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Ballina indoor sports and event centre
Site and design options review

November 2011

QA Review

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Amendments				
Date	Issue	Activity	Author	Superintendent
14.11.11	1	Draft	Trent Watson	Laurence Taylor
17.11.11	2	Final	Trent Watson	Laurence Taylor

Author	Superintendent	Quality Check
Trent Watson	Laurence Taylor	Laurence Taylor

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executive summary

Upon appointment PDT was requested to conduct a workshop at the Ballina Council chambers on the 1st November 2011. The workshop was to review the brief and desired outcomes of the development. During the workshop PDT was requested to undertake a desktop review of 5 key sites that were highlighted in the workshop. This review includes an analysis of the physical characters of the sites as well as their location and access. The review also includes an overlay of a typical building footprint on each site.

As part of the review PDT was also requested to provide a cost review of differing design options ranging from a simple 2 court configuration through to a full 3+1 court configuration with function rooms, gymnasium and other associated facilities. Typical area block plans have been produced of 5 graduated options with Davis Langdon providing a cost summary of each.



AREA PLAN

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BALLINA INDOOR SPORTS AND EVENTS CENTRE AREA PLAN



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site analysis matrix

Scale of 1 - 5, 1 = poor, 5= best

Criteria	Gallans Rd	Ballina Heights	Kingsford Smith Park	Tree lands	Old Depot
Site procurement	5	4	2	4	3
Adequate site area	5	4	3	2	4
Provision for future expansion	5	2	3	1	4
Access to existing infrastructure	3	5	4	4	4
Flooding constraints	2	3	4	4	2
Environmental Constraints	4	5	4	4	2
Vegetation Cover	3	3	3	4	4
Contaminated land constraints	4	5	4	4	1
Land slope	5	2	5	5	4
Good site aesthetics	3	3	4	3	4
Significant landscape or other features	2	3	4	3	4
Easement and access constraints	4	5	4	4	3
Extent of ground works required	3	5	4	4	2
Other attractions at Site	2	3	5	3	4
Compatibility with surrounding land uses	3	4	5	2	3
Residential amenity impacts	3	1	3	1	4
Adjacent to other sporting facilities	1	4	5	2	2
Site profile and visibility	5	5	4	3	5
Proximity to overnight accommodation	3	1	5	4	4
Capacity for overflow parking on site	5	2	4	2	5
Offsite overflow parking	2	3	4	5	5
Proximity to public transport	3	3	4	4	5
Walk & cycle access from residential	3	2	5	5	4
Proximity to town centre	3	2	5	4	4
Local access to site	3	2	5	4	4
Regional access to site	4	5	3	3	4
Total Score	88	86	105	88	94



GALLANS RD SITE

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KINGSFORD SMITH PARK

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 BALLINA INDOOR SPORTS AND EVENTS CENTRE
 SITE OPTIONS STUDY
 GALLANS RD
 KINGSFORD SMITH PARK

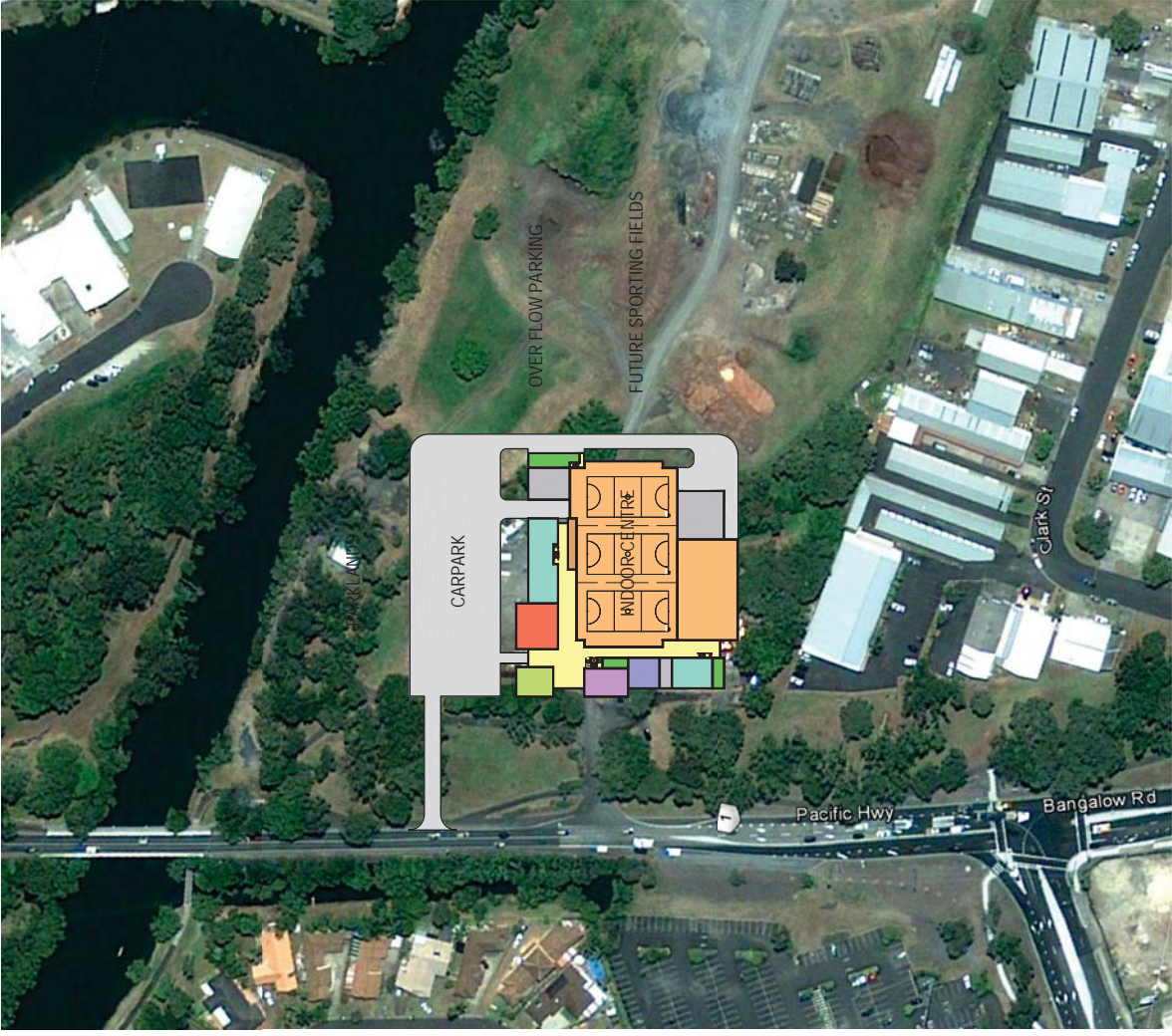
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TREE LANDS

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OLD DEPOT SITE



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BALLINA INDOOR SPORTS AND EVENTS CENTRE
SITE OPTIONS STUDY
TREE LANDS
OLD DEPOT SITE

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REVISED SHEET 1 OF 100



BALLINA HEIGHTS

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SITE OPTIONS STUDY
BALLINA HEIGHTS

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building design options

The following pages are a range of option, ranging from the basic 2 court “tin shed” indoor sports centre through to a full multi use indoor facility providing for function, regional events and multiple sporting activities.

The construction cost estimates included in the options are provided from the Davis Langdon report of appendix 1. Amount shown is base building costs only, with exclusions as shown in item 3 of the Davis Langdon report. These Exclusions may add 10-15% to the construction cost dependant on site and level of fixtures and finishes.

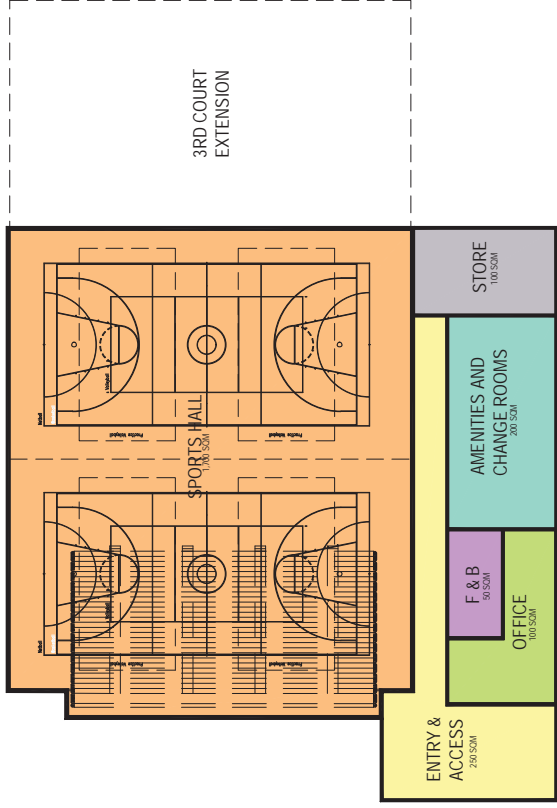
Also included in the appendix is a quotation from Starena Group for the retractable seating arrangement as shown in these options.

option 1, 2 courts, single level.

Basic community sports centre with the facilities to host a regional basketball or netball match. Finishes can vary from “tin shed” type or precast construction. Facility can be expended to 3 courts in the future, to accommodate regional competitions.

- 2 full size courts
- 1 set of retractable seating
- Single set of male and female amenities and change rooms
- Canteen
- Office & reception area.

