NSW HEALTH

Liverpool Hospital Redevelopment - Stage 2

Infrastructure and Ancillary Hospital Works

Project Application and Environmental Assessment

Appendix D

Northern Link Road

- Siteworks plan
- Landscaping plan

Prepared by: LFA (Pacific) Pty Ltd and Capital Insight Pty Ltd

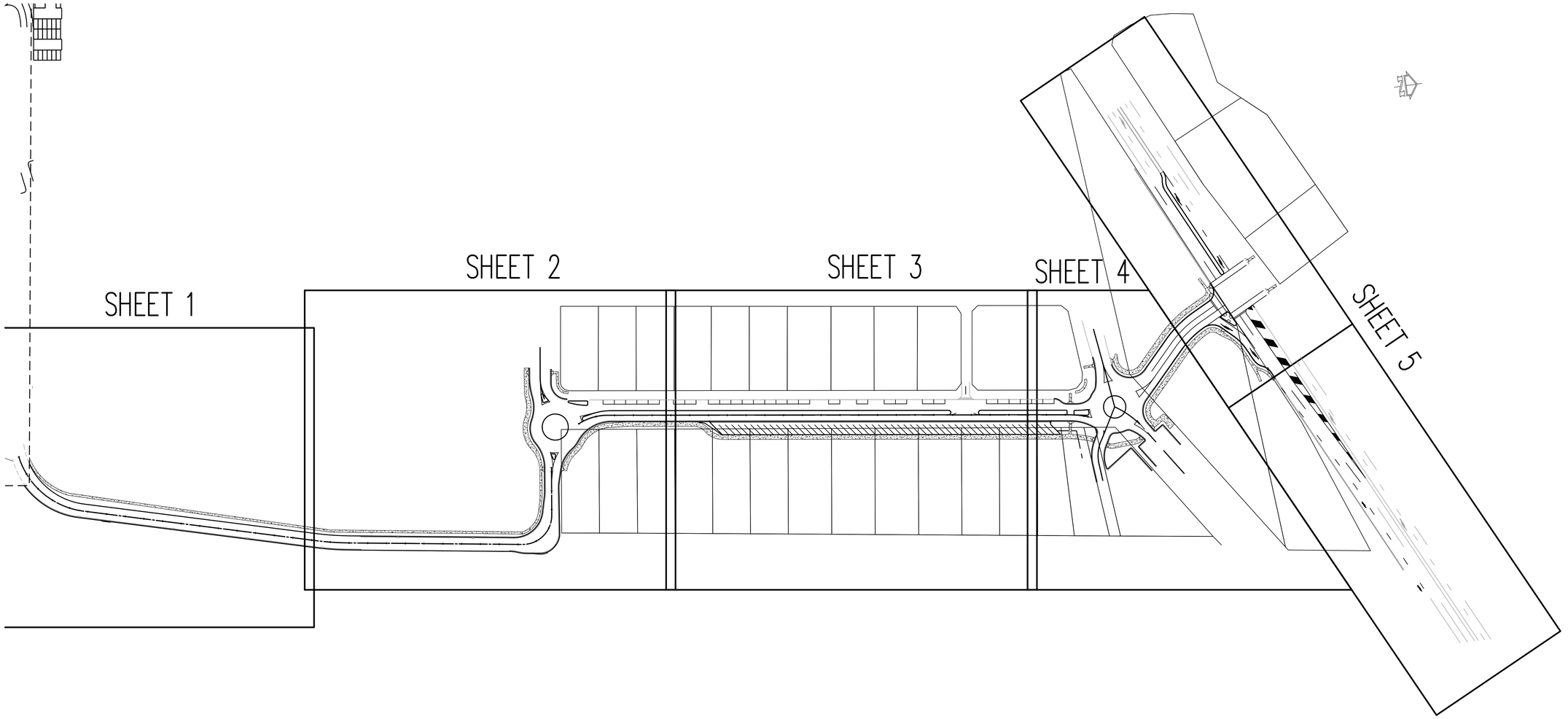
In conjunction with: Taylor Thomson Whitting

