RESIDENTIAL DEVELOPMENT 128 HERRING ROAD **MACQUARIE PARK**

- . Strip all topsoil from the construction area. All stripped topsoil shal
- 2. Sirgi all topsoil from the construction area. All stripped topsoil shall be disposed of off-site unless directed otherwise.

 3. Mide smooth connection with all existing works.

 4. Compact subgrade under buildings and powements to minimum 98% standard maximum and yelensity in accordance with AS 1289 5.11. Compaction under buildings to extend 2m minimum beyond building footprint.

 5. All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority is to be carried out in accordance with the requirements of the relevant Authority, the Contractor shall obtain these requirements from the Authority, which controls requirements of the Authority shall be applicable.

 6. For all temporary batters refer to geotechnical recommendations.

These drawings have been based from, and to be read in conjunction with the following Consultants drawings. Any conflict to the drawing must be notified immediately to the Engineer.

Consultant De	g Title	Dwg No	Rev	<u>Date</u>
Barrie Green	Survey Plans	6041	D	24.08.09
Turner & Associates	Architect Plans	09047-A126	0	27.09.10
Turner & Associates		09047-A127	Ρ	27.09.10
Turner & Associates		A171-A176	F	02.09.10
Turner & Associates		A177	С	02.09.10

PIT SCHEDULE

A Kerb inlet pit 450 x 900 Class D galvanised mild 2,3,6 900 lintel steel grate hinged to frame 13,14	<u>Note</u> Type	Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets - C209 Type Description Cover (Clear Opening) Numb					
	_	Kerb inlet pit	450 x 900 Class D galvanised mild	2,3,8,9 13,14,1 23,24			

	900 lintel	steel grate hinged to frame	2,3,6,9,10 13,14,17, 23,24	
В	Surface inlet pit	900 x 900 Class D galvanised mild steel grate hinged to frame	19	
	Junction pit	600 x 900 Class D cast iron cover with concrete infill	1	
	рі	900 x 900 Class D cast iron cover with concrete infill	20	
С	GPT	Rocla CDS unit 0708 Class C access cover	6,11,15,16 18,21	
D	Headwall	Concrete Headwall – size to suit outlet pipe	4,5,25,26	

STORMWATER DRAINAGE NOTES

unoff coefficients –

Roof areas: C₂₀₀ = 1.0

Roads and paved areas: C₂₀ = 0.95

Landscaped areas: C₂₀ = 0.56

- Londscaped oreos: Cs = 0.56

 2. Pipes 300 dis and larger to be reinforced concrete Class "2" approved spipot and socket with rubber ring joints U.N.O.

 3. Pipes up to 300 dis shall be sever grade uPVC with solvent welded joints.

 4. Equivalent strength VCP or FCP pipes may be used subject to approval.

 5. Pirecust pils may be used extend to the building subject to approval by Superintender.

 6. Interest piles are less than 300 dis.

 7. Where subsoil durins pass under floor slobs and vehicular powements, unsoloted uPVC sever grade pipe is to be used.

 8. Crotes and covers shall conform with AS 3996-2006, and AS 1428.1 for access requirements.

 9. Pipes are to be installed in coordance with AS 3725. All bedding to be type HZ U.N.O.

 10. Care is to be installed in coordance with AS 3725. All bedding to be type HZ U.N.O.

 10. Care is to be ticken with levels of stormwater lines. Grades shown ore not to be reduced without approval.

 11. All stormwater lives for pipe installation (grades shown are only nominal).

JOINTING NOTES

- ehicular Pavement Jointing
- Sawn joints should generally be located at a maximum of 6m
- maximum of 30m centres.

 4. Provide Unram wide full depth expansion joints between buildings and all concrete or unit powers.

 5. Vehicular powernent jointing as follows.

 6. The timing of the sow out is to be confirmed by the contractor on site. Site conditions will determine how money hours after the concrete pour before the sow out so are commenced. Refer to the specification for weather conditions and temperatures required.

١				FACE	0 F	KERB	i	
	3	KJB	ľS	3	उ	1 1	3	īs.
┪			6m MAX			6m MAX		
١		KJ			!	٦	!	
١	i				30m MAX		i	i
1		KJ						
١					i		i	i
1		EJ	F A	CE	F BU	ILDI	N G	
.	_	LJ	T A	L L U	r Bu	ILDI	ט א	<u> </u>

Pedestrian Footpath Jointing

- Tecesarian Todapor Sontang

 1. Expansion joints are to be located where possible at tangent points of curves and elsewhere at max 6.0m centres.

 2. Weakened plane joints are to be located at a max 1.5 x width of the power
- l. All pedestrian footpath jointings as follows (uno).

