

# NORTHERN RIVERS SALEYARDS REDEVELOPMENT DARGAVILLE DRIVE CASINO 2470

## GENERAL BUILDING SPECIFICATIONS

<b>ROOF</b>	Trindeck or similar. Zincalume finish with translucent roof sheeting for natural lighting. Clerestory 3mtr wide throat for natural ventilation.
<b>STRUCTURE</b>	Structural Steel. Hot dip galvanised finish.
<b>FLOOR</b>	Existing concrete with 150mm soft-floor bark chip. New CBR compacted roadbase with 150mm soft-floor bark chip. Cattle Drafting areas. Concrete finish.
<b>LIGHTING</b>	LED lighting to typical 120 Lux.
<b>WATER</b>	Drinking troughs - Cattle. Dust Suppression - sprays over soft floor. Wash Down to concrete floor areas and laneways.
<b>RAIN WATER HARVESTING</b>	Stormwater roof collection to 400KL storage tank. Re-use for cattle drinking troughs, dust suppression, lawn supply top up.

## REDEVELOPMENT AREA SUMMARY

Existing Floor area	= 10,215 sqm
New GFA Floor Area	= 10,215 sqm
Roof Area	= 11,640 sqm

## DRAWING NUMBER LEGEND

<b>BUILDING No.</b>	01
<b>DRAWING DISCIPLINE</b>	A
<b>DRAWING SERIES</b>	1 01
<b>DRAWING No.</b>	-1
<b>REVISION/ISSUE</b>	

## BUILDING No.

00	SITE DRAWINGS
01	BUILDING No. 01 drawings

## DRAWING DISCIPLINE

A	ARCHITECTURAL
C	CIVIL
E	ELECTRICAL
F	FIRE
H	HYDRAULICS
K	ARCHITECTURAL SKETCH
M	MECHANICAL
P	PROCESS SKETCH
R	REFRIGERATION
S	STRUCTURAL
X	EXISTING
D	DEMOLITION

## DRAWING SERIES

000	SITE & SITEWORKS
100	PLANS
200	ELEVATIONS
300	SECTIONS
400	PART SECTIONS
500	CONSTRUCTION DETAILS
600	TRADE SPECIFIC
700	DETAILED AREAS
800	SPARE
900	SCHEDULES

## DRAWING ISSUE / REVISION

1	2	3
DRAWING ISSUE / REVISION		

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Project  
**NRLX SALEYARDS  
REDEVELOPMENT  
DARGAVILLE DRIVE  
CASINO NSW 2470**

Drawing Title  
**COVER SHEET**

Scale

Drawn **DP** Date **MARCH 2017**

Project No.  
**W15384**

Bldg No.  
**00**

Drawing No.  
**00A000 - 1**

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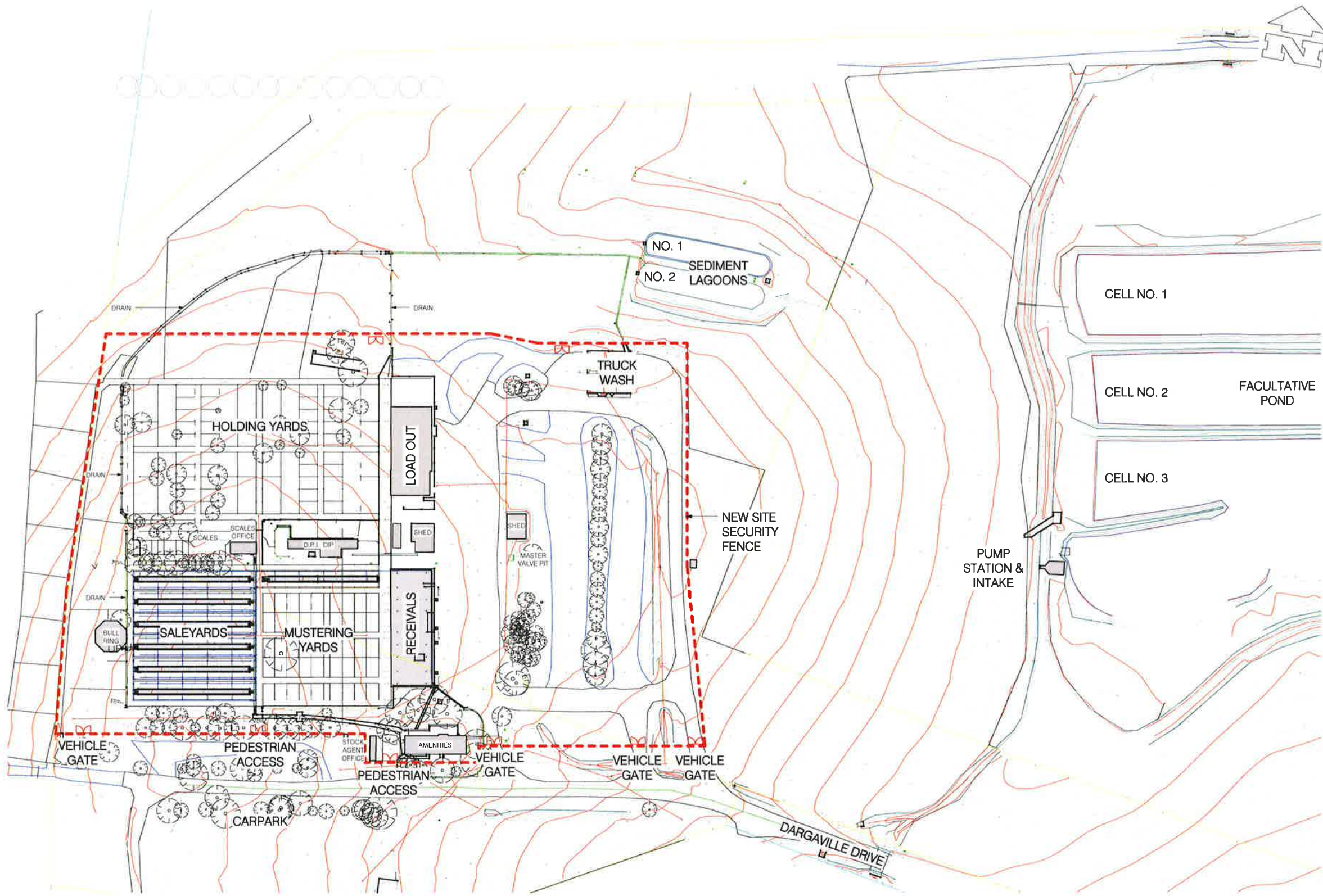
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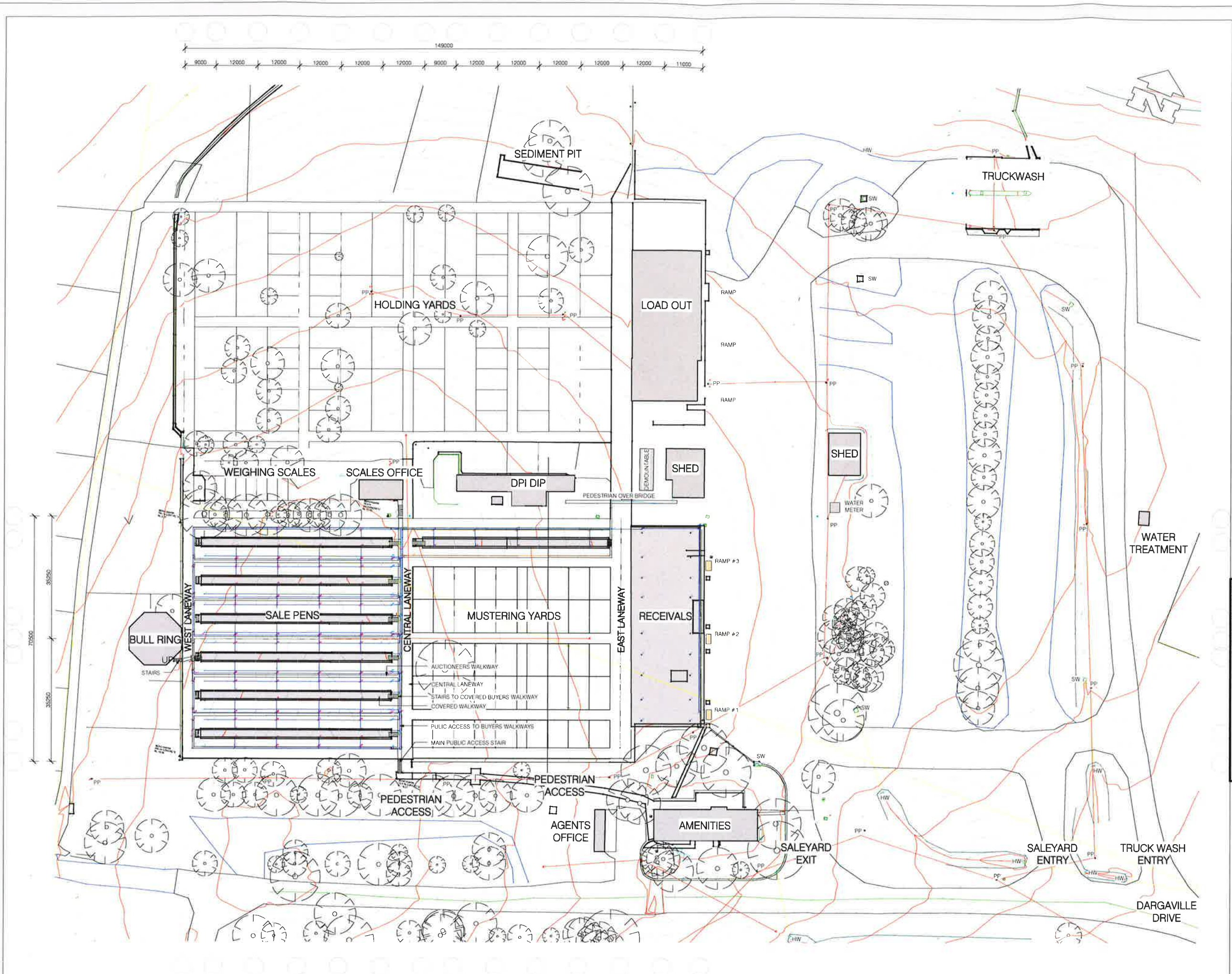
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**SITE PLAN EXISTING  
 OVERALL**

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 Drawn DP Date FEB 2017  
 Project No. W15384 Bldg No. 00  
 Drawing No. 00A001 - 1  
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**LEGEND**  
DP DOWNPIPE  
EG EAVES GUTTER  
HW HEADWALL  
PP POWER POLE  
SW STORMWATER

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Date	Issue	Amendment	Init
17/03/17	2	DA ISSUE FOR APPROVAL	
09/02/17	1	FIRST ISSUE	

BRIAN KUALAUMUTHU (SENIOR ARCHITECT) [www.wiley.com.au](http://www.wiley.com.au)  
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Project  
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REDEVELOPMENT  
DARGAVILLE DRIVE  
CASINO NSW 2470**

Drawing Title  
**SITE PLAN EXISTING  
DETAIL**

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Drawn DP Date FEB 2017

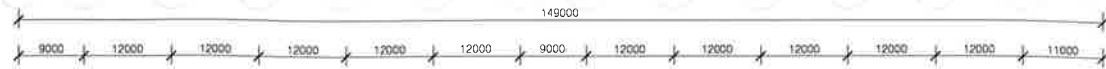
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REDEVELOPMENT  
DARGAVILLE DRIVE  
CASINO NSW 2470

