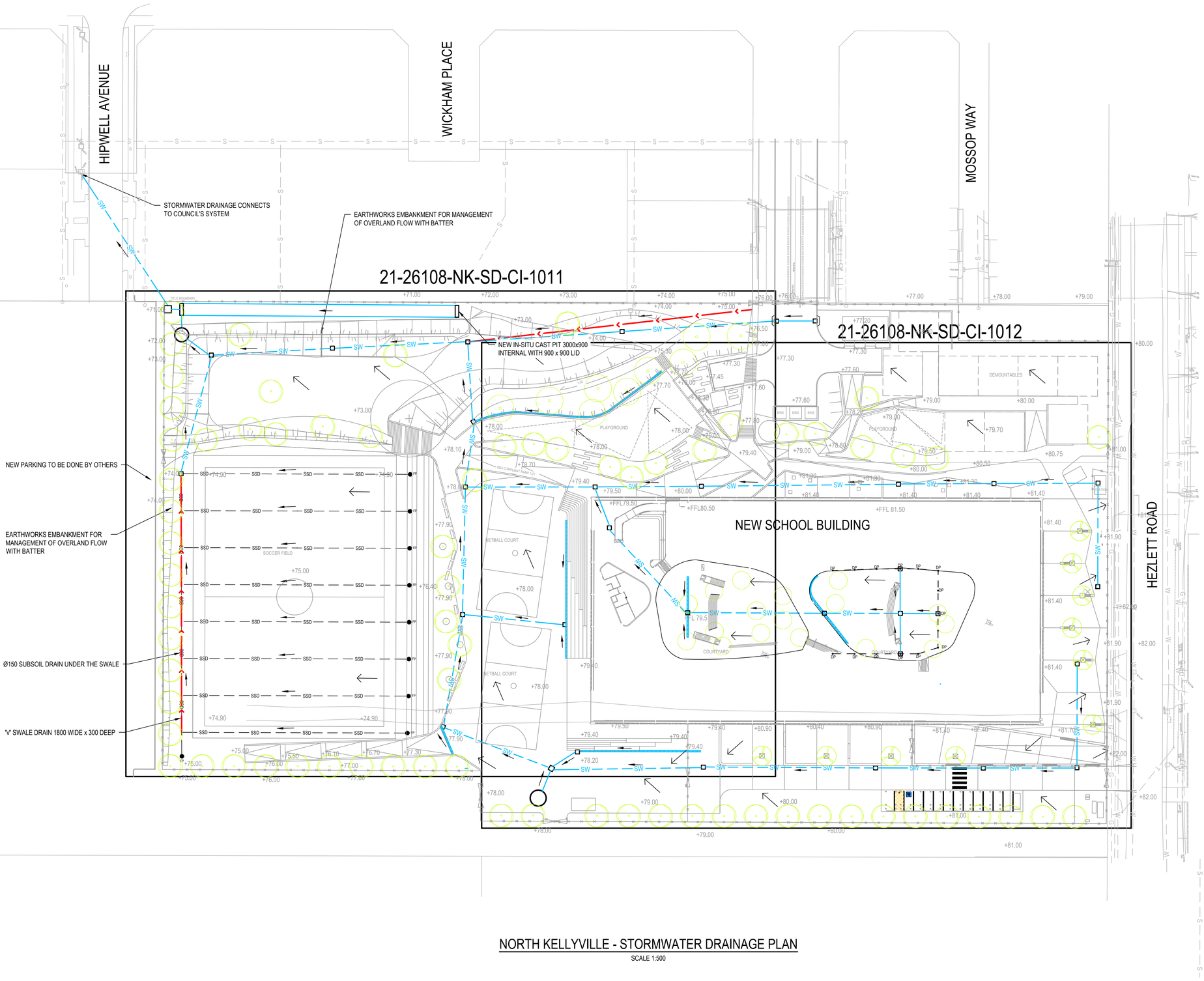

LEGEND:

- NEW GRATED TRENCH DRAIN
- NEW STORMWATER PIPE
- NEW STORMWATER PIT
- PIPE FLOW DIRECTION
- NEW DRAINAGE SWALE
- NEW SUBSOIL DRAINAGE
- NEW RAINWATER TANK
- NEW DOWNPIPE CONNECTION LINE Ø150 UPVC
- OVERLAND FLOW DIRECTION

NOTES:

