## DRAWING LIS

DRAWING TITLE

C011492.09-DA20 C011492.09-DA10 C011492.09-DA25 DRAWING LIST & ROSION & ROSION & SEDIMENT SEDIMENT GENERAL NOTES CONTROL CONTROL DETAIL PLAN

C011492.09-DA45 C011492.09-DA40 C011492.09-DA46 CONCEPT CONCEPT CONCEPT STORMWATER DETAILS STORMWATER STORMWATER DETAILS DRAINAGE PLAN SHEET SHEET 2

C011492.09-DA50 FINISHED LEVELS PLAN

## **GENERAL** NOTES:

- <u></u> THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED THE ENGINEER BEFORE PROCEEDING WITH THE WORK. AS TO
- G2 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT STANDARDS AUSTRALIA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.

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- ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS. ENGINEER'S DRAWINGS ISSUED IN ANY ELECTRONIC FORMAT MUST NOT BE USED FOR DIMENSIONAL SETOUT. REFER TO THE ARCHITECT'S DRAWINGS FOR ALL DIMENSIONAL SETOUT INFORMATION.
- **G**4 DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- 5 UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
- 95 JOB ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH ACCEPTABLE SAFETY STANDARDS APPROPRIATE SAFETY SIGNS SHALL BE INSTALLED AT ALL TIMES DURING THE PROGRESS OF

## INFORMATION NOTES:

- THE ISSUED DRAWINGS IN HARD COPY OR PDF FORMAT TAKE PRECEDENCE OVER ANY ELECTRONICALLY ISSUED INFORMATION, LAYOUTS OR DESIGN MODELS.
- 2 CONTRACTOR. THE CONTRACTOR'S DIRECT AMENDMENT OR MANIPULATION OF THE DATA OR INFORMATION THAT MIGHT BE CONTAINED WITHIN AN ENGINEER-SUPPLIED DIGITAL TERRAIN MODEL AND ITS SUBSEQUENT USE TO UNDERTAKE THE WORKS WILL BE SOLELY AT THE DISCRETION OF AND THE RISK OF THE
- THE CONTRACTOR IS REQUIRED TO HIGHLIGHT ANY DISCREPANCIES BETWEEN THE DIGITAL TERRAIN MODEL AND INFORMATION PROVIDED IN THE CONTRACT AND/OR DRAWINGS AND IS REQUIRED TO SEEK CLARIFICATION FROM THE SUPERINTENDENT.
- THE ENGINEER WILL NOT BE LIABLE OR RESPONSIBLE FOR THE POSSIBLE ON-GOING NEED TO UPDATE THE DIGITAL TERRAIN MODEL, SHOULD THERE BE ANY AMENDMENTS OR CHANGES TO THE DRAWINGS OR CONTRACT INITIATED BY THE CONTRACTOR.

## STORMWATER D NOTE

- $\dot{\sim}$ DRAINAGE, PART 3: STORMWATER DRAINAGE.
  THE MINOR (PIPED) SYSTEM HAS BEEN DESIGNED FOR THE
  20 YEAR ARI STORM EVENT AND THE MAJOR (OVERLAND)
  SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 100 YEAR ARI ALL STORMWATE BE COMPLETED IN :2003 IN ACCORDANCE

  REPLY NEW TO THE PROPERTY OF TH
- STORM EVENT
- INDICATED IN THE
- ALL FINISHED PAVEMENT LEVELS S FINISHED LEVELS PLANS. PIT SIZES SHALL BE AS INDICATED PIPE SIZES AND DETAILS ARE PROV EXISTING STORMWATER PIT LOCAT TO BE CONFIRMED BY SURVEY PRIO ON SITE. LOCATION PROVIDED HE SCHEDULE

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- AND INVERT LEVELS COMMENCING WORKS SHALL JOINTS BE CLASS
- ALL STORMWATER F 2 REINFORCED CONCI NOTED OTHERWISE. ALL PIPES UP TO AN
- SN8. AND INCLUDING Ø300 TO BE uPVC GRADE

