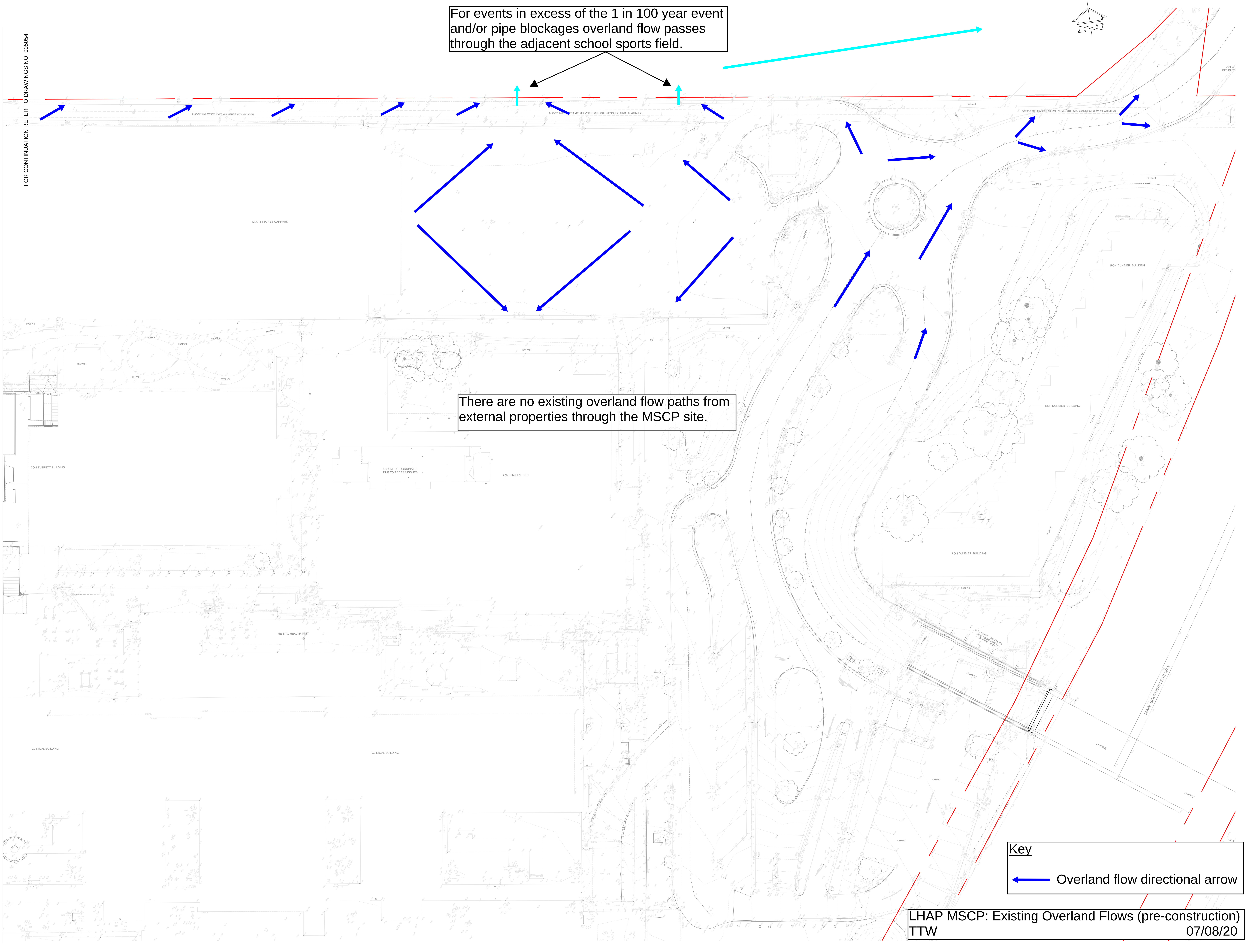

LHAP MSCP: Existing Overland Flows (pre-construction)
TTW 07/08/20

TTW Taylor Thomson Whitting
LEVEL 3/48 CHANDOS ST, ST LEONARDS NSW 2065

AMENDMENTS
REV DATE DESCRIPTION CHK

PROJECT
LIVERPOOL HEALTH & ACADEMIC PRECINCT
Health South Western Sydney Local Health District
ELIZABETH STREET LIVERPOOL NSW