For: Department of Planning

On behalf of : NSW Health

October 2008

CIVIL WORKS FOR LIVERPOOL HOSPITAL
NORTHERN LINK ROAD & HART STREET UPGRADE



CIVIL DRAWING LIST

Drawing No	Drawing Title	
C00	TITLE SHEET, DRAWING LIST & LOCALITY PLAN	
C01	NOTES AND LEGEND SHEET	
C02	SITEWORKS PLAN SHEET 1	
C03	SITEWORKS PLAN SHEET 2	
C04	SITEWORKS PLAN SHEET 3	
C05	SITEWORKS PLAN SHEET 4	
C06	SITEWORKS PLAN SHEET 5	HOLD – NOT PART OF PROJECT SUBMISSION
C07	SITEWORKS DETAIL PLAN	
C08	TYPICAL ROAD SECTIONS PLAN	
C09	ROAD LONGITUDINAL PLAN	
C10	NOT USED	
C11	ROAD CROSS SECTION PLAN SHEET 1	
C12	ROAD CROSS SECTION PLAN SHEET 2	
C13	NOT USED	
C14	NOT USED	
C15	SETOUT PLAN SHEET 1	HOLD – NOT PART OF PROJECT SUBMISSION
C16	SETOUT PLAN SHEET 2	
C17	SETOUT PLAN SHEET 3	
C18	SETOUT PLAN SHEET 4	
C19	NOT USED	
C20	SETOUT TABLES	
C21	EROSION & SEDIMENT CONTROL PLAN SHEET 1	
C22	EROSION & SEDIMENT CONTROL PLAN SHEET 2	
C23	EROSION & SEDIMENT CONTROL PLAN SHEET 3	
C24	EROSION & SEDIMENT CONTROL PLAN SHEET 4	
C25	NOT USED	

PRELIMINARY

Rev	Description	Eng	Draft	Date
P2	ISSUE FOR PROJECT SUBMISSION	PL	CR	23.10.08
P1	PRELIMINARY	PL	CR	19.09.08

Project

LIVERPOOL HOSPITAL - NORTHERN LINK ROAD & HART STREET UPGRADE

Sheet Subject

TITLE SHEET, DRAWING LIST & LOCALITY PLAN

Architect

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SUITE 4, 2 NEW MCLEAN STREET
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Scale : B1	Drawn	Authorised
1:1000	C.R	P.L

Job No	Drawing No	Revision
071850	C00	P2

Plot File Created: Oct 23, 2008 - 1:30pm

GENERAL NOTES

1. Contractor must verify all dimensions and existing levels on site prior to commencement of works. Any discrepancies to be reported to the Engineer .
2. Strip all topsoil from the construction area. All stripped topsoil shall be disposed of off-site unless directed otherwise.
3. Make smooth connection with all existing works.
4. Compact subgrade under buildings and pavements to minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1. 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. Where the requirements of the Authority are different to the drawings and specifications, the requirements of the Authority shall be applicable.
6. For all temporary batters refer to geotechnical recommendations.

PIT SCHEDULE

Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets – **C07**

Type	Description	Cover (Clear Opening)	Number
A	Kerb inlet pit 2.4m lintel	'Sag pit' 450 x 900 Class D galvanised mild steel grate hinged to frame	1,2,3,4,5,6,7,29,30
		'On grade pit' 450 x 900 Class D galvanised mild steel grate hinged to frame	10,11,12,13,15,17,23,25,26,27,28
B	Junction pit	600 x 900 Class D cast iron cover with concrete infill	14
C	Headwall	Concrete headwall to suit 300x750 RCBC	8,16
D		Existing pit to remain	9,24
E	'V' drain	450 x 900 Class D galvanised mild steel grate hinged to frame	18,19,20,21,22

EROSION AND SEDIMENT CONTROL NOTES

1. All work shall be generally carried out in accordance with
   (A) Local authority requirements,
   (B) EPA – Pollution control manual for urban stormwater,
   (C) Department of conservation and land management manual– "Urban Erosion & Sediment Control".
2. Erosion and sediment control **drawings and notes** are provided for the whole of the works. Should the Contractor stage these works then the design may require to be modified. Variation to these details may require to be approved by the relevant authorities. The erosion and sediment control **plan** shall be implemented and adopted to meet the varying situations as work on site progresses.
3. Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
5. Minimise the area of site being disturbed at any one time.
6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
7. All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
8. Control water from upstream of the site such that it does not enter the disturbed site.
9. All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
10. All vehicles leaving the site shall be cleaned and inspected before leaving.
11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
12. Clean out all erosion and sediment control devices after each storm event.

Sequence Of Works

1. Prior to commencement of excavation the following soil management devices must be installed.
1.1. Construct silt fences below the site and across all potential runoff sites.
1.2. Construct temporary construction entry/exit and divert runoff to suitable control systems.
1.3. Construct measures to divert upstream flows into existing stormwater system.
1.4. Construct sedimentation traps/basin including outlet control and overflow.
1.5. Construct turf lined swales.
1.6. Provide sandbag sediment traps upstream of existing pits.
2. Construct geotextile filter pit surround around all proposed pits as they are constructed.
3. On completion of pavement provide sand bag kerb inlet sediment traps around pits.
4. Provide and maintain a strip of turf on both sides of all roads after the construction of kerbs.

