Stranorlar Multi-Use Sports Facility Improvement Project

TOBIN
Patrick J. Tobin & Co. Ltd.

PROJECT NO:	11062
SHEET: 1	PAGE: 1 of 1 1

DRAWING REGISTER & RECORD OF DRAWINGS ISSUED

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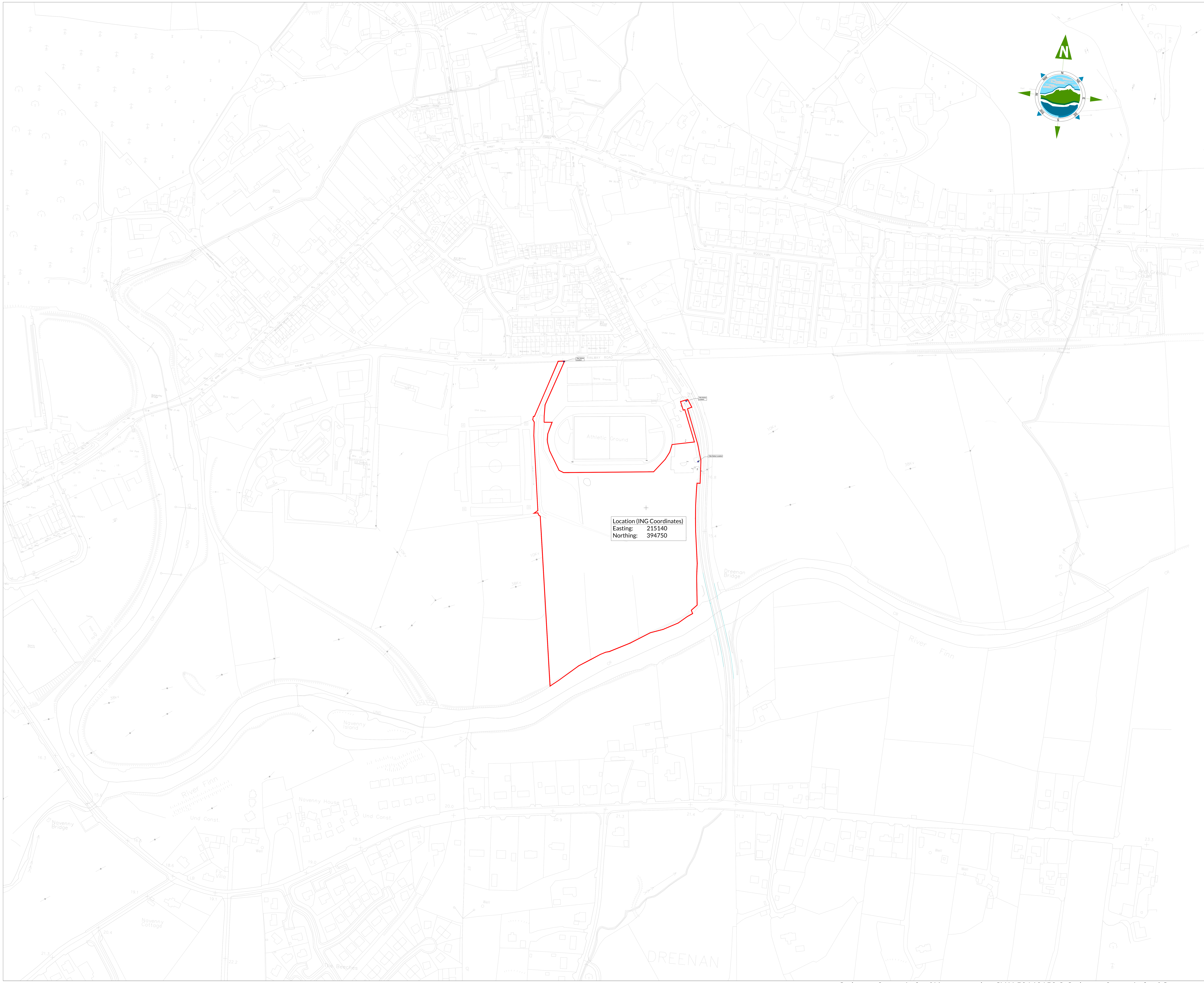
Client	Donegal County Council	Shaun P. Murphy		H
STATUS: D=DRAFT, P=PLANNING, DS=DESIGN STAGE, T=TENDER, C=CONSTRUCTION				P

			DATE OF ISSUE
	Day	Current Revision	04
	Month		03
	Year		22
	Issued by		SF

DWG. No:	DRAWING TITLE	SIZE	SCH		
11062-2000	Site Location Plan	A1		**P02**	P02
11062-2001	Site Layout Plan (Sheet 1 of 3)	A1		**P03**	P03
11062-2002	Land Ownership Map	A1		**P02**	P02
11062-2003	Roads and Pedestrian Access Layout Plan	A1		**P02**	P02
11062-2004	Proposed Surface Water Drainage Layout	A1		**P02**	P02
11062-2005	Proposed Floodlighting, Dugout and Ballstop Netting Layout	A1		**P03**	P03
11062-2006	Proposed Fencing Layout	A1		**P02**	P02
11062-2007	Proposed Site Layout Cut Fill Assessment	A1		**P02**	P02
11062-2008	Proposed Site Layout Cut Fill Assessment Sections	A1		**P0**	P0
11062-2009	Typical Goal Post and Fencing Details	A1		**P0**	P0
11062-2010	Typical Site Works Details	A1		**P0**	P0
11062-2011	Typical Drainage Details	A1		**P0**	P0
11062-2012	Typical Floodgate Detail	A1		**P0**	P0
11062-2013	Typical Ballstop Netting Detail	A1		**P0**	P0
11062-2014	Standard Manhole Details (Sheet 1 of 2)	A1		**P0**	P0
11062-2015	Standard Manhole Details (Sheet 1 of 2)	A1		**P0**	P0
11062-2016	Pipe Bedding & Surround Details	A1		**P0**	P0
11062-2017	Site Layout Plan (Sheet 2 of 3)	A1		**P0**	P0
11062-2018	Site Layout Plan (Sheet 3 of 3)	A1		**P0**	P0



LEGEND

Proposed Site Boundary

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Rev	Date	Description	By	Chkd.
P02	25/02/22	Revised Redline Boundary	SF	BH
P01	07.07.2021	Revised Redline Boundary	EC	BH
P0	01.06.2021	For Review	SH	BH

Client: Comhairle Contae Dhún na nGall
Donegal County Council

Project:
Stranorlar Multi-Use Sports Facility Improvement Project

Title:
Site Location Plan

Scale: 1:2500 @A1/1:5000 @A3

Prepared by:	Checked:	Date:
SH	BH	June 2021

Project Director: Michael McDonnell

Drawing Status: Planning

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Drawing No.: 11062-2000 Revision: P02

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Existing Synthetic Pitches
Finn Valley Leisure Centre
Existing Running Track
Existing ESB Substation
Site Notice Location
Refer to drawing 11062-2017 & 2018 for site layout plan sheets 2 & 3
Existing Carpark
Proposed Pedestrian Access Gate with Boot Cleaner and Steps
Construction Compound for the duration of the works
Concrete slab for Discus and Hammer Throw Cage
Steel Post & Winch for Demountable Dividing Net
Site Notice Location
Proposed Bicycle Stand (Spaces for 30 Bicycles)
Ramp to Existing Level
Soccer Ball Stop Netting (25.0m Wide)
Vehicular Access Route from Visitor Parking Area
1.2m High Demountable Dividing Net
Demountable Flood Barrier
Vehicular and Accessibility Gate to Pitch
Boot and Tyre Cleaning to Vehicular Entrance - Heavy Duty
Ramps to Existing Level
Flood Protection Berm Surrounding Pitch
Proposed Pedestrian Access Gate with Boot Cleaner and Steps to Top of Berm
Area to be Graded and Seeded
GAA Ball Stop Netting (50.0m Wide)
GAA Ball Stop Netting (80.0m Wide)
0.5 m Wide Stone French Drain at foot of Berm
Recesses for Storing Soccer Goal Posts When Not in Use
7.0m Wide Grass Track
3.0m Wide Grass Track
Ramp to Existing Level
Steel Post for 1.2m High Dividing Net
2.4m Tall Pallisade Fence
Soccer Ball Stop Netting (25.0m Wide)
1.2m Tall Pitch Fencing
7.0m Wide Access Gate

The section of overhead electricity lines known previously as the 'Stranorlar to Donegal 38kV line' crossing the proposed Stranorlar Multi-Use Sports Facility Improvement Project is being retired by ESB Networks in the near future and before the end of 2022.

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LEGEND

- Proposed Site Boundary
- All-Weather Surface
- Dugouts
- Ballstop Netting
- Floodlights 18m high
- GAA Line Markings
- Soccer Line Markings
- 1.2m High Dividing Net
- 3.0m and 7.0m Wide Perimeter Grass Track
- Grassed Area at foot of Berm
- Pitch Fencing
- 1/150 Pitch Gradient
- Drainage Slope
- 18.30 Proposed Finished Surface Level
- Berm Slope/Embankment
- 0.5m Wide Land Drain (stone)
- Graded and Seeded Area
- Proposed Native Hedging
- Proposed Pallisade Fencing
- Pedestrian Gate & Boot Cleaning
- River Finn SAC (002301)
- Discus/hammer Throwing Area

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Rev	Date	Description	By	Chkd.
P04	09/03/2022	Revised Notes	SF	BH
P03	02/03/22	Notes Added	SF	DM
P02	25/02/22	Revised Redline Boundary	SF	BH
P01	07.07.2021	Revised Redline Boundary	EC	BH
P0	01.06.2021	For Review	SH	BH

Client: Comhairle Contae Dhún na nGall Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Site Layout Plan (Sheet 1 of 3)

Scale: 1:500 @A1/1:100 @A3

Prepared by:	Checked:	Date:
SH	BH	June 2021

Project Director: Michael McDonnell

Drawing Status: Planning

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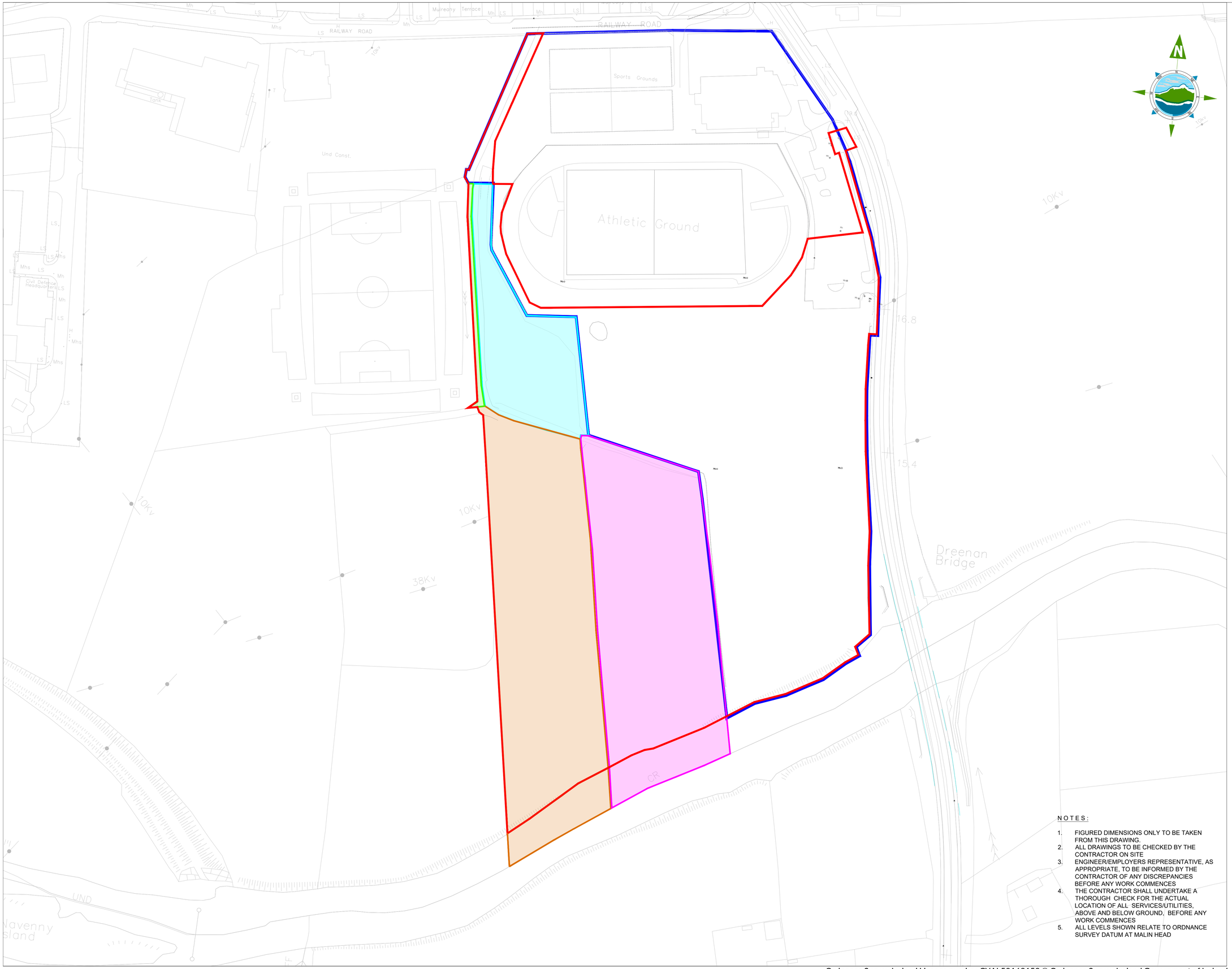

LEGEND

- Proposed Site Boundary
- Finn Valley/DCC Ownership Boundary
- Folio DL8906F
- Folio DL40938
- Folio DL6918
- Folio DL12373

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P03	09/03/22	Notes Revised	SF	DM
P02	25/02/22	Revised Redline Boundary	SF	BH
P01	07.07.2021	Revised Redline Boundary	EC	BH
P0	01.06.2021	For Review	SH	BH

Client: Comhairle Contae Dhún na nGall Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Land Ownership Map

Scale: 1:1000 @A1/1:2000 @A3

Prepared by:	Checked:	Date:
EC	SH	June 2021

Project Director: Michael McDonnell

Drawing Status: Planning

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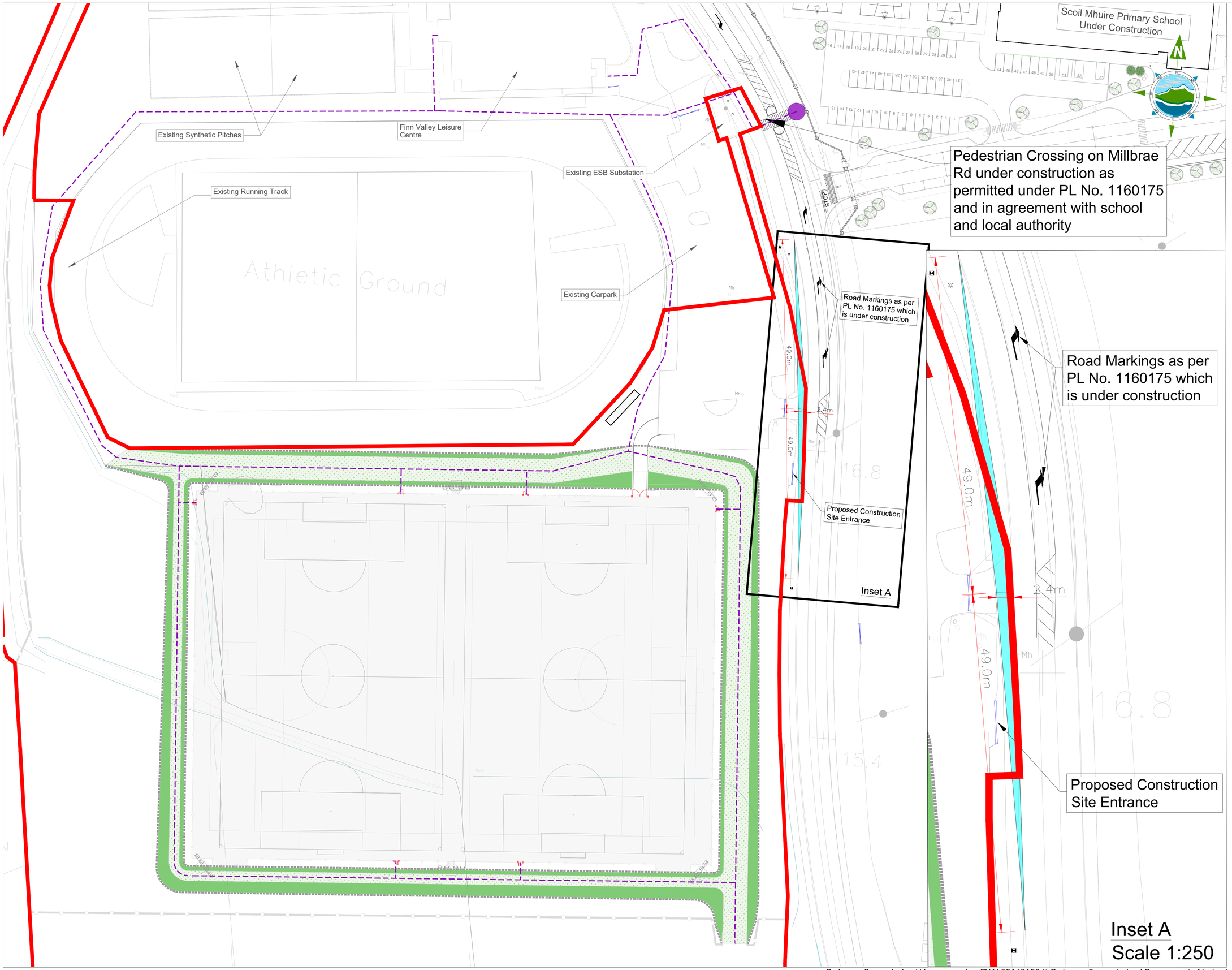