CLIENT
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14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

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LANDSCAPE ARCHITECT
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DESIGN DEVELOPMENT
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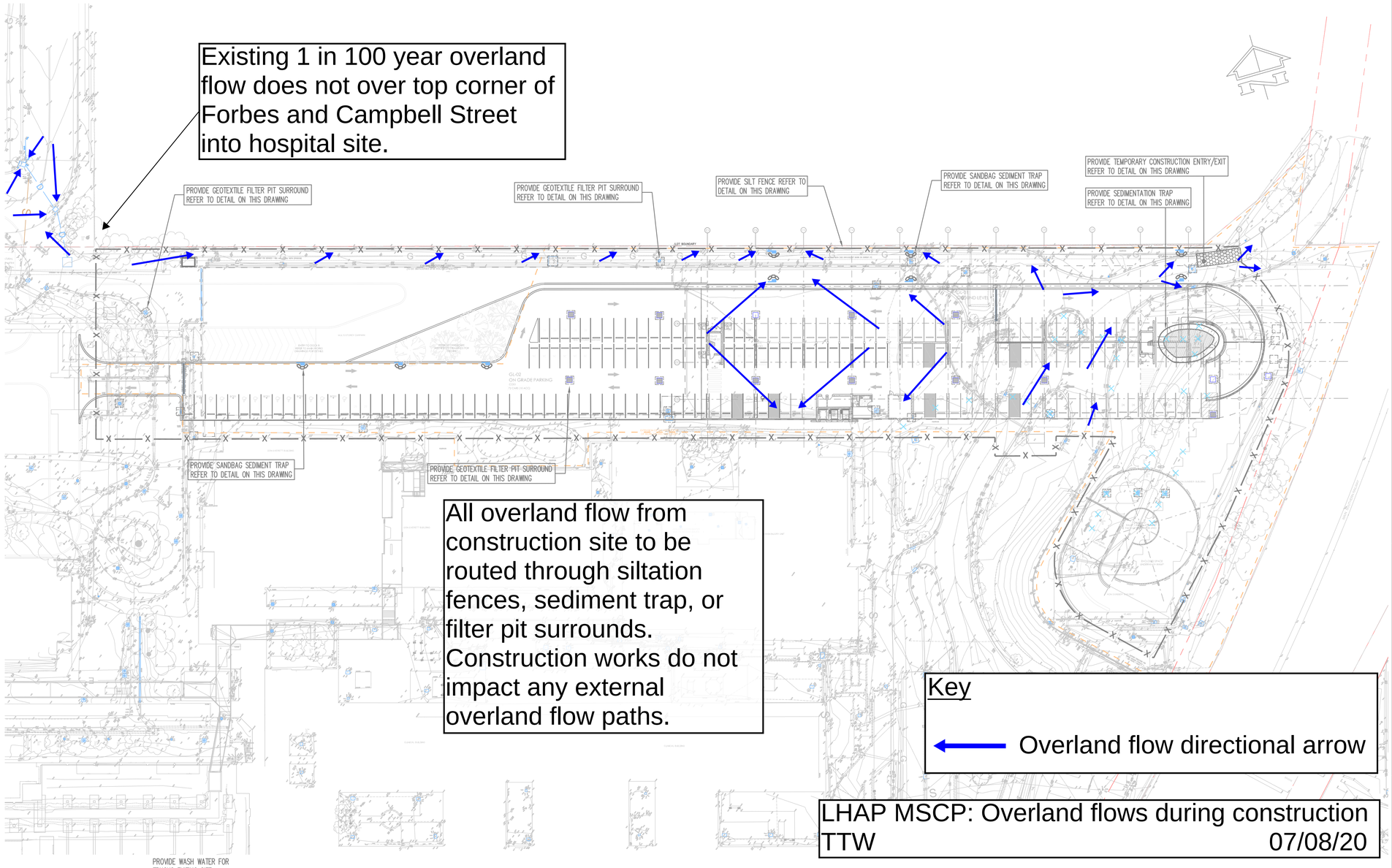
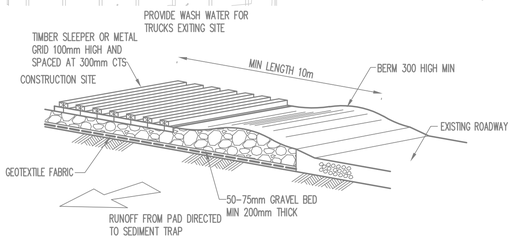
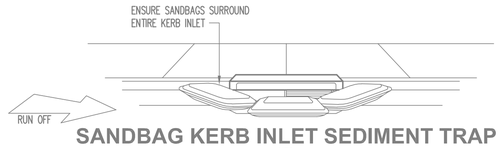
DRAWING		
DRAWN SH	APPROVED TM	PRINT DATE
SCALE @A0 1:200@A0		PROJECT STAGE DESIGN DEVELOPMENT
PROJECT NO. 181052	DRAWING NO. LHAP-CI-TTW-DRG-MW-005056	ISSUE A