SURVEY AND SERVICES INFORMATION

SURVEY

Origin of levels : PM 15953 RL 8.844
Datum of levels : A.H.D. AUSTRALIAN HEIGHT DATUM
Coordinate system : MGA
Survey prepared by : JMD
Setout Points : 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 accurate.

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 absence of services, and will accept no liability for inaccuracies in the services information shown from any cause whatsoever.

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 relevant the state survey department, to remove any survey mark. This includes but is not limited to; State Survey Marks (SSM), Permanent Marks (PM), cadastral reference marks or any other survey mark which is to be removed or adjusted in any way.
Taylor Thomson Whitting plans do not indicate the presence of any survey mark. The contractor is to undertake their own search.

BOUNDARY AND EASEMENT NOTE

The property boundary and easement locations shown on Taylor Thomson Whitting drawing's have been based from information received from : **No boundary information received. Refer architect for boundary information and locations**
Taylor Thomson Whitting makes no guarantees that the boundary or easement information shown is correct.
Taylor Thomson Whitting will accept no liabilities for boundary inaccuracies. The contractor/builder is advised to check/confirm all boundaries in relation to all proposed work prior to the commencement of construction. Boundary inaccuracies found are to be reported to the superintendent prior to construction starting.

SITEWORKS LEGEND

Symbol	Description
F22.20	Finished surface level
F22.00	Finished contour
K&G	Kerb and gutter
KO	Kerb only
MK	Mountable kerb
DD	Dish drain
	Stormwater pit, flow direction and line with
IL10.00	Invert level upstream
600 ø '2'	Pipe size and class
1.25%	Pipe grade
Q=345 L/s	Flow (Litres per second)
IL9.65	Invert level downstream
	Subsoil drainage line (100 dia)
FP	Flushing point
DP	Down pipe
RP	Rodding point
	Concrete encased stormwater line
	Stormwater line with pipe taper and flow direction
	Taper kerb to zero height over 500 mm
	Wheelstop
RW#	Blockwork retaining wall
RW#	Brickwork retaining wall
DEJ	Dowelled expansion joint
SJ	Sawn joint
KJ	Keyed construction joint
WPJ	Weakened plane joint
EJ	Expansion joint
TKJ	Tied keyed joint
	Grass catch drain
	Overland flow path
	Guard Rail

SURVEY LEGEND

Symbol	Description
+18.48	Surface level
19	Contour
	Kerb line
	Batter
	Retaining wall
SW	Stormwater drainage line
T	Telecommunications line
G	Gas line
W	Water main
S	Sewer line
EASEMENT FOR ...	Easement
	Fence
	Tree to be removed/be retained
	Boundary
	Sign
	Hydrant
	Manhole
	Gas
	Stop Valve
	Water
	Telstra
	Trap
	Gully
	Grate
	Sewer Manhole
	Energy Australia (Electricity)
	Electric Light Pole
	Traffic Light
	Traffic Light Lid
	Traffic Light Box
	Telephone Box
	Parking Meter
PM 1234	Permanent Mark
BM 51.10	Bench Mark
BH 0	Borehole
TP No	Test Pit
	Fuel Cock
	Flood Light
	Lamp Hole
	Bubbler
	Letter Box
	Flag Pole
	Flag Pole Box
	Bollard
	Seat
	Bin
	Kerb Outlet
	Monorail Pylon

Rev	Description	Eng	Draft	Date
P2	ISSUE FOR PROJECT SUBMISSION	PL	CR	23.10.08
P1	ISSUE FOR COMMENT	PL	CR	19.09.08

Project
LIVERPOOL HOSPITAL - NORTHERN LINK ROAD & HART STREET UPGRADE

Sheet Subject
NOTES AND LEGENDS SHEET

Architect
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Scale : B1	Drawn	Authorised
NO SCALE	CR	PL