Drawing Title  
SITE PLAN GOOGLE  
AERIAL VIEW

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Drawn DP Date FEB 2017

Project No. W15384 Bldg No. 00

Drawing No. Issue

00A004 - 1

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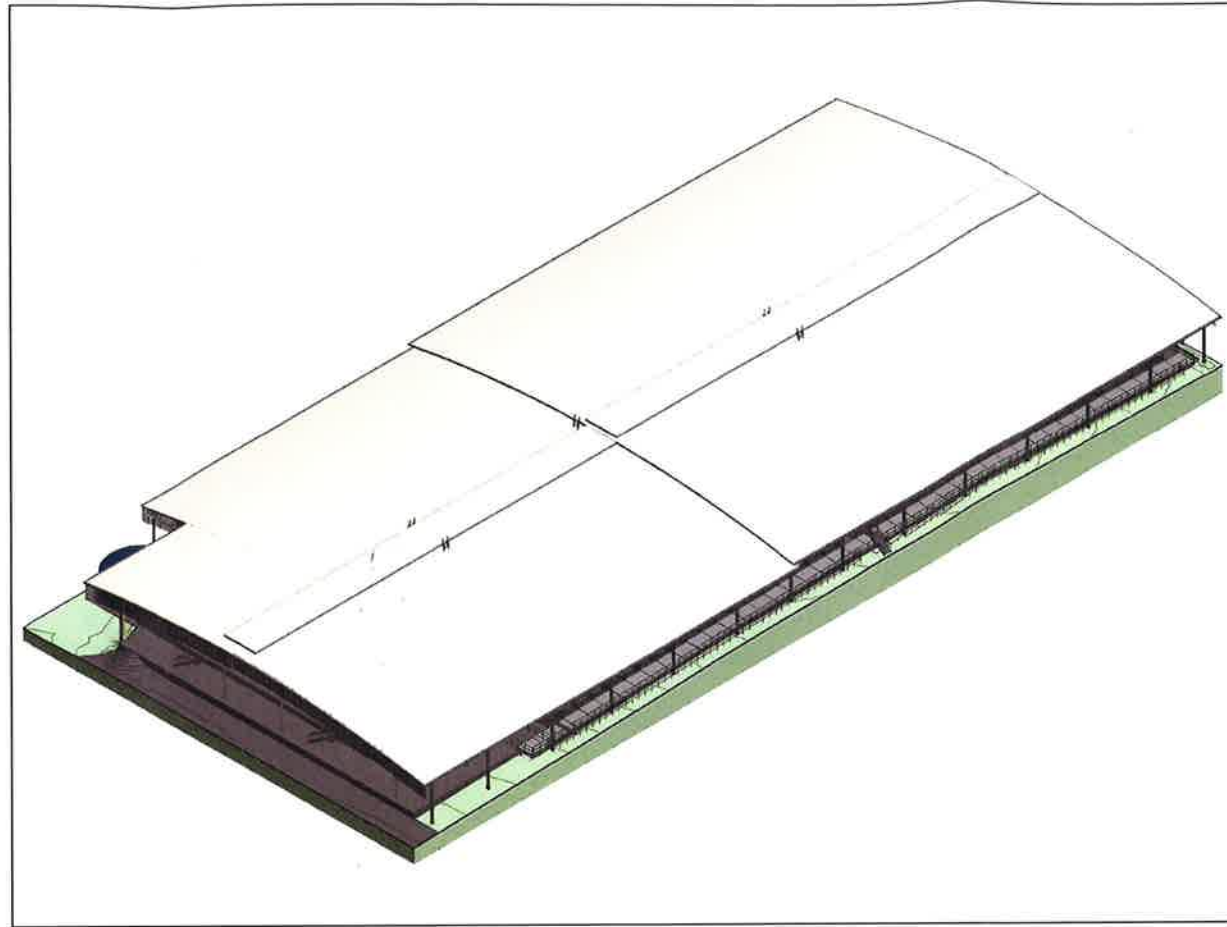
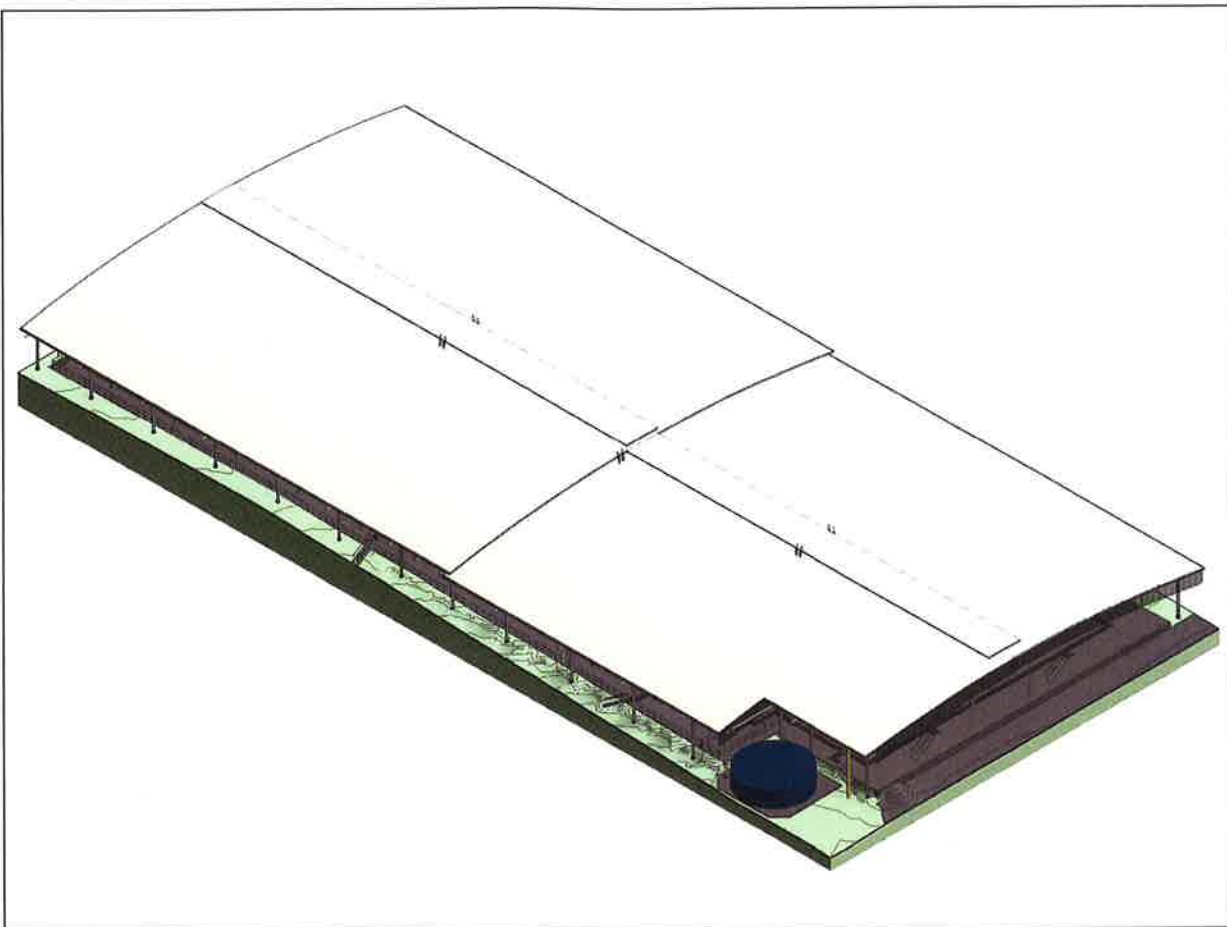
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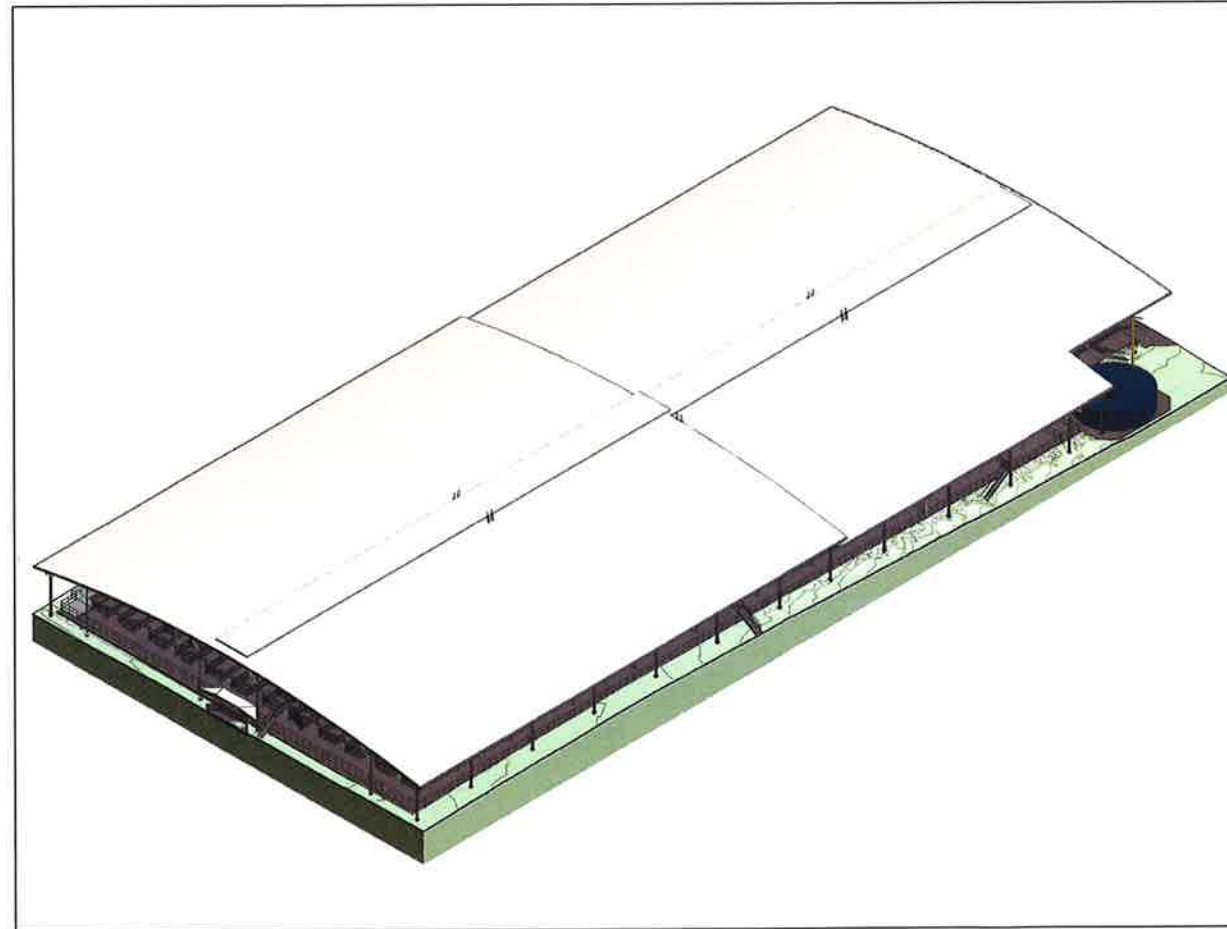
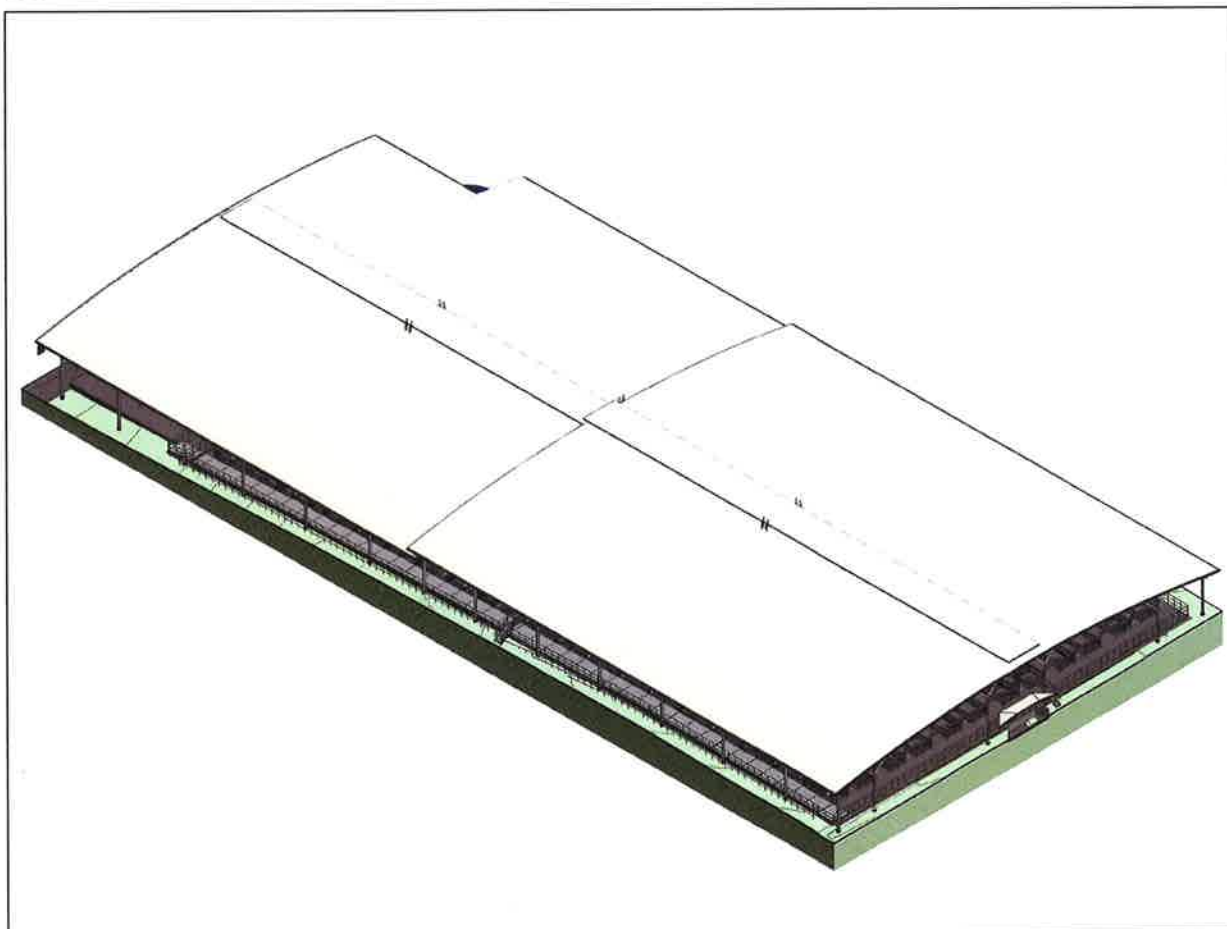