1. ALL STORMWATER PIPES TO HAVE A MINIMUM OF 1% SLOPE IN DIRECTION SHOWN. ALL PIPES TO BE MINIMUM 450mm COVER IN LANDSCAPED/FOOTPATH AREA AND 600mm COVER IN TRAFFICABLE AREA.
2. ALL STORMWATER PIPES TO BE REINFORCED CONCRETE (RCP) CLASS 2 WITH RUBBER RING JOINT UNO.
3. STORMWATER PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH AS 3725. ALL BEDDING IS TO BE TYPE H2 UNLESS NOTED OTHERWISE.
4. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADE SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
5. STORMWATER MANHOLES/GRATED PITS AND COVERS/GRATES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
6. GRATES AND COVERS SHALL CONFORM WITH AS 3996-1992.
7. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CURRENT STANDARDS AND CONSTRUCTION SPECIFICATIONS.
8. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING SERVICES WITH ALL RELEVANT AUTHORITIES BEFORE COMMENCING CONSTRUCTION.
9. ALL STRUCTURES TO BE CONSTRUCTED TO NEW FINISHED SURFACE LEVELS.
10. DATUM FOR LEVELS IS AHD.
11. THE POSITION, SIZE, SURFACE LEVELS AND INVERT LEVELS OF EXISTING STORMWATER MANHOLES AND PITS ARE TAKEN FROM SURVEY DRAWING. THESE NEED TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
12. ALL STORMWATER PITS SHALL BE CONSTRUCTED USING CAST IN-SITU CONCRETE OR HEAVY DUTY PRECAST PITS.
13. CONNECTION TO EXISTING STORMWATER PITS TO BE CARRIED OUT BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATION AND IN CONSULTANT OF THE ASSET OWNER (i.e. COUNCIL) MAKE REQUIRED OPENING INSIDE THE EXISTING STORMWATER PIT WALL AT THE CONNECTION POINT OF NEW LINE. REPAIR AND MAKE GOOD THE PIT WALL INCLUDING NECESSARY ADJUSTMENT OF THE PIT BENCHING TO MATCH NEW PIPE CONNECTIONS.
14. GRATES, FRAMES AND COVERS IN ROADWAYS TO BE DURHAM OR RMS APPROVED HEAVY DUTY CLASS D.
15. GRATES AND FRAMES NOT IN ROADWAYS TO BE DURHAM OR EQUIVALENT MEDIUM DUTY CLASS B.
16. ALL GRATES TO BE HINGED AND LOCKABLE. PROVIDE HEEL SAFE GRATE AS PER AS 1428.1-7.5 IN ROADWAYS AND PARKING AREA (PEDESTRIAN TRAVERSING AREAS).

NORTH KELLYVILLE - STORMWATER DRAINAGE PLAN

SCALE 1:500

DEVELOPMENT APPLICATION

No	Revision	Drawn	Job Manager	Project Director	Date
E	ISSUED FOR DEVELOPMENT APPLICATION	MR	CS*	SM*	29.08.17
D	ISSUED FOR SSD SUBMISSION	MR	CS*	SM*	09.08.17
C	TENDER ADDENDUM	MR	MD*	MW*	21.07.16
B	ISSUED FOR TENDER	MR	CS*	SM*	28.06.17
A	ISSUED FOR SSD DEVELOPMENT APPLICATION	MR	CS*	SM*	14.06.17

Note: * indicates signatures on original issue of drawing or last revision of drawing

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

NSW GOVERNMENT Education
TSA MANAGEMENT

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DO NOT SCALE

Drawn	M.RANGWALA	Designer	G.DE SWARDT
Drafting Check	A.MACLEAN*	Design Check	A.RAHMAN*
Approved (Project Director)			
Date			
Scale	1:500		

This Drawing must not be used for Construction unless signed as Approved

Client NSW DEPARTMENT OF EDUCATION
Project NORTH KELLYVILLE PUBLIC SCHOOL
Title CIVIL
OVERALL STORMWATER DRAINAGE PLAN

Original Size A1
Drawing No: 2126108-NK-SD-CI-1010
Rev: E

Plot Date: 29 August 2017 - 5:49 PM Plotted by: Mona Rangwala Cad File No: G:\21\26108\6. Kellyville North PS\03 Civil\CADD\Drawings\D.A ISSUED\21-26108-KN-DA-CI-1010.dwg

STORMWATER DRAINAGE CONNECTS TO COUNCIL'S SYSTEM
Ø 450
U/S IL=66.75
D/S IL=65.60
LG = 36.46
GRADE = 3%

NEW ACCESS COVER INLET PIT A4
3000 x 900 INTERNAL WITH LID 900 x 900

INSTALL STAINLESS STEEL ORIFICE PLATE
600x600x6mm THICK AT PIPE OUTLET WITH
ORIFICE OPENING DIA 390mm

RCBC OSD - 3300 x 3000 x 70100 @1% FALL
FOR DETAILS REFER DRG CI-1016

NEW ACCESS COVER INLET PIT A
3000 x 900 INTERNAL WITH GRATE 900 x 900

'V' SWALE DRAIN
1200 WIDE x 200 DEEP

TITLE BOUNDARY

Ø450
U/S IL= 67.0
D/S IL=66.58
LG = 8.3
GRADE = 5%

Ø675
U/S IL= 70.80
D/S IL= 70.77
LG = 3.13
GRADE = 1%

Ø375
U/S IL= 72.0
D/S IL= 71.7
LG = 28.5
GRADE = 1%

Ø675
U/S IL= 70.75
D/S IL= 70.72
LG = 3.13
GRADE = 1%

GROSS POLUTANTS TRAP (GPT)
HUMEGARD MODEL HG30

Ø600
U/S IL=71.2
D/S IL=70.83
LG = 36.90
GRADE = 1%

Ø600
U/S IL=71.55
D/S IL=71.22
LG = 32.90
GRADE = 1%

GRATED PIT TO BE BUILT AT THE BOTTOM OF
THE STORAGE POND TO COLLECT STORMWATER
WATER DRAINING INTO THE POND.