Seating Capacity:	980
Area (sqm):	2,400
Construction Cost:	\$5 - \$5.5m



GROUND FLOOR PLAN

OPTION 1

FLOOR AREA

GROUND FLOOR	2,400
MEZZANINE LEVEL	-
TOTAL	2,400

SEATING CAPACITY

GROUND, TIERED	760
GROUND, ON FLOOR	220
MEZZANINE LEVEL	-
TOTAL	980



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BALLINA INDOOR SPORTS AND EVENTS CENTRE
OPTION 1
2 COURT WITH FUTURE PROOF FOR 3 SINGLE LEVEL

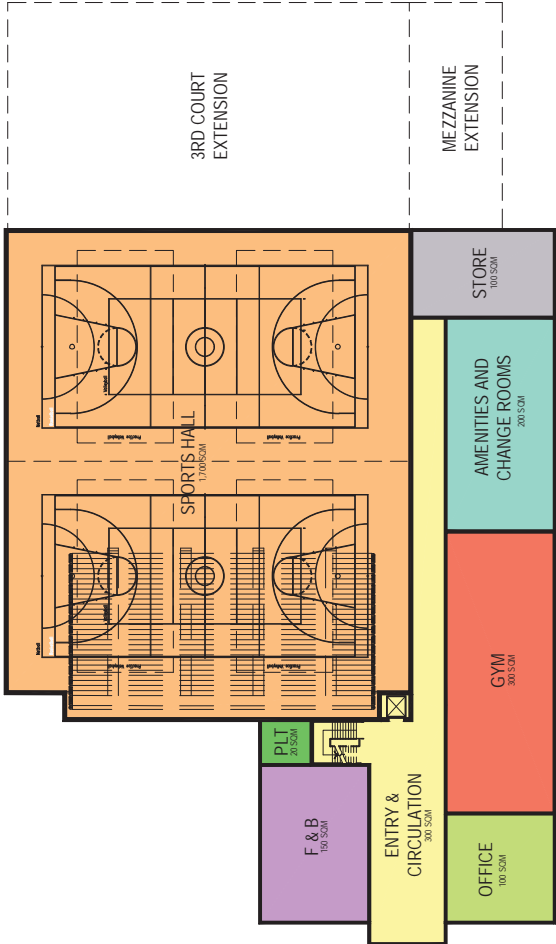
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option 2, 2 courts with mezzanine and function rooms

The facility provides for community sports and events. The facility can host a regional basketball or netball match along with small trade shows or local indoor concerts and performances. The facility also includes a catered function centre with bar. The function centre will have movable internal wall to allow for a fully flexible space that can be 1 large function room or divided up to form 4 individual rooms. The facility also includes a gym to provide a more rounded sporting experience. Finishes will be medium level quality to provide for multiple uses. The facility can be expended to 3 courts in the future, to accommodate regional competitions and events.

- 2 full size courts
- 1 set of retractable seating
- Mezzanine level with tiered seating
- Multi use function rooms space.
- Single level Gym
- Single set of male and female amenities and change rooms
- Full cook kitchen
- Office & reception area.

Seating Capacity:	1,210
Area (sqm):	3,810
Construction Cost:	\$8.5 - \$9m



GROUND FLOOR PLAN

OPTION 2

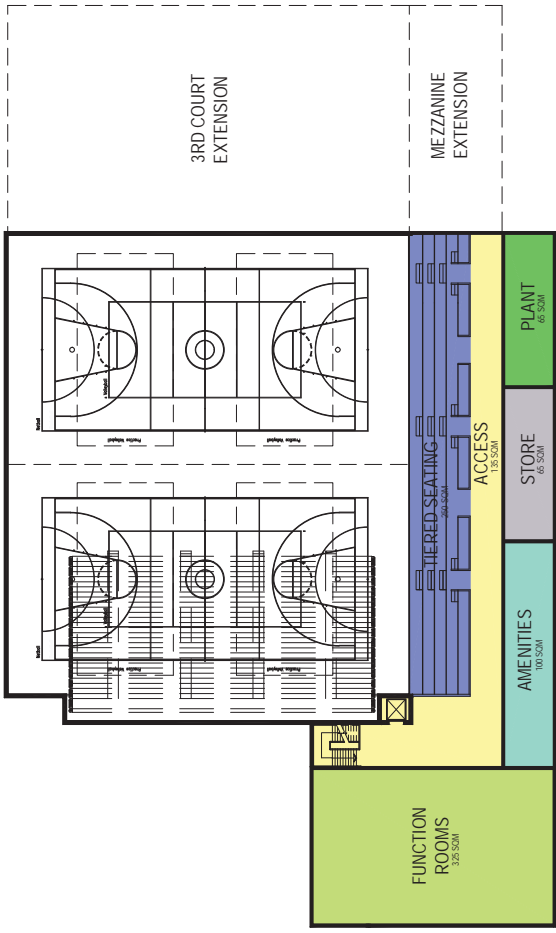
FLOOR AREA

GROUND FLOOR	2,870
MEZZANINE LEVEL	940
TOTAL	3,810

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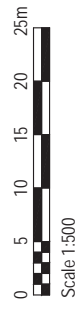
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MEZZANINE FLOOR PLAN

SEATING CAPACITY

GROUND, TIERED	760
GROUND, ON FLOOR	220
MEZZANINE LEVEL	230
TOTAL	1,210



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BALLINA INDOOR SPORTS AND EVENTS CENTRE
OPTION 2
2 COURT WITH FUTURE PROOF FOR 3
2 LEVELS WITH FUNCTION SPACE

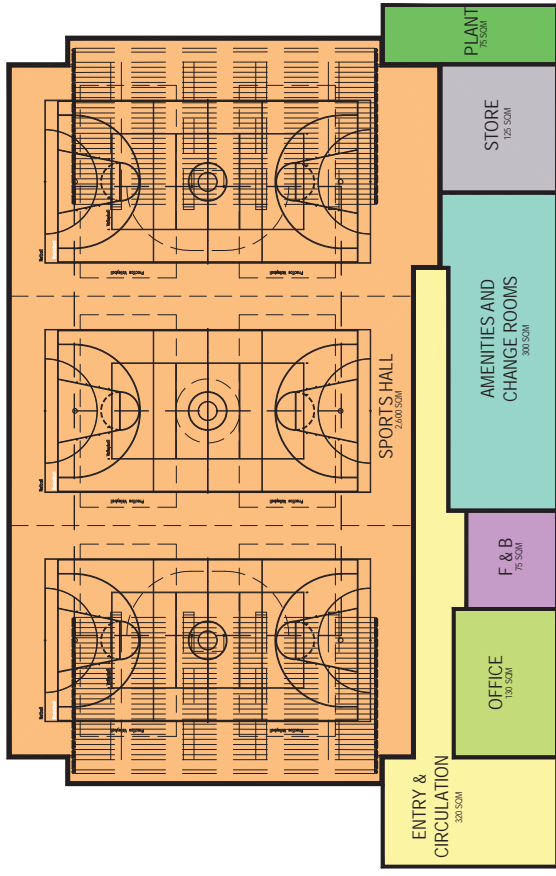
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option 3, 3 courts, single level

This option is an expansion to option 1, being a community sports centre. The facilities are capable of hosting regional indoor sport competitions along with national league matches but no permanent seating is provided. Trade shows and indoor performances can be accommodated but minimal cantering is provided. Finishes can vary from "tin shed" type or precast construction.

- 3 full size courts
- 2 sets of retractable seating
- 2 sets of male and female change rooms
- Canteen
- Office & reception area.

Seating Capacity:	1,520
Area (sqm):	3,625
Construction Cost:	\$7.8 - \$8.3m



GROUND FLOOR PLAN

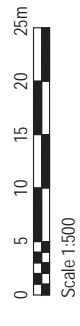
OPTION 3

FLOOR AREA

GROUND FLOOR	3,625
MEZZANINE LEVEL	-
TOTAL	3,625

SEATING CAPACITY

GROUND, TIERED	1,520
GROUND, ON FLOOR	440
MEZZANINE LEVEL	-
TOTAL	1,960



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PROJECT: BALLINA INDOOR SPORTS AND EVENTS CENTRE
OPTION 3
3 COURTS
SINGLE LEVEL

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option 4, 3 courts with mezzanine, gym and function rooms

(similar to Logan Metro Indoor Sports Centre)

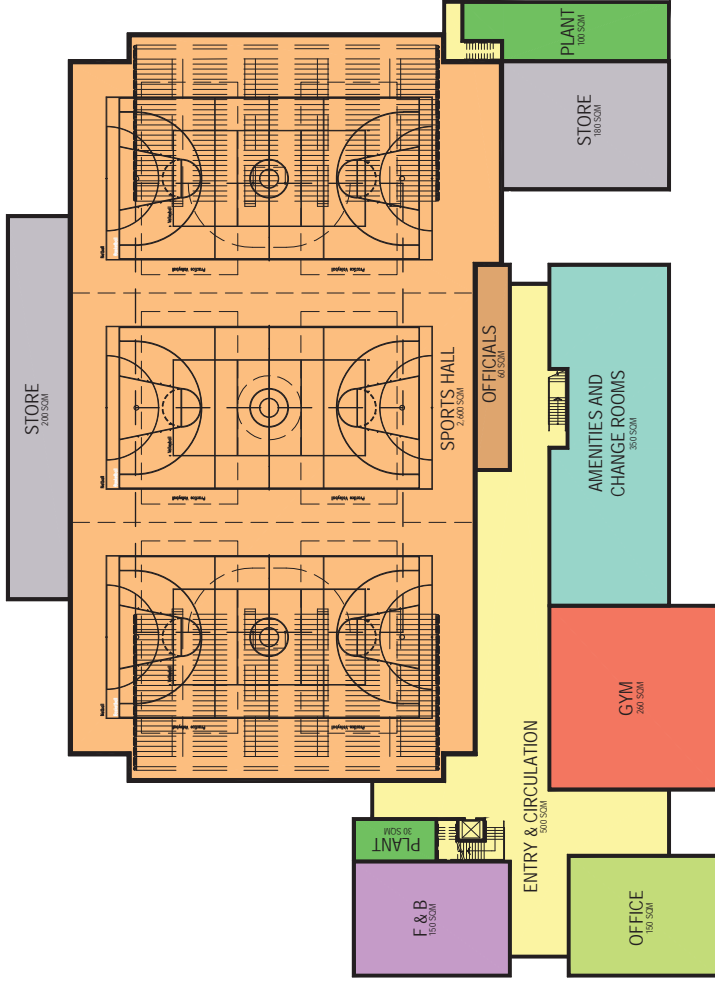
The facility can provide for regional sports and events. The facilities are capable of hosting regional indoor sport competitions with all games being viewed from the permanent mezzanine seating. It also has the capability of being a permanent fixture of a national league. The facility includes a catered function centre with bar. The function centre will have movable internal wall to allow for a fully flexible space that can be 1 large function room or divided up to form 4 individual rooms.