Job No	Drawing No	Revision
071850	C01	P2

PRELIMINARY

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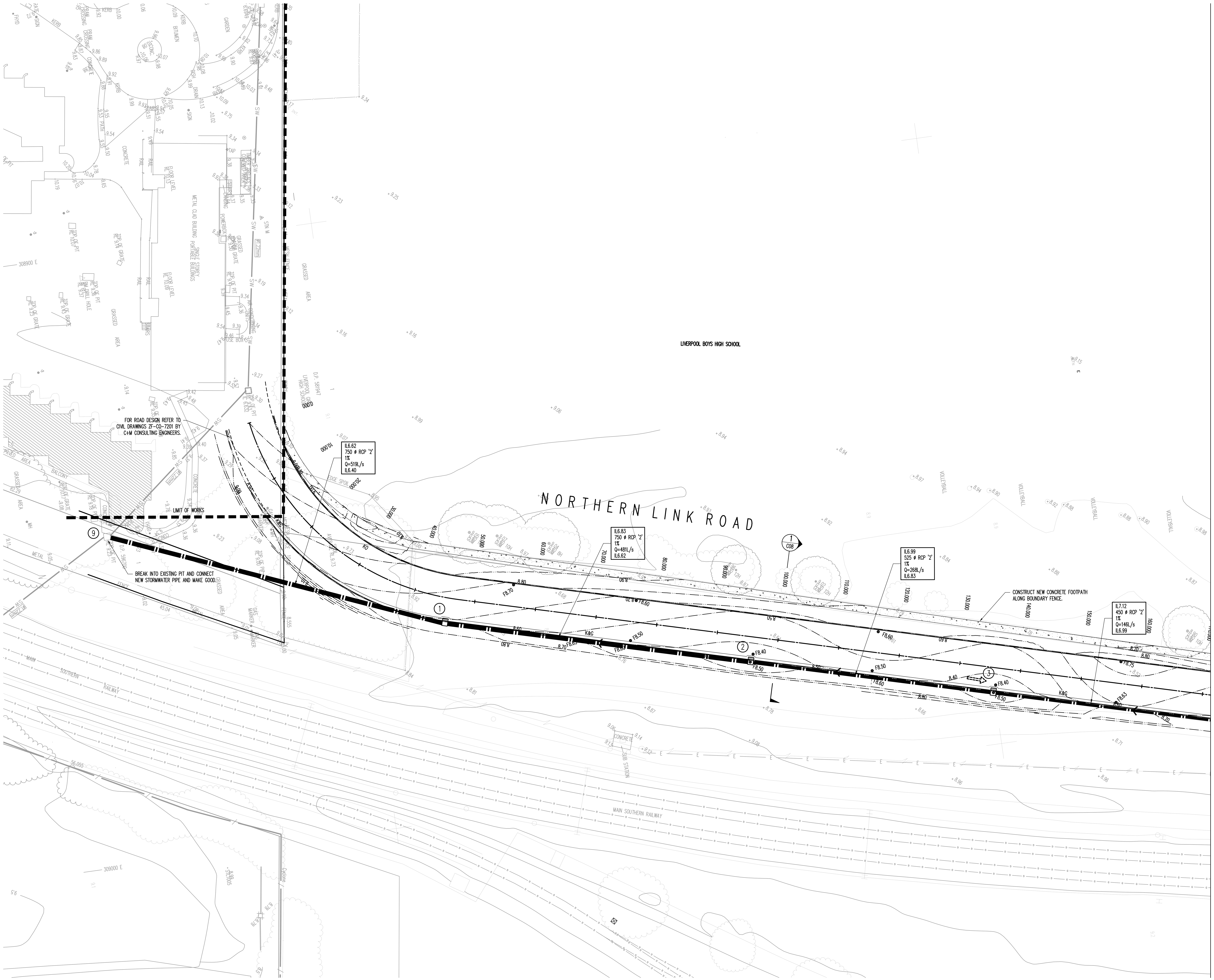

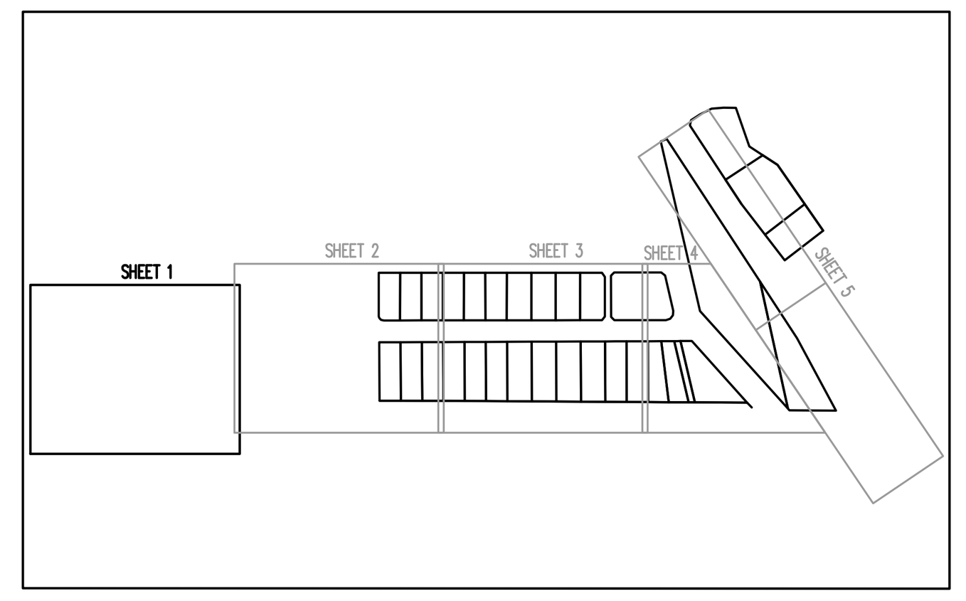

KEY PLAN

FOR NOTES AND LEGENDS REFER TO DRAWING No C01.

CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK

SCALE 1:250 AT ORIGINAL SIZE 0 2.5 5 7.5 10 12.5 m

Rev	Description	Eng	Draft	Date
P3	ISSUE FOR PROJECT SUBMISSION	PL	CR	23.10.08
P2	ISSUE FOR COMMENT	PL	CR	19.09.08
P1	ISSUE FOR COMMENT	PL	CR	08.08.08

Project

LIVERPOOL HOSPITAL - NORTHERN LINK ROAD & HART STREET UPGRADE

Sheet Subject

SITEWORKS PLAN SHEET 1

Architect

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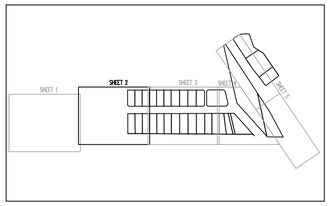
Scale : B1	Drawn	Authorised
1:250	C.R	P.L

Job No	Drawing No	Revision
071850	C02	P3

PRELIMINARY

Plot File Created: Oct 23, 2008 - 1:29pm



KEY PLAN

FOR NOTES AND LEGENDS REFER TO DRAWING No C01.

CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK

FOR CONTINUATION REFER TO DRAWING No C02

FOR CONTINUATION REFER TO DRAWING No C04

LACHLAN STREET

HART STREET

NORTHERN LINK ROAD

LIVERPOOL BOYS HIGH SCHOOL

CONSTRUCT NEW CONCRETE KERB & CHANNEL AND MATCH INTO EXISTING.

CONSTRUCT NEW CONCRETE PRAM RAMP.

CONSTRUCT NEW CONCRETE FOOTPATH AND MATCH INTO EXISTING.

DEMOLISH EXISTING PRAM RAMPS.

CONSTRUCT NEW CONCRETE FOOTPATH AND PRAM RAMP.

CONSTRUCT NEW CONCRETE FOOTPATH ALONG BOUNDARY FENCE.

REGRADE TRENCH AS REQUIRED TO FALL TO OUTLET

IL8.14 375 ø 'J' 0.5% Q= L/s IL8.08

IL8.08 375 ø 'J' 0.5% Q= L/s IL8.02

IL8.02 375 ø 'J' 0.5% Q= L/s IL7.86

IL7.86 375 ø 'J' 0.5% Q= L/s IL7.70

IL8.32 300x600 RCBC 0.3% Q=116L/s IL8.19

IL8.19 300x750 RCBC 0.34% Q=216L/s IL8.05

IL8.05 375x750 RCBC 0.3% Q=345L/s IL8.04

LANDSCAPED ISLAND

PARKING BAYS

D4-2-1(L)

R1-3A

SCALE 1:250 0 2.5 5 7.5 10 12.5 m
AT ORIGINAL SIZE

Rev	Description	Eng	Draft	Date
P3	ISSUE FOR PROJECT SUBMISSION	PL	CR	23.10.08
P2	ISSUE FOR COMMENT	PL	CR	19.09.08
P1	ISSUE FOR COMMENT	PL	CR	08.08.08

Project

LIVERPOOL HOSPITAL - NORTHERN LINK ROAD & HART STREET UPGRADE

Sheet Subject

SITEWORKS PLAN SHEET 2

Architect
LFA (PACIFIC) Pty Ltd
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Scale : B1	Drawn	Authorised
1: 250	C.R	P.L

Job No	Drawing No	Revision
071850	C03	P3

Plot File Created: Oct 23, 2008 - 1:29pm

PRELIMINARY

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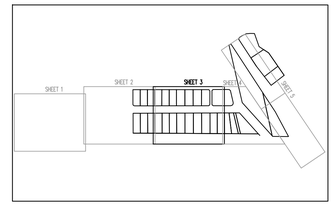

KEY PLAN

FOR NOTES AND LEGENDS REFER TO DRAWING No C01.

CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK

FOR CONTINUATION REFER TO DRAWING No C03

FOR CONTINUATION REFER TO DRAWING No C05

HART STREET

HART LANE

HART PARK

BUILDING LINE

LANDSCAPED ISLAND

PARKING BAYS

K&G

CONSTRUCT NEW CONCRETE FOOTPATH.