GRADE THE BOTTOM OF THE POND
TOWARDS THE GRATED PIT

Ø600
U/S IL=72.0
D/S IL=71.6
LG = 19.4
GRADE = 2%

Ø375
U/S IL = 72.4
D/S IL = 71.8
LG = 37.86
GRADE = 1.6%

Ø375
U/S IL = 73.2
D/S IL = 72.8
LG = 37.86
GRADE = 1.0%

GRATED TRENCH DRAIN
(300x300) INDICATIVE ONLY

Ø600
U/S IL=76.3
D/S IL=76.14
LG = 15.63
GRADE = 1%

Ø525
U/S IL=76.63
D/S IL=76.34
LG = 31.5
GRADE = 1%

Ø375
U/S IL = 78.58
D/S IL = 78.32
LG = 25.8
GRADE = 1%

Ø525
U/S IL = 78.0
D/S IL = 77.9
LG = 9.18
GRADE = 1%

Ø525
U/S IL = 78.32
D/S IL = 78.02
LG = 30.9
GRADE = 1%

GRATED TRENCH DRAIN
(300x300) INDICATIVE ONLY

Ø450
U/S IL=76.95
D/S IL=76.68
LG = 26.98
GRADE = 1%

Ø300
U/S IL=77.0
D/S IL=76.7
LG = 27.34
GRADE = 1%

Ø450
U/S IL = 76.29
D/S IL = 75.97
LG = 31.81
GRADE = 1%

Ø450
U/S IL = 76.78
D/S IL = 76.53
LG = 25.2
GRADE = 1%

GRATED TRENCH DRAIN
(300x300) INDICATIVE ONLY

'V' SWALE DRAIN
1800 WIDE x 300 DEEP

Ø150 SUBSOIL DRAIN
UNDER THE SWALE

NEW Ø100 SUBSOIL DRAINAGE
INDICATIVE ONLY (TYP).

FFL 79.5

FFL79.50

FFL80.50

LEGEND:

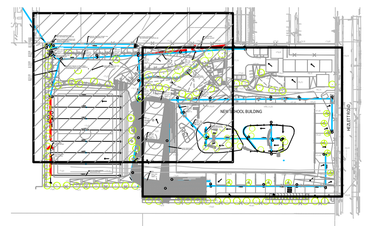
- NEW GRATED TRENCH DRAIN
- NEW STORMWATER PIPE
- NEW STORMWATER PIT
- PIPE FLOW DIRECTION
- NEW DRAINAGE SWALE
- NEW SUBSOIL DRAINAGE
- NEW RAINWATER TANK
- NEW DOWNPIPE CONNECTION LINE Ø150 UPVC
- NEW FLUSH POINT
- OVERLAND FLOW DIRECTION

NOTES:

1. REFER TO DRG 21-26108-KN-SD-CI-1010 FOR DRAINAGE NOTES.

PIT SCHEDULE

PIT NUMBER	PIT DETAILS
P1	900 x 900 GRATED INLET PIT
P2	900 x 900 GRATED INLET PIT
P3	900 x 900 GRATED INLET PIT
P4	900 x 900 GRATED INLET PIT
P5	900 x 900 GRATED INLET PIT
P6	1200 x 1200 DEEP DROP PIT
P7	900 x 900 GRATED INLET PIT
P8	900 x 900 GRATED INLET PIT
P9	900 x 900 GRATED INLET PIT
P10	900 x 900 GRATED INLET PIT
P11	900 x 900 GRATED INLET PIT
P12	900 x 900 GRATED INLET PIT
P13	900 x 900 GRATED INLET PIT
P14	900 x 900 GRATED INLET PIT
P15	600 x 600 GRATED INLET PIT
P16	900 x 900 GRATED INLET PIT
P17	600 x 600 GRATED INLET PIT
P18	1200 x 1200 DEEP DROP PIT
P19	900 x 900 GRATED INLET PIT
P20	900 x 900 GRATED INLET PIT
P21	900 x 900 GRATED INLET PIT
P22	900 x 900 GRATED INLET PIT
P23	900 x 900 GRATED INLET PIT
P24	900 x 900 GRATED INLET PIT
P25	900 x 900 GRATED INLET PIT
P26	GPT-HUMEGARD
P27	3000 x 900 IN-SITU ACCESS PIT
P28	3000 x 900 IN-SITU ACCESS PIT
P29	900 x 900 JUNCTION PIT ACCESS COVER
P30	900 x 900 GRATED INLET PIT
P31	900 x 900 GRATED INLET PIT
P32	900 x 900 GRATED INLET PIT
P33	900 x 900 GRATED INLET PIT
P34	900 x 900 GRATED INLET PIT
P35	900 x 900 GRATED INLET PIT
P36	900 x 900 GRATED INLET PIT



KEY PLAN
SCALE 1:2500

FOR CONTINUATION REFR DRG 21-26108-NK-CI-2012

NORTH KELLYVILLE - STORMWATER DRAINAGE PLAN

SCALE 1:250

DEVELOPMENT APPLICATION

No	Revision	Drawn	Job Manager	Project Director	Date
D	ISSUED FOR DEVELOPMENT APPLICATION	MR	CS*	SM*	29.08.17
C	ISSUED FOR SSD SUBMISSION	MR	CS*	SM*	09.08.17
B	TENDER ADDENDUM	MR	MD*	MW*	21.07.16
A	ISSUED FOR TENDER	MR	CS*	SM*	28.06.17

Note: * indicates signatures on original issue of drawing or last revision of drawing

0 25 50 75 100 125m
SCALE 1:2500 AT ORIGINAL SIZE

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

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DO NOT SCALE

Drawn	M.RANGWALA	Designer	G.DE SWARDT
Drafting Check	A.MACLEAN*	Design Check	A.RAHMAN*
Approved (Project Director)			
Date			
Scale	1:500	This Drawing must not be used for Construction unless signed as Approved	

Client NSW DEPARTMENT OF EDUCATION
Project NORTH KELLYVILLE PUBLIC SCHOOL
Title CIVIL
STORMWATER DRAINAGE PLAN-SHEET 1 OF 2