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1 3D VIEW 1  
 A1 =

2 3D VIEW 2  
 A1 =



3 3D VIEW 3  
 A1 =

4 3D VIEW 4  
 A1 =

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Drawing Title  
 3D VIEWS

Scale A1 = 1:500 (A3 = 1:1000) 0 5 10

Drawn DP Date FEB 2017

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 W15384 00

Drawing No. Issue

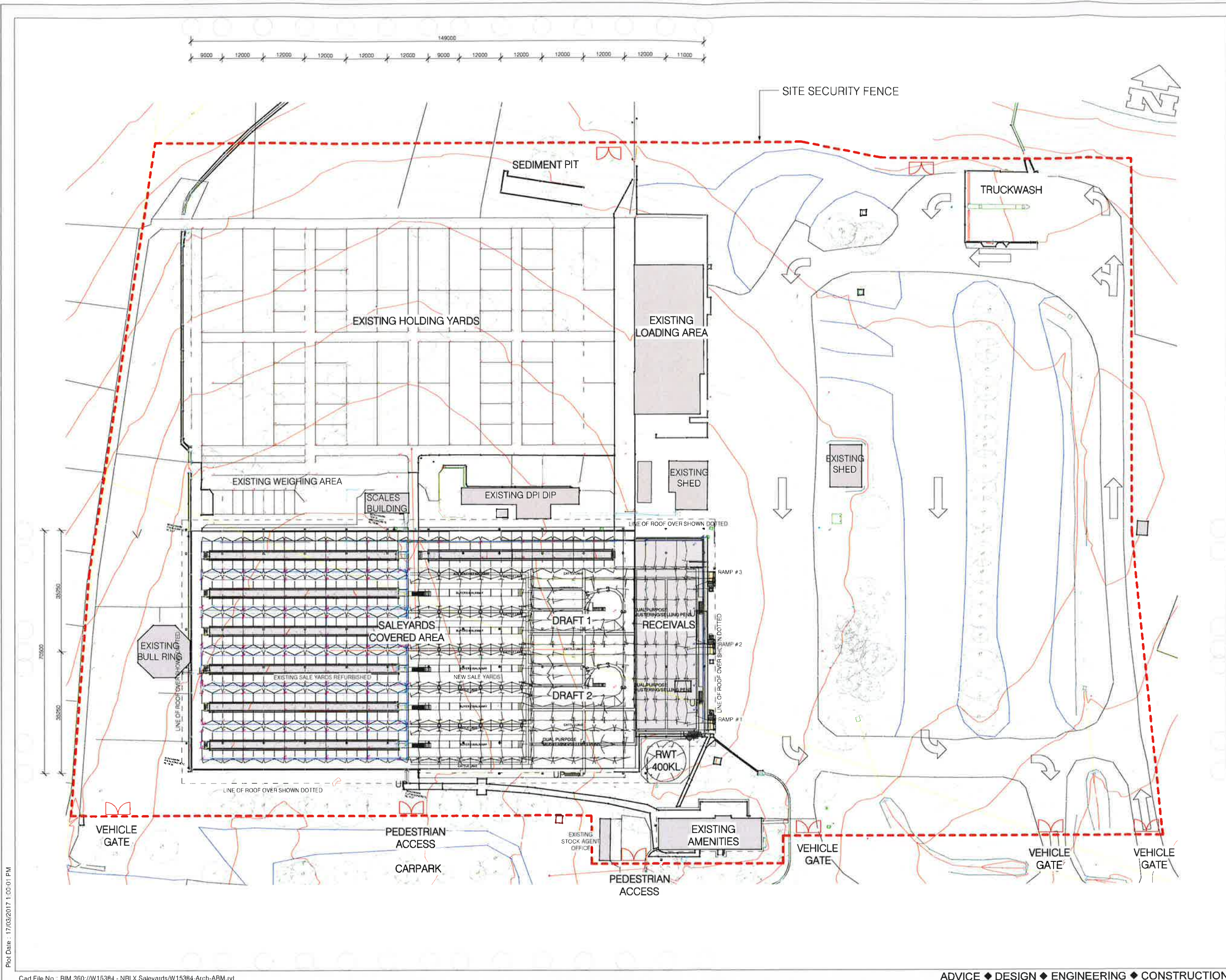
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DARGAVILLE DRIVE  
CASINO NSW 2470**

Drawing Title  
**SITE PLAN PROPOSED  
DETAIL**

Scale A1 = 1:250 (A3 = 1:500) 0 2500 5000

Drawn DP Date FEB 2017

Project No. **W15384** Bldg No. **00**

Drawing No. **00A003 - 1** Issue

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- LEGEND
- DP DOWNPIPE
  - EG EAVES GUTTER
  - HW HEADWALL
  - PP POWER POLE
  - SW STORMWATER

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Date	Issue	Amendment	Init
17/03/17	1		

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**NRLX SALEYARDS  
REDEVELOPMENT  
DARGAVILLE DRIVE  
CASINO NSW 2470**

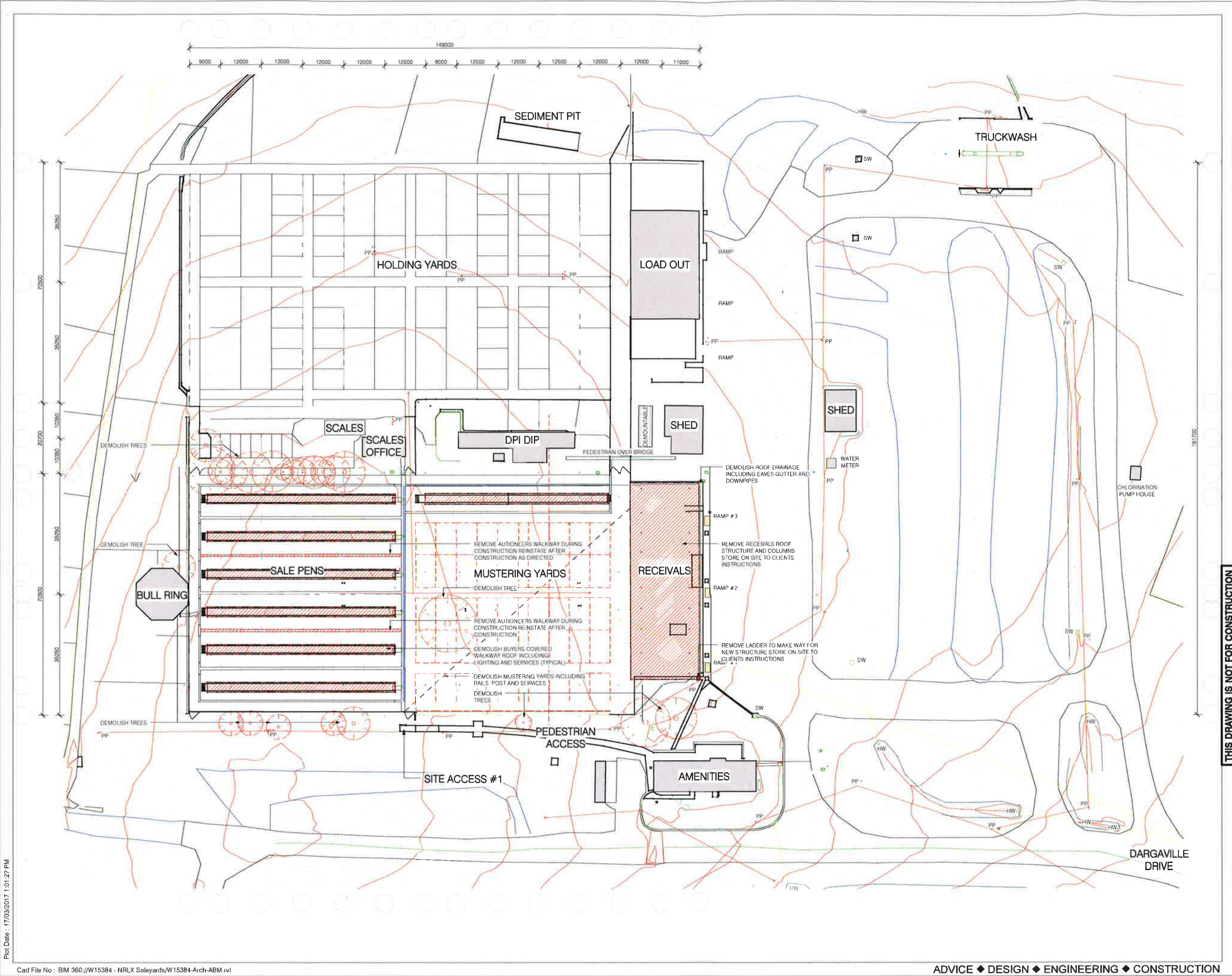
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Project No.	W15384	Bldg No.	00