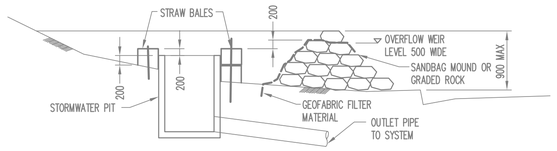
LHAP MSCP: Overland flows during construction
TTW 07/08/20



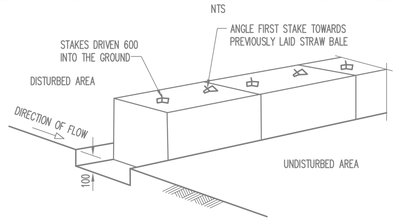
TEMPORARY CONSTRUCTION VEHICLE EXIT
NTS



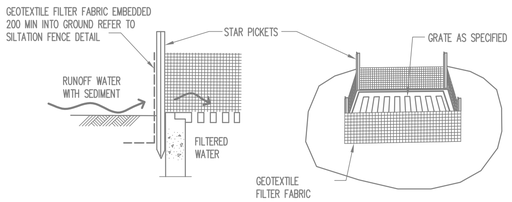
SANDBAG KERB INLET SEDIMENT TRAP
NTS



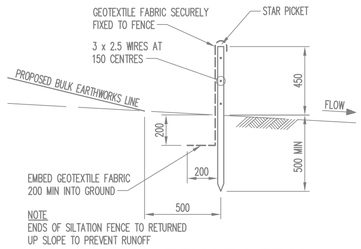
SEDIMENTATION TRAP
NTS



HAY BALE SEDIMENT FILTER
NTS
NOTE: STAKE TO BE EITHER TAR COATED STAR OR 50 x 50 HARDWOOD



GEOTEXTILE FILTER PIT SURROUND
NTS



SILTATION FENCE DETAIL
SCALE 1: 20

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) LANDCOM NSW – Managing Urban Stormwater: Soils and Construction ("Blue Book").
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 be required to be modified. Variation to these details may require approval by the relevant authorities. The erosion and sediment control plan shall be implemented and adapted 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.

WATER QUALITY TESTING REQUIREMENTS

Prior to discharge of site stormwater, groundwater and seepage water into council's stormwater system, contractors must undertake water quality tests in conjunction with a suitably qualified environment consultant outlining the following:

- Compliance with the criteria of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000)
- If required subject to the environmental consultants advice, provide remedial measures to improve the quality of water that is to be discharged into Councils storm water drainage system.This should include comments from a suitably qualified environmental consultant confirming the suitability of these remedial measures to manage the water discharged from the site into Councils storm water drainage system. Outlining the proposed, ongoing monitoring, contingency plans and validation program that will be in place to continually monitor the quality of water discharged from this site. This should outline the frequency of water quality testing that will be undertaken by a suitably qualified environmental consultant.