Original Size A1
Drawing No: 2126108-NK-SD-CI-1011 Rev: D

Plot Date: 29 August 2017 - 5:49 PM Plotted by: Mona Rangwala Cad File No: G:\21\26108\6. Kellyville North PS\03 Civil\CADD\Drawings\D.A ISSUED\21-26108-KN-DA-CI-1011.dwg

NEW SCHOOL BUILDING

FOR CONTINUATION REFR DRG 21-26108-NK-CI-2011

Ø525
U/S IL=76.63
D/S IL=76.32
LG = 31.5
GRADE = 1%

Ø375
U/S IL = 77.72
D/S IL = 77.20
LG = 25.8
GRADE = 2%

Ø375
U/S IL = 78.72
D/S IL = 77.75
LG = 48.5
GRADE = 2%

Ø375
U/S IL = 79.2
D/S IL = 78.74
LG = 22.86
GRADE = 2%

Ø300
U/S IL = 79.48
D/S IL = 79.23
LG = 25.11
GRADE = 1%

Ø375
U/S IL = 73.8
D/S IL = 73.5
LG = 8.75
GRADE = 3.3%

+FFL
Ø525
U/S IL = 78.0
D/S IL = 77.9
LG = 9.9
GARDE = 1%

Ø525
U/S IL = 78.30
D/S IL = 78.02
LG = 28.29
GARDE = 1%

GRATED TRENCH DRAIN (300x300) INDICATIVE ONLY

GRATED TRENCH DRAIN (300x300) INDICATIVE ONLY. TO BE PLACED TO SUIT STEPPED LANDSCAPING.

GRATED TRENCH DRAIN (300x300) INDICATIVE ONLY. TO BE PLACED TO SUIT STEPPED LANDSCAPING.

Ø450
U/S IL = 79.5
D/S IL = 79.3
LG = 18.1
GRADE = 1%

Ø450
U/S IL = 79.0
D/S IL = 78.32
LG = 33.35
GRADE = 2%

Ø375
U/S IL = 80.5
D/S IL = 80.25
LG = 10.18
GRADE = 2%

Ø375
U/S IL = 80.5
D/S IL = 80.32
LG = 8.45
GRADE = 2%

Ø375
U/S IL = 80.5
D/S IL = 80.3
LG = 9.1
GRADE = 2%

DOWNPIPES TO CONNECT TO STORMWATER DRAINAGE SYSTEM

Ø150 UPVC @ 1% (TYP)

Ø300
U/S IL = 80.0
D/S IL = 79.5
LG = 25.0
GRADE = 2%

Ø300
U/S IL = 80.5
D/S IL = 80.0
LG = 25.0
GRADE = 2%

Ø450
U/S IL = 76.6
D/S IL = 76.32
LG = 27.86
GRADE = 1%

Ø450
U/S IL = 77.0
D/S IL = 76.9
LG = 6.7
GRADE = 1%

Ø375
U/S IL = 77.5
D/S IL = 76.75
LG = 37.1
GRADE = 2%

Ø 150 UPVC OVERFLOW PIPE FROM RAINWATER TANK

Ø375
U/S IL = 78.85
D/S IL = 77.75
LG = 42.3
GRADE = 1%

Ø300
U/S IL = 79.0
D/S IL = 78.87
LG = 26.07
GRADE = 1%

Ø300
U/S IL = 79.98
D/S IL = 79.40
LG = 22.5
GRADE = 2.5%

BINS

DDA COMPLIANT RAMP 1:20

1:50

STATION

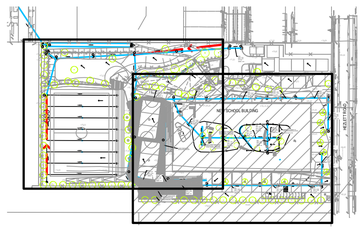
LEGEND:

- NEW GRATED TRENCH DRAIN
- SW — NEW STORMWATER PIPE
- NEW STORMWATER PIT
- PIPE FLOW DIRECTION
- NEW DRAINAGE SWALE
- SSD — NEW SUBSOIL DRAINAGE
- NEW RAINWATER TANK
- DP DP DP DP — NEW DOWNPIPE CONNECTION LINE Ø150 UPVC
- FP — NEW FLUSH POINT
- OVERLAND FLOW DIRECTION

NOTES:

1. REFER TO DRG 21-26108-KN-SD-CI-1010 FOR DRAINAGE NOTES.

PIT SCHEDULE	
PIT NUMBER	PIT DETAILS
P1	900 x 900 GRATED INLET PIT
P2	900 x 900 GRATED INLET PIT
P3	900 x 900 GRATED INLET PIT
P4	900 x 900 GRATED INLET PIT
P5	900 x 900 GRATED INLET PIT
P6	1200 x 1200 DEEP DROP PIT
P7	900 x 900 GRATED INLET PIT
P8	900 x 900 GRATED INLET PIT
P9	900 x 900 GRATED INLET PIT
P10	900 x 900 GRATED INLET PIT
P11	900 x 900 GRATED INLET PIT
P12	900 x 900 GRATED INLET PIT
P13	900 x 900 GRATED INLET PIT
P14	900 x 900 GRATED INLET PIT
P15	600 x 600 GRATED INLET PIT
P16	900 x 900 GRATED INLET PIT
P17	600 x 600 GRATED INLET PIT
P18	1200 x 1200 DEEP DROP PIT
P19	900 x 900 GRATED INLET PIT
P20	900 x 900 GRATED INLET PIT
P21	900 x 900 GRATED INLET PIT
P22	900 x 900 GRATED INLET PIT
P23	900 x 900 GRATED INLET PIT
P24	900 x 900 GRATED INLET PIT
P25	900 x 900 GRATED INLET PIT
P26	GPT-HUMEGARD
P27	3000 x 900 IN-SITU ACCESS PIT
P28	3000 x 900 IN-SITU ACCESS PIT
P29	900 x 900 JUNCTION PIT ACCESS COVER
P30	900 x 900 GRATED INLET PIT
P31	900 x 900 GRATED INLET PIT
P32	900 x 900 GRATED INLET PIT
P33	900 x 900 GRATED INLET PIT
P34	900 x 900 GRATED INLET PIT
P35	900 x 900 GRATED INLET PIT
P36	900 x 900 GRATED INLET PIT