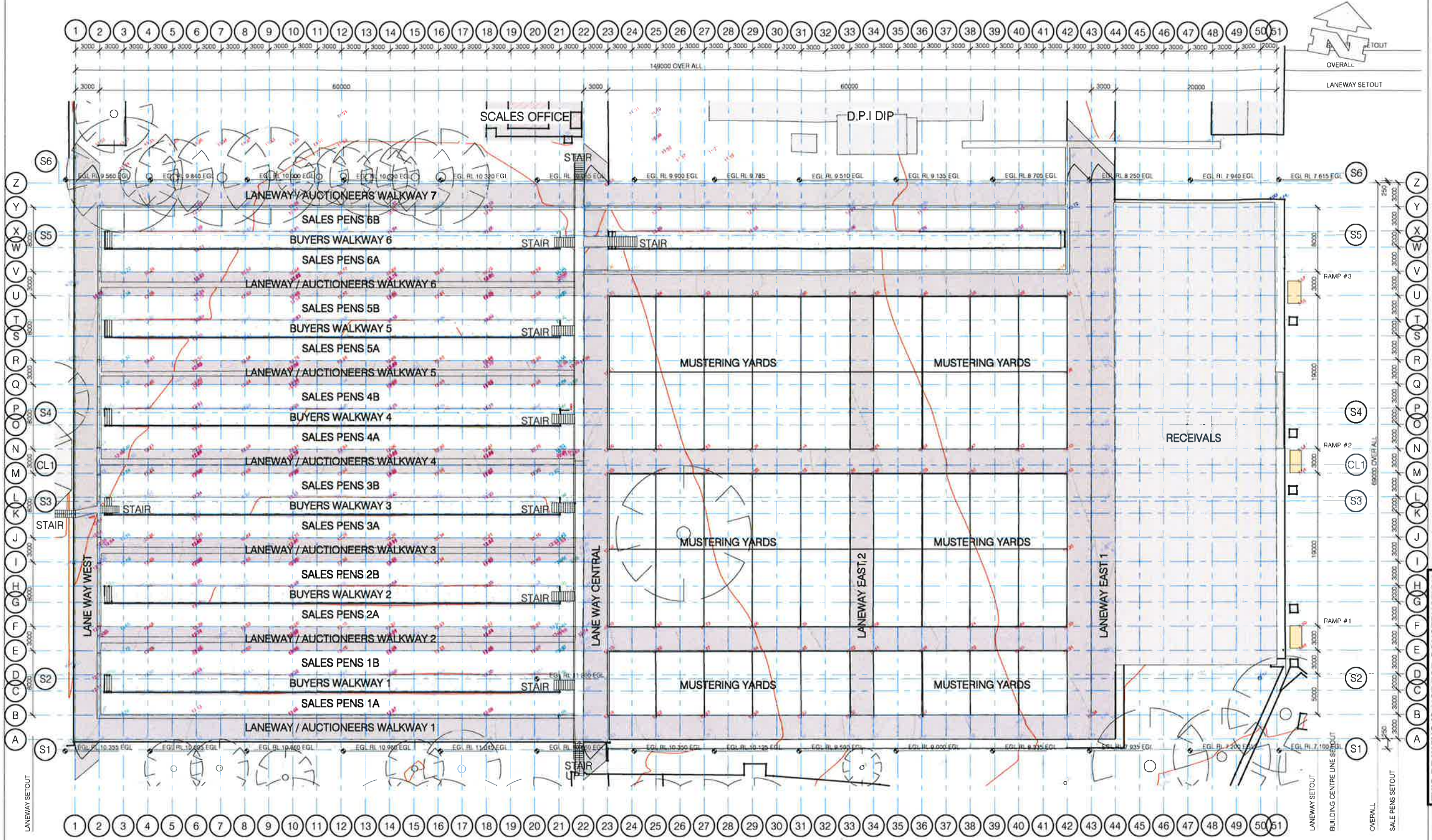
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REDEVELOPMENT  
DARGAVILLE DRIVE  
CASINO NSW 2470**

Drawing Title  
**FLOOR PLAN EXISTING**

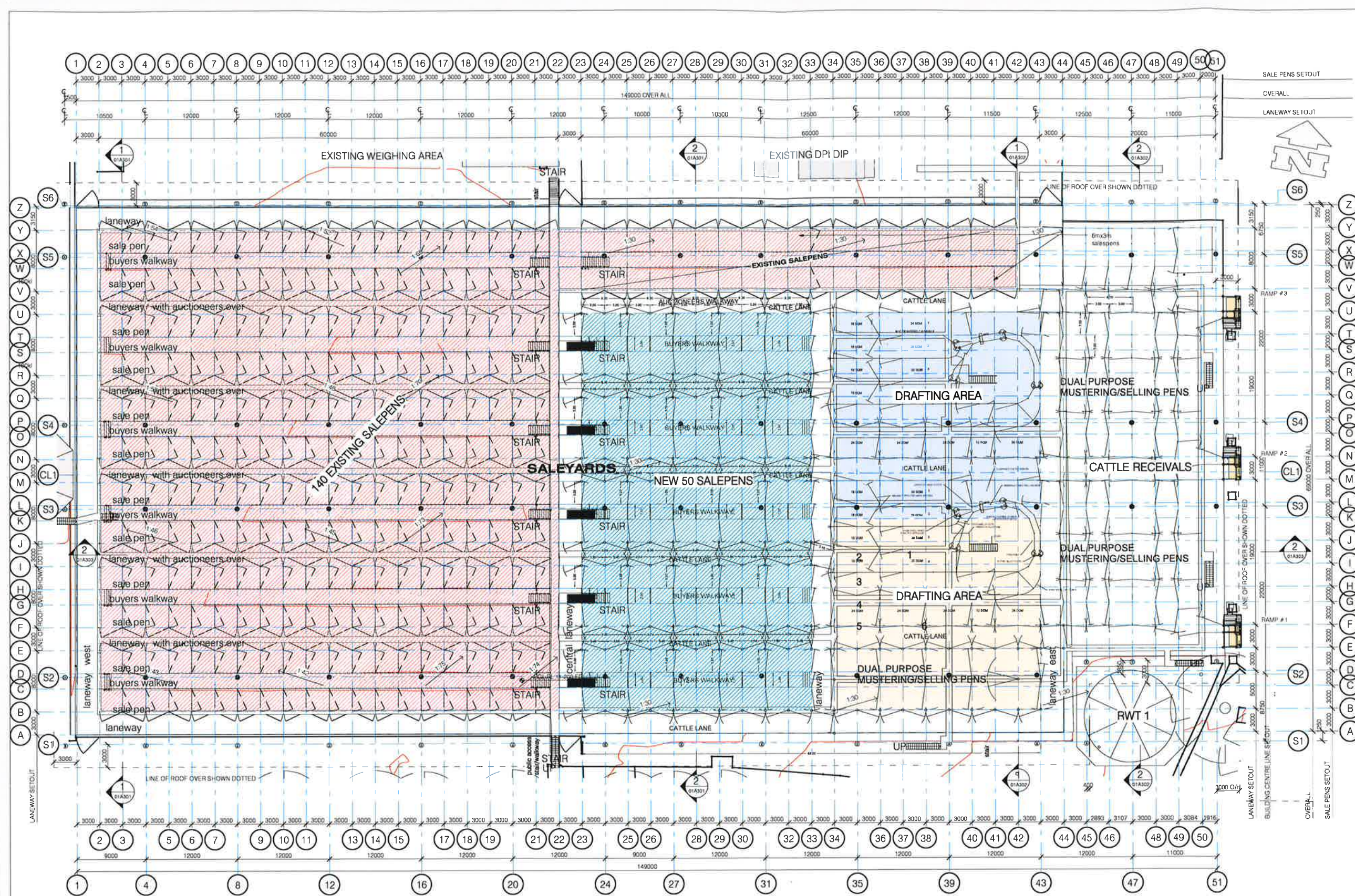
**REDEVELOPMENT AREA SUMMARY**

Existing Floor area = 10,215 sqm  
New GFA Floor Area = 10,215 sqm  
Roof Area = 11,640 sqm

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Drawn DP Date FEB 2017  
Project No. W15384 Bldg No. 01  
Drawing No. Issue

**01A101 - 1**  
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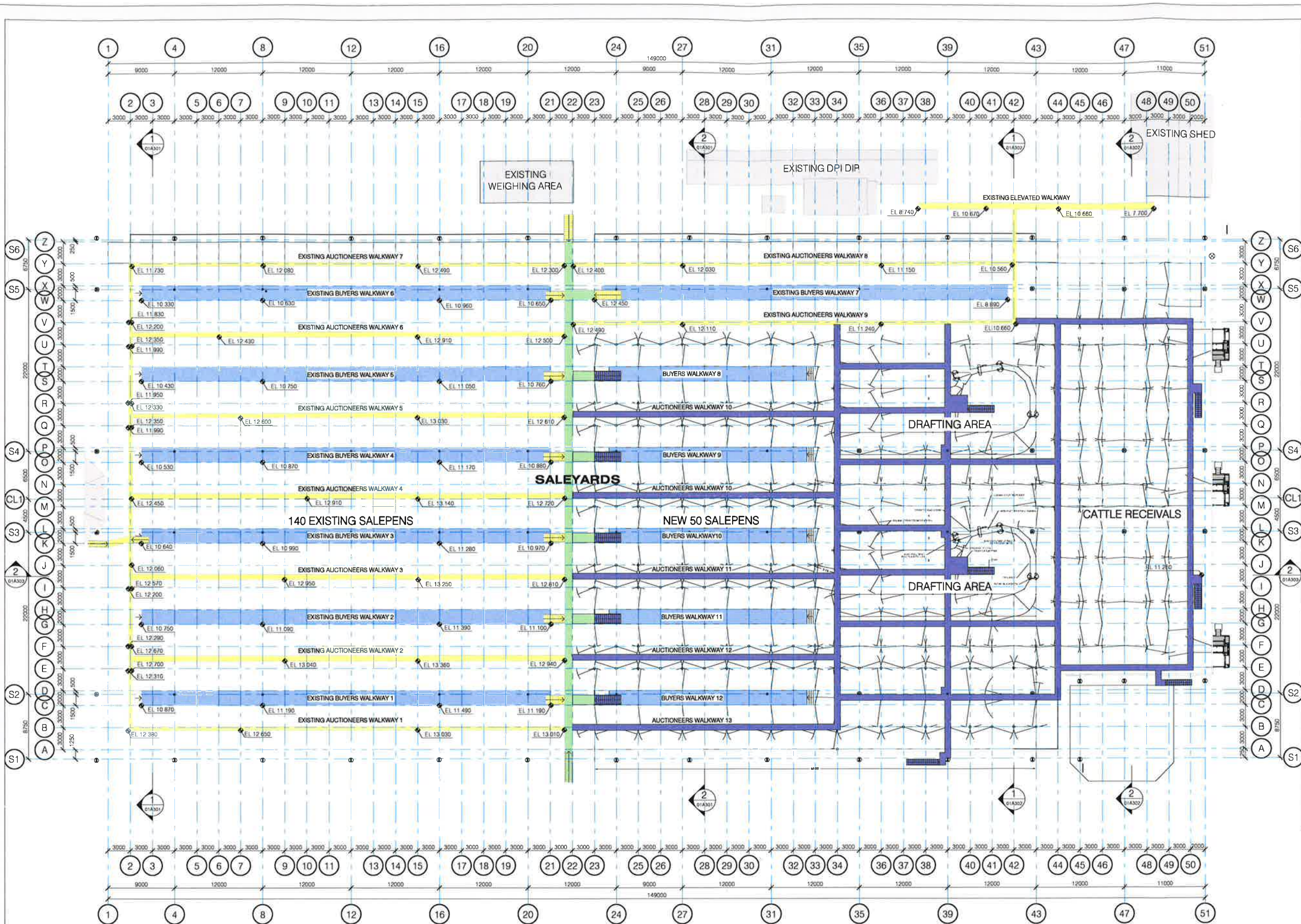


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**REDEVELOPMENT AREA SUMMARY**