CAR PARK

SECURITY CAMERA

MESH FENCE

SPEED HUMP

IL7.79 375 ø 'S' 0.5% Q= L/s IL7.73

IL7.93 375 ø 'S' 0.5% Q= L/s IL7.79

IL8.10 375 ø 'S' 0.5% Q= L/s IL7.93

IL8.25 375 ø 'S' 0.5% Q= L/s IL8.10

IL8.40 375 ø 'S' 0.5% Q= L/s IL8.25

IL8.6 375 ø 'S' 0.5% Q= L/s IL8.40

SCALE 1:250 AT ORIGINAL SIZE 0 2.5 5 7.5 10 12.5 m

Rev	Description	Eng	Draft	Date
P3	ISSUE FOR PROJECT SUBMISSION	PL	CR	23.10.08
P2	ISSUE FOR COMMENT	PL	CR	19.09.08
P1	ISSUE FOR COMMENT	PL	CR	08.08.08

Project

LIVERPOOL HOSPITAL - NORTHERN LINK ROAD & HART STREET UPGRADE

Sheet Subject

SITEWORKS PLAN SHEET 3

Architect

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Scale : B1	Drawn	Authorised
1:250	C.R	P.L

Job No	Drawing No	Revision
071850	C04	P3

Plot File Created: Oct 23, 2008 - 1:26pm

PRELIMINARY

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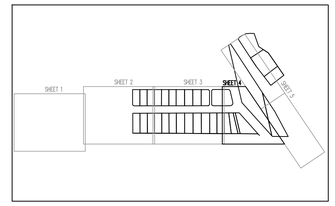

KEY PLAN

FOR NOTES AND LEGENDS REFER TO DRAWING No C01.

CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK

REMEMBRANCE AVENUE

FOR CONTINUATION REFER TO DRAWING No C04

FOR CONTINUATION REFER TO DRAWING No C06

CONSTRUCT NEW CONCRETE PRAM RAMP.

CONSTRUCT NEW CONCRETE FOOTPATH AND MATCH INTO EXISTING.

CONSTRUCT NEW CONCRETE KERB & CHANNEL AND MATCH INTO EXISTING.

CONSTRUCT NEW CONCRETE KERB & CHANNEL AND MATCH INTO EXISTING.

CONSTRUCT NEW CONCRETE FOOTPATHS AND PRAM RAMPS AND MATCH INTO EXISTING.

CONSTRUCT NEW CONCRETE KERB & CHANNEL AND MATCH INTO EXISTING.

CONSTRUCT NEW CONCRETE FOOTPATH AND PRAM RAMP.

CONSTRUCT NEW CONCRETE FOOTPATH AND PRAM RAMP.

CONSTRUCT NEW CONCRETE KERB & CHANNEL AND MATCH INTO EXISTING.

CONSTRUCT NEW CONCRETE KERB & CHANNEL AND MATCH INTO EXISTING.

CONSTRUCT NEW CONCRETE PRAM RAMP.

CONSTRUCT NEW CONCRETE FOOTPATH AND MATCH INTO EXISTING.

CONSTRUCT NEW CONCRETE KERB & CHANNEL AND MATCH INTO EXISTING.

CONSTRUCT NEW CONCRETE KERB & CHANNEL AND MATCH INTO EXISTING.

BREAK INTO EXISTING PIT AND CONNECT NEW STORMWATER PIPE AND MAKE GOOD.

IL 9.13
375 ø 'Z'
1.0%
Q= L/s
IL 9.02

IL 8.99
375 ø 'Z'
1.0%
Q= L/s
IL 8.79

IL 8.76
375 ø 'Z'
1.0%
Q= L/s
IL 8.69

IL 8.66
375 ø 'Z'
1.0%
Q= L/s
IL 8.42

IL 8.39
375 ø 'Z'
1.0%
Q= L/s
IL 8.02

IL 7.99
375 ø 'Z'
1.0%
Q= L/s
IL 7.80 TBC

F10.15 (30)
F10.15 (29)
F10.18 (28)
F10.15 (27)
F9.45 (26)
F9.10 (25)
F8.80 (24)

R1-3A
D4-2-1(L)
K&G
MK
LANDSCAPED ISLAND
PARKING BAYS
KERB 0.16H
MESH FENCE
DP 404723

SCALE 1:250 AT ORIGINAL SIZE 0 2.5 5 7.5 10 12.5 m

Rev	Description	Eng	Draft	Date
P1	ISSUE FOR PROJECT SUBMISSION	PL	OR	23.10.08

Project

LIVERPOOL HOSPITAL - NORTHERN LINK ROAD & HART STREET UPGRADE

Sheet Subject

SITEWORKS PLAN SHEET 4

Architect
LFA (PACIFIC) Pty Ltd
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Scale : B1	Drawn	Authorised
1:250	C.R	P.L