KEY PLAN
SCALE 1:2500

NORTH KELLYVILLE - STORMWATER DRAINAGE PLAN
SCALE 1:250

DEVELOPMENT APPLICATION

D	ISSUED FOR DEVELOPMENT APPLICATION	MR	CS*	SM*	29.08.17
C	ISSUED FOR SSD SUBMISSION	MR	CS*	SM*	09.08.17
B	TENDER ADDENDUM	MR	MD*	MW*	21.07.16
A	ISSUED FOR TENDER	MR	CS*	SM*	28.06.17
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

0 25 50 75 100 125m
SCALE 1:2500 AT ORIGINAL SIZE

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

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TSA MANAGEMENT

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E sydmail@ghd.com W www.ghd.com

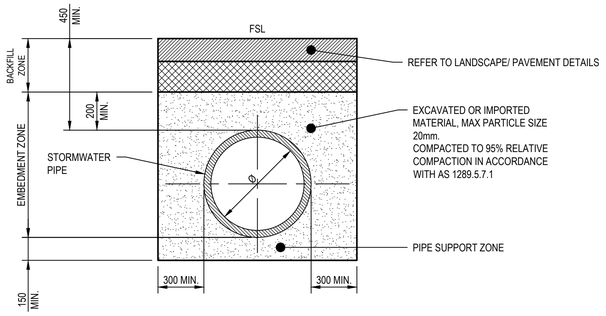
DO NOT SCALE

Drawn	M.RANGWALA	Designer	G.DE SWARDT
Drafting Check	A.MACLEAN*	Design Check	A.RAHMAN*
Approved (Project Director)			
Date			
Scale	1:500	This Drawing must not be used for Construction unless signed as Approved	

Client NSW DEPARTMENT OF EDUCATION
Project NORTH KELLYVILLE PUBLIC SCHOOL
Title CIVIL
STORMWATER DRAINAGE PLAN-SHEET 2 OF 2

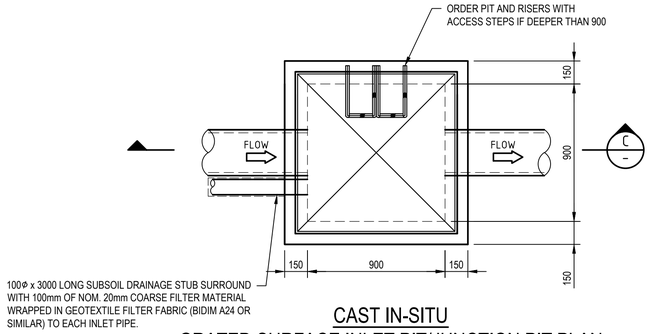
Original Size A1
Drawing No: 2126108-NK-SD-CI-1012 Rev: D

Plot Date: 29 August 2017 - 5:49 PM Plotted by: Mona Rangwala
Cad File No: G:\21\26108\6. Kellyville North PS\03 Civil\CADD\Drawings\D.A ISSUED\21-26108-KN-DA-CI-1012.dwg