LEGEND

- Proposed Site Boundary
- Visibility Splays
- Pedestrian Access routes
- Floodlights
- GAA Line Markings
- Soccer Line Markings
- 3.0m and 7.0m Wide Perimeter Grass Track
- Slope/Embankment
- Pedestrian Gate

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P03	09/03/22	Notes Revised	SF	DM
P02	25/02/22	Revised Redline Boundary	SF	BH
P01	07.07.2021	Revised Redline Boundary	EC	BH
P0	01.06.2021	For Review	RR	SH

Client: Comhairle Contae Dhún na nGall
Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Roads and Pedestrian Access Layout Plan

Scale: 1:500 @A1/1:100 @A3

Prepared by:	Checked:	Date:
RR	SH	June 2021

Project Director: Michael McDonnell

Drawing Status: Planning

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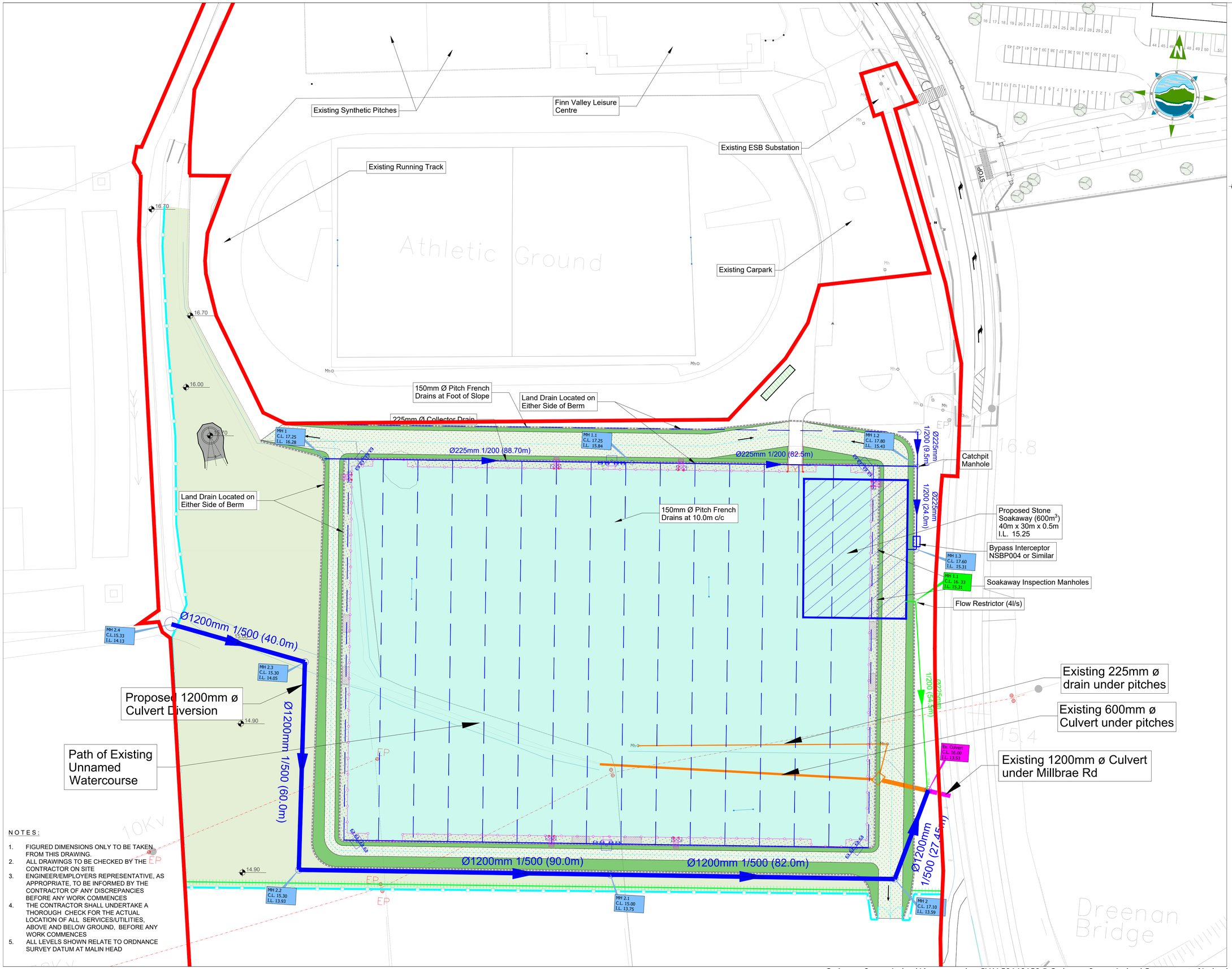

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Legend

- Proposed Site Boundary
- All-Weather Surface
- Floodlights
- 3.0m Wide Perimeter Track
- Pitch Fencing
- 1/150 Pitch Gradient
- Drainage Slope
- 18.30 Proposed Finished Surface Level
- Slope/Embankment
- Under Pitch French Drains (150mm Ø)
- Proposed Surface Water Sewer
- Proposed Stone Soakaway
- Soakaway Outfall Sewer
- Existing Subsoil Drainage Infrastructure to be Removed
- Existing 1200mm ø Outfall to be Retained

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Rev	Date	Description	By	Chkd.
P03	09/03/22	Notes Revised	SF	DM
P02	25/02/22	Revised Redline Boundary	SF	BH
P01	07.07.2021	Revised Redline Boundary	EC	BH
P0	01.06.2021	For Review	EC	SH

Client: Comhairle Contae Dhún na nGall Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Proposed Surface Water Drainage Layout

Scale: 1:500 @A1/1:100 @A3

Prepared by:	Checked:	Date:
EC	SH	June 2021

Project Director: Michael McDonnell

Drawing Status: Planning

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Athletic Ground

Soccer Ball Stop Netting (25.0m Wide)

GAA Ball Stop Netting (50.0m Wide)

Soccer Dugouts

111.0m

Floodlighting Columns

GAA Ball Stop Netting (80.0m Wide)

Soccer Dugouts

GAA Dugouts

Soccer Ball Stop Netting (25.0m Wide)

10Kv

38Kv

EP

Mh

Dreenan Bridge

16.8

15.4

LEGEND

- Proposed Site Boundary
- All-Weather Surface
- Dugouts
- Ballstop Netting
- Floodlights 18m high
- Rugby Line Markings
- 3.0m and 7.0m Wide Perimeter Grass Track
- Grassed Area at foot of Berm
- Pitch Fencing
- Berm Slope/Embankment
- 0.5m Wide French Stone Drain
- Bicycle Stand

NOTES:

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P03	25/02/22	Revised Redline Boundary	SF	BH
P02	24.08.2021	Revised Floodlight Location	EC	BH
P01	07.07.2021	Revised Redline Boundary	EC	BH
P0	01.06.2021	For Review	SH	BH

Client: Comhairle Contae Dhún na nGall Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Proposed Floodlighting, Dugout and Ballstop Netting Layout

Scale: 1:500 @A1/1:100 @A3

Prepared by:	Checked:	Date:
SH	BH	June 2021

Project Director: Michael McDonnell

Drawing Status: Planning

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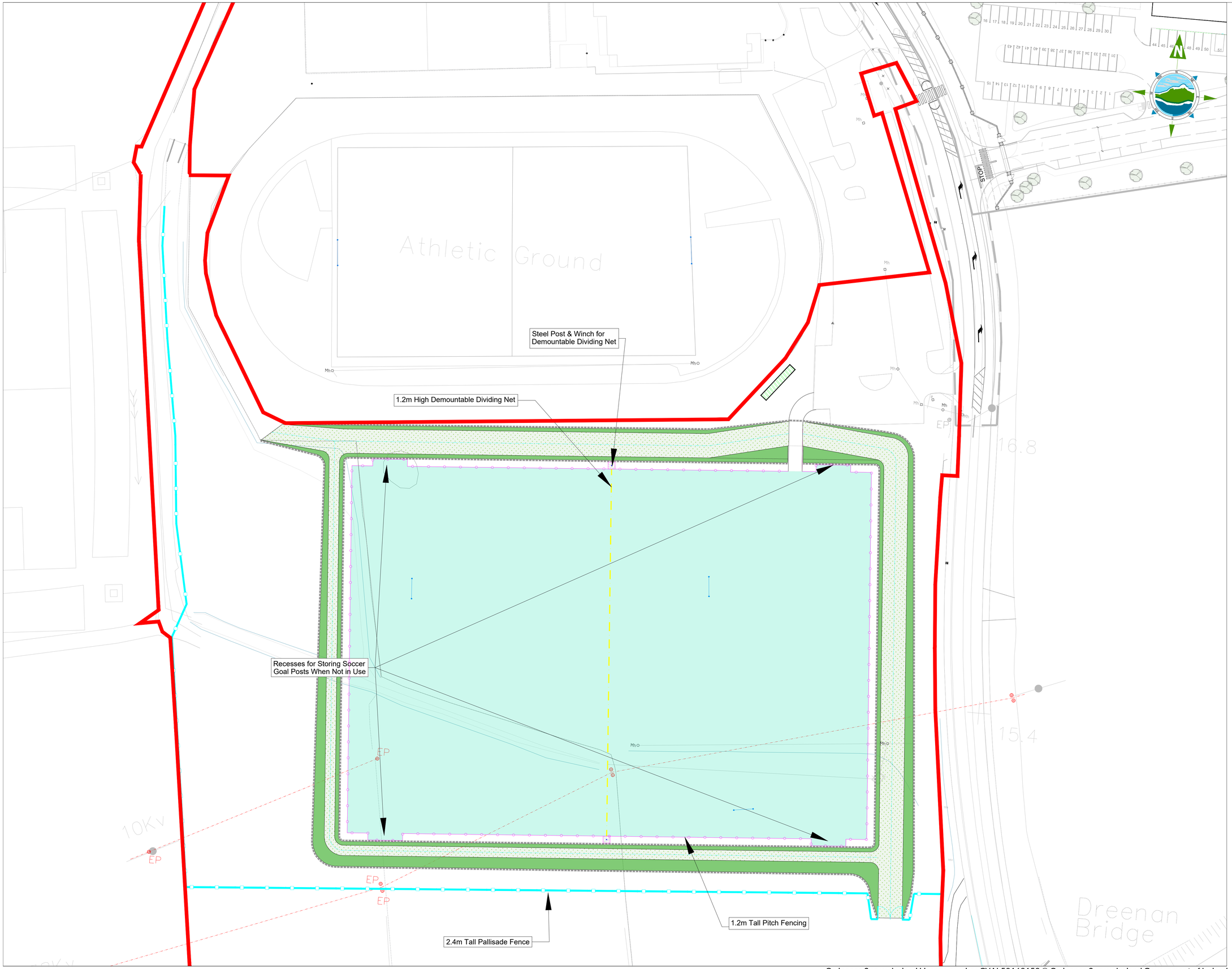

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LEGEND

- Proposed Site Boundary
- All-Weather Surface
- 3.0m and 7.0m Wide Perimeter Grass Track
- Grassed Area at foot of Berm
- Pitch Fencing
- Berm Slope/Embankment
- 0.5m Wide French Stone Drain
- Bicycle Stand
- Pallisade Fencing

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Rev	Date	Description	By	Chkd.
P03	09/03/22	Revised Notes	SF	DM
P02	25/02/22	Revised Redline Boundary	SF	BH
P01	07.07.2021	Revised Redline Boundary	EC	BH
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Client: Comhairle Contae Dhún na nGall
Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Proposed Fencing Layout

Scale: 1:500 @A1/1:100 @A3

Prepared by:	Checked:	Date:
SH	BH	June 2021

Project Director: Michael McDonnell

Drawing Status: Planning

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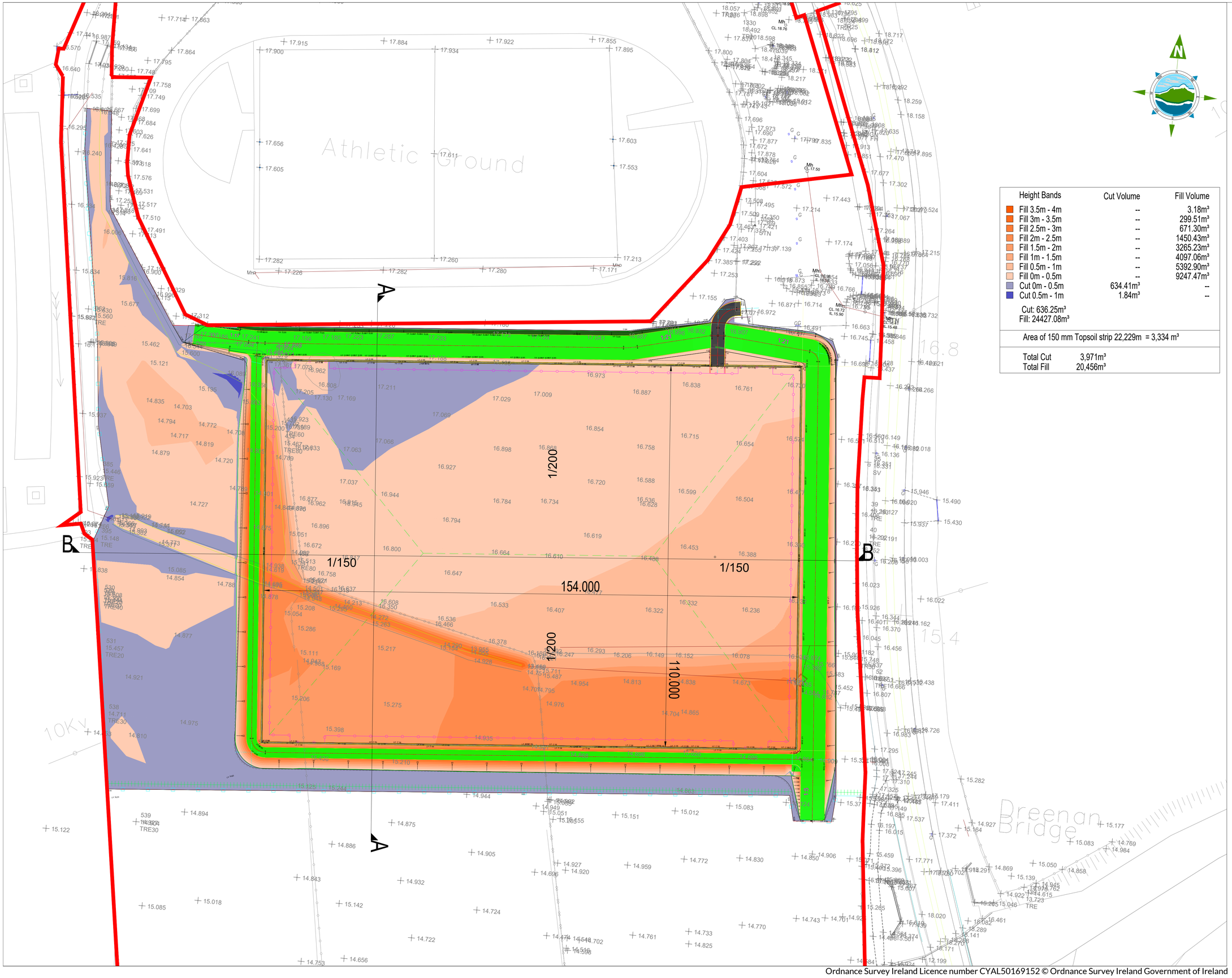

LEGEND

- Proposed Site Boundary
- Proposed Berm Slope/Embankment

Height Bands	Cut Volume	Fill Volume
Fill 3.5m - 4m	--	3.18m³
Fill 3m - 3.5m	--	299.51m³
Fill 2.5m - 3m	--	671.30m³
Fill 2m - 2.5m	--	1450.43m³
Fill 1.5m - 2m	--	3265.23m³
Fill 1m - 1.5m	--	4097.06m³
Fill 0.5m - 1m	--	5392.90m³
Fill 0m - 0.5m	--	9247.47m³
Cut 0m - 0.5m	634.41m³	--
Cut 0.5m - 1m	1.84m³	--
Cut: 636.25m³ Fill: 24427.08m³		

Area of 150 mm Topsoil strip 22,229m = 3,334 m³

Total Cut	3,971m³
Total Fill	20,456m³

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P0	31.05.2021	Issued for Review	JK	SH

Client: Comhairle Contae Dhún na nGall Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Proposed Site Layout Cut Fill Assessment

Scale @ A1:	1:500	
Prepared by: JK	Checked: SH	Date: June 2021
Project Director:	Michael McDonnell	
Drawing Status:	Planning	