Job No	Drawing No	Revision
071850	C05	P1

Plot File Created: Oct 23, 2008 - 1:26pm

PRELIMINARY

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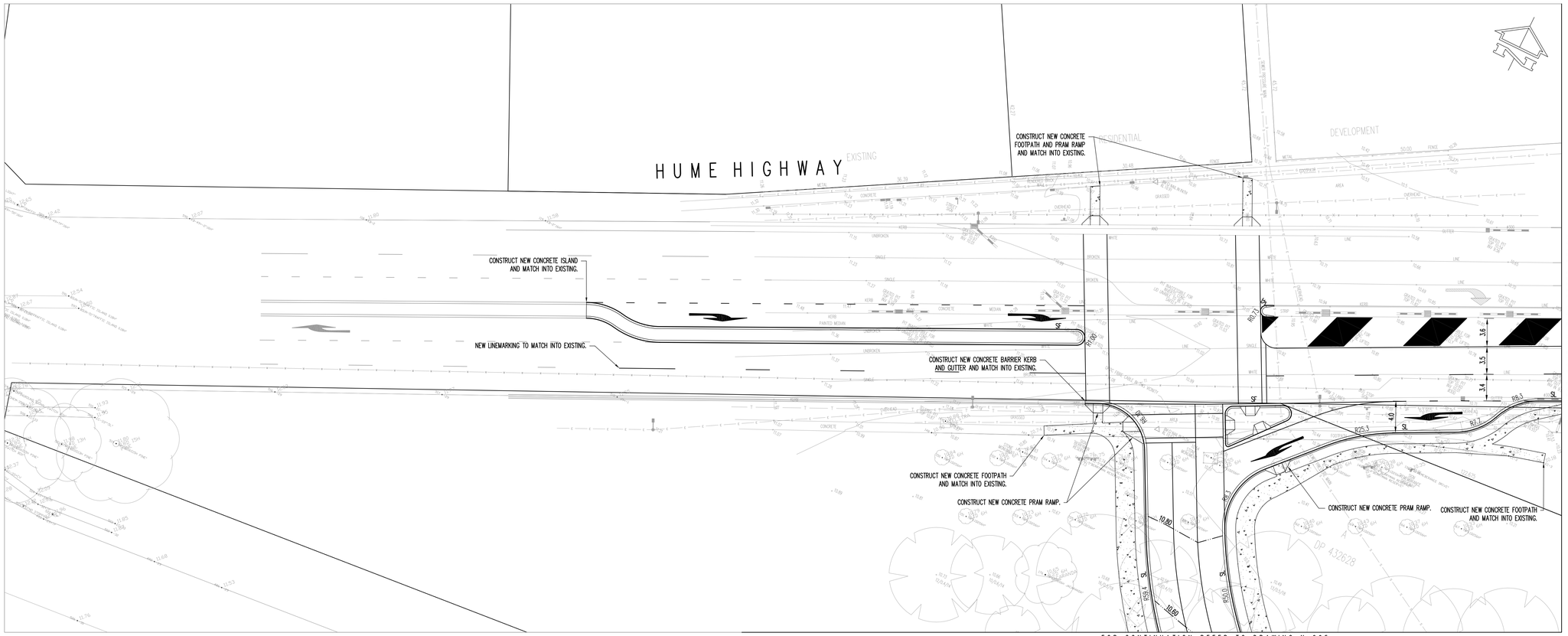