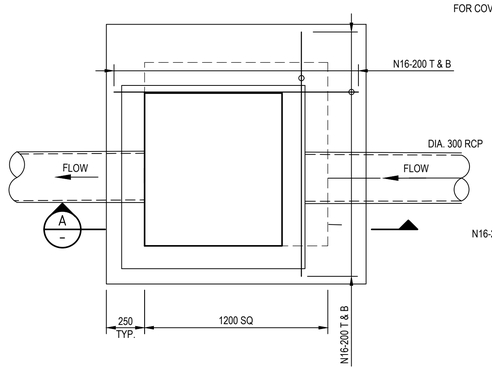
TRENCH DETAIL-BURIED PIPE UNDER NON-TRAFFICABLE AREA

NTS



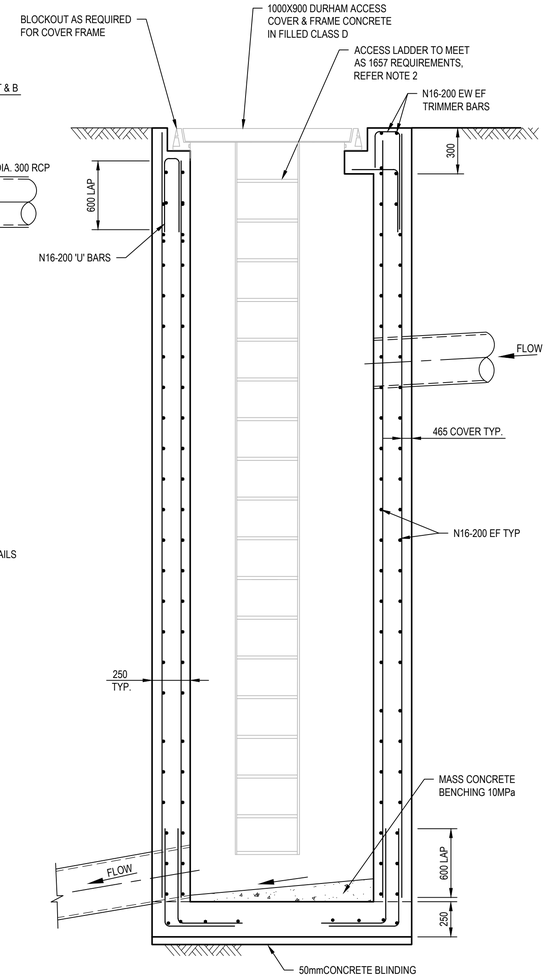
CAST IN-SITU GRATED SURFACE INLET PIT/JUNCTION PIT PLAN

NTS



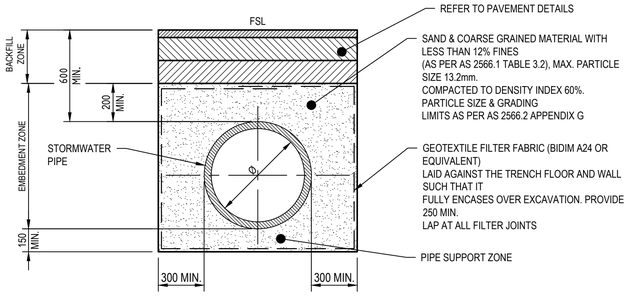
PLAN - DEEP DROP PIT (DP)

NTS



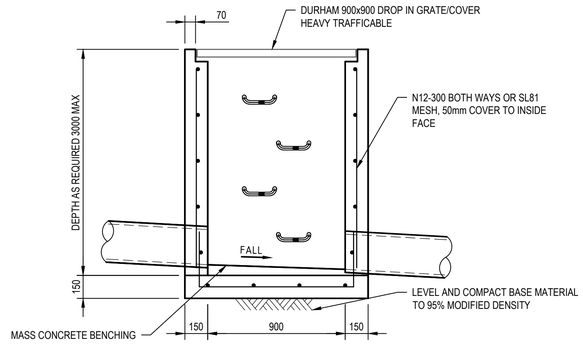
A SECTION

NTS



TRENCH DETAIL-BURIED PIPE UNDER TRAFFICABLE AREA

NTS



C SECTION

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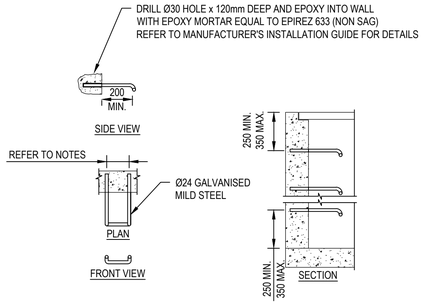
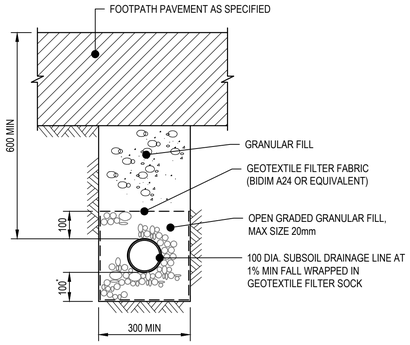


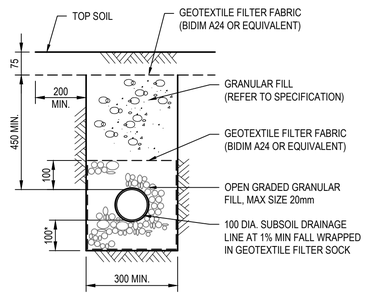
PIT STEP IRON TYPICAL DETAILS

NOTES:
1. WHEN POSITIONED IN STRAIGHT ALIGNMENT, STEP IS 400mm WIDE.
2. STAGGERED STEPS ARE 200mm WIDE, STEPS ARE STAGGERED 200 CENTRE TO CENTRE FOR ALL ALTERNATE STEPS.
3. SPACING OF STEPS ARE UNIFORM TO WITHIN ±2mm IN EACH PIT.



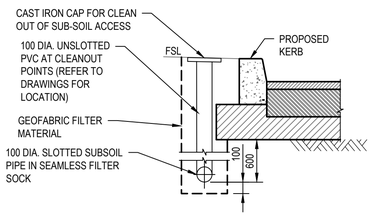
SUBSOIL IN PAVED AREAS

NTS



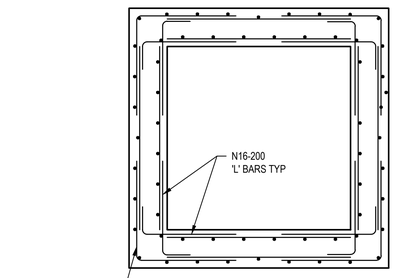
SUBSOIL IN LANDSCAPE AREAS

NTS



SUB-SURFACE DRAIN AND FLUSHING POINT DETAIL

NTS



SECTIONAL PLAN

NTS

DEVELOPMENT APPLICATION

D	ISSUED FOR DEVELOPMENT APPLICATION	MR	CS*	SM*	29.08.17
C	ISSUED FOR SSD SUBMISSION	MR	CS*	SM*	09.08.17
B	ISSUED FOR TENDER	MR	CS*	SM*	28.06.17
A	ISSUED FOR SSD DEVELOPMENT APPLICATION	MR	CS*	SM*	14.06.17
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