EROSION AND SEDIMENT CONTROL LEGEND

- Siltation fence
- Stormwater pit with Geotextile filter surround
- Hay bale barriers
- Sandbag sediment trap
- Catch drain

SCALE 1:500 0 5 10 15 20 25 m
AT ORIGINAL SIZE

TTW Taylor Thomson Whitting
LEVEL 3/48 CHANDOS ST, ST LEONARDS NSW 2065

AMENDMENTS

REV	DATE	DESCRIPTION	CHK
A	27.03.20	DESIGN DEVELOPMENT	TM

PROJECT
LIVERPOOL HEALTH & ACADEMIC PRECINCT
Health South Western Sydney Local Health District
ELIZABETH STREET LIVERPOOL NSW
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DESIGN DEVELOPMENT
NOT TO BE USED FOR CONSTRUCTION

DRAWING
MSCP - OVERALL PLAN

DRAWN	APPROVED	PRINT DATE
WW	TM	

SCALE @A1: 1:500@A1
PROJECT STAGE: DESIGN DEVELOPMENT
PROJECT NO.: 181052
DRAWING NO.: LHAP-CI-TTW-DRG-CP-003001
ISSUE: A

Existing 1 in 100 year overland flow does not over top corner of Forbes and Campbell Street into hospital site. Existing over topping level 10.92m maintained in proposed design to ensure ponding depth at corner of Forbes and Campbell Street does not increase.

MSCP and northern road do not adversely impact existing overland flows paths. Proposed design mirrors existing low and high points along the northern road.

Post-development overland flows are consistent with pre-development overland flows.

Key

Overland flow directional arrow

LHAP MSCP: Proposed Overland Flows (post-construction) - West
TTW 07/08/20

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

TTW Taylor Thomson Whitting
LEVEL 3/48 CHANDOS ST., ST LEONARDS NSW 2065

FOR CONTINUATION REFER TO DRAWING No C3012

AMENDMENTS
REV DATE DESCRIPTION CHK

PROJECT
LIVERPOOL HEALTH & ACADEMIC PRECINCT
Health South Western Sydney Local Health District
ELIZABETH STREET LIVERPOOL NSW

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Health Infrastructure
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DRAWING
MSCP - SITEWORKS PLAN - WEST

DRAWN WW | APPROVED | PRINT DATE
SCALE @A1 1:250@A1 | PROJECT STAGE SSDA
PROJECT NO. 181052 | DRAWING NO. C3011 | ISSUE P1

MSCP and northern road do not adversely impact existing overland flows paths. Proposed design mirrors existing low and high points along the northern road.

Post-development overland flows are consistent with pre-development overland flows.

Key

Overland flow directional arrow

LHAP MSCP: Proposed Overland Flows (post-construction) - East

TTW 07/08/20

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

TTW Taylor Thomson Whitting

LEVEL 3/48 CHANDOS ST, ST LEONARDS NSW 2065

AMENDMENTS

REV	DATE	DESCRIPTION	CHK

PROJECT

LIVERPOOL HEALTH & ACADEMIC PRECINCT

Health South Western Sydney Local Health District

ELIZABETH STREET LIVERPOOL NSW

CLIENT

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QUANTITY SURVEYOR

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LANDSCAPE ARCHITECT

CLOUSTON associates

65-69 KENT ST, SYDNEY NSW 2000

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DRAWING

MSCP - SITEWORKS PLAN - EAST

DRAWN	APPROVED	PRINT DATE
WW		

SCALE @ A1	PROJECT STAGE
1:250@A1	SSDA

PROJECT NO.	DRAWING NO.	ISSUE
181052	C3012	P1