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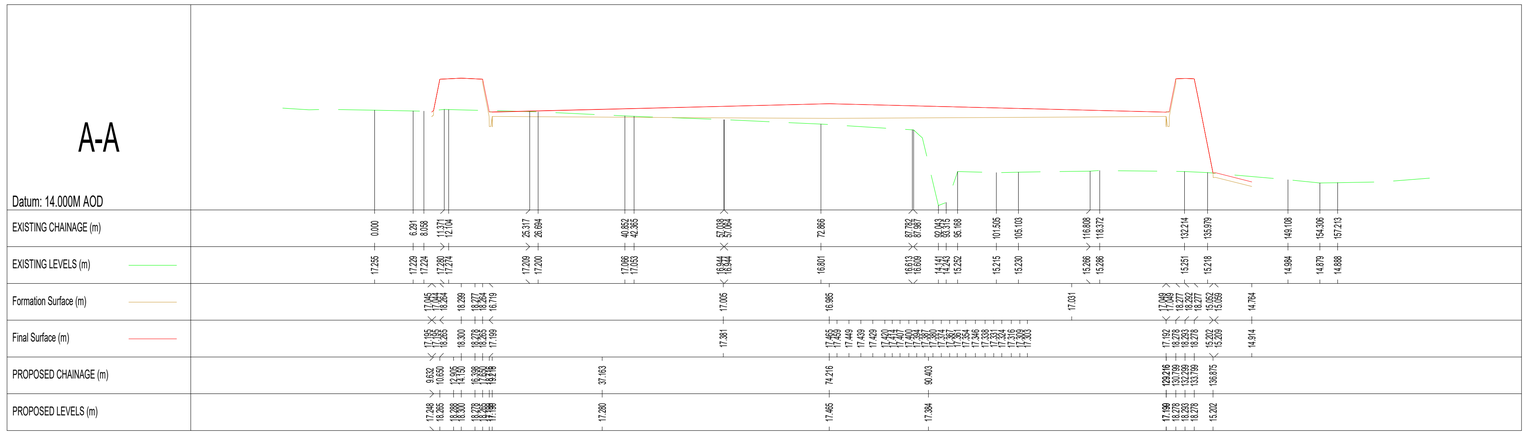
A-A

Datum: 14.000M AOD



B-B

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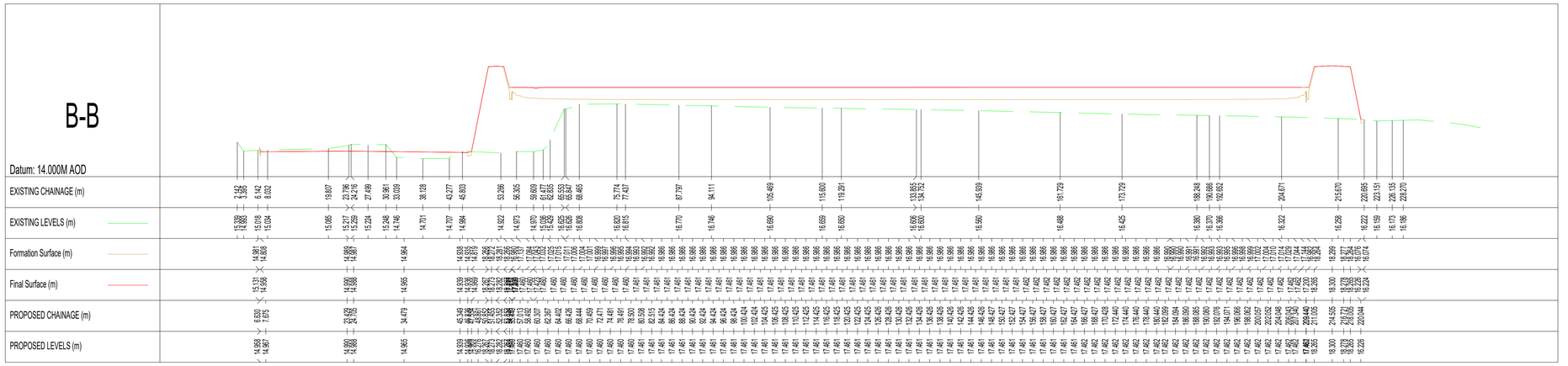

LEGEND

Rev	Date	Description	By	Chkd.
P0	31.05.2021	Issued for Planning	JK	SH

Client: Comhairle Contae Dhún na nGall, Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Proposed Site Layout Cut Fill Assessment Sections

Scale @ A1: H 1:500 V 1:100

Prepared by:	Checked:	Date:
JK	SH	June 2021

Project Director: Michael McDonnell

Drawing Status: Planning

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Revision: P0

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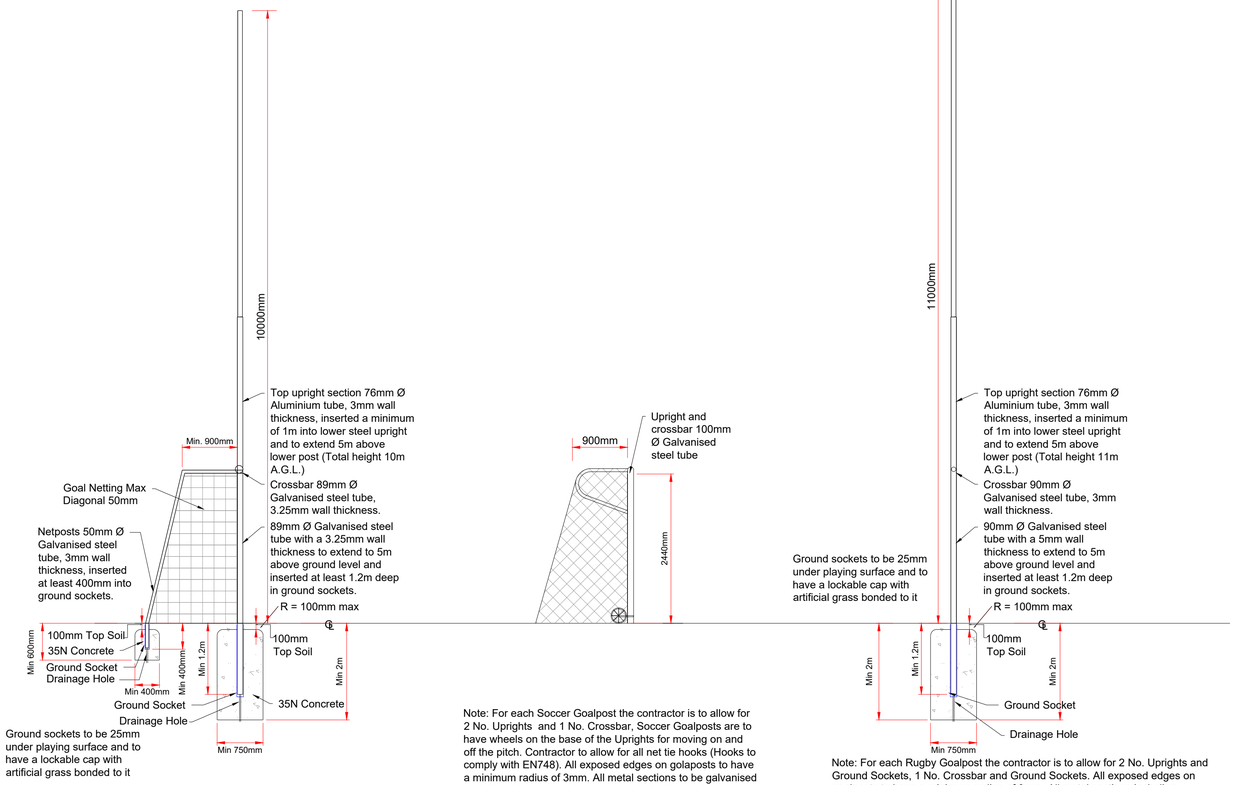


Note: For each GAA Goalpost the contractor is to allow for 2 No. Uprights and Ground Sockets, 1 No. Crossbar, 2 No. Netposts and Ground Sockets. Contractor to allow for all net tie hooks (Hooks to comply with EN748). All exposed edges on golaposts to have a minimum radius of 3mm. All metal sections including ground sockets to be galvanised and all welded parts to be galvanised after fabrication and to be painted. Clear distance between uprights to be 6.4m. Height to underside of crossbar over playing surface to be 2.44m.

Typical Side Elevation of GAA Goal Post

Scale 1:50

Note: For each Soccer Goalpost the contractor is to allow for 2 No. Uprights and 1 No. Crossbar, Soccer Goalposts are to have wheels on the base of the Uprights for moving on and off the pitch. Contractor to allow for all net tie hooks (Hooks to comply with EN748). All exposed edges on golaposts to have a minimum radius of 3mm. All metal sections to be galvanised and all welded parts to be galvanised after fabrication and to be painted. Clear distance between uprights to be 7.32m. Height to underside of crossbar over playing surface to be 2.44m.

Typical Side Elevation of Soccer Goal Post

Scale 1:50

Note: For each Rugby Goalpost the contractor is to allow for 2 No. Uprights and Ground Sockets, 1 No. Crossbar and Ground Sockets. All exposed edges on goalposts to have a minimum radius of 3mm. All metal sections including ground sockets to be galvanised and all welded parts to be galvanised after fabrication and to be painted. Clear distance between uprights to be 5.6m. Height to top edge of crossbar over playing surface to be 3m min.

Typical Side Elevation of Rugby Goal Post

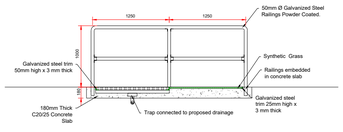
Scale 1:50

Note: A permanent warning label shall be fixed to all goals with the following wording:

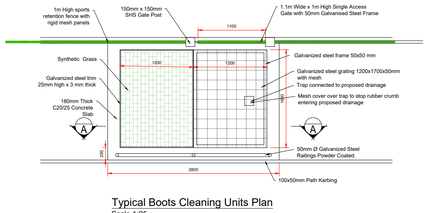
"This goal is designed for the playing of ballgames and no other purpose. Check that all fastenings/securings are fully tightened before using and check periodically thereafter. Do not climb on the net or goal framework."

All goals shall be marked with the following information:

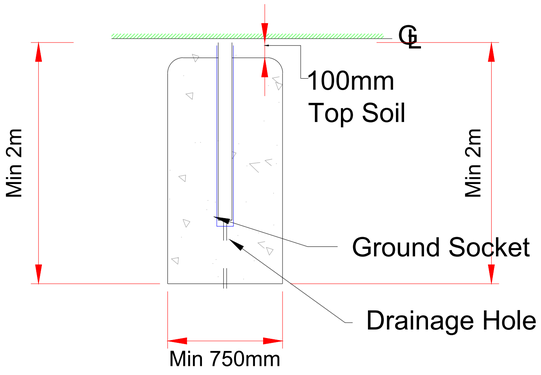
a) The name or trademark of the manufacturer, retailer or importer and the year of manufacturing of the frame.
b) A warning giving details of use that the goal is designed for and the type of net in accordance with the warning label above.



Typical Boots Cleaning Units Section A-A
Scale 1:25

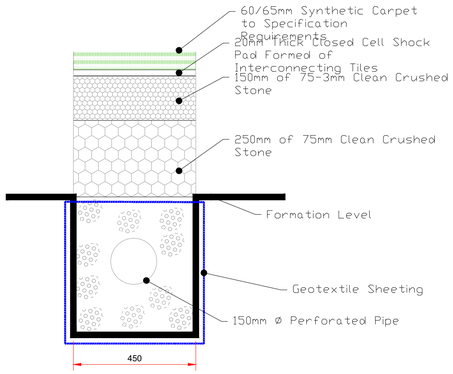


Typical Boots Cleaning Units Plan
Scale 1:25



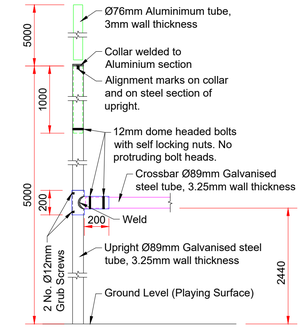
De-Mountable Rugby Goal Post

Scale 1:20



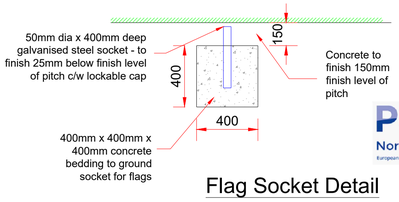
Typical Section Synthetic Pitch French Drain at 10.0m c/c

Scale 1:10



Typical Detail of GAA Goalpost Uprights, Crossbar and Fixings

Scale 1:25



Flag Socket Detail

Scale 1:20

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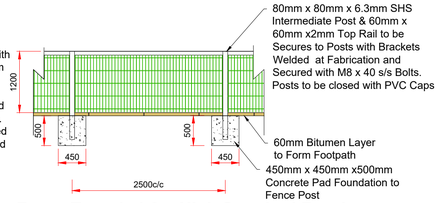
Rev	Date	Description	By	Chkd.
P01	09/03/22	Revised Notes	SF	DM
P0	01.06.2021	Issued for Review	SF	SH

1.2m High sports retention fence with rigid mesh panels with 50mm x 200mm mesh aperture constructed of doublebeam 8mm diameter horizontal and 6mm diameter vertical wires. Mesh panels to be galvanised to BS EN ISO 1461:1999 and polyester powder coated green to BS 6497

Gate Type G3: 1.2m High Standard Mesh Panel Fencing with 4m Wide Service Access Gate

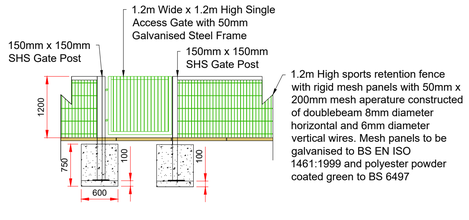
Scale 1:50

1.2m high spectator fence with rigid mesh panels with 50mm x 200mm mesh aperture constructed of doublebeam 8mm diameter horizontal and 6mm diameter vertical wires. Mesh panels to be galvanised to BS EN ISO 1461:1999 and polyester powder coated green to BS 6497



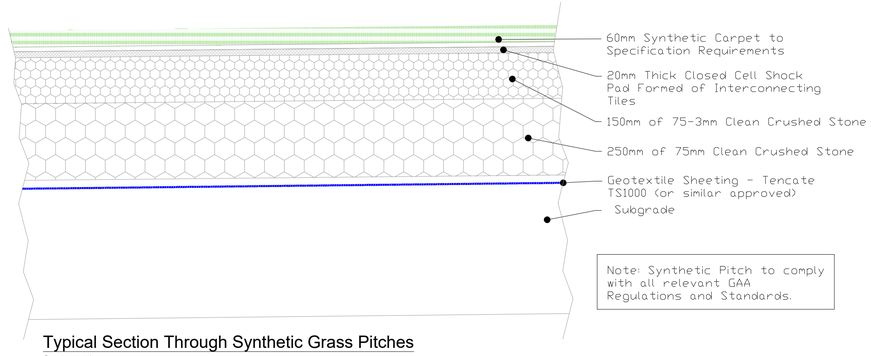
Fence Type 1: 1.2m High Standard Fencing

Scale 1:50



Gate Type G1: 1.2m High Standard Mesh Panel Fencing & Pedestrian Gate

Scale 1:50



Typical Section Through Synthetic Grass Pitches

Scale 1:10

Client: Comhairle Contae Dhún na nGall, Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Typical Goal Post and Fencing Details

Scale @ A1:	As Shown	
Prepared by: SF	Checked: SH	Date: June 2021
Project Director:	Michael Mc Donnell	
Drawing Status:	Planning	

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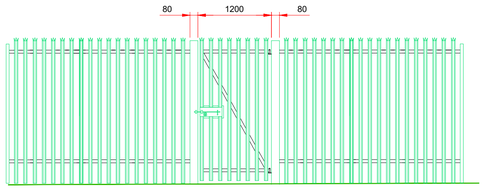
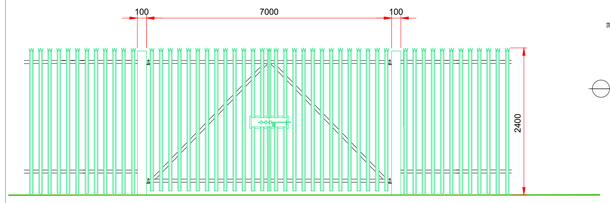
Drawing No.: 11062-2009 Revision: P01



SINGLE ACCESS GATES - 1.2m WIDE SECURITY GATE

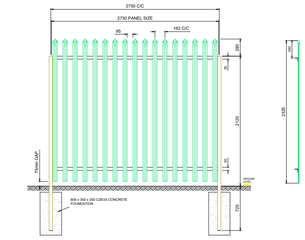
Scale 1:50



DOUBLE ACCESS GATES - 7.0m WIDE SECURITY GATE

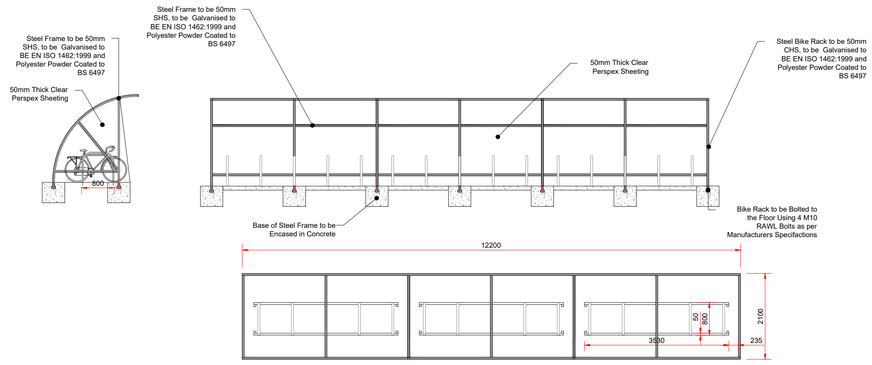
Scale : NTS

Product Code	Post Size (mm)	Height (mm)	Post Ctrs. (mm)	Rail Size (mm)	*Notes: All size panels*
E02-18	100 x 55 RSJ	1800	2750	50 x 50 x 5 ANGLE	Available in Galvanised and Galv/PPC finish with either 2.5mm or 3mm thickness
E02-24	100 x 55 RSJ	2400	2750		95mm Gap between Pales
E02-30	100 x 55 RSJ	3000	2750		17 Pales Per Panel