NSW GOVERNMENT Education

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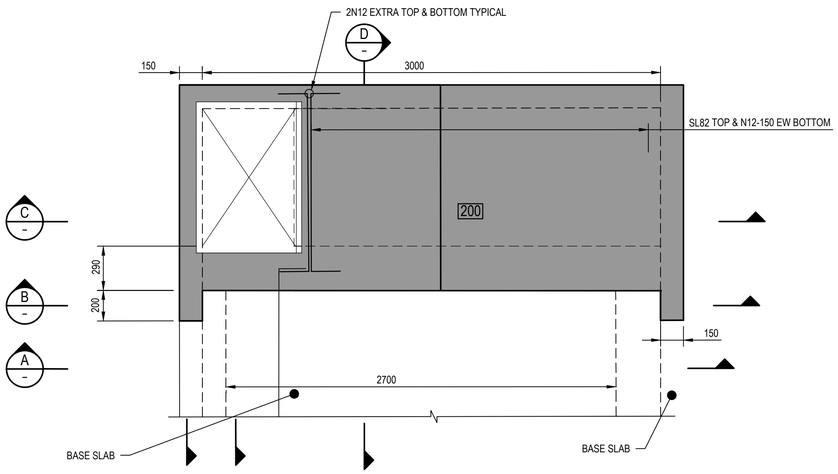
Drawn	M.RANGWALA	Designer	G.DE SWARDT
Drafting Check	A.MACLEAN*	Design Check	A.RAHMAN*
Approved (Project Director)			
Date			
Scale	NTS	This Drawing must not be used for Construction unless signed as Approved	

Client NSW DEPARTMENT OF EDUCATION
Project NORTH KELLYVILLE PUBLIC SCHOOL
Title CIVIL
STORMWATER DRAINAGE DETAILS-SHEET 1 OF 2

Original Size A1
Drawing No: 21-26108-NK-SD-CI-1015 Rev: D

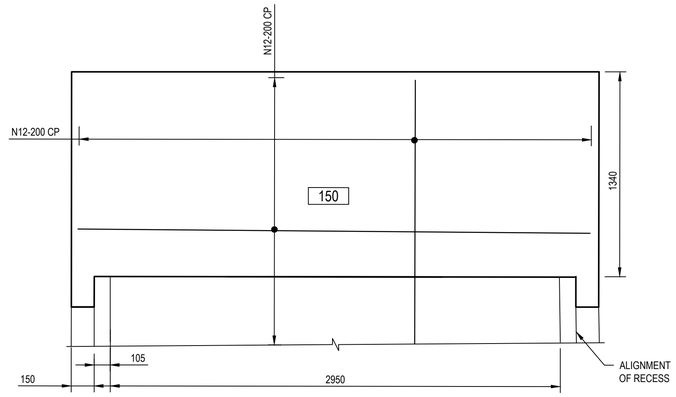
Plot Date: 29 August 2017 - 5:50 PM Plotted by: Mona Rangwala Cad File No: G:\21\26108\6. Kellyville North PSI\03 Civil\CADD\Drawings\D.A ISSUED\21-26108-KN-DA-CI-1015.dwg



TOP REINF PLAN - ACCESS CHAMBER & OSD (PIT A4 + A5)

SCALE 1:20

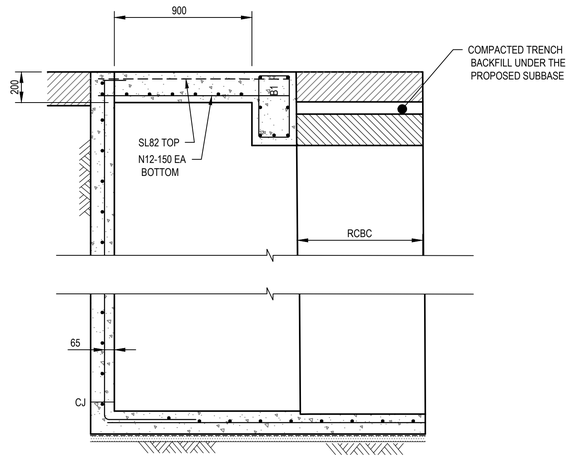
PIT CONCRETE ROOF SLAB



BOTTOM REINF PLAN - ACCESS CHAMBER & OSD

SCALE 1:20

PIT CONCRETE BASE SLAB



D SECTION

SCALE 1 : 20

A SECTION

SCALE 1 : 20

B SECTION

SCALE 1 : 20

C SECTION

SCALE 1 : 20

BEAM - B1 (SECTION)

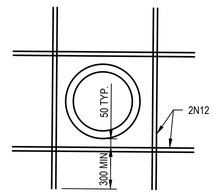
SCALE 1:20

NOTES:

1. STRUCTURAL CONCRETE STRENGTH TO BE N32 AND BLINDING CONCRETE TO BE N10 IN ACCORDANCE WITH AS 1379 AND AS 3600.
2. COVER TO REINFORCEMENT = 40mm UNLESS NOTED OTHERWISE.
3. DESIGN LOAD - TYPE F LIGHT VEHICLE TO AS 1170.1
4. EXPOSURE CLASSIFICATION - B1

ABBREVIATIONS

EW DENOTES EACH WAY
CP DENOTES CENTRALLY PLACED
CJ DENOTES CONSTRUCTION JOINT



PIPE PENETRATION DETAIL

SCALE 1:20

DEVELOPMENT APPLICATION

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
B	ISSUED FOR DEVELOPMENT APPLICATION		MR	CS*	SM*	29.08.17
A	ISSUED FOR SSD SUBMISSION		MR	CS*	SM*	09.08.17