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- ALL CONCRETE PITS
  REINFORCED USING
  AND BASE. LAP MIN
  CONCRETE FOR PITS S GREATER 300mm WHERE REQUIRE CENTERED IN יייואבט. ALL. BRECAST bl. " ב PRECAST bl." SHALL
- 9 BE USED WITH TH IN ADDITION TO IT THICKNESS INCREA THAN 3000mm DEF SHALL HAVE WALLS TO 200mm RETE PITS GREATER AND BASE
- $\stackrel{:}{=}$ 5 FAUCETS, WITH NARROW EDGED I SUITABLE TAMPING DETAILS. WHERE PIPE LINES ENTER PITS, P STOCKING WRAPPED SLOTTED Ø PIPE IS FULLY PIPES SHALL BE L FILLING AROUND AID AS PER PIPE LAYING DETAILS.
  E SHALL BE TAKEN TO ENSURE THAT THE
  D EVENLY SUPPORTED. RAM AND PACK
  AND UNDER BACK OF PIPES AND PIPE ARROW EDGED RAMMERS , PROVIDE 2 ≪100 uPVC R
- E 2m LENGTH OF /C TO EACH SIDE 유

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12 UPSTREAM END OF LINE AND AT 30m MAX. CTS. PROVIDE SUBSOIL LINES TO ALL PAVEMENT/ LANDSCAPED INTERFACE TO REAR OF RETAINING WALLS (AS NOMINATED BY STRUCTURAL ENGINEED) AND ALLS (AS NOMINATED) AND STRUCTURAL ENGINEED) AND AND STRUCTURAL ENGINEED) AND STRUCTURAL ENGINEED AND STRUCTU ALL SUBSOIL DRAINAGE LINES SHALL BE \$100 SLOTTED uP WITH APPROVED FILTER WRAP LAID IN 300mm WIDE GRANULAR FILTER UNLESS NOTED OTHERWISE. LAY SUBSOLINES TO MATCH FALLS OF LAND AND/OR 1 IN 200 MINIMUM. PROVIDE CAPPED CLEANING EYE (RODDING POINT) AT

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- ALL PIPE GRADES 1 IN 100 MINIMUM UNO. PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm MIN. 600 COVER TO PIPE OBVERT BENEATH ROADS 8 INEER) AND AS SHOWN ON PLAN. 1 IN 100 MINIMUM UNO.
- 6 COVER BENEATH LA PIT COVERS IN TRA 'HEAVY DUTY', THO SHALL BE CLASS B PROVIDE CLEANING H LANDSCAPED AND PEDESTRIAN AREAS RAFFICABLE PAVEMENT SHALL BE CLAS THOSE LOCATED IN NON-TRAFFICABLE AS B'MEDIUM DUTY' U.N.O. .DS & MIN. .N AREAS. . BE CLAS:
- 8 17. G EYES (RODDING POINTS) TO PIPES AT ALL JUNCTIONS WHERE NO PITS ARE PRESENT. TO BE AS PER HYDRAULIC ENGINEERS NNECTOR TO MATCH DP SIZE U.N.O. ON
- 19 DOWN PIPES (DP) T DETAILS WITH CONI PROVIDE CLEANING PIPE LENGTHS NOMI MEASURED FROM CE DO NOT REPRESENT ALLOW FOR THIS G EYE AT GROUND LEVEL. MINATED ON PLAN OR LONGSECTIONS ARE CENTER OF PITS TO THE NEAREST 0.5m AN NT ACTUAL LENGTH. THE CONTRACTOR IS NEAREST 0.5m AND CONTRACTOR IS TO

## ROSION CONTROL NOTE

COMPLETION CONTROL WORK INCLUDING DIVERSION BANKS / D SILT FENCES SHALL BE COMPLETED AND CATCH DRAINS, D DIRECTLY FOLLOWING

- ES AND SILT FENCE RETURNS SHALL TO POND WATER. BΕ ERECTED CONVEX

- CONSTRUCTION REQUIRED DURING

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- ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING, TRAPI MATERIAL IS TO BE REMOVED TO A SAFE, APPROVED LOCATION. ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE MAINTAINED UNTIL THE
- DEFECTS LIABILITY PERIOD. EARTHWORKS AREAS SHALL BE ROLLED ON A REGULAR L THE EARTHWORKS.

- APPROVED FOR SUCH SHALL

- METHODS APPROVED BY THE SITE MANAGER FOR THE REMOVAL OF SOIL MATERIALS FORM MOTOR VEHICLES.

  16. THE CONTRACTOR IS TO ENSURE RUNOFF FROM ALL AREAS WHERE THE NATURAL SURFACE IS DISTURBED BY CONSTRUCTION, INCLUDING ACCESS ROADS, DEPOT AND STOCKPILE SITES, SHALL BE FREE OF POLLUTANTS BEFORE IT IS EITHER DISPERSED TO STABLE AREAS OR DIRECTED TO NATURAL WATERCOURSES.