TYPICAL PALISADE FENCE DETAIL

A1 SCALE 1:50



BIKE RACK TYPICAL DETAILS

Scale 1:75

NOTES:

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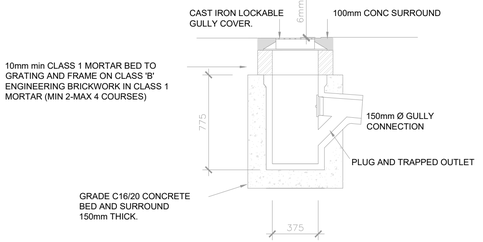
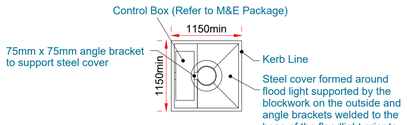


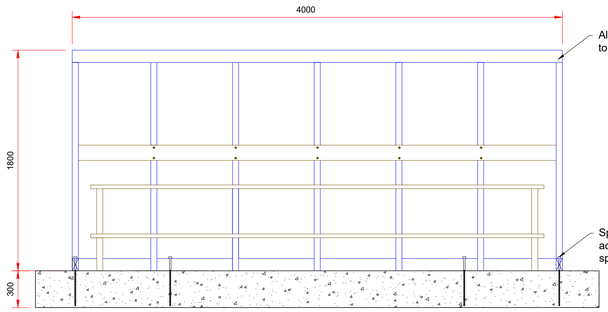
P.C. CONCRETE GULLY DETAIL

A1 SCALE 1:25



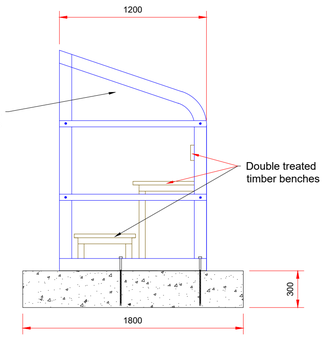
Maintenance Access Plan View

Scale 1:50



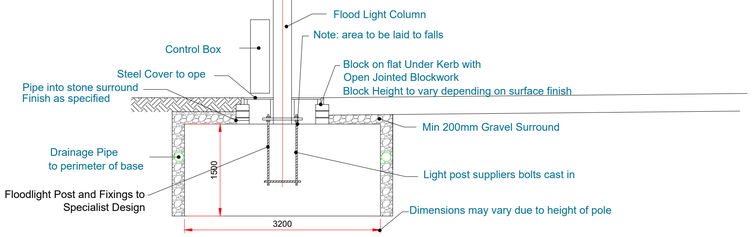
Typical Front Elevation of Dugouts

Scale 1:25



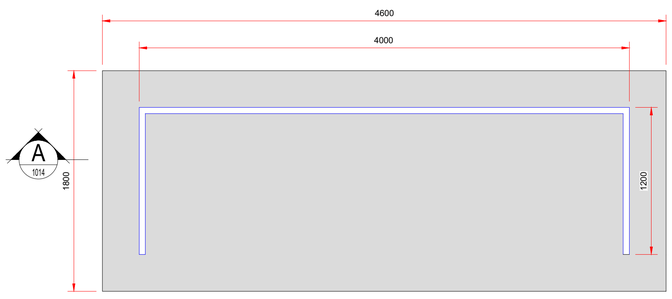
Typical Side Elevation of Dugouts

Scale 1:25



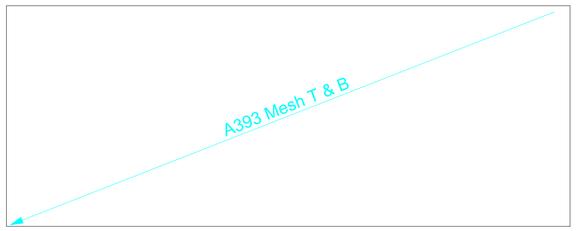
Typical Section Through Flood Light Base

Scale 1:50



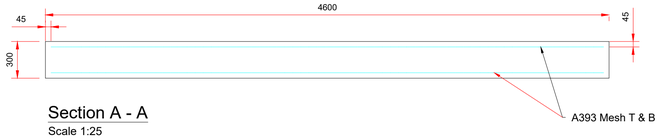
Typical Plan Layout of Concrete Pads

Scale 1:25



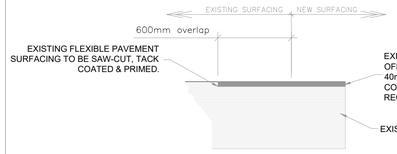
Typical Plan Layout of Concrete Pads

Scale A1 1:25



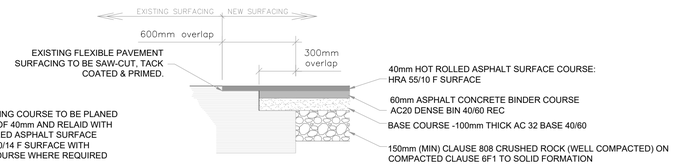
Section A - A

Scale 1:25



ASPHALT RESURFACING DETAIL

A1 SCALE 1:25



SURFACING INTERFACE DETAIL
EXISTING / PROPOSED ASPHALT

A1 SCALE 1:25

Rev	Date	Description	By	Chkd.
P01	09/03/22	Notes Revised	SF	DM
P0	01.06.2021	Issued for Review	SF	SH

Client: Comhairle Contae Dhún na nGall, Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Typical Site Works Details

Scale @ A1:	As Shown		
Prepared by: SF	Checked: SH	Date: June 2021	
Project Director:	Michael Mc Donnell		
Drawing Status:	Planning		

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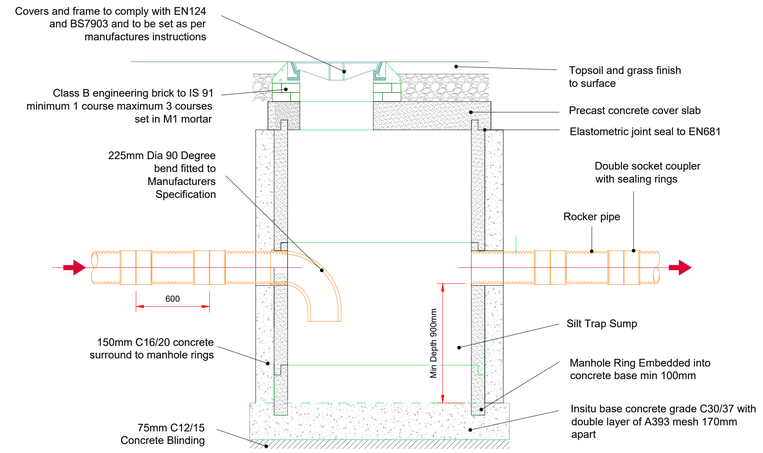
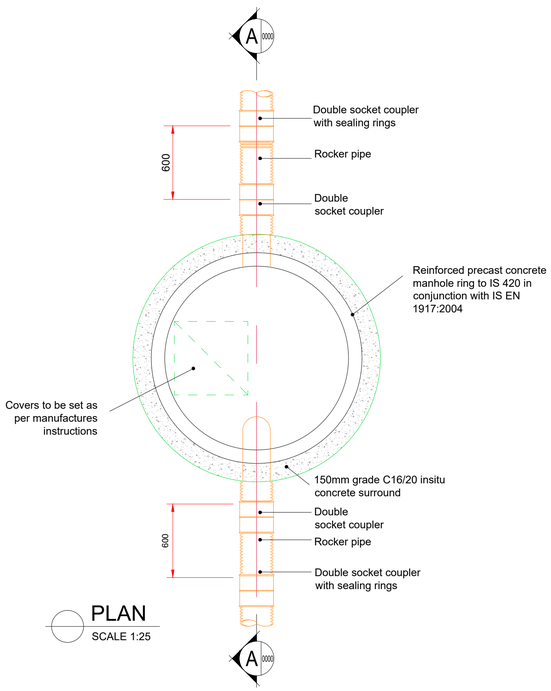
Drawing No.: 11062-2010 P01



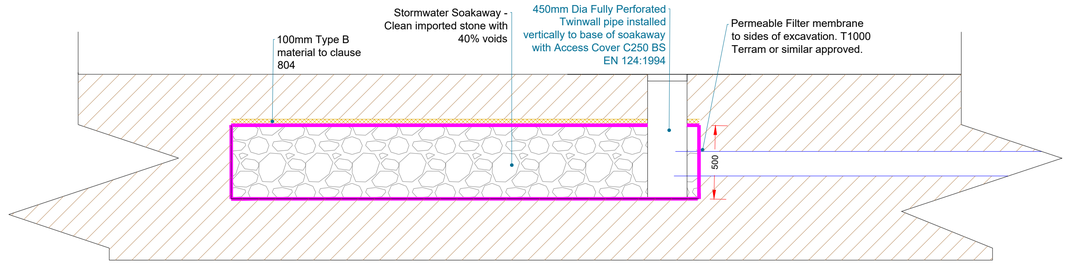
CROSS SECTION THROUGH TYPICAL SILT TRAP MANHOLE

SCALE 1:25



PLAN

SCALE 1:25



Typical Soakaway Section

NTS

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Peace Northern Ireland - Ireland
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Local Community Development Committees

Rev	Date	Description	By	Chkd.
P0	01.06.2021	Issued for Review	SF	SH

Client: Comhairle Contae Dhún na nGall Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Typical Drainage Details

Scale @ A1:	As Shown	
Prepared by: SF	Checked: SH	Date: June 2021
Project Director:	Michael Mc Donnell	
Drawing Status:	Planning	

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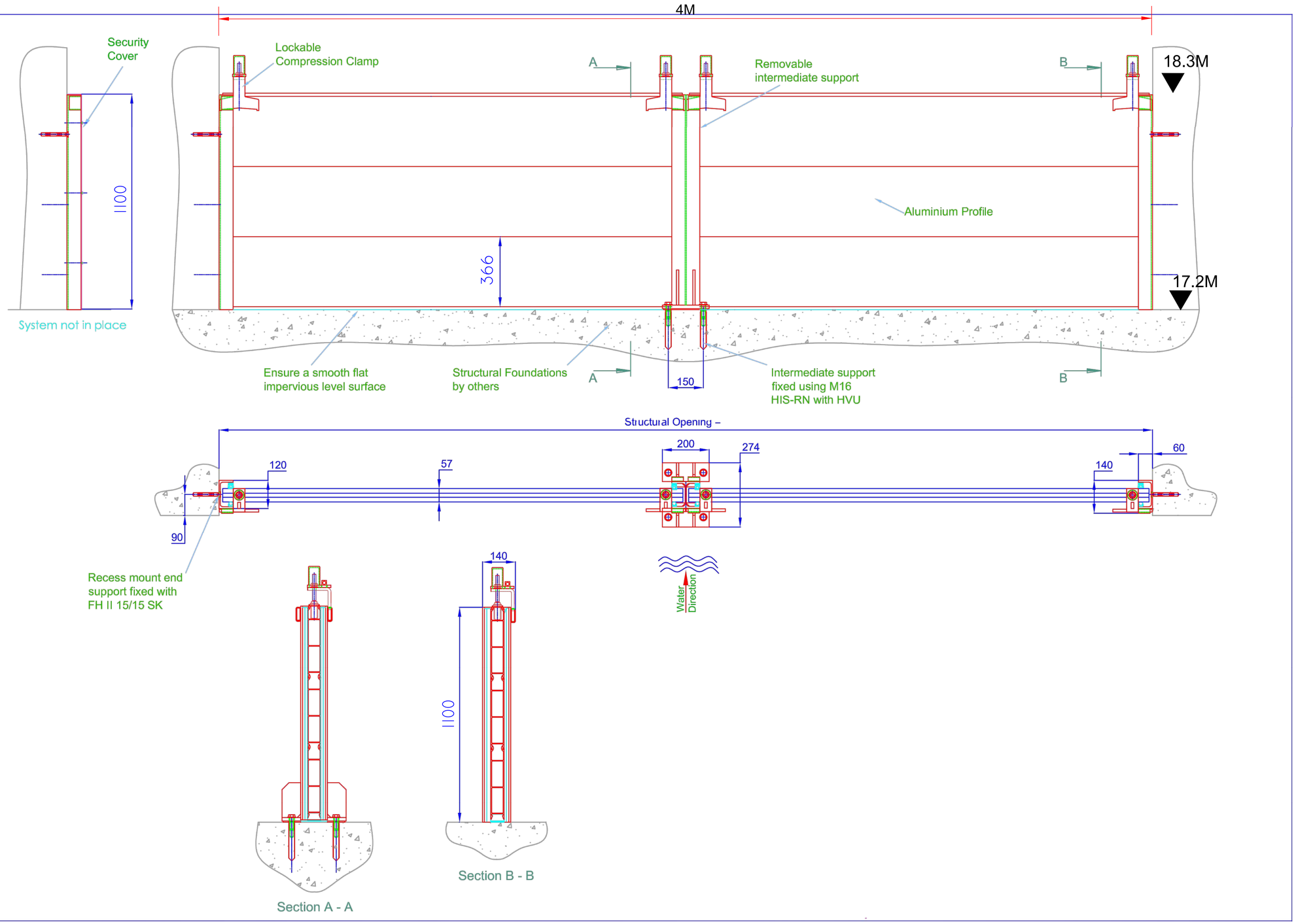
Drawing No.: 11062-2011 Revision: P0



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Local Community Development Committees

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Rev	Date	Description	By	Chkd.
P0	01.06.2021	Issued for Review	SF	SH

Client: Comhairle Contae Dhún na nGall, Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Typical Floodgate Detail

Scale @ A1:	NTS	
Prepared by: SF	Checked: SH	Date: June 2021
Project Director:	Michael Mc Donnell	
Drawing Status:	Planning	

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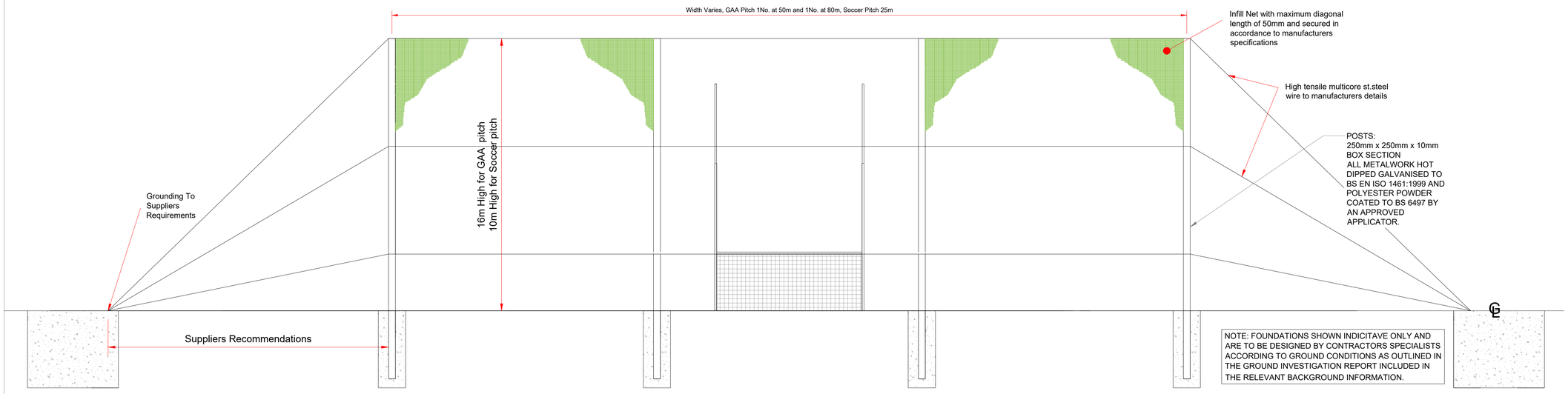
Drawing No.: 11062-2012 | Revision: P0



Typical Front Elevation of Ball Stopping Nets
Scale @ A1 1:100

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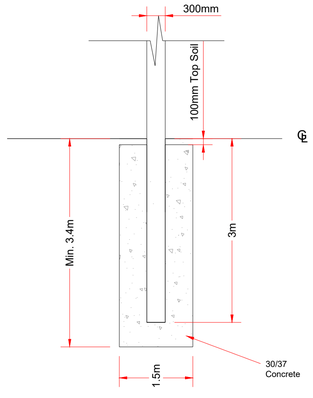
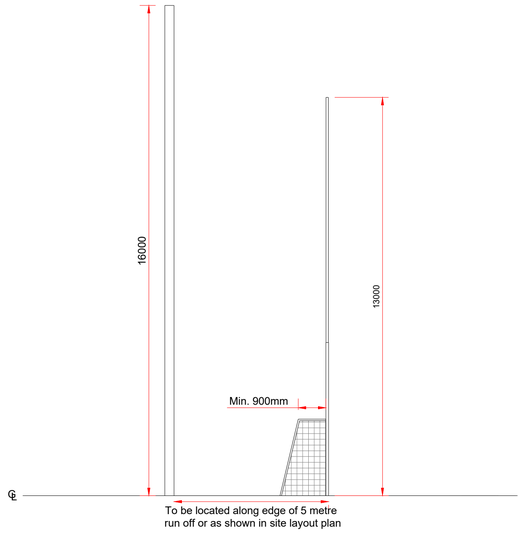
5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