Existing Floor area	= 10,215 sqm
New GFA Floor Area	= 10,215 sqm
Roof Area	= 11,640 sqm





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#### WALKWAY LEGEND

- EXISTING PUBLIC WALKWAY  
- TYPICALLY 1320 WIDE,  
2500 ABOVE FFL
- EXISTING OVERHEAD WALKWAY  
- TYPICALLY 600 WIDE,  
2500 ABOVE FFL
- PROPOSED NEW OVERHEAD WALKWAY  
- TYPICALLY 600 WIDE,  
2500 ABOVE FFL
- BUYERS WALKWAY  
- TYPICALLY 2000 WIDE,  
550 ABOVE FFL

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**NRLX SALEYARDS  
REDEVELOPMENT  
DARGAVILLE DRIVE  
CASINO NSW 2470**

Drawing Title  
**FLOOR PLAN PROPOSED  
WALKWAY**

Scale A1 = 1:250 (A3 = 1:500) 0 2500 5000

Drawn DP Date 03/03/17

Project No. **W15384** Bldg No. **01**

Drawing No. Issue

**01A103 - 1**

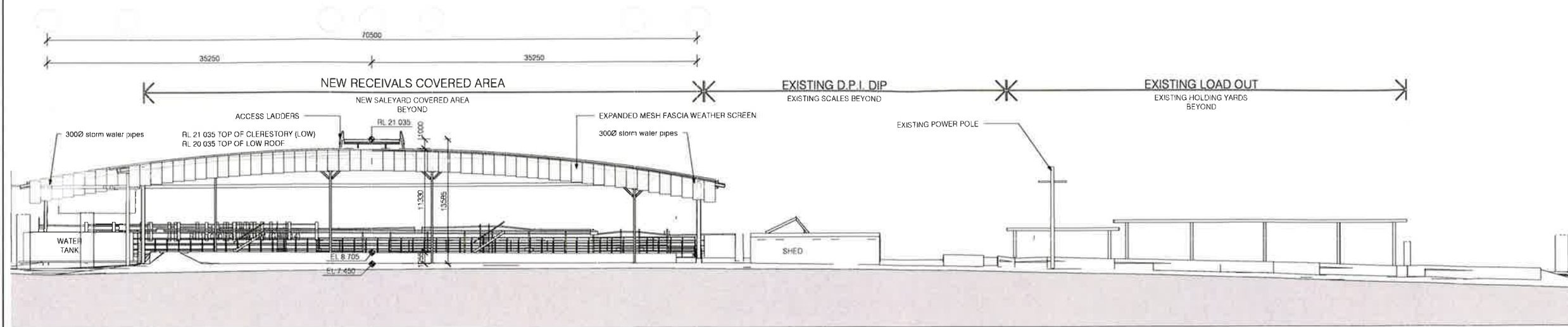
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#### REDEVELOPMENT AREA SUMMARY

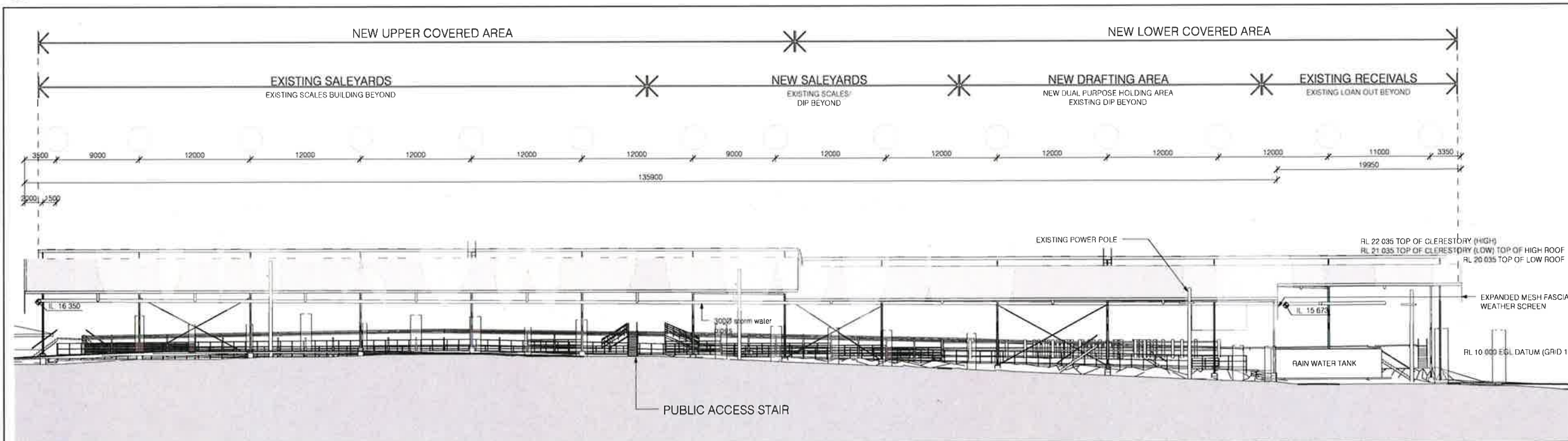
Existing Floor area = 10,215 sqm  
New GFA Floor Area = 10,215 sqm  
Roof Area = 11,640 sqm



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1 EAST ELEVATION  
 A1 = 1 : 250



2 SOUTH ELEVATION  
 A1 = 1 : 250

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Project  
**NRLX SALEYARDS  
 REDEVELOPMENT  
 DARGAVILLE DRIVE  
 CASINO NSW 2470**

Drawing Title  
**ELEVATIONS  
 EAST & SOUTH**

Scale A1 = 1 : 250 (A3 = 1 : 500) 0 2500 5000

Drawn DP Date FEB 2017

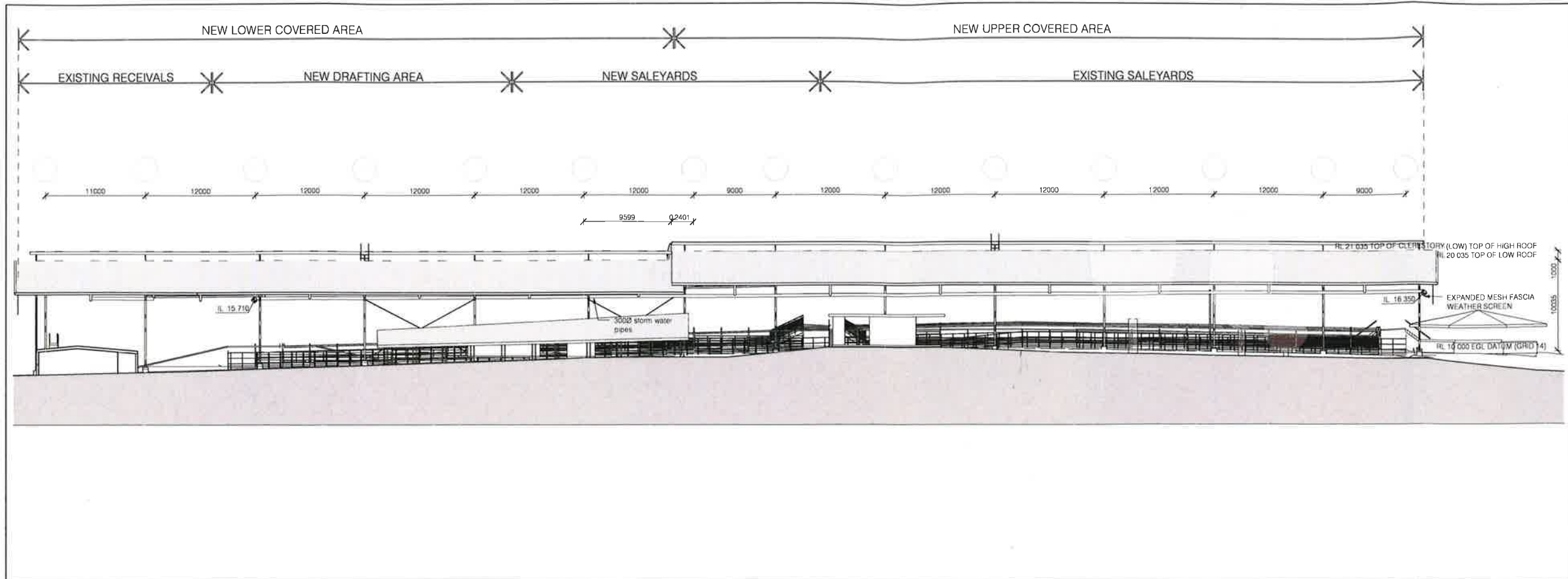
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Drawing No. Issue

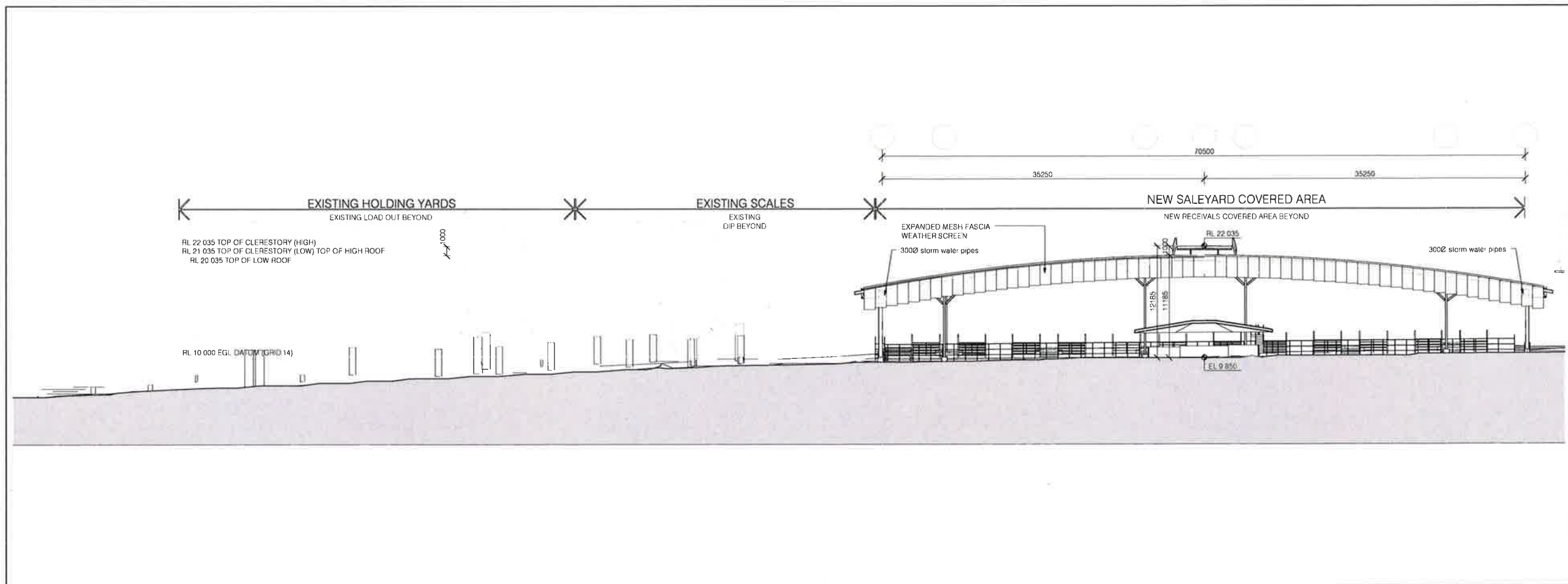
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1 NORTH ELEVATION  
A1 = 1 : 250