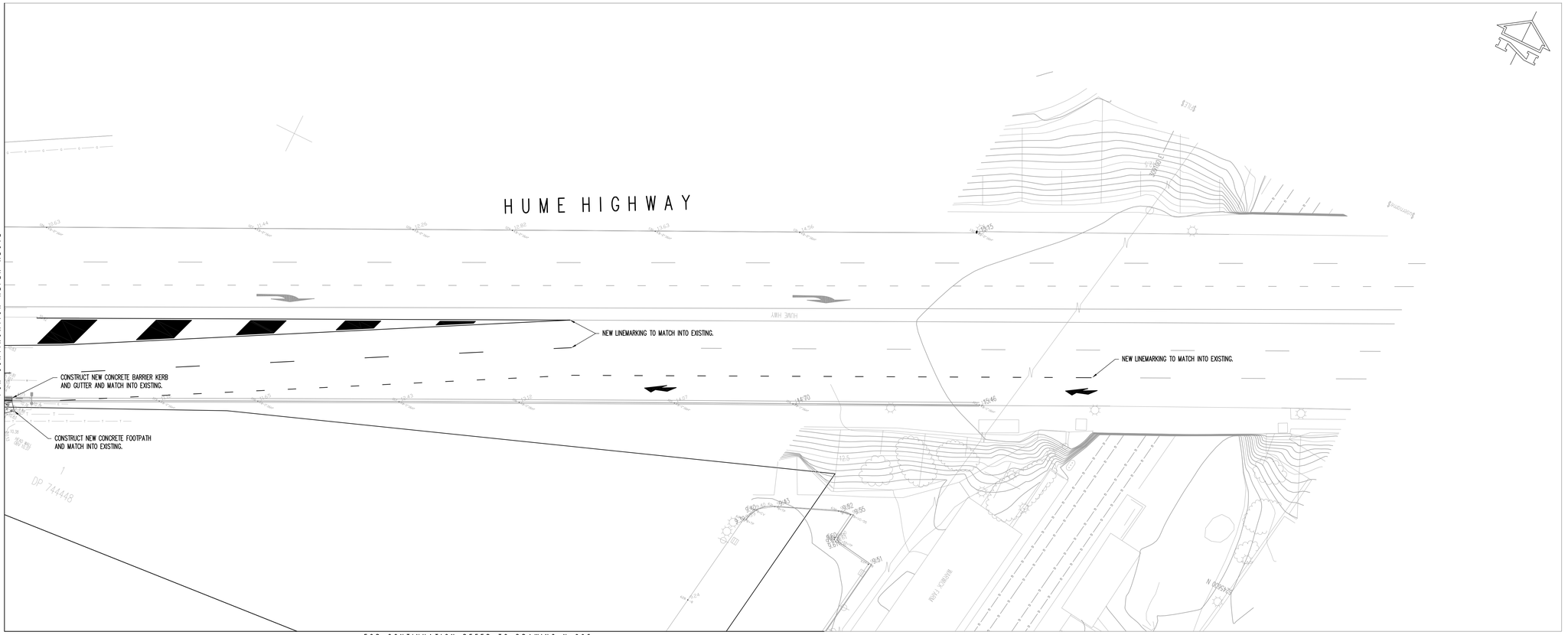

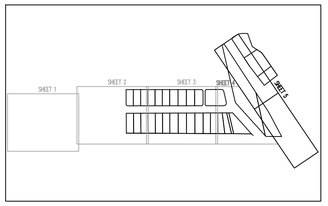

KEY PLAN

FOR NOTES AND LEGENDS REFER TO DRAWING No C01.

CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK

SCALE 1:250 AT ORIGINAL SIZE 0 2.5 5 7.5 10 12.5 m

Rev	Description	Eng	Draft	Date
P3	ISSUE FOR PROJECT SUBMISSION	PL	CR	23.10.08

Project

LIVERPOOL HOSPITAL - NORTHERN LINK ROAD & HART STREET UPGRADE

Sheet Subject

SITEWORKS PLAN SHEET 5

Architect

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Taylor Thomson Whitting (NSW) Pty Ltd A.C.N. 113 578 377

Scale : B1	Drawn	Authorised
1:250	C.R	P.L

Job No	Drawing No	Revision
071850	C06	P1

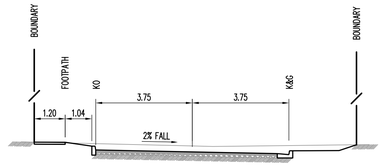
Plot File Created: Oct 23, 2008 - 1:28pm

PRELIMINARY

FileName: C06.dwg - USER: cameron - Plot File Created: Oct 23, 2008 - 1:28pm

FOR NOTES AND LEGENDS REFER TO DRAWING No C01.

CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK



SECTION 1 / C02
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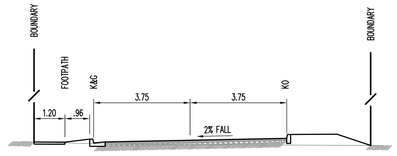

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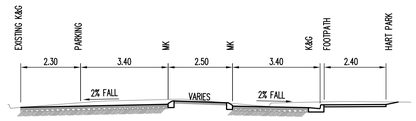

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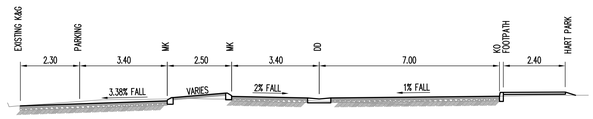

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Rev	Description	Eng	Draft	Date
P1	ISSUE FOR PROJECT SUBMISSION	PL	CR	23.10.08

Project

LIVERPOOL HOSPITAL - NORTHERN LINK ROAD & HART STREET UPGRADE

Sheet Subject

TYPICAL ROAD SECTIONS PLAN

Architect

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Scale : B1	Drawn	Authorised
AS SHOWN	CR	PL

Job No	Drawing No	Revision
071850	C08	P1

Plot File Created: Oct 23, 2008 - 1:30pm

PRELIMINARY