The facility includes a gym, child minding and specialist allied health consulting offices to create a full service regional sporting facility. The gym can be divided up into multi use facility to include a weights room, group fitness rooms and individual work out rooms.

Finishes will be medium to high level quality to be able to accommodate the diverse uses.

- 3 full size courts
- 2 set of retractable seating
- Mezzanine level with tiered seating
- Multi use function rooms space.
- 2 level gymnasium
- Child minding facility
- Allied health consulting rooms.
- 2 sets of male and female change rooms
- Full cook kitchen
- Officials change room and Drug testing room.
- Office & reception area.

Seating Capacity:	2,310
Area (sqm):	6,300
Construction Cost:	\$14 - \$14.5m



GROUND FLOOR PLAN

OPTION 4, SIMILAR TO LOGAN METRO INDOOR SPORTS CENTRE

FLOOR AREA

GROUND FLOOR	4,580
MEZZANINE LEVEL	1,720
TOTAL	6,300

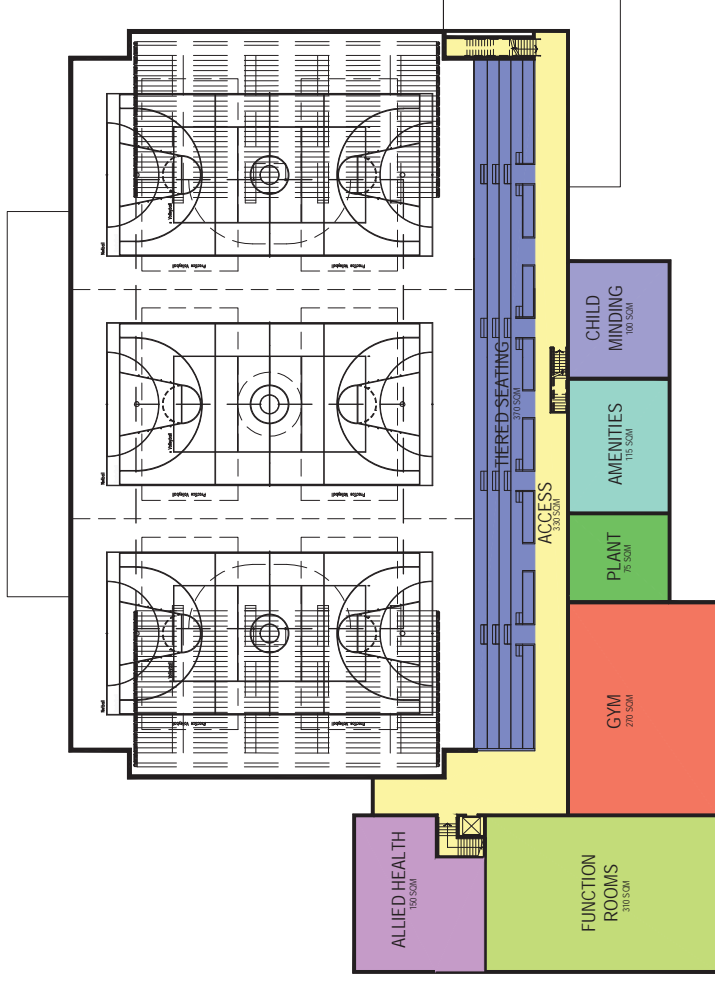
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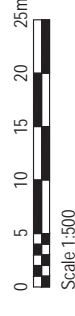
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MEZZANINE FLOOR PLAN

SEATING CAPACITY

GROUND, TIERED	1,520
GROUND, ON FLOOR	440
MEZZANINE LEVEL	350
TOTAL	2,310



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BALLINA INDOOR SPORTS AND EVENTS CENTRE
OPTION 4
3 COURTS
2 LEVELS WITH FUNCTION SPACE

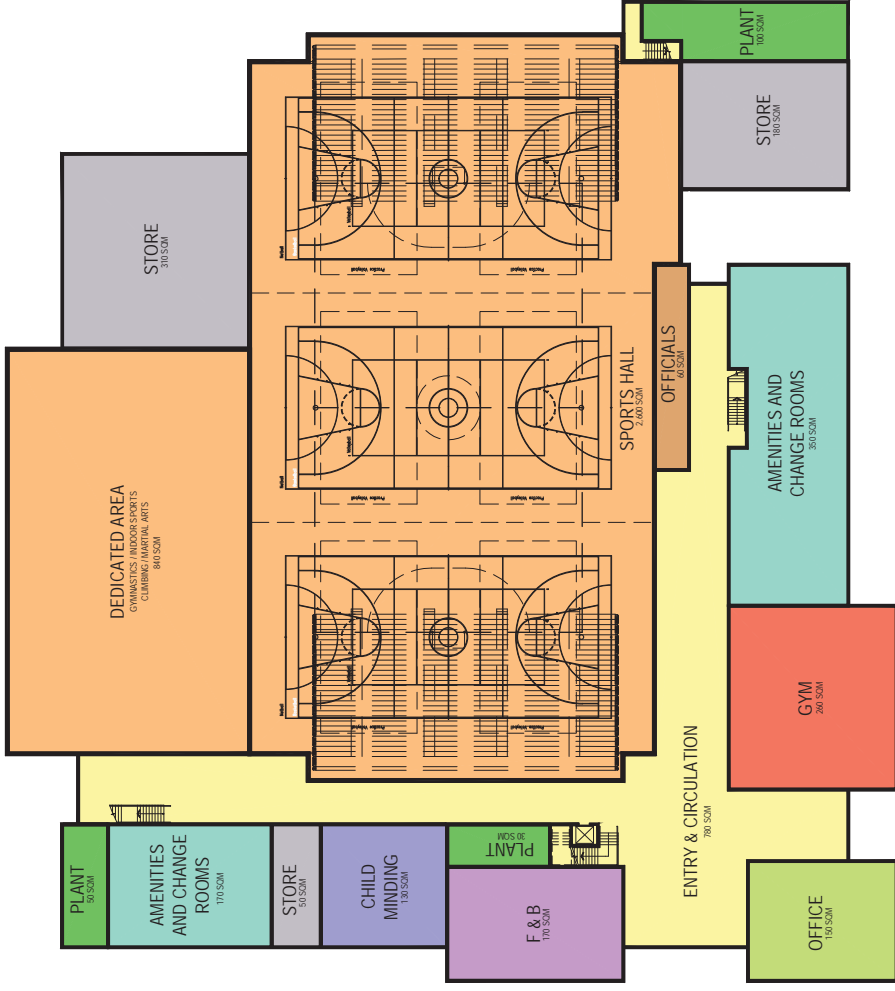


option 5, 3+1 courts with mezzanine, gym and function rooms.

Along with the benefits of option 4, this facility also include dedicated purpose built facilities for sports including but not limited to gymnastics, indoor sports climbing or martial arts to provide a full range of indoor sporting facilities encapsulating the current popular trends.

- 3 full size courts
- Dedicated area for Gymnastics, Indoor sports climbing and martial arts.
- 2 set of retractable seating
- Mezzanine level with tiered seating
- Multi use function rooms space.
- 2 level gymnasium
- Child minding facility
- Allied health consulting rooms.
- 3 sets of male and female change rooms
- Full cook kitchen
- Officials change room and Drug testing room.
- Office & reception area.