2 WEST ELEVATION  
A1 = 1 : 250

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CASINO NSW 2470**

Drawing Title  
**ELEVATIONS  
NORTH & WEST**

Scale A1 = 1 : 250 (A3 = 1 : 500) 0 2500 5000

Drawn DP Date FEB 2017

Project No. W15384 Bldg No. 01

Drawing No. Issue

**01A202 - 1**

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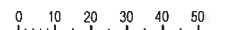
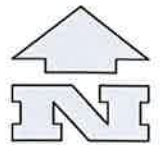




DWG. No.	DRAWING TITLE
00C001	COVER SHEET
00C002	CONSTRUCTION NOTES
00C011	STORMWATER DRAINAGE LAYOUT PLAN - SHEET 1
00C012	STORMWATER DRAINAGE LAYOUT PLAN - SHEET 2
00C013	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1
00C021	EROSION AND SEDIMENT CONTROL PLAN



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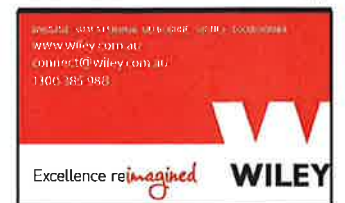
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Project No.	Drawing No.	Rev No.
7227	00C001	3

24.04.17	3	CONSTRUCTION ISSUE	BCW	LS
03.04.17	2	CONSTRUCTION ISSUE	BCW	LS
24.03.17	1	PRELIMINARY ISSUE	BCW	LS



# NORTHERN RIVERS SALEYARDS REDEVELOPMENT

DARGAVILLE DRIVE  
CASINO NSW 2470

Drawing Title  
COVER PAGE

Scale AS SHOWN	
Drawn BCM	Date 24.04.17
Project No. W15384	Bldg No. 00
Drawing No. 00C001	Issue - 3
FOR CONSTRUCTION	



## GENERAL NOTES

PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR IS TO IDENTIFY AND BE SATISFIED OF THE CORRECT LOCATION OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONTRACTOR'S EXPENSE.

ANY WORK ON EXISTING SERVICES THAT REQUIRE RELOCATION BY AUTHORITIES SHALL BE CARRIED OUT BY THE RELEVANT AUTHORITY BUT WITHIN TERMS OF THE CONTRACT AND SHALL BE CO-ORDINATED BY THE CONTRACTOR.

PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR WILL PROVIDE SCOUR AND EROSION PROTECTION INCLUDING PROVISION OF SEDIMENT TRAPS AND FENCES TO MINIMIZE DEPOSITION OF MATERIAL ONTO DOWNSTREAM OF THE PROPERTY AS INDICATED ON THE DRAWINGS.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER WORKING DRAWINGS AND SPECIFICATION AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES AND VARIATIONS SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL LEVELS ARE TO SURVEY DATUM AS PER NEWTON DENNY CHAPELLE SURVEY PLAN (REFERENCE 17005).

ALL WORK TO CONFORM TO NORTHERN RIVERS COUNCIL STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY THE SUPERINTENDENT.

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CONCERNS ABOUT THE CONDUCT OF WORKERS OR METHODS OF WORK SHOULD BE RAISED WITH THE APPROPRIATE SAFETY OFFICIAL ON SITE.

## ENVIRONMENTAL CONDITIONS

### 1. VEGETATION PROTECTION

TREES LOCATED ALONG THE FOOTPATH SHALL BE, WHERE POSSIBLE TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.

WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 15m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.

WHERE POSSIBLE, TREE ROOTS SHALL BE TUNNELED UNDER RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE.

ANY TREE LOPPING REQUIRED SHALL BE UNDERTAKEN ACCORDING TO COUNCIL'S REQUIREMENTS.

### 2. SOIL

TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

### 3. REHABILITATION

PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS ARE TO BE REINSTATED.

PRE-DISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED. FOR FURTHER INFORMATION CONTACT COUNCIL ECOLOGICAL ASSESSMENT OFFICER, PH 3810 6666.

**NOTE:** ALL ENVIRONMENT PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

## EARTHWORKS MANAGEMENT PLAN

### 1. EROSION AND SEDIMENTATION CONTROL

ALL WORK TO BE IN ACCORDANCE WITH THE INTERNATIONAL EROSION AND SEDIMENT CONTROL ASSOCIATION BEST PRACTICE EROSION AND SEDIMENT CONTROL GUIDELINES 2008.

IF DIRECTED BY THE ENGINEER, TOPSOIL STOCKPILES ARE TO BE SOWN WITH A COVER CROP AS SOON AS PRACTICAL AFTER STOCKPILING.

NO DISTURBANCE TO VEGETATION IS TO TAKE PLACE BEYOND THE BOUNDARIES OF THE CURRENT STAGE OF DEVELOPMENT.

SEDIMENT IS TO BE PREVENTED FROM ENTERING STORMWATER GULLY PITS BY PLACING A PORTABLE SEDIMENT BARRIER AS SHOWN IN SECTION A5, PAGE A5-C8.2 OF THE SOIL EROSION AND SEDIMENT CONTROL - GUIDELINES FOR QUEENSLAND CONSTRUCTION SITES.

DURING CONSTRUCTION, TEMPORARY DIVERSION DRAINS, SEDIMENT FENCES AND, OR SEDIMENT TRAPS ARE TO BE CONSTRUCTED AT REGULAR INTERVALS DOWN SLOPE PRIOR TO ANY BREAKS IN CONSTRUCTION (SUCH AS A WEEKEND) OR IF RAIN IS IMMINENT.

INSTALL SEDIMENT FENCES TO CONTROL SHEET FLOW OR SEDIMENT TRAPS TO CONTROL CONCENTRATED FLOW.

SERVICE TRENCHES ARE TO BE REVEGETATED WITH GRASS SODS AND TOPSOIL SAVED DURING EXCAVATION OF THE TRENCHES (AS APPROPRIATE) CUT AND FILL BATTERS ARE TO BE STABILIZED AS SOON AS PRACTICAL.

THE CONTRACTOR IS TO CO-ORDINATE WITH THE LANDSCAPER TO STABILISE THE BATTERS. THE CONTRACTOR IS TO PROVIDE ACCESS TO THE SITE FOR THE LANDSCAPER TO CARRY OUT THE BATTER STABILIZATION WORK.

## ROADWORKS NOTES

FILL AND SUB GRADE SHALL BE COMPACTED AS DETAILED IN EARTHWORKS NOTES.

THE CONTRACTOR IS TO INITIALLY EXCAVATE THE PAVEMENT TO LEVEL THEN ARRANGE 4 DAY SOAKED CBR TESTS ON THE SUBGRADE AND NOTIFY THE SUPERINTENDENT WHO WILL DETERMINE FINAL PAVEMENT THICKNESS AND ARRANGE PAVEMENT APPROVAL FROM THE RELEVANT AUTHORITY.

ALL SUB GRADE AREA SHALL BE PROOF ROLLED AND COMPACTED TO MAXIMUM DRY DENSITY RATIO OF 100% STANDARD COMPACTION (AS 1289) ANY SOFT SPOTS ENCOUNTERED ARE TO BE EXCAVATED AND REPLACED WITH SELECT MATERIAL (MINIMUM CBR 15) AS DEFINED IN EARTHWORKS NOTES.

ALL FILL MATERIAL EXCLUDING ROAD PAVEMENT IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS AND COMPACTED TO DENSITIES OUTLINED IN THE EARTHWORKS NOTES.

ALL ROAD PAVEMENT MATERIAL IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS AND COMPACTED TO 95% MODIFIED MAXIMUM DRY DENSITY.

COMPACTION TEST RESULTS AND TEST LOCATIONS FOR BASE COURSE TESTING SHALL BE SUBMITTED TO AND APPROVED BY THE SUPERINTENDENT PRIOR TO PLACING SURFACE. SHOULD ANY TEST FAIL, THE CONTRACTOR SHALL REWORK THE AREA AS REQUIRED OR AS DIRECTED TO OBTAIN THE SPECIFIED COMPACTION.

ALL TRENCHES SHALL BE BACK FILLED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS TO NOT LESS THAN:

LOCATION	DENSITY	FREQUENCY
UNDER ROADS	95% SMDD	1 TEST PER 2 LAYERS
A) >500mm BELOW SUBGRADE		PER 40m WITH AT LEAST 1 TEST IN 5 BEING ADJACENT TO A MANHOLE OR GULLY
B) <500MM BELOW SUBGRADE	100% SMDD	
C) PAVEMENT	95% MMDD	
ELSEWHERE	95% SMDD	1 TEST PER LAYER PER 200m

SMDD - STANDARD MAXIMUM DRY DENSITY

MMDD - MODIFIED MAXIMUM DRY DENSITY (AS PER AS. 1289)

TRENCH BACKFILL TESTING SHALL BE CARRIED OUT ON EACH ALTERNATE COMPACTED LAYER AT MAXIMUM 50m CENTRES AND NO MORE THAN 3m FROM MANHOLE STRUCTURE.

## ROADWORKS NOTES

PAVEMENT MATERIAL SHALL EXTEND 150mm BEHIND KERB AND KERB AND CHANNEL.

WHERE NEW PAVEMENT JOINS EXISTING PAVEMENT THE EXISTING PAVEMENT IS TO BE SAW CUT AS INDICATED TO PROVIDE A NEAT STRAIGHT LINE.

ALL KERB LEVELS ARE THE NOMINAL FACE OF KERB UNLESS NOTED OTHERWISE.

KERB AND CHANNEL SHALL MATCH EXISTING TYPES AND BE IN ACCORDANCE WITH NORTHERN RIVERS COUNCIL STANDARDS UNLESS SHOWN OTHERWISE

WHERE COUNCIL STANDARD DOES NOT NOMINATE CONSTRUCTION METHODS OF CONCRETE KERB SECTIONS TOOLED GROOVE JOINTS ARE TO BE PLACED AT 3m MAXIMUM CENTRES. PLACE ADDITIONAL JOINTS TO KERBS, MEDIANS, INVERTS IN THE SAME LOCATION AS THE JOINTS IN THE CONCRETE PAVEMENTS WHERE APPLICABLE.

