/EQUIVALENT OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) COVERING STOCKPILES 5) WEATHERING OFF / SEALING PEAT STOCKPILES
In-line Controls	1) INTERCEPTOR DRAIN, VEGETATED SWALE, OVERLAND SWALE/COLLECTOR DRAIN 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) SYSTEM BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) OTHER BAGS E) FLOW LIMITERS F) WEIRS OR RAFTS G) AND/OR OTHER SPILLAGE/EQUIVALENT OR APPROPRIATE SYSTEMS 3) SILT FENCES, FILTER FABRICS 4) IN-STREAM SWALES 5) COLLECTION SUMPS, TEMPORARY SUMP, PUMPING SYSTEMS 6) ATTENUATION LOGS 7) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS
Water Treatment Controls	1) TEMPORARY SUMP 2) ATTENUATION POND 3) TEMPORARY STORAGE LOGS 4) SEDIMENT TRAPS, STILLING / SETTLEMENT POND 5) TEMPORARY SETTLEMENT SYSTEMS SUCH AS SILT TRAP, AND/OR OTHER SPILLAGE/EQUIVALENT OR APPROPRIATE SYSTEMS 6) SILT OVERWATERING BAGS
Off-pipe Controls	1) LEVELLED SWALE 2) BUFFERED OFFFALL 3) VEGETATION FILTERS 4) SILT OVERWATERING BAGS 5) FLOW LIMITERS AND WEIRS

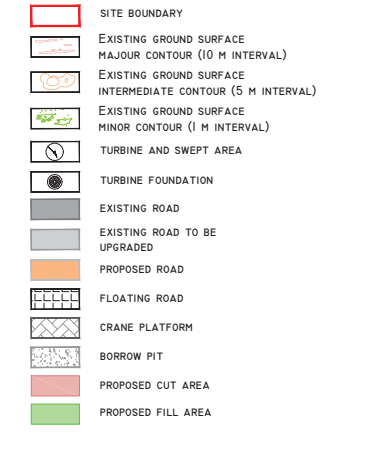
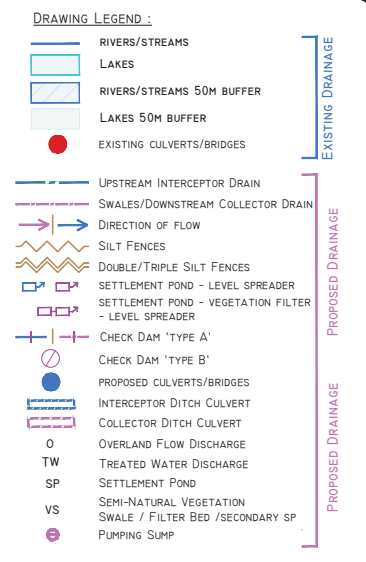
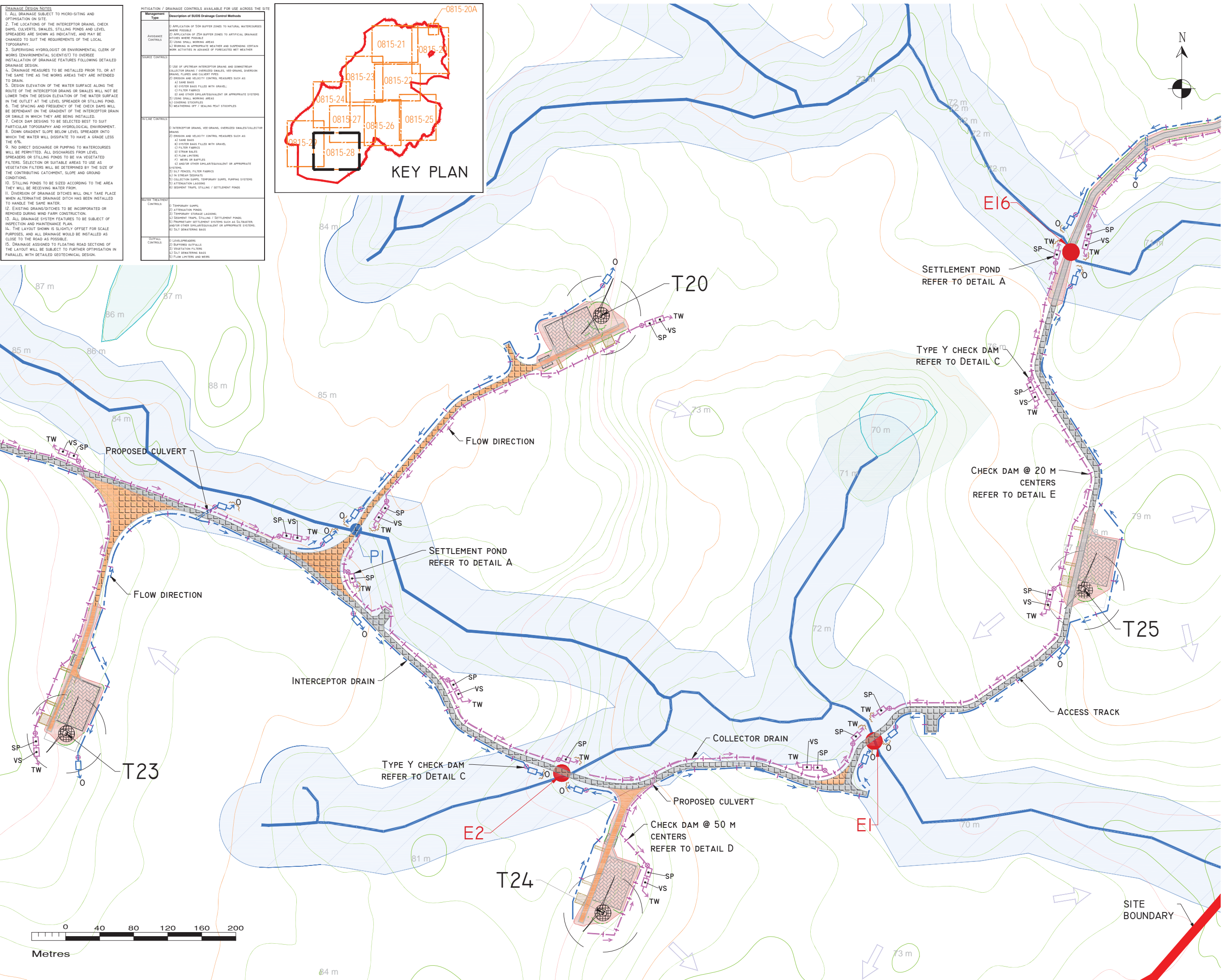
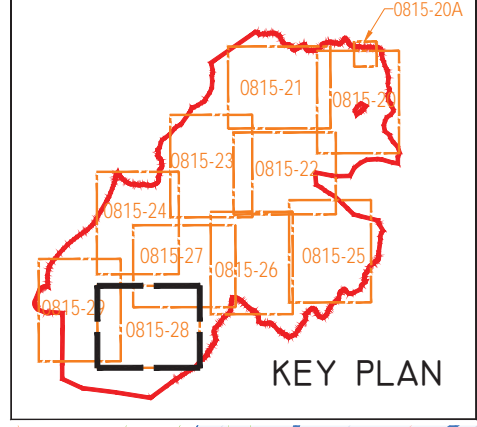


MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE

Management Type	Description of SUDS Drainage Control Methods
AVOIDANCE CONTROLS	1) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE 2) APPLICATION OF 25M BUFFER ZONES TO ARTIFICIAL DRAINAGE SYSTEMS WHERE POSSIBLE 3) WORKING IN APPROPRIATE WEATHER AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED MET WEATHER
SOURCE CONTROLS	1) USE OF IMPERVIOUS INTERCEPTOR DRAINS AND DIRECTIONAL COLLECTOR DRAINS / OVERSEED SWALES, VEE-ORANG, CURBSON DRAINS, FLUES AND COLLECTOR PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: a) SAME BAGS b) OYSTER BAGS FILLED WITH GRAVEL c) FILTER FABRICS d) AND OTHER SPLAIN/EQUIVALENT OR APPROPRIATE SYSTEMS 3) LONG GRASS MOWING AREAS 4) WEATHERING OFF / SEALING PEAT STAPLES
STRUCTURE CONTROLS	1) INTERCEPTOR DRAINS, VEE-ORANG, OVERSEED SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: a) SAME BAGS b) OYSTER BAGS FILLED WITH GRAVEL c) FILTER FABRICS d) FLOW LAYERS e) STRAW BALES f) MESH OR BAPLES g) LANDFILL OTHER SPLAIN/EQUIVALENT OR APPROPRIATE SYSTEMS 3) SILT FENCES, FILTER FABRICS 4) IN STREAM SEDIMENTS 5) COLLECTION SUMP, TEMPORARY SUMP, PAPPING SYSTEMS 6) ATTENUATION LAGOONS 7) SEGMENT TRAPS, STILLING / SETTLEMENT PONDS
OFFFALL CONTROLS	1) TEMPORARY SUMP 2) ATTENUATION PONDS 3) TEMPORARY STORAGE LAGOONS 4) SEGMENT TRAPS, STILLING / SETTLEMENT PONDS 5) TEMPORARY SETTLEMENT SYSTEMS SUCH AS SILTTRAP, AND/OR OTHER SPLAIN/EQUIVALENT OR APPROPRIATE SYSTEMS 6) SILT Dewatering BASINS
OFFFALL CONTROLS	1) LEVELLED/GRASS 2) BUFFERED OFFFALLS 3) VEGETATION FILTERS 4) SILT Dewatering BASINS 5) FLOW LAYERS AND WEIRS