Seating Capacity:	2,360
Area (sqm):	8,300
Construction Cost:	\$18.5 - \$19m



GROUND FLOOR PLAN

OPTION 5

FLOOR AREA

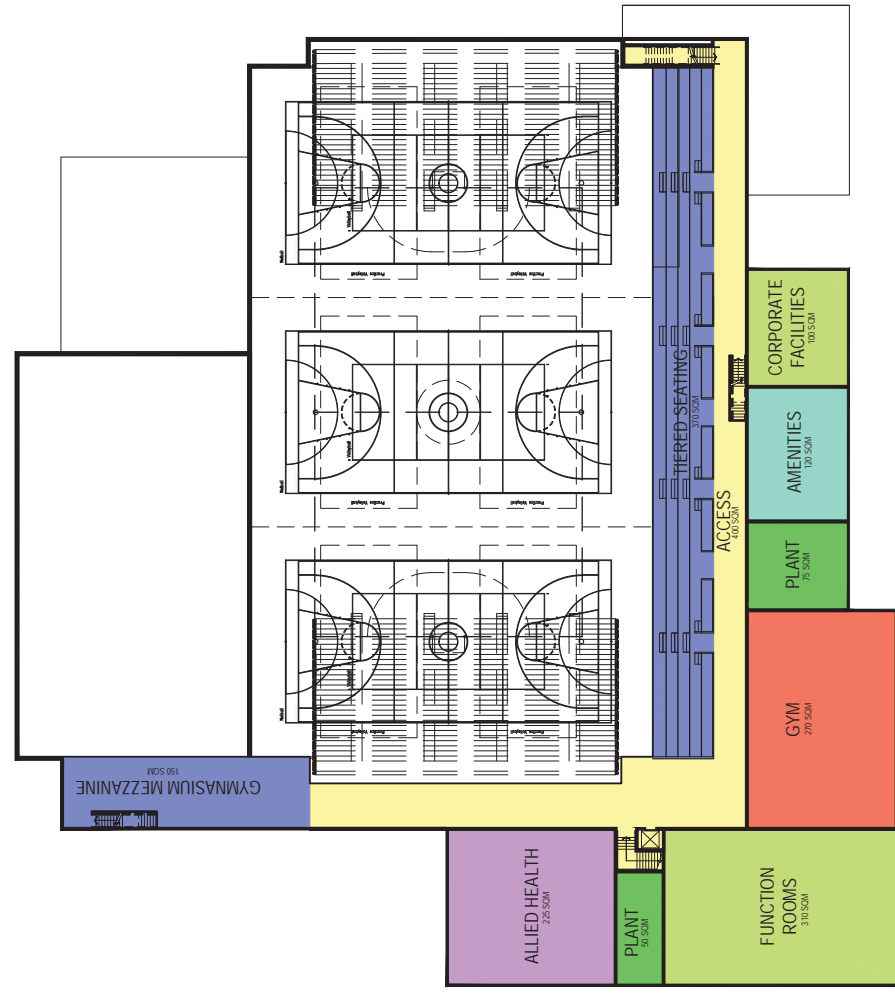
GROUND FLOOR	6,230
MEZZANINE LEVEL	2,070
TOTAL	8,300

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MEZZANINE FLOOR PLAN

SEATING CAPACITY

GROUND, TIERED	1,520
GROUND, ON FLOOR	440
MEZZANINE LEVEL	400
TOTAL	2,360



PROJECT DESIGN / SHEET NO.
BALLINA INDOOR SPORTS AND EVENTS CENTRE OPTION 5
 3 COURTS + 1
 2 LEVELS WITH FUNCTION & GYMNASIUM SPACE



100% COMPLETE
 PROJECT NO. 02/11/11
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summary

For the success of a facility and its economic sustainability, it is important that the facility has the capability of being highly flexible with the ability of accommodating wide diversity of events and programmes, while providing for the range of regional and community sporting and other interest groups. To achieve this, the centre needs to be well located and provide a full range of highly flexible services and spaces, through good design and strong management.

To this end, option 5 offers this required flexibility with the provision of a full range of services, located in highly flexible spaces. If this option is financially unattainable, option 4 still offers similar services while maintaining strong flexibility, and can be designed to be expanded into the fifth option with minimal impact.

The strength of the centre operations is tied to its location in relation to the community and other supporting facilities. If located with other sporting facilities the site can become a centralised hub where the community can attend and take part in multiple sport or events at a single location. This allows the centre to fulfil requirements outside its facility, creating higher utilisation while also providing facilities currently not available at that location. Of the 5 sites nominated and pertaining to further site investigation, Kingsford Smith Park provides this outcome while also being well centralised for the community, within walking distance to the town centre and hotels and helps to strengthen this area of Ballina as a recreational hub for the greater Ballina community.

appendices

1. Davis Langdon – indicative cost plan for design options.
2. Starena Australia – retractable seating quote

Indicative Cost Plan for Design Options



Indicative Cost Plan for Design Options

Prepared for

Ballina Shire Council

Prepared by

Davis Langdon Australia Pty Ltd

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Quality Information

Document Indicative Cost Plan for Design Options

Ref

Date 11 November 2011

Prepared by Dwayne Beeton

Reviewed by Brad Jackson

Revision History

Revision	Revision Date	Details	Authorised	
			Name/Position	Signature
1	11 November 2011	Indicative Cost Plan	Brad Jackson / Technical Director	

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Executive Summary

This indicative cost plan has been prepared from the documentation provided by PDT Architects for the Ballina Indoor Sports and Events Centre. This document is prepared as an indicative cost plan to indicate the magnitude of the indicative costs between the design options presented by the Architect.

The following notes should be read in conjunction with the attached cost plan:

- We have assumed competitive lump sum tendering to appropriate sized builders (D&C)
- We have assumed the project is tendered in 4th Qtr 2012 and have priced accordingly.
- The cost plan is based on building footprint only. It excludes external works, site works and landscaping etc.
- No allowance has been made for GST

1.0 Cost Plan Summary

Option	GFA (m2)	Total Cost Range (Excl. GST)
Option 1	2,410	\$5.0 - \$5.5m
Option 2	3,810	\$8.5- \$9.0m
Option 3	3,625	\$7.8 - \$8.3m
Option 4	6,190	\$14.0 - \$14.5m
Option 5	8,300	\$18.5 - \$19m

Note - Above costs excludes site works.

2.0 Inclusions & Assumptions Used in the Cost Plan

The cost plan includes for the following:

- Architects Drawings 6434 SK 001 – SK 005 (Rev 1)
- The cost plan is reflective of the building footprint only as directed by PDT Architects.
- Design / Construction Contingency of 15%
- The building is Air-conditioned incl. the Sports Hall.
- We have assumed the project is tendered in 4th Qtr 2012.

3.0 Exclusions from the Cost Plan

The cost plan specifically exclude the following:

- GST.
- Legal Fees.
- Demolition to existing buildings.
- Works Outside Site Boundaries (unless noted otherwise).
- External works, Site works and Landscaping.
- Disposal of Contaminated Soil.
- Abnormal Ground Conditions.
- Rock Excavation and Disposal.
- Works associated with accommodating future extension to building fabric.
- ESD Initiative allowances.
- Commissioning & Decanting.
- Professional Fee's.
- Headwork Charges.
- Latent Conditions, removal /treatment of contaminated material
- Land Acquisition costs.
- Artwork.
- Future Escalation beyond current programme.
- Stormwater mains external to the site.
- Gas Supply.
- Easements.

Starena Australia Pty Ltd

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Facsimile: +61 2 4325 0004

Email: info@starenaaust.com

Web Site: www.starenaaust.com

Thursday 17th November, 2011

PDT Architects
184 Wharf St
Spring Hill, Qld, 4000
Att : Trent Watson

Re: Ballina Sports Centre

Q11-1797

Dear Trent,

We have pleasure in providing ESTIMATION for the supply of **Retractable Seating** for the above project.

Starena is recognised as being the leading supplier of **Retractable Seating** systems at the quality end of the market. **Starena** places a major emphasis on the design of quality engineered telescopic seating systems; each system is fully engineered and certified by an independent engineering consultancy to international standards. We are currently undertaking a number of major Retractable projects throughout Australia and Overseas.

Industry concerns with Telescopic Platforms revolve around several issues:

1. Structural integrity of the System.
2. Quality of finish.
3. Operational characteristics.
4. Seating choices and operational modes.

Starena Telescopic Systems are considered to be graded towards the upper end in quality and reliability when compared to some other competitor products.

Some features not included in other competitor products are:

- Starena uses integral structural steel channel riser member fixed to the vertical deck support members, whereas other competitors use a plywood kicker board which adds nothing to the structural integrity of the System. This approach also is not as aesthetically pleasing to the eye.
- Starena's structural steel riser and nosing is powder coated to the client's nominated colour.
- The Starena System uses deck supports, deck joiners and nosing connectors at nominally 600mm centres, some competitors do not.
- All Starena steel members are powder coated for a long life and an aesthetic finish, some competitor's wet coat.

Starena has an impressive history of **Telescopic Seating System** design; we make no apology for the fact that our Systems can come with a 10 year warranty, subject to annual yearly maintenance.

As with all quality systems, there is a price to pay for a high end, engineered solution, which matches the décor and ambience of the facility.

Recent Completed Projects:

- Adelaide Convention Centre, Australia
- Leibler College, Victoria
- Kardinia College, Victoria
- St. Aidens College, Brisbane
- The Friends School, Hobart
- Commonwealth Games, New Delhi
- St. Monica's College
- Sydney Catholic Vocational College
- Golden Grove Community Centre
- Anderson Creek, Victoria
- Yeppoon Town Hall, Queensland
- AK Reserve , Perth

Current Projects

- Diamond Creek Stadium, Victoria
- Kuwait Tennis Centre
- Redbank High School, Queensland
- Pacific Hills Christian School , NSW
- Mackillop College, Tasmania
- Stadium Southland, New Zealand
- Ziggo Dome, Amsterdam – 15,000 Seats
- Kiev National Stadium , Ukraine - (EURO 2012) – 70,000 Seats
- LVIV Stadium, Ukraine (EURO 2012) – 35,000 Seats

Internationally the Starena group has become a major seat of choice with installations in recent years totalling in excess of 450,000 seats. Some of these projects include:

- Campo Pequeno Arena – Portugal
- National Stadium – Egypt
- Omagh Stadium – Ireland
- Ballymena Stadium – Ireland
- Portadown Stadium – Ireland
- Jindrichuv Hradec – Czech Republic
- Objednávká – Czech Republic
- Ceske Budejovice – Czech Republic
- Opava Stadium – Czech Republic
- Asteras Tripolis – Greece
- Hala Widowiskowa – Poland
- Sparta Rotterdam – Netherlands
- Kensington Oval – West Indies
- Cirque Du Soleil – Canada
- Sunderland Pool – England
- Al Jazeera Stadium – Abu Dhabi
- National Aquatic Centre – Ireland
- National Aquatic Centre – Hanoi
- Yangzhou Stadium – China
- Resch Arena – USA
- Sears Point – USA
- Boston University – USA
- San Diego University – USA
- Hong Kong Tennis Centre
- Start Stadium – Norway
- Kadriog Stadium – Estonia
- Benajemi Arena – Spain
- Aquatic Centre - Vietnam
- Macau Entertainment Centre
- Ballymena Showgrounds – Ireland

To view some installations of our extensive range, as well as other options, please visit our gallery at www.starenaaust.com.