SUBSOIL DRAINS SHALL BE MIN 1000 CORRUGATED POLYETHYLENE PIPE TO AS 2439 AND CONSTRUCTED IN ACCORDANCE WITH NORTHERN RIVERS STANDARD DWG. SUBSOIL DRAINS ARE TO BE USED IN ALL AREAS, EXCEPT WHERE SUBSOIL DRAINS ARE SHOWN BENEATH TRAFFICABLE AREAS THE PIPES ARE TO BE WATER TIGHT UPVC CLASS PN12 OR RCP CLASS 2.

SUBSOIL DRAIN CLEAN OUTS ARE TO CONSTRUCTED IN ACCORDANCE WITH NORTHERN RIVERS COUNCIL STANDARD DRAWINGS AND PLACED AT 60m MAXIMUM CENTRES.

ALL SAFETY SIGNS AND BARRICADES SHALL BE ERECTED TO COMPLY WITH D.O.T. STANDARDS AND AS 1742.

THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT 'WORKS AS CONSTRUCTED' SURVEY AND SUBMIT DETAILS SHOWN ON A PLAN TO THE SUPERINTENDENT AT COMPLETION OF CONSTRUCTION. 'WORKS AS CONSTRUCTED' SURVEY IS TO SHOW BUT NOT BE LIMITED TO LEVEL AND LOCATION OF NEW KERB, KERB AND CHANNEL, CONCRETE INVERT AND KERB RAMP AND ANY DETAILS RELATED TO FINAL ROAD WORKS. BASE COURSE MATERIAL SHALL NOT BE PLACED UNTIL THE KERBS HAVE ACHIEVED 20MPa STRENGTH.

## PEDESTRIAN SURFACES

ALL SURFACES SUBJECT TO PEDESTRIAN TRAFFIC SHALL MEET THE MINIMUM PENDULUM OR RAMP RECOMMENDATIONS CONTAINED IN TABLE 3 OF AUSTRALIAN STANDARD HANDBOOK HB197:1999 - AN INTRODUCTORY GUIDE TO THE SLIP RESISTANCE OF PEDESTRIAN SURFACE MATERIALS. COMPLIANCE WITH THE RECOMMENDATIONS SHALL BE VERIFIED BY TESTING TO EITHER:- AS/NZS 4586:2004 - SLIP RESISTANCE CLASSIFICATIONS OF NEW PEDESTRIAN SURFACE MATERIALS, OR AS/NZS 4663:2004 - SLIP RESISTANCE MEASUREMENT OF EXISTING PEDESTRIAN SURFACES AS APPROPRIATE IN BOTH INSTANCES COMPLIANCE SHALL BE DEMONSTRATED BY APPLYING CLAUSE 5.3 - MEANS OF DEMONSTRATING COMPLIANCE OF AS/NZS 4586:2004 - SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.

IN GENERAL, THE CLASSIFICATION OF A SURFACING MATERIAL OR FINISH SHALL BE MADE ON A WORST CASE BASIS AS DETERMINED BY PENDULUM TESTING USING BOTH THE FOUR S AND TRL RUBBER SLIDER. WHERE ADDITIONAL TEST RESULTS ARE AVAILABLE (OIL -WET RAMP, WET/ BAREFOOT RAMP) THESE MAY BE TAKEN INTO CONSIDERATION.

## MAINTENANCE NOTES - DEFECTS

### LIABILITY

SUCH MAINTENANCE SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROVISIONS OF THE GENERAL CONDITIONS OF CONTRACT WITH RESPECT TO MAKING GOOD DEFECTS AND OTHER FAULTS DUE TO FAULTY REPAIR AND/OR WORKMANSHIP AND SHALL INCLUDE CLEANING UP AND REPAIR DUE TO STORM DAMAGE.

THE DEFECTS LIABILITY PERIOD SHALL BE FOR TWELVE MONTHS FROM THE DATE OF PRACTICAL COMPLETION.

## STORMWATER DRAINAGE NOTES

ALL STORMWATER DRAINAGE PIPES SHALL BE CLASS DWV uPVC.

ALL STORMWATER PIPES 675Ø OR GREATER SHALL BE FLUSH JOINTED.

ALL STORMWATER PIPES 600Ø OR SMALLER SHALL BE RUBBER RING JOINTED.

**FRC PIPES SHALL NOT BE USED.**

ALL STORMWATER BEDDING SHALL BE TYPE 'H2' U.N.O.

DE-WATERING WHERE REQUIRED TO BE AT THE CONTRACTORS COST.

INVERT LEVELS SHOWN ON PLAN ARE AT PIPE / STRUCTURE JUNCTION.

PIPE LENGTHS SHOWN ON PLAN / LONG SECTION ARE TO CENTRE OF STRUCTURE.

MINIMUM COVER TO STORMWATER PIPES TO BE AS FOLLOWS:  
PIPES IN ROADWAYS - 600MM COVER U.N.O  
PIPES IN LANDSCAPE AREAS - 450MM COVER U.N.O.

ALL STORMWATER MANHOLES SHALL BE IN ACCORDANCE WITH NORTHERN RIVERS COUNCIL STANDARD DWG NO. SD-02

ALL STORMWATER TO HAVE A HEAVY DUTY TRAFFICABLE LID U.N.O.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING GULLY PITS IN RELATION TO THE NOMINAL FACE OF KERB AND KERB AND CHANNEL.

THE CONTRACTOR SHALL VERIFY THE INVERT LEVEL AT THE CONNECTION WITH EXISTING STORMWATER PIPES PRIOR TO LAYING PIPES.

TRENCH BACKFILL TESTING SHALL BE CARRIED OUT ON EACH ALTERNATE COMPACTED LAYER AT A MAXIMUM 50m CENTRES AND NO MORE THAN 3m FROM MANHOLE STRUCTURE.

THE CONTRACTOR IS TO ENSURE THE METHOD OF COMPACTION OF THE BACKFILL IS SUITABLE FOR THE CLASS OF PIPE INDICATED ON THE DRAWINGS.

IF NECESSARY THE CONTRACTOR IS TO ADJUST HIS COMPACTION METHODS TO SUIT THE PIPE CLASS.

WHERE THE TRENCH IS EXCAVATED IN WATERLOGGED GROUND OR WHERE THE FOUNDATION IS CONSIDERED UNSUITABLE IN THE OPINION OF THE SUPERINTENDENT, A LAYER OF CRUSHED ROCK, 40MM TO 20MM SIZE OR OTHER MATERIALS APPROVED BY THE INSPECTING ENGINEER SHALL BE LAID IN A 500MM THICK LAYER BELOW THE CULVERT BASE OR PIPE. THESE AREAS ARE TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER TO ASSESS WHETHER FURTHER EXCAVATION IS REQUIRED OR OTHER MEASURES CAN BE ADOPTED.

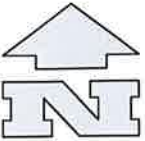
THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT A 'WORKS AS CONSTRUCTED' SURVEY TO SUBMIT DETAILS SHOWN ON PLAN TO THE SUPERINTENDENT AT COMPLETION OF CONSTRUCTION. 'WORKS AS CONSTRUCTED' SURVEY IS TO SHOW BUT NOT BE LIMITED TO LEVEL AND LOCATION OF ALL DRAINAGE STRUCTURES, PIPES SIZES AND INVERT LEVELS.

PRIOR TO WORKS GOING ON MAINTENANCE THE CONTRACTOR SHALL ARRANGE FOR A CCTV TO BE CARRIED OUT.

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SCALE 1:1000 (A1) 1:2000 (A3)

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Project No.	Drawing No.	Rev No.
7227	00C002	2

03.04.17	2	CONSTRUCTION ISSUE	BCM	LS
24.03.17	1	PRELIMINARY ISSUE	BCM	LS
Date	Issue	Amendment	Init	

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**WILEY**

Project

**NORTHERN RIVERS  
SALEYARDS  
REDEVELOPMENT**

DARGAVILLE DRIVE  
CASINO NSW 2470

Drawing Title

**CONSTRUCTION NOTES**

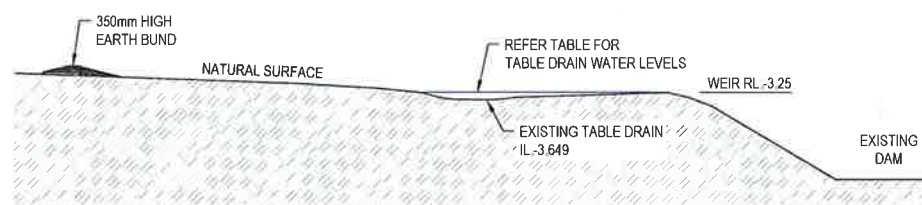
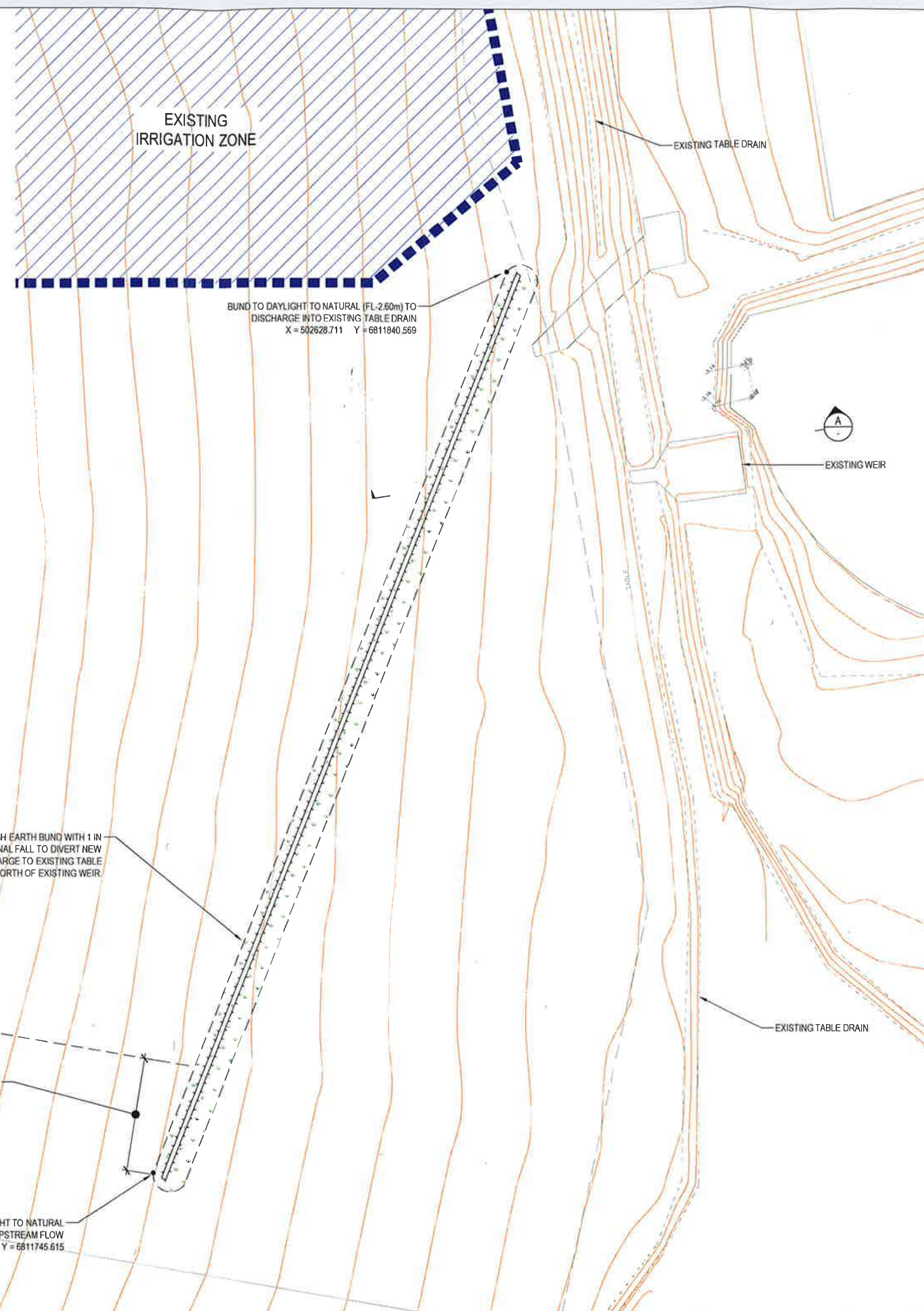
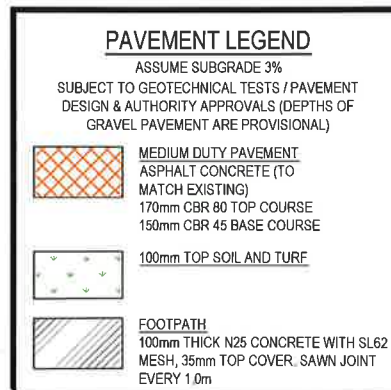
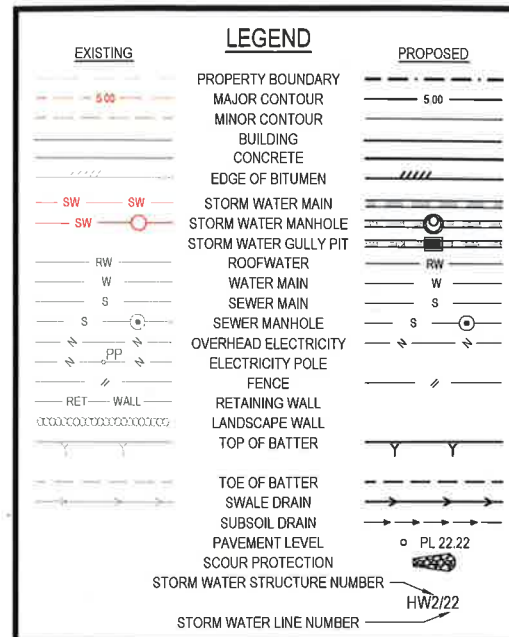
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Drawn	BCM	Date	24.03.17
Project No.	W15384		Bldg No.
			00
Drawing No.	00C002 - 2		
	Issue		