	1	ACE	0 F	KER	В		_
<u>€</u>	Q.	3		≩	€	3	٠,
		Ĺ		6.0m	1.5 x MAX	W (1.5m	MAX)

CONCRETE NOTES

EXPOSURE CLASSIFICATION

1. Place concrete of the following characteristic compressive

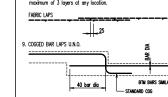
strength 1c as defined in AS 13/9.					
Location	AS 1379 f'c MPa at 28 days	Specified Slump	Nominal Agg. Size		
Pits, kerbs, footpaths Footings Vehicular pavements	S(25) S(32) SF(32) at 90 days	80 80 80	20 20 20		
Use Type 'GP' cemen All concrete shall b	t, unless otherwise e subject to proje	specified. ect assessr	ment and		

- 3. All concrete shall be subject to project assessment and testing to AS 137.
 4. Consolidate by mechanical whrotian. Cure all concrete surfaces as directed in the Specification.
 5. For all falls in slot, drip grooves, reglets, chamfers etc. refer to Architects drawings and specifications.
 6. Unless shown on the drawings, the location of all construction prints shall be samitted to Engineer for review.
 7. No hotes or chapes shall be mode in the slot without the approval of the Engineer.
 6. Conduits and pipes are the fixed to the underside of Surry used to Marchine Concrete pump lines is not to be used in any structural members.

REINFORCEMENT NOTES

- Provide bar supports or spacers to give the following concrete cover to all reinforcement unless otherwise
- D. Protote two servers of all reinforcement to more concrete cover to all reinforcement to more concrete cover to all reinforcement to more concrete covers of the concrete concre
- generally. when cast in forms but later exposed to
- when cost in forms but size expuses use weather or ground, and the cost directly in contact with ground.

 3. Cover to reinforcement ends to be 45 mm u.m. of the cost of th



CONCRETE FINISHING NOTES

All exposed concrete powernents are to be broamed finished.
 All edges of the concrete powernent including keyed and dowelled joints are to be finished with an edging tool.
 Concrete powernest with grower septe

- Includes all kerbs, gutters, dish drains, crossings and edges.
- Includes all kerbs, gutters, dish drains, crossings and edges.

 1. All kerbs, gutters, dish drains and crossings to be constructed on minimum 75mm granular basecourse compacted to minimum 95% modified maximum dry density in occordance with AS 1289 5.2.1.

 2. Expansion juints (£)) to be formed from 10mm compressible cort filter board for the full depth of the section and cut to profile. Expansion juints to be located at drainage pits, to tangent points of curves and elsewhere at 12m centres except for integral kerbs where the expansion juints one to match the joint locations in sides.

 3. Wedkened plane pints to be min 3mm withe and located at 5m centres except for integral kerbs where wedkened plane pints are to match the joint locations in sides.

 4. Browned finished to all ramped and vehicular crossings, all other kerbing or dish drains to be steel float finished.

 5. In the replacement of kerbs —
 Existing road powement is to be saucut 900mm from lip of
- ixisting road pavement is to be sawcut 900mm from lip of
 - gutter. Upon completion of new kerbs, new basecourse and surface is to be laid 900mm wide to match existing materials and thicknesses. Existing allotment drainage pipes are to be built into the new kerb with a 100mm dia hole. natur mitti a ruumm dia hole. Existing kerbs are to be completely removed where new kerbs are shown.

BULK EARTHWORKS NOTES

- All bulk carbworks sebut from grid lines U.N.O.
 All balters at a slope of 2 (H): 1 (V) U.N.O.
 3. Exemeted material may be used as structural fill provided,
 (i) it complies with the specification requirements for fill material,
 (ii) the placement moisture content complies with the Gootechnical
 Consultants requirements, and dilons filling to be placed and
 prooffelied in accordance with the specification. Where
 percessary the Contractor must meisture according to
- 4. Compact fill areas and subgrade to not less than:

Location	Standard dry density (AS 1289 5.1.1.)	Moisture (OMC)
Under building slabs on ground:	98%	±2%
Under roads and carparks:	98%	±2%
Landscaped areas:	95%	±2%

- 5. Before placing fill, proof roll exposed subgrade with a 10 tonne minimum roller to test subgrade and then remove soft spots (areas with more than 3mm novement under roller). Soft spots to be replaced with select fill UN.O. 6. Contractor shill place selety burstlers around excretions in accordance with relevant selety regulations. For interpretation of bulk earthworks foot print line shown on the bulk earthworks drawings refer to the bulk earthworks construction.
- legend.

 B. Bulk earthwork drawings are not to be used for detailed excavation

 Refer to Centechnical Report

SIGNS AND LINE MARKING NOTES

- l. Povement marking and sign posting on public roads shall be in accordance with the requirements of the relevant Road Authority. The contractor shall obtain these requirements from the Road.
- New Controller some more from the RTAL Authority.

 1- Powerest marking and sign posting to be in accordance with RTAL interim Guide to Signs and Markings.

 2. Contractor is to provide guide posts, spaced in accordance with ASTAL2. They are to be located near all head walls and pipe military.
- be removed. i. Lane widths do not include width of gutter.
- Lone widths do not include width of quiter.
 Libr morking join does not define boundries.
 Erect temporary sign 'changed traffic conditions ahead 120m ahead of new work in both directions.
 Establish the location of existing utility services and locate new signs clear of these installations.
 The sloped face of the ST median kerbs which odjoin through lanes, are to be pointed white in lise of an SI deglie line. For effective powernest markers normally associated with an SI degle line are to be located on the powernet objoint to the ST kerb.
 Bicycle powernent markings and sign posting to be in accordance with Justratosk Standards.
- Bicycle powement markings and sign posting to be in accordance with Austroads Standards.
 The design of major directional sign posting to be prepared and assessed by the R.T.A.