FOUNDATIONS INDICITAVE CONCRETE FOUNDATIONS AS SHOWN. 4x1.5x0.6 DEEP AND 4.5x2.0x0.6m DEEP OR ACCORDING TO GROUND CONDITIONSTO BE DESIGNED BY CONTRACTORS SPECIALISTS. CONCRETE GRADE C30/37 WITH A393 MESH TOP AND BOTTOM

Typical Plan of Ball Stop Net
Scale 1:100



Typical Ball Stop Foundation Detail
Scale @ A1 - 1:50



To be located along edge of 5 metre run off or as shown in site layout plan

Typical Side Elevation of GAA Goal Post and Ball Stop Fence
Scale 1:100

Rev	Date	Description	By	Chkd.
P01	09/03/22	Revised Notes	SF	DM
P0	01.06.2021	Issued for Review	SF	SH

Client: Comhairle Contae Dhún na nGall, Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Typical Ballstop Netting Detail

Scale @ A1: As Shown
Prepared by: SF
Checked: SH
Date: June 2021
Project Director: Michael Mc Donnell
Drawing Status: Planning

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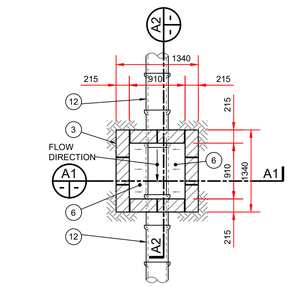
Drawing No.: 11062-2013 Revision: P01



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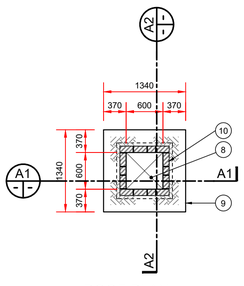

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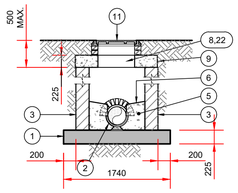
SCALE 1:50



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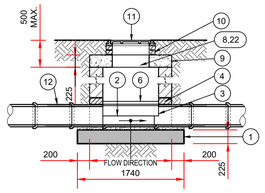
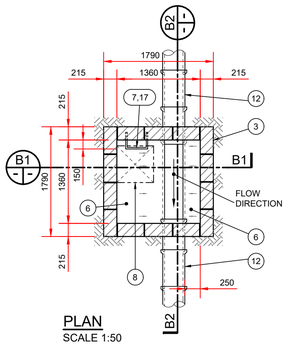


A2 SECTION
SCALE: 1:50

MANHOLE TYPE A
DEPTH TO INVERT < 1m



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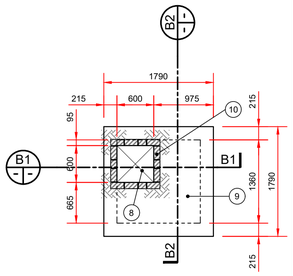
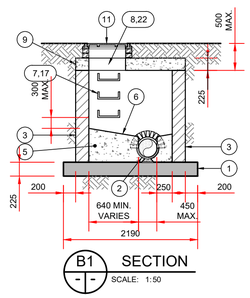


ROOF PLAN
SCALE 1:50



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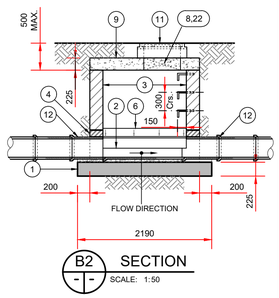
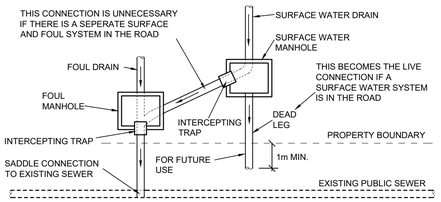
SCALE: 1:50

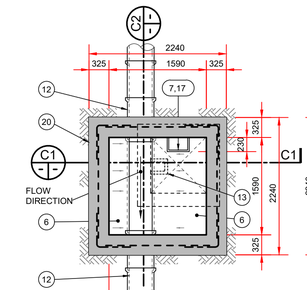


B2 SECTION
SCALE: 1:50

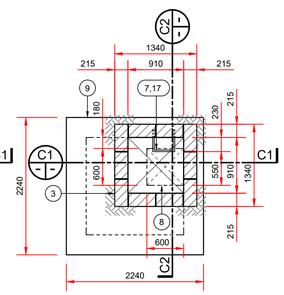
MANHOLE TYPE B
1m ≤ DEPTH TO INVERT < 3m



PLAN OF SEPARATE CONNECTION TO COMBINED SEWER N.T.S.



PLAN LOWER
SCALE 1:50



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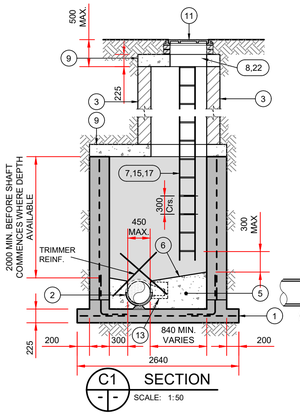
SCALE 1:50



C1 SECTION
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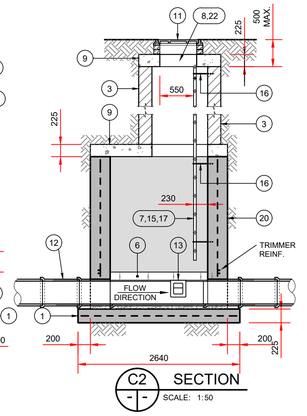
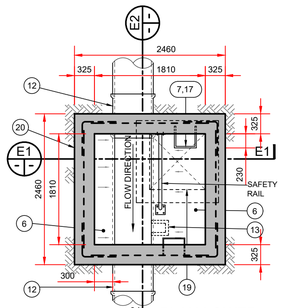
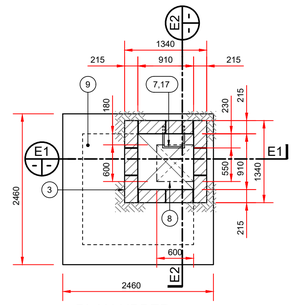


C2 SECTION
SCALE: 1:50

MANHOLE TYPE C
3m ≤ DEPTH TO INVERT < 6m



PLAN LOWER
SCALE 1:50



PLAN UPPER
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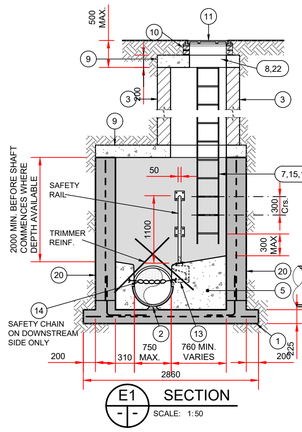
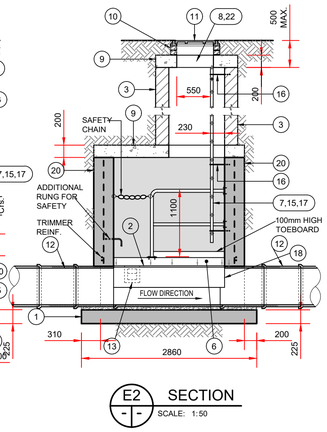


E1 SECTION
SCALE: 1:50



E2 SECTION
SCALE: 1:50

MANHOLE TYPE E
3m ≤ DEPTH TO INVERT < 6m

NOTES:

1) 225mm THICK C30/37 MASS CONCRETE FOUNDATIONS.

2) PREFORMED HALF CIRCLE CHANNEL PIPES, THE THE PIPELINE MAY, WHERE PRACTICABLE BE LAID THROUGH THE MANHOLE & THE CROWN CUT OUT TO HALF DIAMETER, PROVIDED FLEXIBLE JOINTS ARE SITUATED ON EACH SIDE NO FURTHER THAN 600mm FROM INNER FACE OF THE MANHOLE WALL.

NOTE: WHERE PIPE DIAMETER CHANGES AT A MANHOLE PIPE CROWNS TO LINE UP

3) MANHOLE CONSTRUCTION:

a) FOR SURFACE WATER MANHOLES HIGH-DENSITY BLOCKS 20N STRENGTH TO I.S. EN 771 OR C30/37 INSITU CONCRETE TO IS EN 206.

b) BLOCK WORK SHALL BE EMBEDDED & JOINTED USING MORTAR TO IS 406. BEDS & VERTICAL JOINTS TO BE COMPLETELY FILLED WITH MORTAR AS THE BLOCKS ARE LAID.

c) ALL FOUL MANHOLES MUST BE FACED IN SOLID ENGINEERING BRICK (MIN CLASS 'A' OR 'B') OR INSITU CONCRETE FOR 1m ABOVE BENCHING LEVEL. BRICK TO BE BONDED TO BLOCK WORK USING GARDEN WALL BOND.

d) JOINTS SHALL BE FLUSH AND POINTED AS THE WORK PROCEEDS.

e) MAX DEPTH OF BLOCKWORK MANHOLE IS 1.2m (THE USE OF BLOCK IN DEEPER MANHOLES WILL BE CONSIDERED BUT SUCH WILL REQUIRE DETAILED STRUCTURAL DESIGN AND WRITTEN APPROVAL FROM IRISH WATER.

4) RELIEVING ARCH FORMED BY 215 X 103 X 65 SOLID ENGINEERING BRICK CLASS 'A' OR 'B'. RELIEVING ARCHES USED IN BRICK OR BLOCK WORK MANHOLES EXTEND OVER FULL THICKNESS OF WALL A DOUBLE ARCH IS TO BE FORMED FOR PIPE DIAMETER GREATER THAN 600mm.

5) BENCHING & PIPE SURROUND - C30/37 CONCRETE.

6) BENCHING FINISHED IN SAND-CEMENT MORTAR WITH SMOOTH TOWEL FINISH, AT 1 IN 30 SLOPE TOWARDS CHANNEL.

7) STANDARD RUNGS AT 300mm c/c VERTICALLY & GALVANISED TO THE LATEST VERSION OF BS 729 OR EQUIVALENT. NOTE IRONS ARE NOT ACCEPTABLE.

8) 600mm SQUARE OPE IN ROOF.

9) PRECAST R.C ROOF SLAB SHALL BE 200mm THICK CLASS C30/37 WITH 40mm COVER TO STEEL DESIGNED TO BS 8100 TO TAKE FULL TRAFFIC LOADING.

10) 1 TO 2 COURSES OF SOLID ENGINEERING BRICKS CLASS 'B' TO IS 91.1983 SET IN C50/60 MORTAR.

11) CLASS D400 OR E600 MANHOLE COVER AND FRAME TO IS EN 124. 150mm DEEP FRAME FOR ROADS & 100mm DEEP FOR FOOTPATHS & GREEN AREAS, NON-ROCK DESIGN, CLOSED KEYWAYS, MANUFACTURED FROM SPHERICAL GRAPHITE CAST IRON (DUCTILE CAST IRON) 600 x 600 (600Ø) CLEAR OPENING, COVER & FRAME COATED IN BITUMEN OR OTHER APPROVED MATERIAL, COVER TO HAVE MINIMUM MASS OF 140kg/M2 FRAME BEARING AREA SHALL BE DESIGNED TO PREVENT COVERS FALLING INTO MANHOLE, FRAMES SHALL BE BEDDED ON APPROVED MORTAR TO MANUFACTURERS INSTRUCTIONS.

12) SHORT LENGTH PIPE & PIPE JOINT EXTERNAL TO MANHOLE SHALL NOT EXCEED 600mm FROM THE INNER FACE OF MANHOLE WALL.

13) TOE HOLES OF 230mm MINIMUM DEPTH & GALVANISED SAFETY RAILINGS TO BE PROVIDED IN BENCHING OF SEWERS GREATER THAN 525mmØ & DEPTH TO INVERT >3M FOR ACCESS TO INVERT.

14) A STAINLESS STEEL CHAIN IS TO BE PROVIDED ON PIPES THAT EXCEED 450mmØ , COMPLYING WITH BS 4942 PART 2 OR EQUIVALENT.

15) WHEN THE DEPTH OF MANHOLES TO INVERT IS GREATER THAN 3.0m LADDERS SHALL BE USED, INSTEAD OF RUNGS TO BS 4211 OR EQUIVALENT EXCEPT THAT STRINGERS SHOULD BE NOT LESS THAN 65x12mm IN SECTIONS & RUNGS 25mm IN DIAMETER. FIXED LADDERS SHOULD MEET THE DIMENSIONAL REQUIREMENTS OF BS4211 OR EQUIVALENT. DISTANCE FROM THE TOP RUNG OF THE LADDER TO GROUND LEVEL SHOULD NOT EXCEED 500mm

16) LADDER STRINGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE WALL AT INTERVALS OF NOT MORE THAN 2.0m. STRINGERS SHOULD BE BOLTED TO CLEATS TO FACILITATE RENEWAL .

17) ALL LADDER RUNGS, HANDRAILS, SAFETY CHAINS ETC. SHALL BE HOT DIPPED GALVANISED TO BS 729 OR EQUIVALENT.

18) PIPE SHOULD BE CUT FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE WALL SO THAT CHANNEL EXTENDS THE FULL LENGTH OF THE MANHOLE.

19) POSITION OF 910 SQUARE OPE IN INTERMEDIATE ROOF SLAB.

a) ALL MANHOLES SHALL BE WATERTIGHT TO THE SATISFACTION OF THE ENGINEER.
b) FORMWORK TO REINFORCED CONCRETE & MASS CONCRETE SHALL COMPLY WITH CLASS 2 SECTION 6.2.7, BS 8110:PART 1:1997
c) FINISH TO THE TOP OF SLABS SHALL COMPLY WITH TYPE A SECTION 6.2.7, BS8110, PART 1997.
d) PLAN DIMENSIONS OF MANHOLES ARE BASED ON BLOCKWORK HAVING A CO-ORDINATING SIZE OF 450 x 225 x 100. FORT PIPE DIAMETER OF >750mm USE MANHOLE WITH INTERNAL DIAMETER SIZE = PIPE SIZE +1m +300mm
e) MANHOLES ARE DESIGNED TO BS8005 & WALL THICKNESS TO IS325, BLOCK WORK DESIGN CODE TAKING GRANULAR FILL PRESSURE & H.B SURCHARGE.
f) REINFORCEMENT TO SLABS ENGINEERS DETAILS.

20) FOR MANHOLES >3m DEPTH TO INVERT USE C30/37 INSITU CONCRETE, REINFORCING MESH REF., A393 TO BE FIXED AT MID POINT OF WALL, ADDITIONAL REINFORCEMENT TO BE SUPPLIED OVER PIPE CROWN.

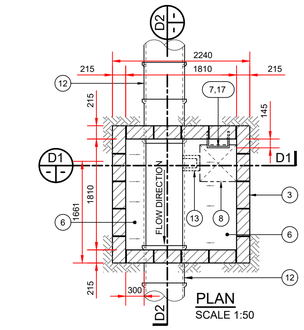
21) PRECAST MANHOLES, CHAMBER WALLS & COVER SLAB TO BE CONSTRUCTED TO IS EN 1917 & IS 420:2004

22) MANHOLE OPENINGS TO BE SITUATED FURTHEST FROM THE NEAREST CARRIAGEWAY. MANHOLE STEPS-ACCESS TO BE POSITIONED TO ALLOW VIEWING OF ONCOMING TRAFFIC

23) FOR BEDDING & SEALING OF CHAMBER RINGS, THE TOP RING (TO PRECAST OVER SLAB) & BOTTOM RING TO BE BEDDED WITH CEMENT MORTAR. FOR INTERMEDIATE RINGS, JOINTS TO BE SEALED WITH APPROVED PREFORMED JOINTING STRAP

24) PRECAST MANHOLES TO BE SURROUNDED WITH A MINIMUM OF 150mm THICK GRADE C16/20 CONCRETE.