  17. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SLOPES, CROWNS AND DRAINS ON ALL EXCAVATIONS AND EMBANKMENTS TO ENSURE SATISFACTORY DRAINAGE AT ALL TIMES WATER SHALL NOT BE ALLOWED TO POND ON THE WORKS UNLESS SUCH PONDING IS PART OF AN APPROVED ESCP / SWMP.

ITE PREPARATION NOTES

EXISTING SITE LEVELS AND DETAILS BASED ON A PLAN OF SURVEY SY073101.000 BY LAND PARTNERS SURVEYORS 6/4/12. COORDINATES BASED ON MGA COORDINATES AS NOMINATED ON DRAWING 73101-3D-DETAIL BY LAND PARTNERS DATED 6/4/12

- BE INSPECTED

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- AND HYDROMULCHED WITHIN

- TOE OF BATTER, PRIOR TO COMMENCEMENT OF EARTHWORKS, IMMEDIATELY AFTER CLEARING OF VEGETATION AND BEFORE REMOVAL OF TOP SOIL.

  ALL TEMPORARY EARTH BERMS, DIVERSION AND SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED AND MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.

  CLEAR WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM.

  THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROVIDING ON GOING ADJUSTMENT TO EROSION CONTROL MEASURES AS REQUIRED DURING

- THE SLOPE
- ALL FILL AREAS ARE TO BE LEFT WITH A BUND AT THE TOP OF THE SLOP AT THE END OF EACH DAYS EARTHWORKS. THE HEIGHT OF THE BUND SHALL BE A MINIMUM OF 200MM.

  O. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND HYDROMULCHED WITH 10 DAYS OF COMPLETION OF FORMATION.

  AFTER REVEGETATION OF THE SITE IS COMPLETE AND THE SITE IS STABLIN THE OPINION OF A SUITABLY QUALIFIED PERSON ALL TEMPORARY WOR SUCH AS SILT FENCE, DIVERSION DRAINS ETC SHALL BE REMOVED.

  SATISFACTION OF THE SITE MANAGER TO PREVENT WIND AND WATER
- ANY AREA THAT IS NOT APPROVED BY THE CONTRACT ADMINISTRATOR FOR CLEARING OR DISTURBANCE BY THE CONTRACTOR'S ACTIVITIES SHALL BE CLEARLY MARKED AND SIGN POSTED, FENCED OFF OR OTHERWISE APPROPRIATELY PROTECTED AGAINST ANY SUCH DISTURBANCE.

  4. ALL STOCKPILE SITES SHALL BE SITUATED IN AREAS APPROVED FOR SUCH USE BY THE SITE MANAGER. A 6m BUFFER ZONE SHALL EXIST BETWEEN STOCKPILE SITES AND ANY STREAM OR FLOW PATH. ALL STOCKPILES SHALL BE ADEQUATELY PROTECTED FROM EROSION AND CONTAMINATION OF THE SURROUNDING AREA BY USE OF THE MEASURES APPROVED IN THE EROSION AND SEDIMENTATION CONTROL PLAN.

  5. ACCESS AND EXIT AREAS SHALL INCLUDE SHAKE-DOWN OR OTHER METHODS APPROVED BY THE SITE MANAGER FOR THE REMOVAL OF SOIL MATTORY OF THE MEASURES APPROVAL OF SOIL

THE EARTHWORKS

GUIDE

ELINES SPECIFIED BY THE GEOTECHNICAL REPORT PSM2343-004R PROVIDED BY S SULLIVAN MEYNINK DATED FEB 2014.

2012.

ARTHWORKS SHALL BE COMPLETED GENERALLY IN ACCORDANCE WITH THE

- CONSULTANTS TITLED SY073101.000 DATED 01 JUNE STRIP ANY TOP SOIL OR DELETERIOUS MATERIAL AN TING LEVELS ARE BASED ON INFORMATION PROVIDED BY LAND PARTNERS ANY TOP SOIL OR DELETERIOUS MATERIAL AND BLEND INTO BATTER TOPSOIL

COMPI

MATERIAL OR STORE AS DIRECTED.