SURVEY AND SERVICES INFORMATION

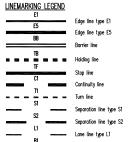
orgin of levels A.H.D. AUSTRALIAN HEIGHT DATUM
Coordinate system : ISG OR MGA OR LOCAL
Survey prepared by :
Setout Points : CONTACT THE SURVEYOR
CONTACT THE SURVEYOR

Taylor Thomson Whitting does not guarantee that the survey information shown on these drawings is accurate and will accept no liability for any inaccuracies in the survey information provided to us from any cause whatsoever.

UNDERGROUND SERVICES - WARNING The locations of underground services shown on Taylor Thomson Whittings drawings have been plotted from diagrams provided by service authorities. This information has been prepared solely for the authorities own use and may not necessarily be updated or occurate.

- The position of services as recorded by the authority at the time of installation may not reflect changes in the physical environment subsequent to installation.
- Taylor Thomson Whitting does not guarantee that the services information shown on these drawings shows more than the presence or desence of services, and will accept no liability for inaccuracies in the services information shown from any cause whotsoever.
- The Contractor must confirm the exact location and extent of services prior to construction and notify any conflict with the drawings immediately to the Engineer/Superintendent. The contractor is to get approval from the relevant state survey department, to remove any survey mark. This includes but is not limit to State Survey Marks (SSN), Permanent Marks (PM), codastrial reference marks or any other survey mark which is to be removed or odjusted in any vay.

 Taylor Thomason Whitting plans do not indicate the presence of any survey mark. The contractor is to undertake their own search.



Line marking to be in accordance with AS1742.2 and the

SITEWORKS NOTES

- All basecourse material to comply with RTA specification No 3051 and compacted to minimum 98% modified standard dry density in accordance with AS 1289 5.2.1.
 All trench backlill material shall be compacted to the same density as the adjacent material.
- us are augusern material.

 3. All service trenches under vehicular pavements shall be backfilled with an approved select material and compacted to a minimum 98% standard maximum dry density in accordance with AS 1289 5.1.



Contour

Kerb line

Retaining wall

Gas line

Water main

Sewer line

Easement

Sewer Manhole Energy Australia (Electricity)

Electric Light Pole

Traffic Light Box

Parking Meter Permanent Mari

Bench Mark

Fuel Cock

Lamp Hole

Traffic Light

Stormwater drainag

Batter

_____ W ____

EASEMENT FOR _____(__m WIDE)

⊗ ⊕

TRAP

TB

△BM 51.10

_____s ___

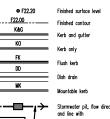
_____ SW ___

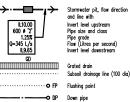


80mm Povers to Architects specification on 30mm Thick mortor bedding on 180mm Thickness concrete (fc=32MPc) with S.1.72 fabric (40 top cover) on 100mm Compacted thickness fine crushed rock (0G820)

NOTE
Asphaltic concrete shall conform to AS2150 and the specification

SITEWORKS LEGEND ● F22.20









----SJ_____Sawn joint KJ Keyed construction join WPJ --- Weakened plane joint EJ ---- Expansion joint — ← Grass catch drain Correction of the correcti

CIVIL DRAWING LIST

Drawing No Drawing Title

NOTES AND LEGEND SHEET BUILDING A CONSTRUCTION - STAGED STORMWATER CONCEPT PLAN C103 BUILDING A CONSTRUCTION - SITEWORKS PLAN SHEET 1 BUILDING A CONSTRUCTION - SITEWORKS PLAN SHEET 2 BUILDING A CONSTRUCTION - FROSION AND SEDIMENT CONTROL PLAN

BUILDING B CONSTRUCTION - OVERALL PLAN BUILDING B CONSTRUCTION - SITEWORKS PLAN SHEET 1 BUILDING B CONSTRUCTION - SITEWORKS PLAN SHEET 2

ROAD CROSS SECTIONS - SHEET 1 ////
ROAD CROSS SECTIONS - SHEET 2

DETAILS SHEET 1

BUILDING C CONSTRUCTION - SITEWORKS PLAN BUILDING D CONSTRUCTION - SITEWORKS PLAN BUILDING F CONSTRUCTION - SITEWORKS PLAN

OVERALL (BUILDINGS A - F) SITEWORKS PLAN OVERALL (BUILDINGS A - E) EROSION AND SEDIMENT CONTROL PLAN

RESIDENTIAL DEVELOPMENT MACQUARIE PARK

NOTES AND LEGENDS

LIPMAN

Plot File Created: Sep 29, 2010 - 12:53pm

TaylorThomsonWhitting

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TURNER + ASSOCIATES