25) ALL FOUL MANHOLES TO COMPLY WITH REQUIREMENTS OF IRISH WATER STD-WW-09 TO 13



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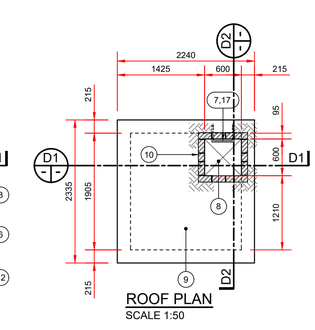
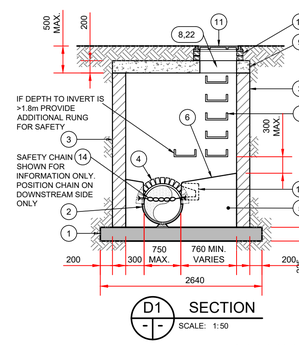


ROOF PLAN
SCALE 1:50



D1 SECTION
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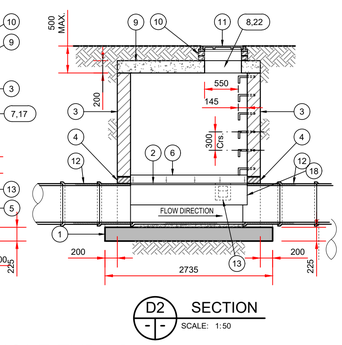
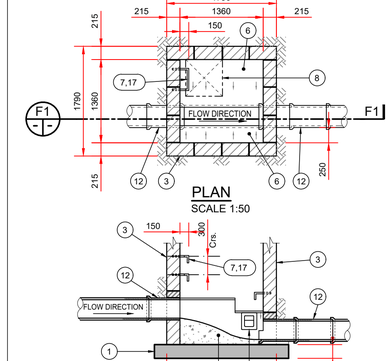


D2 SECTION
SCALE: 1:50

MANHOLE TYPE D
1m ≤ DEPTH TO INVERT < 3m



PLAN
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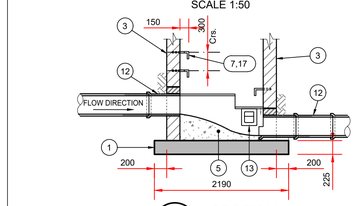
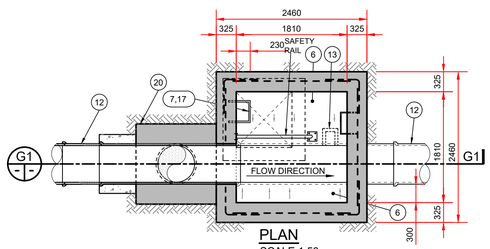


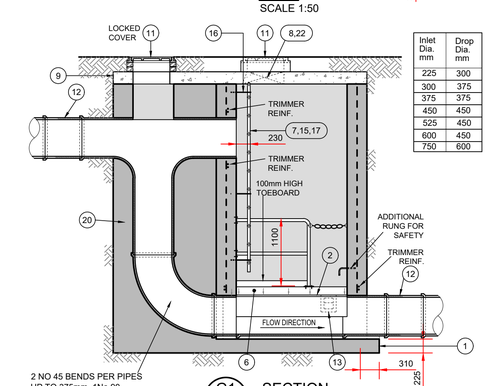
F1 SECTION
SCALE: 1:50

TABLE F	
INLET Ø mm A	DEPTH (max) mm H
225	600
300	600
375	750
450	750
525	750
600	750
750	750
WHEN THE DROP 'H' IS GREATER THAN THE MAX VALUE SHOWN USE BACKDROP MANHOLE	

MANHOLE TYPE F
RAMP MANHOLE



PLAN
SCALE 1:50



Inlet Dia. mm	Drop Dia. mm
225	300
300	375
375	375
450	450
525	450
600	450
750	600

G1 SECTION
SCALE: 1:50

MANHOLE TYPE G
BACKDROP MANHOLE FOR ALL PIPE DIAMETERS
DROP > 600 FOR 225 & 300 PIPE DIAMETERS
DROP > 750 FOR GREATER PIPE DIAMETERS

NOTES :

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE
3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES
5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Peace Northern Ireland - Ireland
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LCDC Developing our communities
Coiste Forbartha Pobail Áitiúil
Local Community Development Committees

Rev	Date	Description	By	Chkd.
P0	01.06.2021	Issued for Review	SF	SH

Client: Comhairle Contae Dhún na nGall
Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Standard Manhole Details (Sheet 1 of 2)

Scale @ A1:	AS SHOWN	
Prepared by: SF	Checked: SH	Date: June 2021
Project Director:	M. McD.	
Drawing Status:	Planning	

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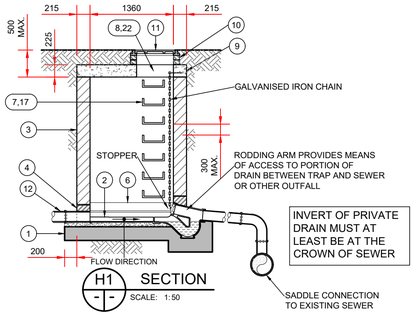
Drawing No.: 11062-2014 Revision: P0



MANHOLE TYPE H
INTERCEPTOR TRAP DETAILS
FOR OUTFALL MANHOLES AT SITE BOUNDARY
PRIOR TO CONNECTING TO PUBLIC SYSTEM

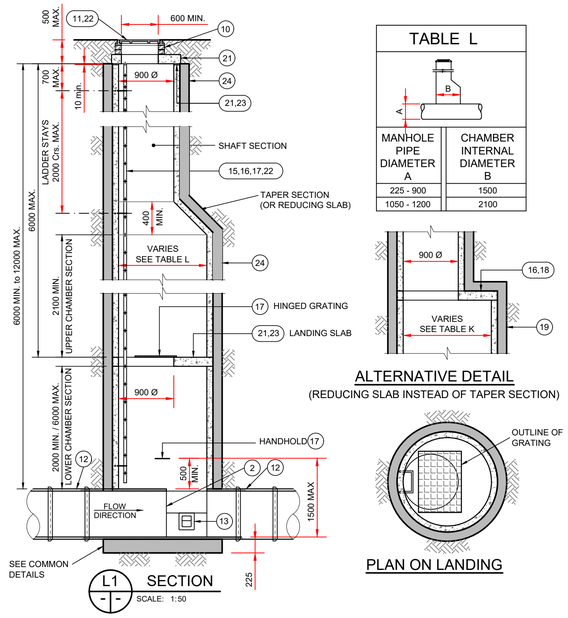


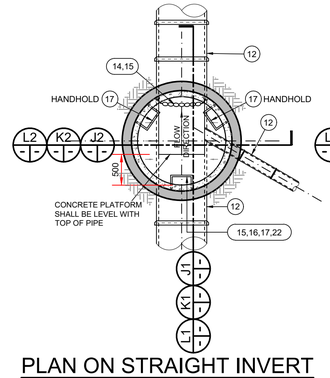
TABLE L

MANHOLE PIPE DIAMETER A	CHAMBER INTERNAL DIAMETER B
225 - 900	1500
1050 - 1200	2100

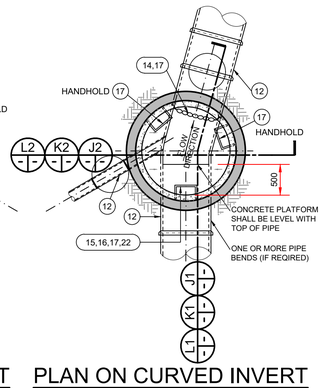
ALTERNATIVE DETAIL
(REDUCING SLAB INSTEAD OF TAPER SECTION)

PLAN ON LANDING

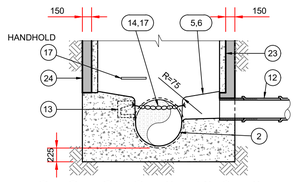
MANHOLE TYPE L
6m < DEPTH TO INVERT < 12m



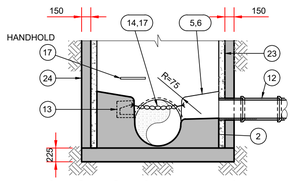
PLAN ON STRAIGHT INVERT
(WITHOUT COVER SLAB)



PLAN ON CURVED INVERT
(WITHOUT COVER SLAB)



SECTIONS L2, K2 & J2
THRO' PRECAST BASE
1:50



SECTIONS L2, K2 & J2
THRO' INSITU BASE
1:50

COMMON DETAILS

NOTES:

1) 225mm THICK C30/37 MASS CONCRETE FOUNDATIONS,

2) PREFORMED HALF CIRCLE CHANNEL PIPES, THE THE PIPELINE MAY, WHERE PRACTICABLE BE LAID THROUGH THE MANHOLE & THE CROWN CUT OUT TO HALF DIAMETER, PROVIDED FLEXIBLE JOINTS ARE SITUATED ON EACH SIDE NO FURTHER THAN 600mm FROM INNER FACE OF THE MANHOLE WALL.

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c) ALL FOUL MANHOLES MUST BE FACED IN SOLID ENGINEERING BRICK (MIN CLASS 'A' OR 'B') OR INSITU CONCRETE FOR 1m ABOVE BENCHING LEVEL. BRICK TO BE BONDED TO BLOCK WORK USING GARDEN WALL BOND.

d) JOINTS SHALL BE FLUSH AND POINTED AS THE WORK PROCEEDS.

e) MAX DEPTH OF BLOCKWORK MANHOLE IS 1.2m (THE USE OF BLOCK IN DEEPER MANHOLES WILL BE CONSIDERED BUT SUCH WILL REQUIRE DETAILED STRUCTURAL DESIGN AND WRITTEN APPROVAL FROM IRISH WATER.

4) RELIEVING ARCH FORMED BY 215 X 103 X 65 SOLID ENGINEERING BRICK CLASS 'A' OR 'B'. RELIEVING ARCHES USED IN BRICK OR BLOCK WORK MANHOLES EXTEND OVER FULL THICKNESS OF WALL A DOUBLE ARCH IS TO BE FORMED FOR PIPE DIAMETER GREATER THAN 600mm.

5) BENCHING & PIPE SURROUND - C30/37 CONCRETE.

6) BENCHING FINISHED IN SAND-CEMENT MORTAR WITH SMOOTH TOWEL FINISH, AT 1 IN 30 SLOPE TOWARDS CHANNEL.

7) STANDARD RUNGS AT 300mm c/c VERTICALLY & GALVANISED TO THE LATEST VERSION OF BS 729 OR EQUIVALENT. NOTE IRONS ARE NOT ACCEPTABLE.

8) 600mm SQUARE OPE IN ROOF.

9) PRECAST R.C ROOF SLAB SHALL BE 200mm THICK CLASS C30/37 WITH 40mm COVER TO STEEL DESIGNED TO BS 8100 TO TAKE FULL TRAFFIC LOADING.

10) 1 TO 2 COURSES OF SOLID ENGINEERING BRICKS CLASS 'B' TO IS 91.1983 SET IN C50/60 MORTAR.

11) CLASS D400 OR E600 MANHOLE COVER AND FRAME TO IS EN 124. 150mm DEEP FRAME FOR ROADS & 100mm DEEP FOR FOOTPATHS & GREEN AREAS, NON-ROCK DESIGN, CLOSED KEYWAYS, MANUFACTURED FROM SPHERICAL GRAPHITE CAST IRON (DUCTILE CAST IRON) 600 x 600 (600Ø) CLEAR OPENING, COVER & FRAME COATED IN BITUMEN OR OTHER APPROVED MATERIAL, COVER TO HAVE MINIMUM MASS OF 140kg/M2 FRAME BEARING AREA SHALL BE DESIGNED TO PREVENT COVERS FALLING INTO MANHOLE, FRAMES SHALL BE BEDDED ON APPROVED MORTAR TO MANUFACTURERS INSTRUCTIONS.

12) SHORT LENGTH PIPE & PIPE JOINT EXTERNAL TO MANHOLE SHALL NOT EXCEED 600mm FROM THE INNER FACE OF MANHOLE WALL.

13) TOE HOLES OF 230mm MINIMUM DEPTH & GALVANISED SAFETY RAILINGS TO BE PROVIDED IN BENCHING OF SEWERS GREATER THAN 525mmØ & DEPTH TO INVERT >3M FOR ACCESS TO INVERT.

14) A STAINLESS STEEL CHAIN IS TO BE PROVIDED ON PIPES THAT EXCEED 450mmØ , COMPLYING WITH BS 4942 PART 2 OR EQUIVALENT.

15) WHEN THE DEPTH OF MANHOLES TO INVERT IS GREATER THAN 3.0m LADDERS SHALL BE USED, INSTEAD OF RUNGS TO BS 4211 OR EQUIVALENT EXCEPT THAT STRINGERS SHOULD BE NOT LESS THAN 65x12mm IN SECTIONS & RUNGS 25mm IN DIAMETER. FIXED LADDERS SHOULD MEET THE DIMENSIONAL REQUIREMENTS OF BS4211 OR EQUIVALENT. DISTANCE FROM THE TOP RUNG OF THE LADDER TO GROUND LEVEL SHOULD NOT EXCEED 500mm

16) LADDER STRINGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE WALL AT INTERVALS OF NOT MORE THAN 2.0m. STRINGERS SHOULD BE BOLTED TO CLEATS TO FACILITATE RENEWAL .

17) ALL LADDER RUNGS, HANDRAILS, SAFETY CHAINS ETC. SHALL BE HOT DIPPED GALVANISED TO BS 729 OR EQUIVALENT.

18) PIPE SHOULD BE CUT FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE WALL SO THAT CHANNEL EXTENDS THE FULL LENGTH OF THE MANHOLE.

19) POSITION OF 910 SQUARE OPE IN INTERMEDIATE ROOF SLAB.

a) ALL MANHOLES SHALL BE WATERTIGHT TO THE SATISFACTION OF THE ENGINEER.
b) FORMWORK TO REINFORCED CONCRETE & MASS CONCRETE SHALL COMPLY WITH CLASS 2 SECTION 6.2.7, BS 8110;PART 1:1997
c) FINISH TO THE TOP OF SLABS SHALL COMPLY WITH TYPE A SECTION 6.2.7, BS8110, PART 1997.
d) PLAN DIMENSIONS OF MANHOLES ARE BASED ON BLOCKWORK HAVING A CO-ORDINATING SIZE OF 450 x 225 x 100. FORT PIPE DIAMETER OF >750mm USE MANHOLE WITH INTERNAL DIAMETER SIZE = PIPE SIZE +1m +300mm
e) MANHOLES ARE DESIGNED TO BS8005 & WALL THICKNESS TO IS325, BLOCK WORK DESIGN CODE TAKING GRANULAR FILL PRESSURE & H.B SURCHARGE.
f) REINFORCEMENT TO SLABS ENGINEERS DETAILS.

20) FOR MANHOLES >3m DEPTH TO INVERT USE C30/37 INSITU CONCRETE, REINFORCING MESH REF., A393 TO BE FIXED AT MID POINT OF WALL. ADDITIONAL REINFORCEMENT TO BE SUPPLIED OVER PIPE CROWN.

21) PRECAST MANHOLES, CHAMBER WALLS & COVER SLAB TO BE CONSTRUCTED TO IS EN 1917 & IS 420:2004

22) MANHOLE OPENINGS TO BE SITUATED FURTHEST FROM THE NEAREST CARRIAGEWAY. MANHOLE STEPS-ACCESS TO BE POSITIONED TO ALLOW VIEWING OF ONCOMING TRAFFIC

23) FOR BEDDING & SEALING OF CHAMBER RINGS, THE TOP RING (TO PRECAST OVER SLAB) & BOTTOM RING TO BE BEDDED WITH CEMENT MORTAR. FOR INTERMEDIATE RINGS, JOINTS TO BE SEALED WITH APPROVED PREFORMED JOINTING STRAP

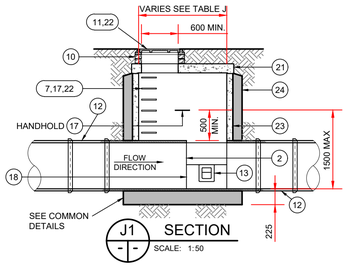
24) PRECAST MANHOLES TO BE SURROUNDED WITH A MINIMUM OF 150mm THICK GRADE C16/20 CONCRETE.

25) ALL FOUL MANHOLES TO COMPLY WITH REQUIREMENTS OF IRISH WATER STD-WW-09 TO 13

NOTE:
CONTRACTOR TO NOTE ALL MANHOLE WORKS TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS AND CODE OF PRACTICE. IRISH WATER DETAILS AND REQUIREMENTS WILL TAKE PRECEDENCE

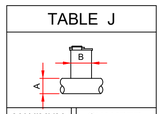
N O T E S :

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE
3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES
5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

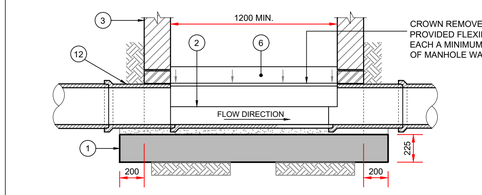


MANHOLE TYPE J
1m < DEPTH TO CROWN < 3m

TABLE J

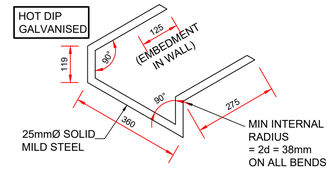


MAXIMUM PIPE DIAMETER A	CHAMBER INTERNAL DIAMETER B
LESS THAN 375	1200
375 TO 450	1350
500 TO 750	1500

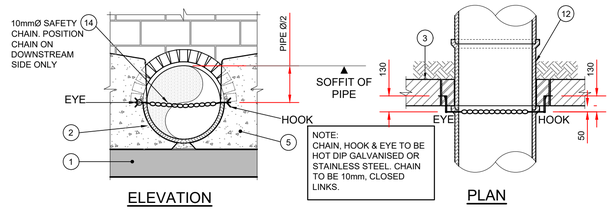


CROWN REMOVED BY CUTTING TO HALF DIAMETER PROVIDED FLEXIBLE JOINTS ARE SITUATED ON EACH A MINIMUM OF 600mm FROM EXTERNAL FACE OF MANHOLE WALLS (SEE NOTE 2).