1. Telescopic Seating Quotation Overview

The estimation is based upon the Logan Arena project, and in accordance with the attached Starena drawings

The supply, install and commissioning of a fully motorised platform structure in accordance with the attached drawings.

- 1.1 Seat Type –
- Option 1 - AST 3000 Polymer Seat
 - Option 2 - Polymer Bench Seat
 - Option 3 - Integra T100 Solara Seats

- 1.2 Half steps to all locations as required.
- 1.3 Motorised control of platforms via front mounted plug-in pendant – mounted control box, connected to client supplied three (3)-phase electrical supply.
- 1.4 Polyurethane plywood finish as standard to all platform surfaces, carpet or vinyl options available upon request.
- 1.5 Seat and structure compliance to all relevant Australian / New Zealand Standards.
- 1.6 Powder coated under structure and seat bracket fixings.
- 1.7 Platform width and riser height as noted on drawings supplied.
- 1.8 Handrails as noted.
- 1.9 Side Curtains (not quoted) are optional if required.
- 1.10 Ecoglo safety illumination to aisle locations - optional

2.0 Financial

To supply, install and commission the above, including nominated accessories in Aus Dollars, ex GST.

Estimated Price :

Seat Type –

Option 1 - AST 3000 Polymer Seat	QTY 728	\$355,787
Option 2 - Polymer Bench Seat	QTY 728	\$361,343
Option 3 - Integra T100 Solara Seats	QTY 788	\$415,154

Optional

Ecoglo safety illumination to aisle locations	\$8,000
Side Curtains	on request

3. Product Warranty / Maintenance

- 3.1 Starena shall provide a warranty for the total seating installation, including all components supplied under this subcontract, against all defects due to faulty materials and workmanship.

The warranty period is to commence at the date of Practical Completion of the contract, for a five-year period.

- 3.2 **Optional Preventative Maintenance Warranty**

The Telescopic Seating System, warranty can be extended to 10 years by entering in a optional maintenance contract which includes annual inspection and routine preventative maintenance check of the system. This is an annual maintenance contract from the Certificate of Completion, costs available upon discussion.

Parts damaged through misuse or abuse, shall be outside of the warranty terms.

4. Leadtime

14 – 16 weeks from date of order.

5. Trading Terms

- 25% deposit with order
- 50% against BOL documents ex works
- 12.5% goods to site
- 12.5% net seven (7) days upon commissioning of System.

As a Major supplier of Fixed, Telescopic and Demountable Seat Structures in Australasia, Starena brings to this project considerable design, project management and commissioning expertise.

Unlike other possible seating suppliers, with Starena you are dealing with the OEM and not a dealer representative, at arms length to the design and project management process.

Best regards,

Starena Australia Pty Ltd

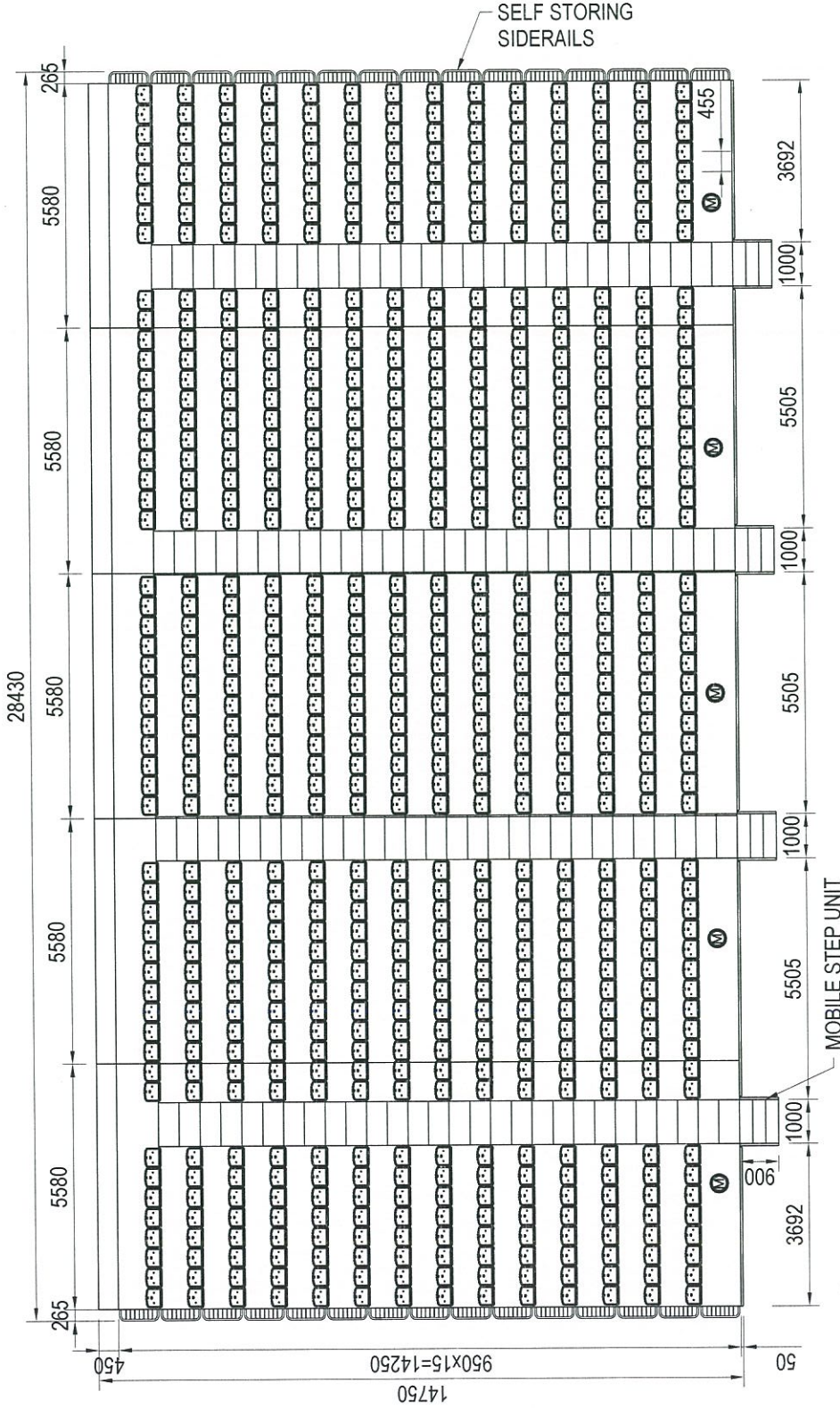


Grant Cawley
Operations Manager

DO NOT SCALE

Notes

Total No of Seats
- 728 (based on 455 min. seat centres)



15 Tier - Qyt 728 off AST3000 Seating
At 455 mm Centres

Option 1

16/11/2011	Preliminary	JYP	0
Date	Description	Drawn	Rev

Starena Australia Pty Ltd

ALL DIMENSIONS IN MILLIMETRES
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CONTRACT