**FOR CONSTRUCTION**



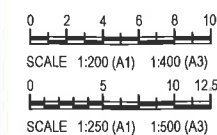
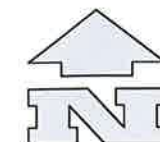






SECTION A-A  
SCALE 1:200 (A1) 1:400 (A3)

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Project No.	Drawing No.	Rev No.
7227	00C012	3

Date	Issue	Amendment	Init
24.04.17	3	CONSTRUCTION ISSUE	BCM
03.04.17	2	CONSTRUCTION ISSUE	BCM
24.03.17	1	PRELIMINARY ISSUE	BCM



Project  
**NORTHERN RIVERS  
SALEYARDS  
REDEVELOPMENT**

DARGAVILLE DRIVE  
CASINO NSW 2470

Drawing Title  
**STORMWATER DRAINAGE  
LAYOUT PLAN - SHEET 2**

Scale	AS SHOWN
Drawn	BCM
Date	24.04.17
Project No.	W15384
Bldg No.	00
Drawing No.	00C012
Issue	3

**FOR CONSTRUCTION**



STRUCTURE NAME	F1/1	EX2/1	EX3/1
STRUCTURE DESCRIPTION	OVERFLOW SURCHARGE PIT WITH GRATED LID REFER HYDRAULIC DRAWINGS FOR DETAILS	EXISTING FIELD INLET 600 X 600 GRATE	EXISTING CONCRETE HEADWALL TO GRASS SWALE
	400KL RAINWATER TANK REFER HYDRAULIC ENGINEER FOR DETAILS		
	NATURAL SURFACE		
	Q20 HGL		
	DEPTH AND SIZE OF EXISTING PIPE TO BE CONFIRMED PRIOR TO COMMENCEMENT OF WORKS		
PIPE SIZE (mm)	375Ø	375Ø	
PIPE CLASS	2	2	
PIPE GRADE (%)	2.87%	0.50%	
PIPE SLOPE (1 in X)	1 in 35	1 in 200	
FULL PIPE VELOCITY (m/s)	2.06	2.06	
PART FULL VELOCITY (m/s)	2.96	2.06	
DATUM RL	-8.0		
H.G.L IN PIPE & W.S.E IN STRUCTURE	6.279 6.279	5.460 5.500 5.107	4.725 4.725 4.725
PIPE FLOW (Cumecs)		0.227	0.227
PIPE CAPACITY AT GRADE (Cumecs)		0.297	0.124
DEPTH TO INVERT	1.250	1.006 1.026	0.405 0.405
INVERT LEVEL OF DRAIN	5.900	4.494 4.474	4.350 4.350
DESIGN SURFACE LEVEL	7.150	5.500	4.755
SETOUT COORDINATES	REFER TANK BUILDER	E 502404.508 N 681177.838	E 502416.550 N 6811696.064
CHAINAGE	0.000	48.936 48.936	24.855 73.791

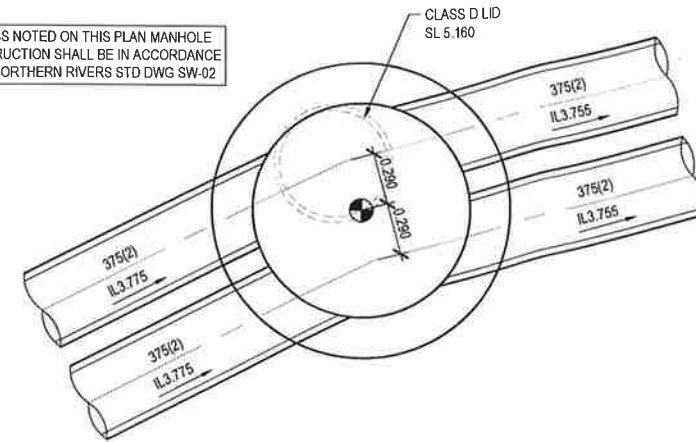
LINE

1

STRUCTURE NAME	F1/1	MH1/2	HW2/2
STRUCTURE DESCRIPTION	OVERFLOW SURCHARGE PIT WITH GRATED LID REFER HYDRAULIC DRAWINGS FOR DETAILS	Ø1500 MANHOLE WITH CLASS D LID REFER NORTHERN RIVERS STD DWG SW-02 FOR DETAILS	CONCRETE PRECAST HEADWALL TO SUIT 2xØ375 RCP PIPES
	400KL RAINWATER TANK REFER HYDRAULIC ENGINEER FOR DETAILS		
	NATURAL SURFACE		
	Q20 HGL		
	DEPTH AND SIZE OF EXISTING PIPE TO BE CONFIRMED PRIOR TO COMMENCEMENT OF WORKS		
PIPE SIZE (mm)	(2x)375Ø	(2x)375Ø	
PIPE CLASS	2	2	
PIPE GRADE (%)	2.96%	1.00%	
PIPE SLOPE (1 in X)	1 in 34	1 in 100	
FULL PIPE VELOCITY (m/s)	2.06	2.06	
PART FULL VELOCITY (m/s)	3.00	2.06	
DATUM RL	-8.0		
H.G.L IN PIPE & W.S.E IN STRUCTURE	6.239 6.239	4.718 4.741 4.554	3.510 3.510 3.510
PIPE FLOW (Cumecs)		0.455	0.455
PIPE CAPACITY AT GRADE (Cumecs)		0.603	0.351
DEPTH TO INVERT	1.250	1.384 1.404	0.829 0.829
INVERT LEVEL OF DRAIN	5.900	3.775 3.755	3.135 3.135
DESIGN SURFACE LEVEL	7.150	5.160	3.954
SETOUT COORDINATES	REFER TANK BUILDER	E 502424.573 N 6811730.473	E 502484.567 N 6811746.257
CHAINAGE	0.000	71.896 71.896	62.036 133.932

2

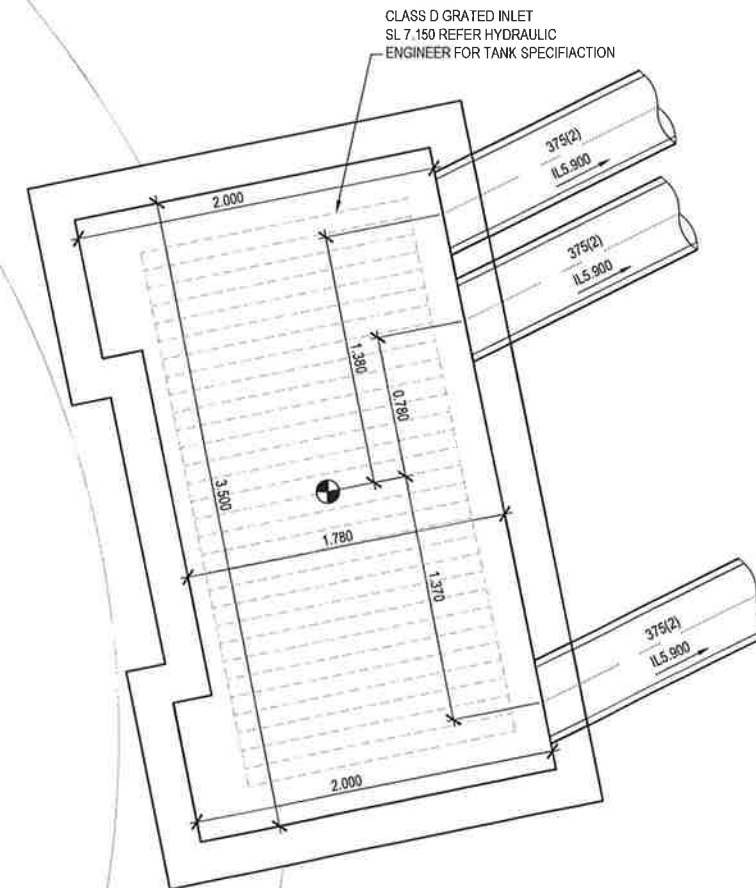
UNLESS NOTED ON THIS PLAN MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTHERN RIVERS STD DWG SW-02



MH1/2 - Ø1200 MANHOLE

SCALE 1:50

- DENOTES SETOUT POINT
- ⊕ DENOTES CENTRE OF MANHOLE



F1/1 - OVERFLOW SURCHARGE PIT

SCALE 1:50 REFER TANK BUILDER FOR PIT DETAILS

- DENOTES SETOUT POINT
- ⊕ DENOTES CENTRE OF MANHOLE

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SCALE 1:1000 (A1) 1:2000 (A3)

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Project No. 7227 Drawing No. 00C013 Rev No. 1

24.04.17 1 CONSTRUCTION ISSUE BCM LS



Project  
NORTHERN RIVERS  
SALEYARDS  
REDEVELOPMENT

DARGAVILLE DRIVE  
CASINO NSW 2470

Drawing Title  
STORMWATER DRAINAGE  
LONGITUDINAL SECTIONS

Scale AS SHOWN

Drawn BCM Date 24.03.17

Project No. W15384 Bldg No. 00

Drawing No. 00C013 Issue 1

FOR CONSTRUCTION