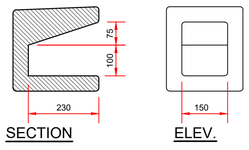
ALTERNATIVE METHOD OF FORMING CHANNEL THROUGH MANHOLE
SCALE 1:25



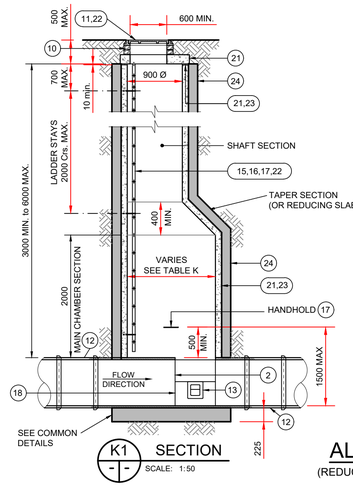
STANDARD RUNG
(IRON STEPS NOT PERMITTED)
SCALE 1:10



SAFETY CHAIN, HOOK & EYE DETAIL N.T.S.

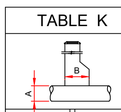


DETAILS OF TOE HOLD
SCALE 1:10

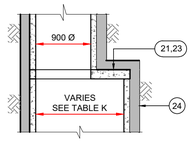


MANHOLE TYPE K
3m ⩽ DEPTH TO INVERT < 6m

TABLE K



MANHOLE PIPE Ø A	CHAMBER INTERNAL Ø B
LESS THAN 375	1200
375 TO 450	1350
500 TO 750	1500
900	1500
1050	2100
1200	2100



ALTERNATIVE DETAIL
(REDUCING SLAB INSTEAD OF TAPER SECTION)

Rev	Date	Description	By	Chkd.
P0	01.06.2021	Issued for Review	SF	SH

Client: Comhairle Contae Dhún na nGall, Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Standard Manhole Details Sheet 2 of 2

Scale @ A1:	AS SHOWN		
Prepared by: SF	Checked: SH	Date: June 2021	
Project Director:	M. McD.		
Drawing Status:	Planning		

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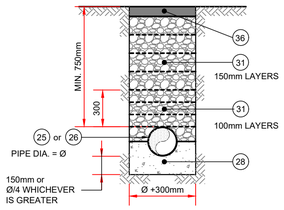
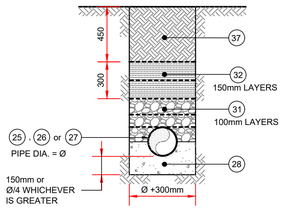
Drawing No.: 11062-2015 | Revision: P0

Peace Northern Ireland - Ireland, European Regional Development Fund
LCDC Developing our communities, Coiste Forbartha Pobail Áitiúil, Local Community Development Committees



NOTE:
1.IF COVER IS LESS THAN THESE FIGURES PIPE TO BE FULLY SURROUNDED IN 150mm THICK CONCRETE AS PER DETAIL QØ/4 WHICHEVER IS GREATER.
2.APPLIES WHERE EDGE OF TRENCH IS WITHIN 1000mm OF ROAD EDGE.

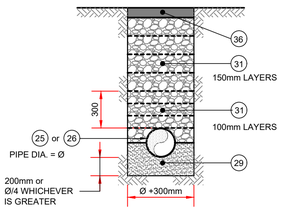


UNDER ROADS/HARDSTANDINGS/FOOTPATHS
COVER > 1.2m

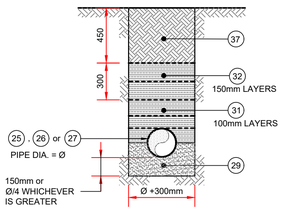
UNDER LANDSCAPED AREAS
COVER > 0.9 m

M DETAIL
SCALE: 1:25

CONCRETE BEDDING



NOTE:
1.IF COVER IS LESS THAN THESE FIGURES PIPE TO BE FULLY SURROUNDED IN 150mm THICK CONCRETE AS PER DETAIL QØ/4 WHICHEVER IS GREATER.
2.DEPTH OF BEDDING CAN BE REDUCED TO 100mm FOR 100mm Ø PIPES.

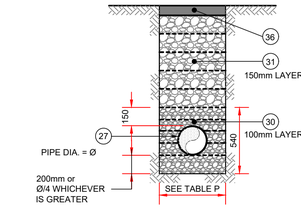


UNDER ROADS/HARDSTANDINGS/FOOTPATHS
COVER > 1.2m

UNDER LANDSCAPED AREAS
COVER > 0.9m

N DETAIL
SCALE: 1:25

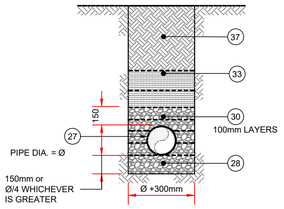
GRANULAR BEDDING



NOTE:
1.IF COVER IS LESS THAN THESE FIGURES PIPE TO BE FULLY SURROUNDED IN 150mm THICK CONCRETE AS PER DETAIL

2.DEPTH OF BEDDING CAN BE REDUCED TO 100mm FOR100mmØ PIPES

TABLE P		
PIPE SIZE (mm)	WIDTH OF TRENCH (mm)	
110	450	600
160	450	600
200-250	600	700
315	700	850
355	750	900
400	800	950
450	850	1000

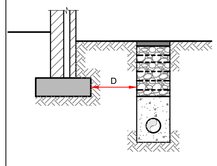


UNDER ROADS/HARDSTANDINGS/FOOTPATHS
COVER > 1.2m

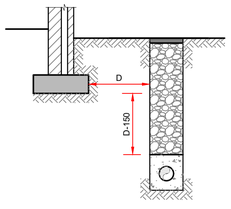
UNDER LANDSCAPED AREAS
COVER > 1.2m

P DETAIL
SCALE: 1:25

UPVC PIPES BEDDING



NOTE: TRENCHES FOR PIPES NEAR FOUNDATIONS TO BE EXCAVATED IN SHORT SECTIONS TO AVOID UNDERMINING OF FOUNDATIONS. EXCAVATION, PIPELAYING AND CONCRETE BACKFILL TO BE CARRIED OUT ON THE SAME DAY. CONTRACTOR TO SUBMIT METHOD STATEMENT FOR REVIEW BY THE ENGINEER PRIOR TO EXCAVATION BEING CARRIED OUT.

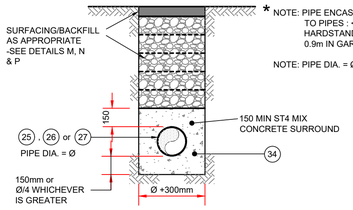


WHERE 'D' IS LESS THAN 1m
CONCRETE FILL TO LEVEL OF FOUNDATION BOTTOM)

WHERE 'D' IS 1m OR MORE
CONCRETE FILL TO WITHIN D-150mm OF LEVEL OF FOUNDATION BOTTOM

T DETAIL
SCALE: 1:50

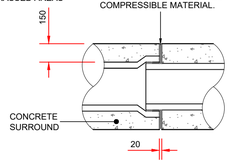
CONCRETE PIPE LAID NEAR FOUNDATIONS



* NOTE: PIPE ENCASEMENT WHERE COVER TO PIPES : < 1.2m IN ROADS / HARDSTANDING / FOOTPATHS & < 0.9m IN GARDENS / GRASSED AREAS

NOTE: PIPE DIA. = Ø

CONCRETE PIPE ENCASEMENT DETAIL

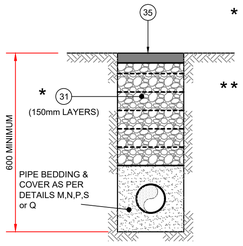


WHERE FLEXIBLY JOINTED PIPES ARE USED THE CONCRETE SURROUND SHALL HAVE A 20mm GAP FILLED WITH APPROVED COMPRESSIBLE MATERIAL.

JOINT IN CONCRETE SURROUND

Q DETAIL
SCALE: 1:25

CONCRETE ENCASEMENT



* NOTE:

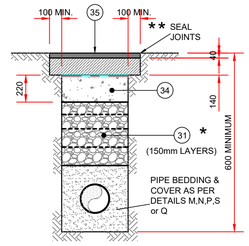
TO AVOID STAGE 2 REPLACE CL808 (31) WITH LEAN MIX CONCRETE (34)

STAGE 1

LEAVE FOR 6 MONTHS TO CONSOLIDATE

** NOTE:

1. FORM A SAW CUT 100mm DEEP AT A MIN. OF 100mm FROM SIDES OF EXCAVATION PRIOR TO PERMANENT REINSTATEMENT. WHERE ANY TRIM LINES ARE WITHIN 400mm OF ROAD EDGE, JOINT, OTHER REINSTATEMENT, OR IRONWORK, THE TRIM LINE SHOULD BE EXTENDED TO THE INTERFACE OF SUCH SITUATIONS.
2. LEAN-MIX SURFACE TO BE SPRAYED AS PER CLAUSE 920 (NRA SPEC.) PRIOR TO APPLICATION OF BINDER COURSE MACADAM.
3. 100°C HOT BITUMEN BINDER 50 PEN OR COLD THIXOTROPIC BITUMEN 50 - 70 PEN TO BE APPLIED TO ALL VERTICAL CUTS IN ACCORDANCE WITH IS EN 13108-4 PRIOR TO APPLICATION OF BITUMINOUS MATERIAL.
4. JOINTS SEALED WITH HOT BITUMEN AND TOPPED WITH FINE SAND / GRIT TO GET A MINIMUM 55 SKID RESISTANCE VALUE AS DETERMINED BY THE PORTABLE SKID RESISTANCE PENDULUM USED IN ACCORDANCE WITH ROAD NOTE 27 AND SHALL NOT EXCEED 3mm THICKNESS AND 25mm WIDTH.

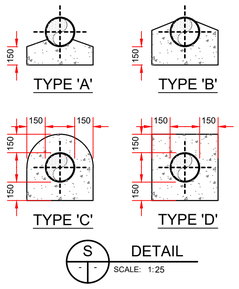


STAGE 2

DIG OUT SURFACING & TOP 220mm OF CL808 MATERIAL (31) & REPLACE WITH NEW WIDER SURFACING ON 220mm LAYER OF LEAN-MIX CONCRETE (35)

R DETAIL
SCALE: 1:25

REINSTATEMENT OF PIPE TRENCH IN EXISTING ROAD



S DETAIL
SCALE: 1:25

GENERAL NOTES

1) IN SOFT CONDITIONS CBR<5 THE MATERIAL SHOULD BE EXCAVATED AND DISPOSED IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND CLAUSE 804 MATERIAL IN ACCORDANCE WITH THE NRA SPECIFICATION FOR ROAD WORKS, SHALL REPLACE THE EXCAVATED MATERIAL, WRAPPED IN GEO-TEXTILE SHEETING, ALTERNATIVELY SPECIAL PIPE SUPPORT ARRANGEMENTS INCLUDING PLING ETC. MAY BE REQUIRED WHERE THE SOFT MATERIAL IS EXCESSIVE. SUCH ARRANGEMENTS SHALL BE ASSESSED BY IRISH WATER BEFORE ADVANCING WITH THE WORK.

2) PIPES SHALL NOT BE SUPPORTED ON STONES, ROCKS OR AND HARD OBJECT AT ANY POINT ALONG THE TRENCH. ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 804 MATERIAL IN ACCORDANCE WITH THE NRA SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.

3) NON DEGRADABLE MARKER TAPE SHOULD BE INSTALLED AT TOP OF PIPE BEDDING LAYER. IN CASE OF NON METAL PIPE MATERIAL THE MARKER SHOULD INCORPORATE A TRACE WIRE WHICH IS LINKED TO THE FITTINGS AND AND TERMINATED AT THE PLUMBING STATION AND DISCHARGE MANHOLE.

4) TRENCH WIDTHS FOR PIPE SIZES 80mm AND LESS MAY BE <500mm SUBJECT TO CONSIDERATION BEING GIVEN TO THE TRENCH DEPTH, H&S, CONSTRUCTION ACCESS REQUIREMENTS.

5) THE HAUNCHES AND SURROUNDS TO BE FORMED USING FORM WORK AND PROVIDE A ROUGH CAST.

6) EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL PIPE JOINTS TO ALLOW FOR PIPE FLEXIBILITY, COMPRESSIBLE FILLER BOARD TO BE IN ACCORDANCE WITH BS EN 622-1 AND BS EN 622-4 AND TO BE 18mm THICK.

7) POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.

8) BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PE OR PVC PIPES.

NOTE:
CONTRACTOR TO NOTE ALL FOUL & WATERMAIN BEDDING DETAILS TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS AND CODE OF PRACTICE. IRISH WATER DETAILS AND REQUIREMENTS WILL TAKE PRECEDENCE

NOTES:

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE
3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES
5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

NOTES:

1) 225mm THICK C30/37 MASS CONCRETE FOUNDATIONS,

2.) PREFORMED HALF CIRCLE CHANNEL PIPES, THE THE PIPELINE MAY, WHERE PRACTICABLE BE LAID THROUGH THE MANHOLE & THE CROWN CUT OUT TO HALF DIAMETER, PROVIDED FLEXIBLE JOINTS ARE SITUATED ON EACH SIDE NO FURTHER THAN 600mm FROM INNER FACE OF THE MANHOLE WALL.

NOTE: WHERE PIPE DIAMETER CHANGES AT A MANHOLE PIPE CROWNS TO LINE UP

3.) MANHOLE CONSTRUCTION:

a) FOR SURFACE WATER MANHOLES HIGH-DENSITY BLOCKS 20N STRENGTH TO I.S. EN 771 OR C30/37 INSITU CONCRETE TO IS EN 206.

b) BLOCK WORK SHALL BE EMBEDDED & JOINTED USING MORTAR TO IS 406. BEDS & VERTICAL JOINTS TO BE COMPLETELY FILLED WITH MORTAR AS THE BLOCKS ARE LAID.

c) ALL FOUL MANHOLES MUST BE FACED IN SOLID ENGINEERING BRICK (MIN CLASS 'A' OR 'B') OR INSITU CONCRETE FOR 1m ABOVE BENCHING LEVEL. BRICK TO BE BONDED TO BLOCK WORK USING GARDEN WALL BOND.

d) JOINTS SHALL BE FLUSH AND POINTED AS THE WORK PROCEEDS.

e) MAX DEPTH OF BLOCKWORK MANHOLE IS 1.2m (THE USE OF BLOCK IN DEEPER MANHOLES WILL BE CONSIDERED BUT SUCH WILL REQUIRE DETAILED STRUCTURAL DESIGN AND WRITTEN APROVAL FROM IRISH WATER.

4) RELIEVING ARCH FORMED BY 215 X 103 X 65 SOLID ENGINEERING BRICK CLASS 'A' OR 'B'. RELIEVING ARCHES USED IN BRICK OR BLOCK WORK MANHOLES EXTEND OVER FULL THICKNESS OF WALL A DOUBLE ARCH IS TO BE FORMED FOR PIPE DIAMETER GREATER THAN 600mm.

5) BENCHING & PIPE SURROUND - C30/37 CONCRETE.

6) BENCHING FINISHED IN SAND-CEMENT MORTAR WITH SMOOTH TOWEL FINISH, AT 1 IN 30 SLOPE TOWARDS CHANNEL.

7) STANDARD RUNGS AT 300mm c/c VERTICALLY & GALVANISED TO THE LATEST VERSION OF BS 729 OR EQUIVALENT. NOTE IRONS ARE NOT ACCEPTABLE.

8) 600mm SQUARE OPE IN ROOF.

9) PRECAST R.C ROOF SLAB SHALL BE 200mm THICK CLASS C30/37 WITH 40mm COVER TO STEEL DESIGNED TO BS 8100 TO TAKE FULL TRAFFIC LOADING.

10) 1 TO 2 COURSES OF SOLID ENGINEERING BRICKS CLASS 'B' TO IS 91.1983 SET IN C50/80 MORTAR.

11) CLASS D400 OR E600 MANHOLE COVER AND FRAME TO IS EN 124. 150mm DEEP FRAME FOR ROADS & 100mm DEEP FOR FOOTPATHS & GREEN AREAS, NON-ROCK DESIGN, CLOSED KEYWAYS, MANUFACTURED FROM SPHERICAL GRAPHITE CAST IRON (DUCTILE CAST IRON) 600 x 600 (600Ø) CLEAR OPENING, COVER & FRAME COATED IN BITUMEN OR OTHER APPROVED MATERIAL, COVER TO HAVE MINIMUM MASS OF 140kg/M2 FRAME BEARING AREA SHALL BE DESIGNED TO PREVENT COVERS FALLING INTO MANHOLE, FRAMES SHALL BE BEDDED ON APPROVED MORTAR TO MANUFACTURERS INSTRUCTIONS.

12) SHORT LENGTH PIPE & PIPE JOINT EXTERNAL TO MANHOLE SHALL NOT EXCEED 600mm FROM THE INNER FACE OF MANHOLE WALL.

13) TOE HOLES OF 230mm MINIMUM DEPTH & GALVANISED SAFETY RAILINGS TO BE PROVIDED IN BENCHING OF SEWERS GREATER THAN 525mmØ & DEPTH TO INVERT >3M FOR ACCESS TO INVERT.

14) A STAINLESS STEEL CHAIN IS TO BE PROVIDED ON PIPES THAT EXCEED 450mmØ , COMPLYING WITH BS 4942 PART 2 OR EQUIVALENT.