Ballina Sports Centre

DESCRIPTION
Retractable Seating - Main Hall

TITLE
AST3000 Seating 455 Seat Centres

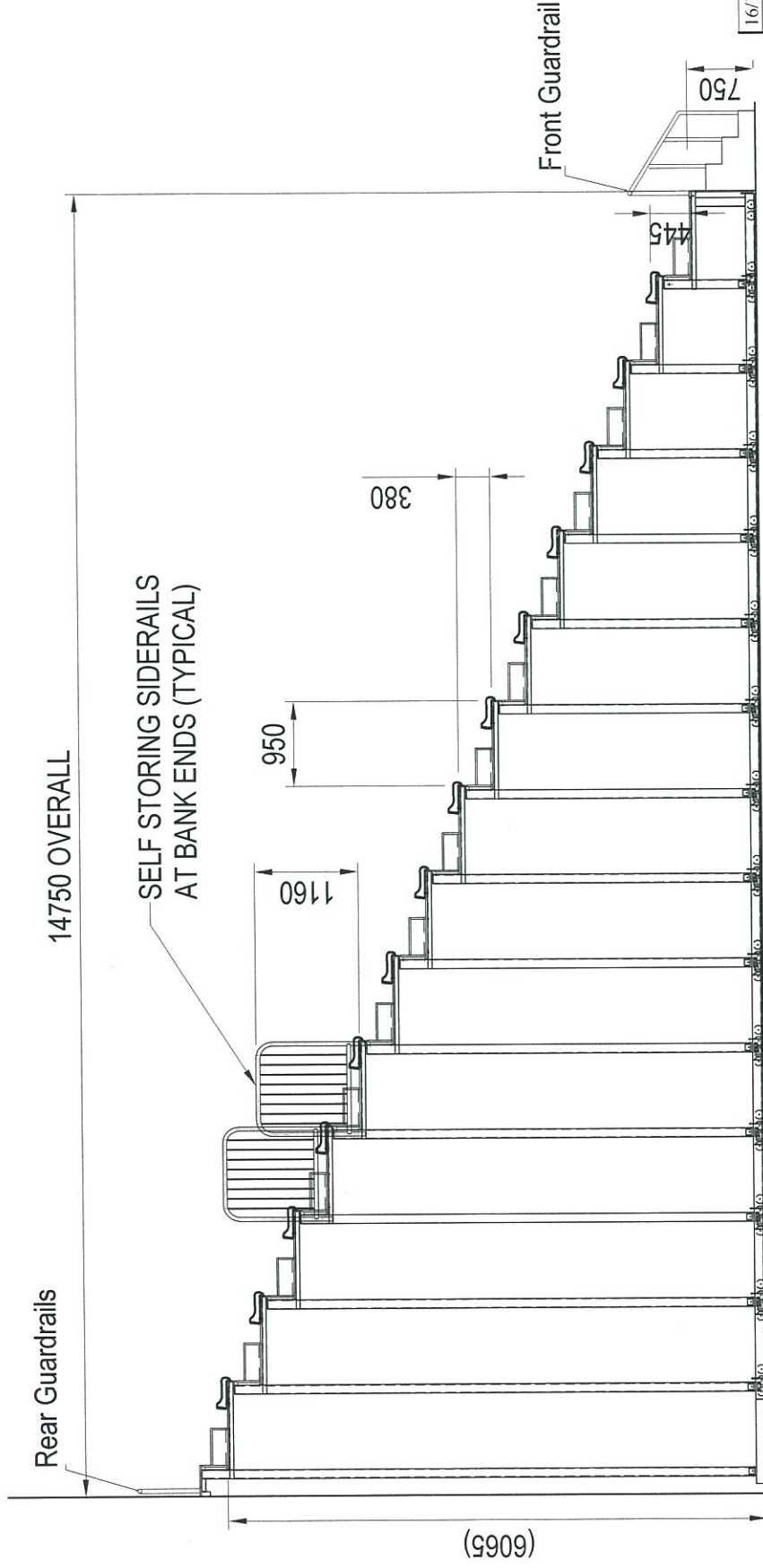
SCALE
1 : 22

DRAWING No
BS-SK01-04

REVISION
0

DO NOT SCALE

Notes



Date	Description	JYP	Rev
16/11/2011	Preliminary	0	0

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ALL DIMENSIONS IN MILLIMETRES
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CONTRACT

Ballina Sports Centre

DESCRIPTION

Retractable Seating - Main Hall

TITLE

Section ViewAST3000 Seating - 455 Centres

SCALE 1 : 22
DRAWING No BS-SK02-04
REVISION 0

Typical Section View - Telescopic Platforms
15 Row - Riser Height 380 mm
750mm Tier 1 Riser Height

Option 1

DO NOT SCALE

Notes

Total No of Seats
- 728 (based on 455 min. seat centres)

16/11/2011	Preliminary	JYP	0
Date	Description	Drawn	Rev

Starena Australia Pty Ltd

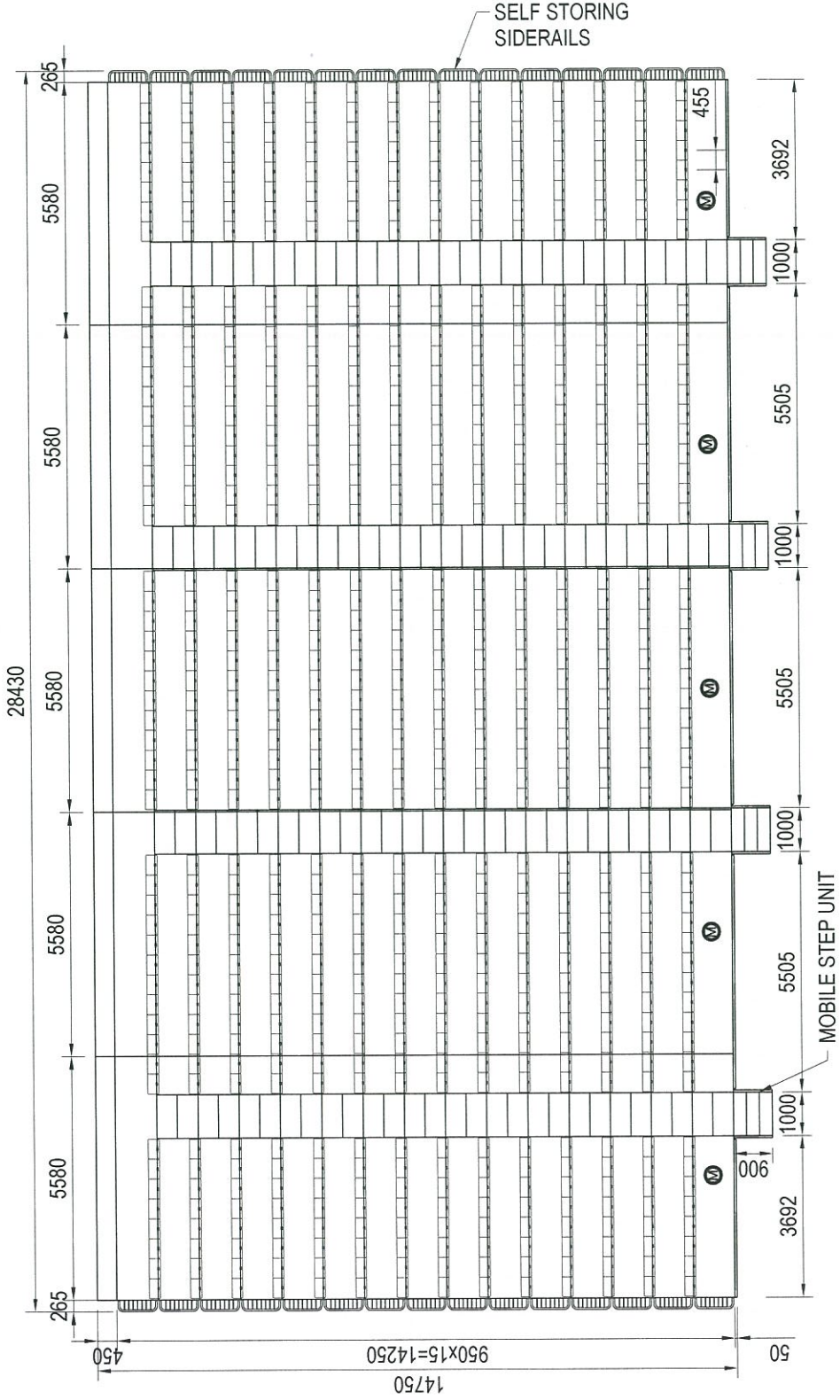
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CONTRACT Ballina Sports Centre

DESCRIPTION Retractable Seating - Main Hall

TITLE BLOWMOLD BENCH 455 Seat Centres

SCALE 1 : 2Z DRAWING No BS-SK01-05 REVISION 0



15 Tier - Qyt 728 off BLOWMOLD BENCH Seating
At 455 mm Centres

Option 2

DO NOT SCALE

Notes

Date	Preliminary Description	JYP	Rev
16/11/2011		0	

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CONTRACT

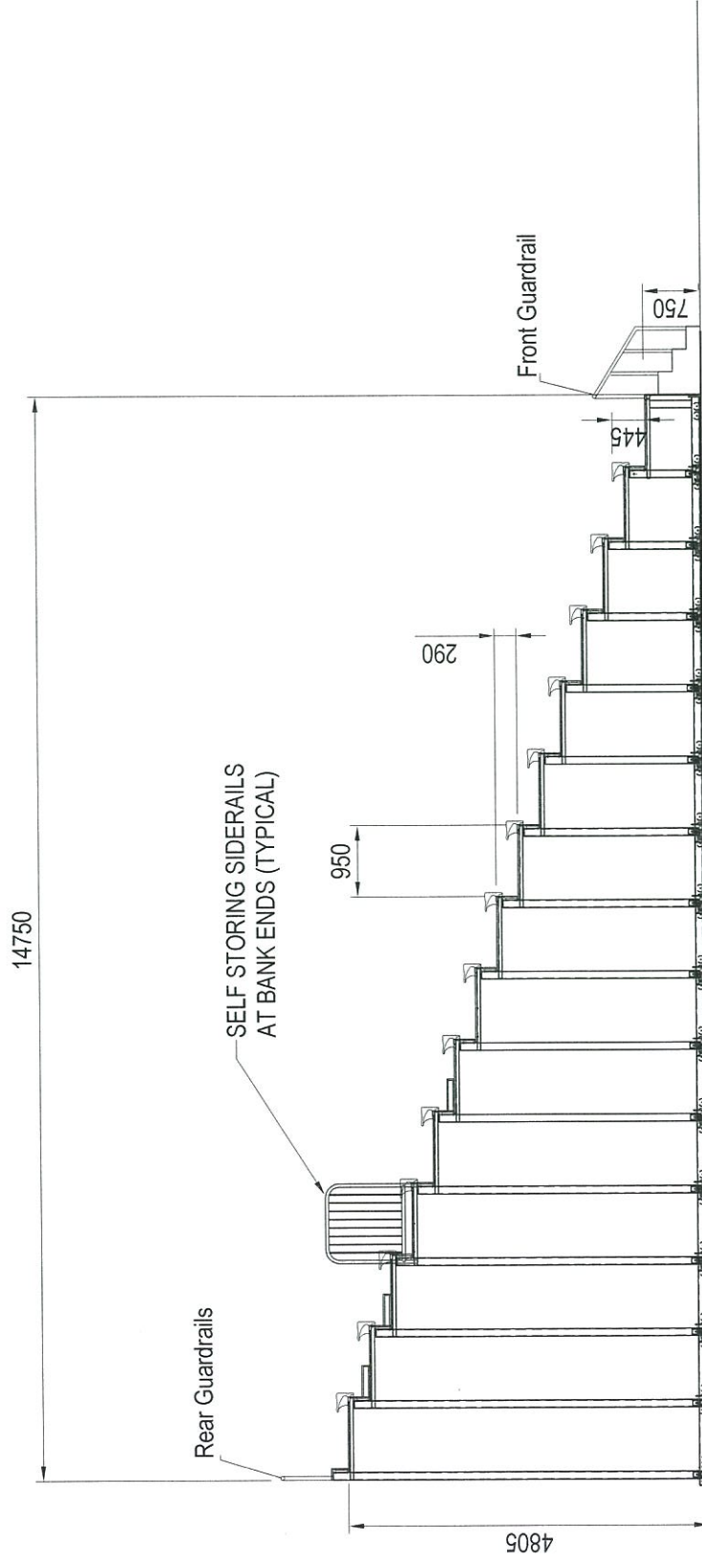
Ballina Sports Centre

DESCRIPTION
Retractable Seating - Main Hall

TITLE

Section View BM-BENCH 455 Centres

SCALE	DRAWING No	REVISION
1 : 22	BS-SK02-05	0



Loose Seating to Arena Floor

Typical Section View - Telescopic Platforms

15 Row - Riser Height 290mm

750mm Tier 1 Riser Height

Option 2

DO NOT SCALE

Notes

Total No of Seats
- 788 (based on 455 mm seat centres)