INDIC,

BUILDING PADS/PAVEMENTS AND +0mm/-20mm ELSEWHERE

LETE CUT TO FILL EARTHWORKS TO ACHIEVE THE REQUIRED LEVELS AS ATED ON THE DRAWINGS WITHIN A TOLERANCE OF +0mm/-10mm THROUGH

1000mm ROCK BELOW BULK EARTHWORKS LEVEL (BEL) IN AREAS OF CUT TO BE

D AND RECOMPACTED IN ACCORDANCE WITH GEOTECHNICAL ADVICE AS 'SITE

- 4
- RIPPE TOP
- MON FACILITATE FILL PLACEMENT AND COMPACTION. PREPARE STEEP BATTERS TO RECEIVE FILL BY CONSTRUCTING BENCHING TO FROM AREAS OF CUT IN ROCK.

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MON

IN AREAS OF FILL, THE TOP 500mm IS TO COMPRISE OF SELECT CRUSHED ROCK, SITE

SHALL BE PROOF ROLLED TO IDENTIFY ANY SOFT HEAVING MATERIAL. SOF MATERIAL SHALL BE BOXED OUT AND REMOVED PRIOR TO FILL PLACEMENT AREA S TO RECEIVE FILL (THAT ARE NOT ON BENCHED BATTERS) AND AREAS IN CUT

SOFT

- TO 100% STANDARD AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT WON FILL TO BE PLACED IN MAXIMUM 300mm LOOSE LAYERS AND COMPACTED
- 5 IMPORTED FILL SHALL BE PLACED IN MAXIMUM 300 mm LOOSE LAYERS AND COMPACTED TO 100% STANDARD AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT.
- = COMPACTION LAYER THICKNESS AND/OR TWO THIRDS THE LAYER THICKNESS AFTER MAXIMUM PARTICLE SIZE TO BE THE SMALLER OF 150mm OR HALF THE (LOOSE)
- ARTHWORKS SHALL BE COMPLETED UNDER LEVEL 1 CONTROL IN ACCORDANCE AS 3798-2007
- 끖 SEDIMENTATION CONTROL PLAN SHALL BE COMPLETED. PRIOR TO ANY EARTHWORKS, EROSION CONTROL AS OUTLINED IN THE EROSION AND
- EXISTING ROCK, IF ANY, SHALL BE REMOVED BY HMATCH EXISTING LEVELS AT BATTER INTERFACE. SHALL BE REMOVED BY HEAVY ROCK BREAKING OR RIPPING
- AND EXISTING SURFACE AT BATTER LOCATIONS OR WHERE NO RETAINING WALLS ARE PRESENT. ANY DISCREPANCY BETWEEN DESIGN AND EXISTING LEVELS TO BE REFERRED TO THE ENGINEER FOR DIRECTION OR ADJUSTMENTS TO DESIGN LEVELS CONTRACTOR TO MATCH EXISTING LEVELS AT THE INTERFACE OF EARTHWORKS

## NIS P AN NOTES:

- VELS DATUM IS A.H.D. L CONTOUR LINES & SPOT LEVELS INDICATE FINISHED PAVEMENT LEVELS U.N.O. ON

- 0.04THE MAJOR CONTOUR INTERVAL IS 0.5m
  THE MINOR CONTOUR INTERVAL IS 0.1m.
  MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%).
  MAXIMUM PAVEMENT GRADE IS TO BE 1:20 (5%) IN CARPARKING AREAS AND 1:25 (4%) **EWHERE**
- 7. 8. 9. 9. AXIMUM RAMP GRADES ARE TO BE 1:12 (8.3%) U.N.O. ON PLAN OVIDE MINIMUM 3.0m LONG TRANSITION WHERE CHANGES GRADE EXCEDE 1:20 (5%). RMANENT BATTER SLOPES ARE TO HAVE A MAXIMUM GRADE OF 1V:3H. L BATTER SLOPE WITH GRADES AT OR EXCEDING 1V:6H ARE TO BE TURFED MEDIATELY OR APPROPRIATE EROSION CONTROL IS TO BE PROVIDED TO THE ATISFACTION OF THE ENGINEER.
- ACCESS ROAD TO THE HARDSTAND AREA IS TO HAVE A CROSSFALL OF 2% AS
- DICATED ON PLAN. I FOOTPATHS ARE TO FALL AWAY FROM THE BUILDING AT 2.5% NOMINAL. GRADE. IL PAVEMENTS ARE TO BE SET AT 50mm BELOW THE FINISHED FLOOR LEVEL OF THE AREHOUSE AND OFFICE AREAS.

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FOR DEVELOPMENT APPLICATION

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DRAWING LIST AND GENERAL NOTES

Value in Engineerin 9 and Management

C011492.09-DA10