15) WHEN THE DEPTH OF MANHOLES TO INVERT IS GREATER THAN 3.0m LADDERS SHALL BE USED, INSTEAD OF RUNGS TO BS 4211 OR EQUIVALENT EXCEPT THAT STRINGERS SHOULD BE NOT LESS THAN 65x12mm IN SECTIONS & RUNGS 25mm IN DIAMETER. FIXED LADDERS SHOULD MEET THE DIMENSIONAL REQUIREMENTS OF BS4211 OR EQUIVALENT. DISTANCE FROM THE TOP RUNG OF THE LADDER TO GROUND LEVEL SHOULD NOT EXCEED 500mm

16) LADDER STRINGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE WALL AT INTERVALS OF NOT MORE THAN 2.0m. STRINGERS SHOULD BE BOLTED TO CLEATS TO FACILITATE RENEWAL .

17) ALL LADDER RUNGS, HANDRAILS, SAFETY CHAINS ETC. SHALL BE HOT DIPPED GALVANISED TO BS 729 OR EQUIVALENT.

18) PIPE SHOULD BE CUT FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE WALL SO THAT CHANNEL EXTENDS THE FULL LENGTH OF THE MANHOLE.

19) POSITION OF 910 SQUARE OPE IN INTERMEDIATE ROOF SLAB.

a) ALL MANHOLES SHALL BE WATERTIGHT TO THE SATISFACTION OF THE ENGINEER.
b) FORMWORK TO REINFORCED CONCRETE & MASS CONCRETE SHALL COMPLY WITH CLASS 2 SECTION 6.2.7, BS 8110:PART 1:1997
c) FINISH TO THE TOP OF SLABS SHALL COMPLY WITH TYPE A SECTION 6.2.7, BS8110, PART 1997.
d) PLAN DIMENSIONS OF MANHOLES ARE BASED ON BLOCKWORK HAVING A CO-ORDINATING SIZE OF 450 x 225 x 100. FORT PIPE DIAMETER OF >750mm USE MANHOLE WITH INTERNAL DIAMETER SIZE = PIPE SIZE +1m +300mm
e) MANHOLES ARE DESIGNED TO BS8005 & WALL THICKNESS TO IS325, BLOCK WORK DESIGN CODE TAKING GRANULAR FILL PRESSURE & H.B SURCHARGE.
f) REINFORCEMENT TO SLABS ENGINEERS DETAILS.

20) FOR MANHOLES >3m DEPTH TO INVERT USE C30/37 INSITU CONCRETE, REINFORCING MESH REF. A393 TO BE FIXED AT MID POINT OF WALL. ADDITIONAL REINFORCEMENT TO BE SUPPLIED OVER PIPE CROWN.

21) PRECAST MANHOLES, CHAMBER WALLS & COVER SLAB TO BE CONSTRUCTED TO IS EN 1917 & IS 420:2004

22) MANHOLE OPENINGS TO BE SITUATED FURTHEST FROM THE NEAREST CARRIAGEWAY. MANHOLE STEPS-ACCESS TO BE POSITIONED TO ALLOW VIEWING OF ONCOMING TRAFFIC

23) FOR BEDDING & SEALING OF CHAMBER RINGS, THE TOP RING (TO PRECAST OVER SLAB) & BOTTOM RING TO BE BEDDED WITH CEMENT MORTAR. FOR INTERMEDIATE RINGS, JOINTS TO BE SEALED WITH APPROVED PREFORMED JOINTING STRAP

24) PRECAST MANHOLES TO BE SURROUNDED WITH A MINIMUM OF 150mm THICK GRADE C16/20 CONCRETE.

25) CONCRETE SEWER PIPES WITH SPIGOT & SOCKET JOINTS & RUBBER FITTINGS TO TO COMPLY WITH IS/EN 1916 & IS 6 2004 OR EQUIVALENT STANDARD CLASS M OR CLASS H

26) VIRTIFIED CLAY PIPES AND FITTINGS COMPLYING WITH THE REQUIREMENTSOF IS/EN 295-1/2/3 : 1992 OR EQUIVALENT STANDARD CLASS 160 OR CLASS 200

27) UNPLASTICISED POLYVINYL CHLORIDE (UPVC) PIPES & FITTINGS IN ACCORDANCE WITH THE REQUIREMENTS OF IS424

28) CONCRETE BED & SURROUND MUST BE A MINIMUM 150mm THICK IN-SITU CONCRETE C16/20 & HAUNCHED HALFWAY UP THE BARREL OF THE PIPE.

29) GRANULAR BED AND SURROUND OF RIGID PIPES TO BE EITHER
A) 14mm TO 5mm GRADED AGGREGATE OR.
B) 10mm SINGLE SIZE AGGREGATE

30) GRANULAR BED AND SURROUND & COVER FOR UPVC TO BE:
A) 14mm TO 5mm GRADED AGGREGATE 315mm+ PIPE DIAMETER
B) 10mm SINGLE SIZED AGGREGATE PIPE DIAMETER <315mm

ALL COMPLYING WITH THE REQUIREMENTS OF IS 5: PART 1:1990, TABLE 7 & SHOULD HAVE A COMPACTION FACTOR VALUE OF NOT GREATER THAN 0.2 WHEN MEASURED IN ACCORDANCE WITH BS 8301: 1985, APPENDIX D. GRANULAR SIDE FILL & COVER TO BE PLACED UNIFORMLY ON EITHER SIDE OF THE PIPE IN LAYERS NOT EXCEEDING 100mm EACH LAYER BEING COMPACTED BY HAND TAMPING UNTIL THE PIPE HAS A MINIMUM COMPACTED COVER OF 150mm.

31) GRANULAR BACKFILL MATERIAL SHALL BE IN COMPLIANCE WITH CLAUSE 804 (GRANULAR MATERIAL TYPE B) OF THE NRA SPECIFICATION FOR ROAD WORKS. GRANULAR FILL SHOULD BE PLACED ON EITHER SIDE OF THE FILL IN UNIFORM LAYERS NOT EXCEEDING 100mm. EACH LAYER BEING COMPACTED BY HAND & UNDERGOING TAMPING UNTIL IT HAS A MINIMUM LAYER OF 300mm COMPACTED OVER. CARE SHOULD BE TAKEN SO THAT THE TAMPING DOES NOT DISPLACE THE PIPE FROM ITS CORRECT LINE AND LEVEL. SUBSEQUENT LAYER OF GRANULAR MATERIAL TO BE COMPACTED IN 150mm THICK LAYERS TO THE LOCAL AUTHORITY ROAD DIVISION SPECIFICATION. MECHANICAL COMPACTING EQUIPMENT SHOULD NOT BE USED UNTIL THERE IS A MINIMUM 450mm THICK COMPACTED COVER OVER THE CROWN OF THE PIPE.

32) SELECTED FILL SHOULD BE FREE FROM STONES LARGER THAN 37mm, LUMPS OF CLAY OVER 75mm, TIMBER, FROZEN MATERIAL & VEGETABLE OR FOREIGN MATTER. SELECTED FILL ON EITHER SIDE OF THE PIPE SHOULD BE LAID IN 100mm THICK LAYERS EACH LAYER BEING COMPACTED BY HAND & UNDERGOING TAMPING UNTIL IT HAS A MINIMUM LAYER OF 450mm COMPACTED OVER CARE SHOULD BE TAKEN SO THAT THE TAMPING DOES NOT DISPLACE THE PIPE FROM ITS CORRECT LINE AND LEVEL & COMPACTED IN 150mm LAYERS.

33) GENERAL BACKFILL MATERIAL SUITABLE FOR BACKFILL ABOVE SELECTED FILL MATERIAL SHOULD BE FREE FROM BOULDERS, LUMPS OF CONCRETE, TIMBER & VEGETABLE OR FOREIGN /CONTAMINATED MATTER. GENERAL BACK FILL SHOULD BE PLACED IN LAYERS NOT EXCEEDING 300mm. EACH LAYER BEING WELL COMPACTED. MECHANICAL COMPACTION EQUIPMENT SHOULD NOT BE USED UNTIL THERE IS MINIMUM OF 450mmCOMPACTED COVER OVER THE CROWN OF THE PIPE.

34) PIPES WITH INADEQUATE COVER TO BE SURROUNDED IN 150MM THICK C16/20 CONCRETE.

35) LEAN MIX BACKFILL IN EXISTING ROADS, WHERE REQUIRED BY THE LOCAL AUTHORITY TO BE GRADE 20n/20mm CONCRETE.

36) PAVING TO BE IN ACCORDANCE WITH THE ROAD SPECIFICATION & IF APPROPRIATE, THE LOCAL AUTHORITY REQUIREMENTS.

37) GOOD QUALITY TOPSOIL 450mm MINIMUM THICKNESS, TO BE PLACED OVER BACKFILL IN ACCORDANCE WITH PARKS DEPARTMENT/ LANDSCAPE ARCHITECTS.

38) AJ's (ARMSTRONG JUNCTIONS)
A) TO BE USED FOR PIPE DEPTHS UP TO 600mm
B) INTERNAL AJ'S IF REQUIRED TO HAVE DOUBLE SEALED COVERS
C) EXTERNAL AJ's TYPICALLY TO BE PROPRIETARY UPVC WITH 35kN COVER
D) EXTERNAL AJ's IN AREAS SUBJECT TO TRAFFIC TO BE SURROUNDED IN 150mm C20 CONCRETE & TO HAVE CLASS D COVER AND FRAME SUPPORTED OF THE CONCRETE SURROUND.

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Rev	Date	Description	By	Chkd.
P0	01.06.2021	Issued for Review	SF	SH

Client:
Comhairle Contae Dhún na nGall
Donegal County Council

Project:
Stranorlar Multi-Use Sports Facility Improvement Project

Title:
Pipe Bedding & Surround Details

Scale @ A1:	AS SHOWN		
Prepared by: SF	Checked: SH	Date: June 2021	
Project Director:	M. McD.		
Drawing Status:	Planning		

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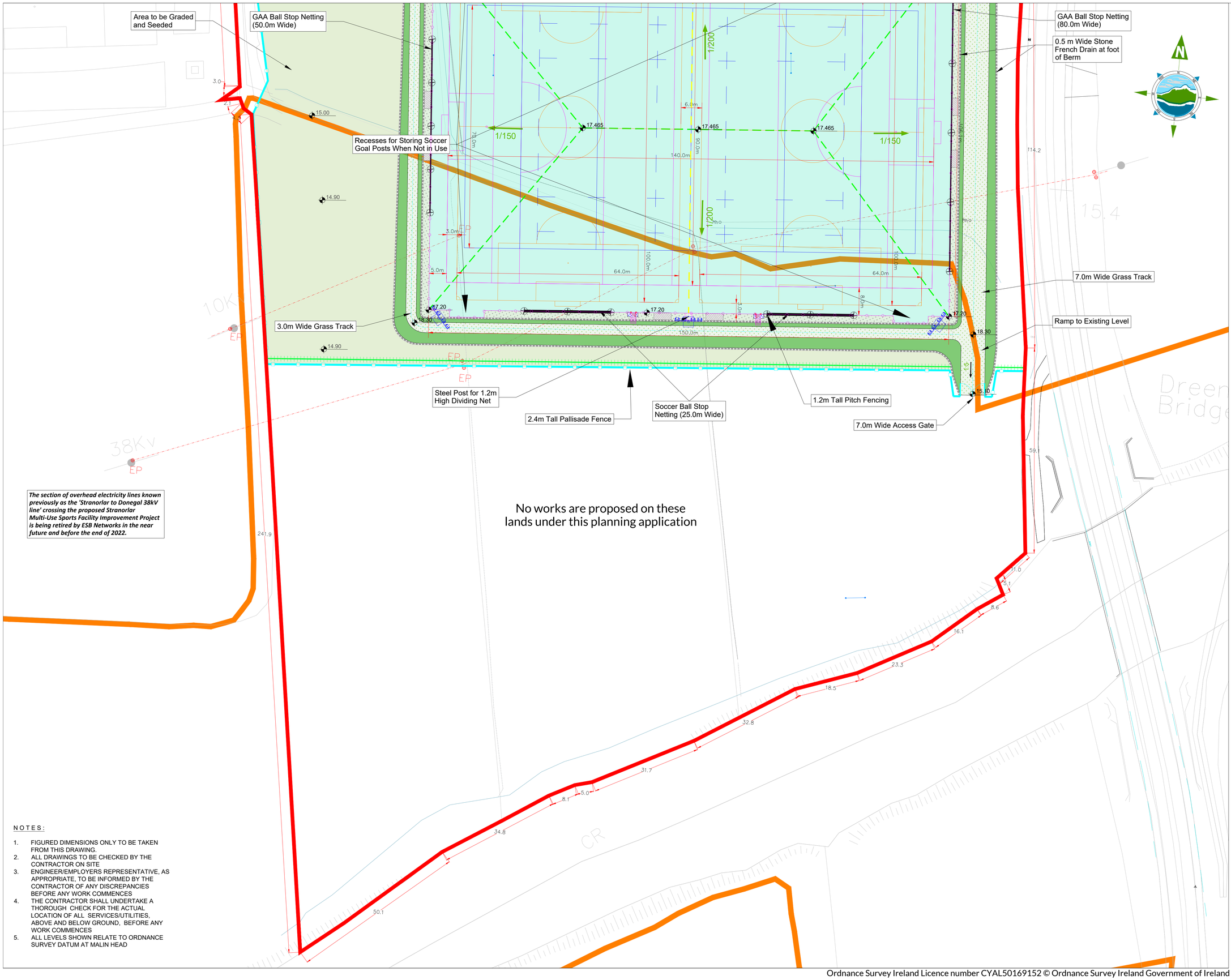
Drawing No.: 11062-2016

Revision: P0



The section of overhead electricity lines known previously as the 'Stranorlar to Donegal 38kV line' crossing the proposed Stranorlar Multi-Use Sports Facility Improvement Project is being retired by ESB Networks in the near future and before the end of 2022.

No works are proposed on these lands under this planning application

NOTES:

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE
3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES
5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

LEGEND

- Proposed Site Boundary
- All-Weather Surface
- Dugouts
- Ballstop Netting
- Floodlights 18m high
- GAA Line Markings
- Soccer Line Markings
- 1.2m High Dividing Net
- 3.0m and 7.0m Wide Perimeter Grass Track
- Grassed Area at foot of Berm
- Pitch Fencing
- 1/150 Pitch Gradient
- Drainage Slope
- 18.30 Proposed Finished Surface Level
- Berm Slope/Embankment
- 0.5m Wide Land Drain (stone)
- Graded and Seeded Area
- Proposed Native Hedging
- Proposed Pallisade Fencing
- Pedestrian Gate & Boot Cleaning
- River Finn SAC (002301)
- Discus/hammer Throwing Area

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Rev	Date	Description	By	Chkd.
P01	09/03/22	Notes Revised	SF	DM
P0	19.07.2021	Planning	EC	BH

Client: Comhairle Contae Dhún na nGall Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Site Layout Plan (Sheet 2 of 3)

Scale: 1:500 @A1/1:100 @A3

Prepared by:	Checked:	Date:
EC	BH	July 2021

Project Director: Michael McDonnell

Drawing Status: Planning

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Drawing No.: 11062-2017 Revision: P01

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Site Notice Location
Existing Synthetic Pitches
Finn Valley Leisure Centre
Existing ESB Substation
Existing Running Track
Existing Carpark
Proposed Pedestrian Access Gate with Boot Cleaner and Steps
Construction Compound for the duration of the works
Steel Post & Winch for Demountable Dividing Net
Site Notice Location
Proposed Bicycle Stand (Spaces for 30 Bicycles)
Concrete slab for Discus and Hammer Throw Cage
Ramp to Existing Level
Soccer Ball Stop Netting (25.0m Wide)
Vehicular Access Route from Visitor Parking Area
1.2m High Demountable Dividing Net
Demountable Flood Barrier
Vehicular and Accessibility Gate to Pitch
Boot and Tyre Cleaning to Vehicular Entrance - Heavy Duty
Ramp to Existing Level
Ramps to Existing Level
Flood Protection Berm Surrounding Pitch
Proposed Pedestrian Access Gate with Boot Cleaner and Steps to Top of Berm
Area to be Graded and Seeded
GAA Ball Stop Netting (50.0m Wide)
GAA Ball Stop Netting (80.0m Wide)
0.5 m Wide Stone French Drain at foot of Berm
Recesses for Storing Soccer Goal Posts When Not in Use

The section of overhead electricity lines known previously as the 'Stranorlar to Donegal 38kV line' crossing the proposed Stranorlar Multi-Use Sports Facility Improvement Project is being retired by ESB Networks in the near future and before the end of 2022.

LEGEND

- Proposed Site Boundary
- All-Weather Surface
- Dugouts
- Ballstop Netting
- Floodlights
- GAA Line Markings
- Soccer Line Markings
- 1.2m High Dividing Net
- 3.0m and 7.0m Wide Perimeter Grass Track
- Grassed Area at foot of Berm
- Pitch Fencing
- 1/150 Pitch Gradient
- Drainage Slope
- 18.30 Proposed Finished Surface Level
- Berm Slope/Embankment
- 0.5m Wide Land Drain (stone)
- Graded and Seeded Area
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- River Finn SAC (002301)
- Discus/hammer Throwing Area

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Rev	Date	Description	By	Chkd.
P01	09/03/22	Revised notes	SF	DM
P0	04/03/2022	Planning	SF	BH

Client: Comhairle Contae Dhún na nGall Donegal County Council

Project: Stranorlar Multi-Use Sports Facility Improvement Project

Title: Site Layout Plan (Sheet 3 of 3)

Scale: 1:500 @A1/1:100 @A3

Prepared by:	Checked:	Date:
SF	BH	FEB 2022

Project Director: Michael McDonnell

Drawing Status: Planning

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