Date	Description	JYP	Rev
16/11/2011	Preliminary	0	0

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CONTRACT
Ballina Sports Centre

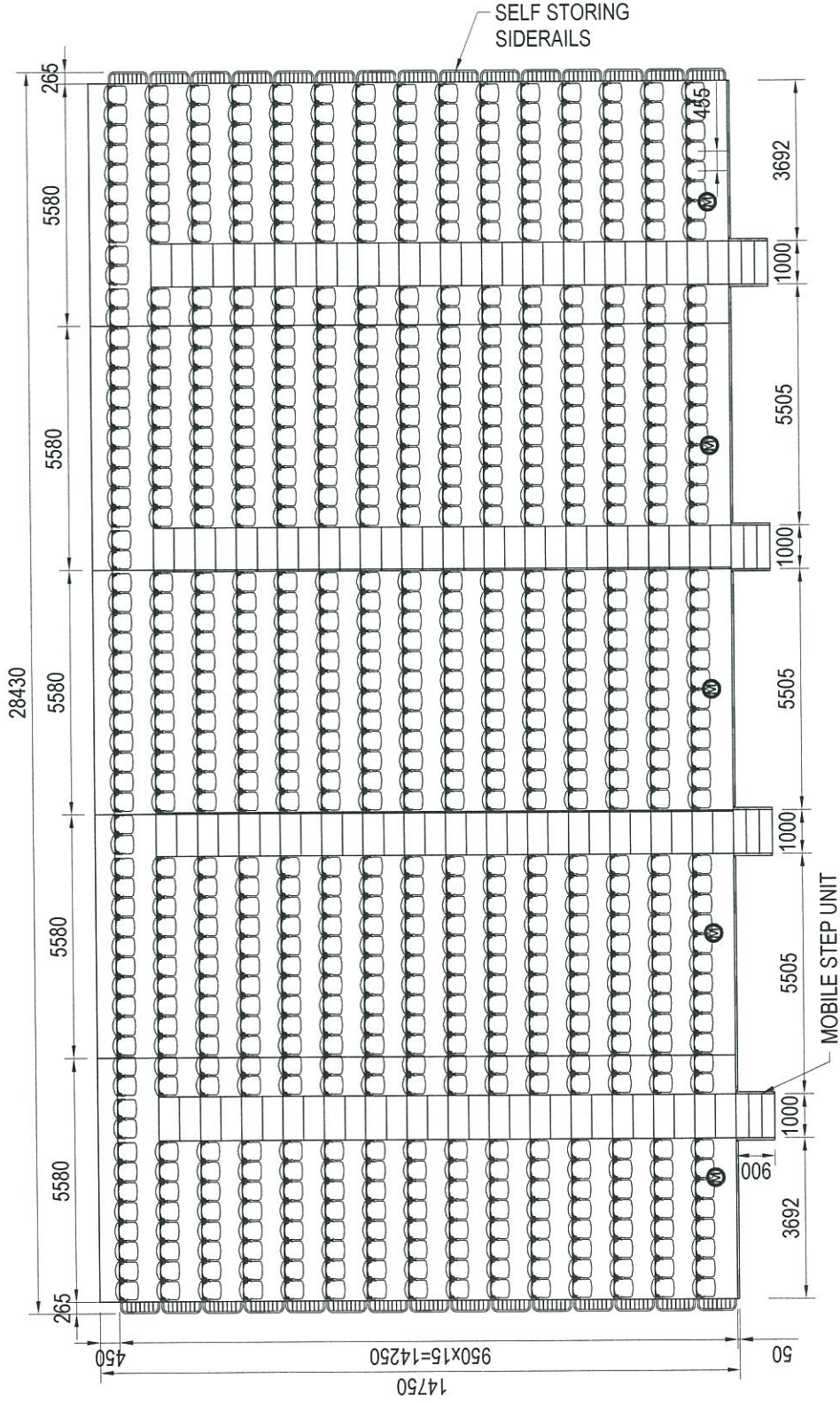
DESCRIPTION
Retractable Seating - Main Hall

TITLE
Integra T100 455 Seat Centres

SCALE
1 : Z

DRAWING No.
BS-SK01-06

REVISION
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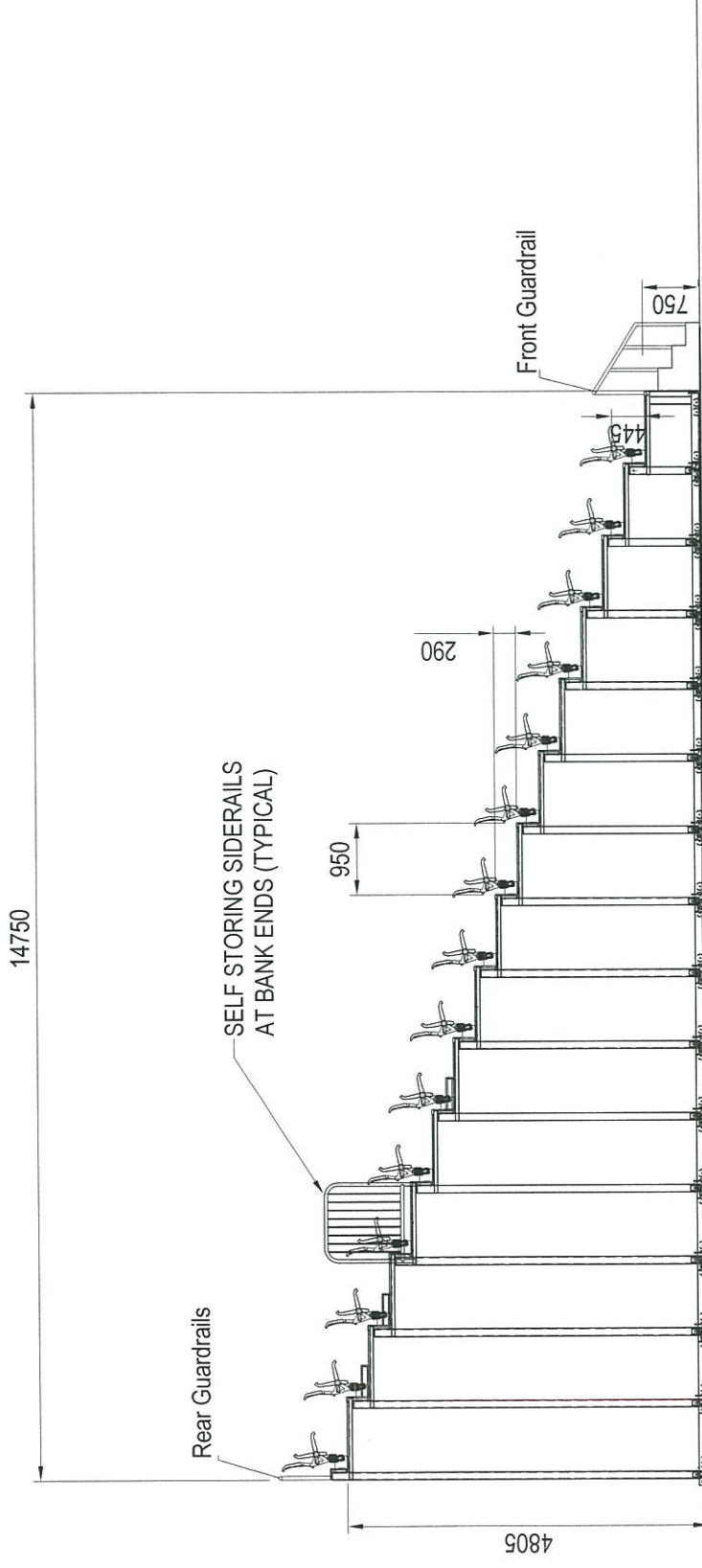


15 Tier - Qty 788 off Integra T100 Seating
At 455 mm Centres

Option 3

DO NOT SCALE

Notes



Loose Seating to Arena Floor

Typical Section View - Telescopic Platforms
15 Row - Riser Height 290mm
750mm Tier 1 Riser Height

Option 3

Date	Preliminary	JYP	Rev
16/11/2011		0	0

Description

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ALL DIMENSIONS IN MILLIMETRES
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CONTRACT