DRAINAGE DESIGN NOTES

1. ALL DRAINAGE SUBJECT TO MICRO-SITING AND OPTIMIZATION ON SITE.
2. THE LOCATIONS OF THE INTERCEPTOR DRAINS, CHECK DAMS, CULVERTS, SWALES, STILLING PONDS AND LEVEL SPREADERS ARE SHOWN AS INDICATIVE, AND MAY BE TOPOGRAPHY.
3. SUPERVISING HYDROLOGIST OR ENVIRONMENTAL CLERK OF WORKS (ENVIRONMENTAL SCIENTIST) TO OVERSEE INSTALLATION OF DRAINAGE FEATURES FOLLOWING DETAILED DRAINAGE DESIGN.
4. DRAINAGE MEASURES TO BE INSTALLED PRIOR TO, OR AT THE SAME TIME AS THE WORKS AREAS THEY ARE INTENDED TO DRAIN.
5. DESIGN ELEVATION OF THE WATER SURFACE ALONG THE ROUTE OF THE INTERCEPTOR DRAINS OR SWALES WILL NOT BE LOWER THAN THE DESIGN ELEVATION OF THE WATER SURFACE IN THE OUTLET AT THE LEVEL SPREADER OR STILLING POND.
6. THE SPACING AND FREQUENCY OF THE CHECK DAMS WILL BE DEPENDANT ON THE GRADIENT OF THE INTERCEPTOR DRAIN OR SWALE IN WHICH THEY ARE BEING INSTALLED.
7. CHECK DAM DESIGNS TO BE SELECTED BEST TO SUIT PARTICULAR TOPOGRAPHY AND HYDROLOGICAL ENVIRONMENT.
8. DOWN GRADIENT SLOPE BELOW LEVEL SPREADER ONTO WHICH THE WATER WILL DISAPATE TO HAVE A GRADE LESS THAN 4%.
9. NO DIRECT DISCHARGE OR PUMPING TO WATERCOURSES WILL BE PERMITTED. ALL DISCHARGES FROM LEVEL SPREADERS OR STILLING PONDS TO BE VIA VEGETATED FILTERS. SELECTION OF SUITABLE AREAS TO USE AS VEGETATION FILTERS WILL BE DETERMINED BY THE SIZE OF THE CONTRIBUTING CATCHMENT, SLOPE AND GROUND CONDITIONS.
10. STILLING PONDS TO BE SIZED ACCORDING TO THE AREA THEY WILL BE RECEIVING WATER FROM.
11. DIVERSION OF DRAINAGE DITCHES WILL ONLY TAKE PLACE WHEN ALTERNATIVE DRAINAGE DITCH HAS BEEN INSTALLED TO HANDLE THE SAME WATER.
12. EXISTING DRAINS/DITCHES TO BE INCORPORATED OR REMOVED DURING WIND FARM CONSTRUCTION.
13. ALL DRAINAGE SYSTEM FEATURES TO BE SUBJECT OF INSPECTION AND MAINTENANCE PLAN.
14. THE LAYOUT SHOWN IS SLIGHTLY OFFSET FOR SCALE PURPOSES, AND ALL DRAINAGE WOULD BE INSTALLED AS CLOSE TO THE ROAD AS POSSIBLE.
15. DRAINAGE ASSIGNED TO FLOATING ROAD SECTIONS OF THE LAYOUT WILL BE SUBJECT TO FURTHER OPTIMIZATION IN PARALLEL WITH DETAILED GEOTECHNICAL DESIGN.



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7. LAYOUT PLANS SHOW TYPICAL TURBINE ROTOR DIAMETER AS PER TURBINE DRAWING.

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Date	Description	Chkd	Signed
Revisions			

HYDRO ENVIRONMENTAL SERVICES
 22 Lower Main St
 Dungarvan
 Co. Waterford
 Ireland

tel: +353 (0) 58-44122
 tel: +353 (0) 58-44244
 email: info@hydroenvironmental.ie
 web: www.hydroenvironmental.ie

Client: **MCCARTHY KEVILLE O'SULLIVAN**

Job: **ARDDERROO WF, Co. GALWAY**

Title: **Drainage Layout Sheet 9 of 10**

Figure No: **0815-28**

Drawing No: **P1227-8-1118-A1-0815-28-00A**

Sheet Size: **A1** Project No.: **P1227-8**

Scale: **1:2,000 (A1)** Drawn By: **GD**
 Date: **21/11/2018** Checked By: **MG**