Ballina Sports Centre

DESCRIPTION

Retractable Seating - Main Hall

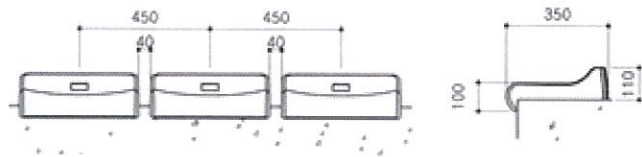
TITLE

Section View Integra T100 455 Centres

SCALE
DRAWING No
BS-SK02-06
REVISION
0

SG AST-3000

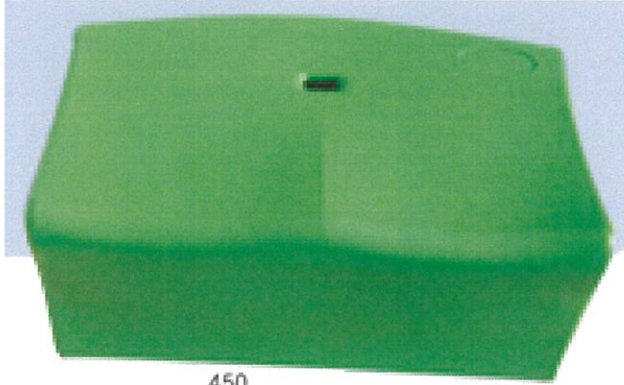
Blow molded
Individual Sports
Bench Seat with
raised back and
variable seat
spacing



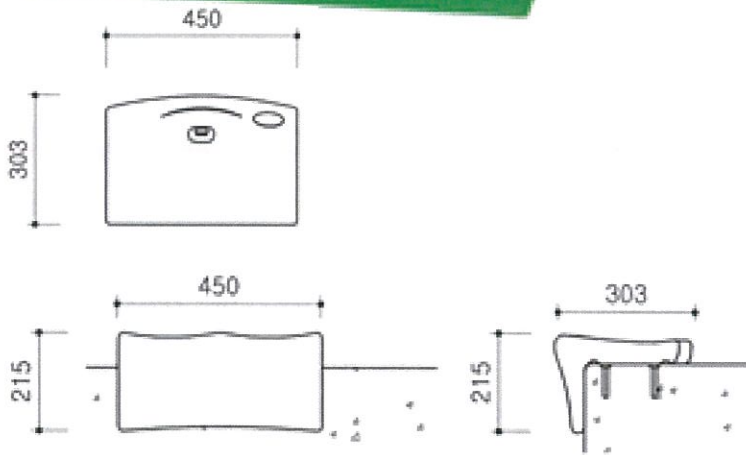
Seat Types

BENCH SEAT OPTIONS

SG AST-2000



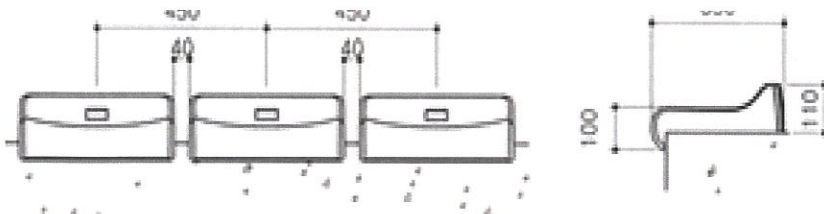
Blow molded individual Sports Bench Seat with variable seat spacing



SG AST-3000



Blow molded Individual Sports Bench Seat with raised back and variable seat spacing





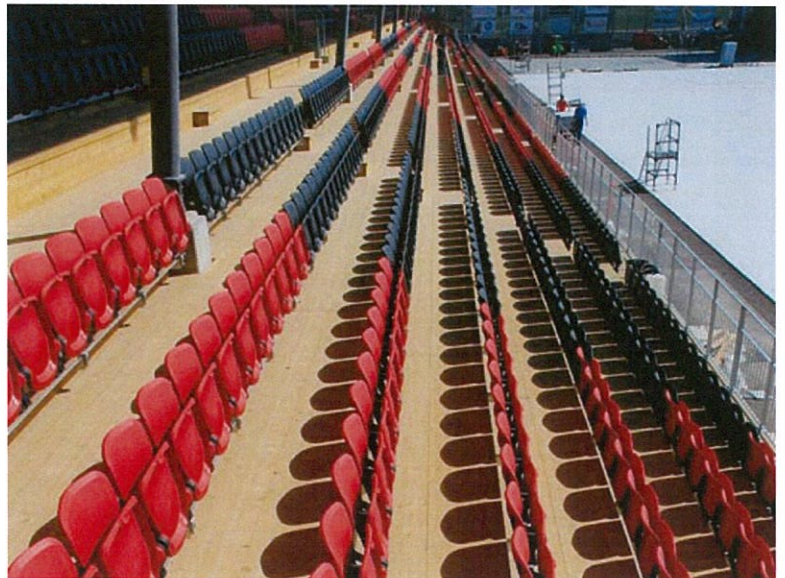
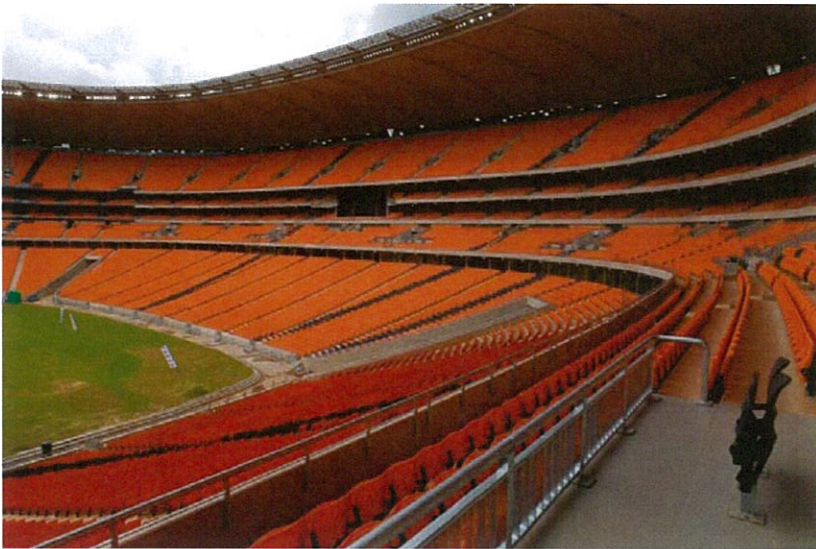
Integra T 100
Polymer Seat and
Back



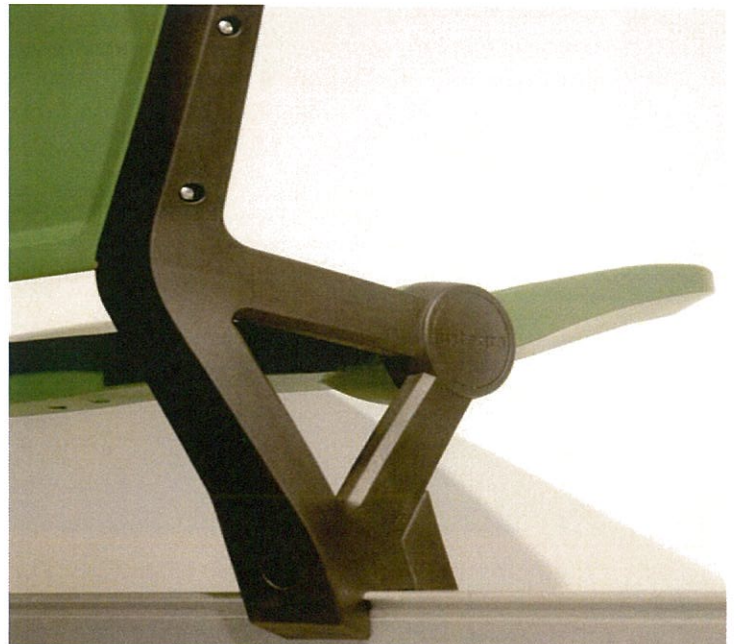
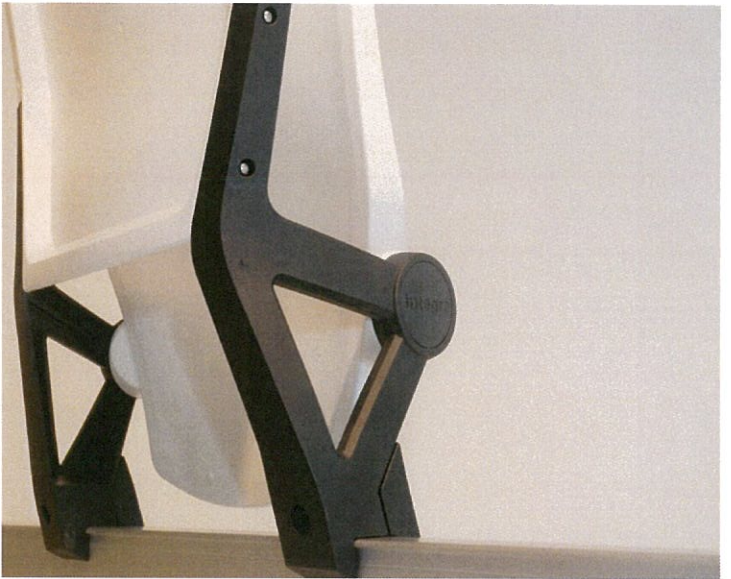
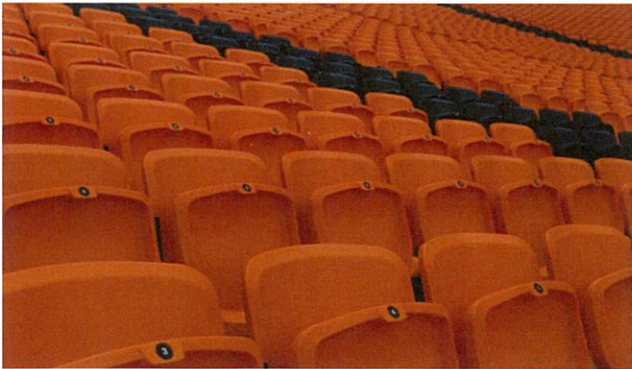
Polymer Seat and Back
With integrated arms



Integra T100 Seats



INTEGRA T100



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