0 0.2 0.4 0.6 0.8 1.0m
SCALE 1:20 AT ORIGINAL SIZE

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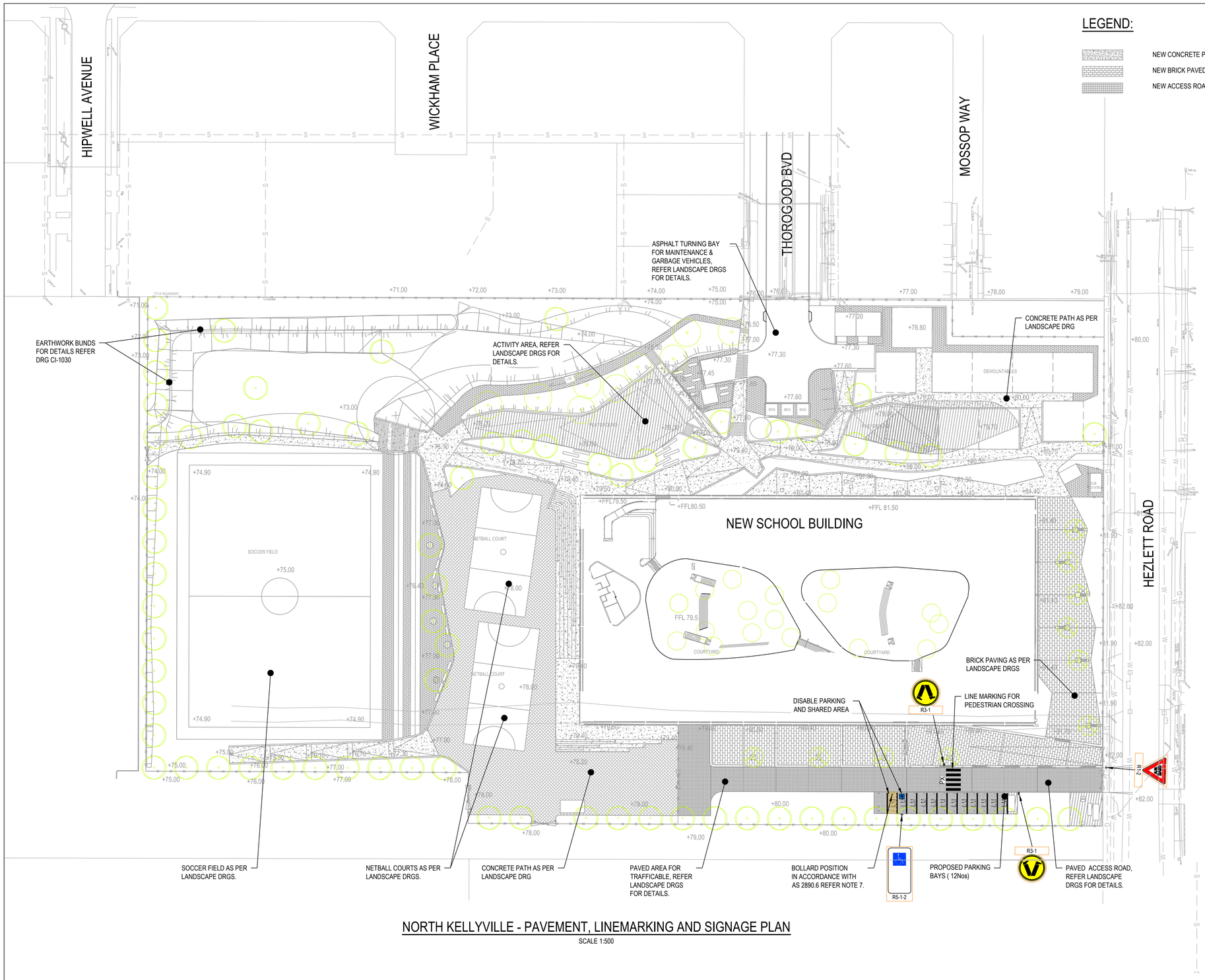
Drafting Check	A.MACLEAN*	Design Check	A.RAHMAN*
Approved (Project Director)			
Date			
Scale	1:20	This Drawing must not be used for Construction unless signed as Approved	

Client NSW DEPARTMENT OF EDUCATION
Project NORTH KELLYVILLE PUBLIC SCHOOL
Title CIVIL
STORMWATER DRAINAGE DETAILS-SHEET 2 OF 2

Original Size A1
Drawing No: 21-26108-NK-SD-CI-1016 Rev: B

Plot Date: 29 August 2017 - 5:50 PM Plotted by: Mona Rangwala Cad File No: G:\21\26108\6. Kellyville North PS\03 Civil\CADD\Drawings\D.A ISSUED\21-26108-KN-DA-CI-1016.dwg



LEGEND:

- NEW CONCRETE PAVED AREA
- NEW BRICK PAVED AREA (NON-TRAFFICABLE)
- NEW ACCESS ROAD PAVED AREA (TRAFFICABLE)

NOTES:

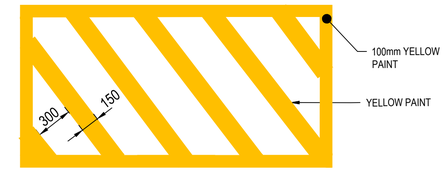
1. PAVEMENT AREAS ARE INDICATIVE ONLY

LINE MARKING AND SIGNAGE NOTES:

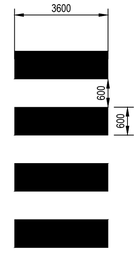
1. ALL LINE MARKINGS AND SIGNAGE IS APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF AS 2890 AND RMS STANDARDS, SPECIFICATIONS AND GUIDES.
2. LINE MARKING IN PARKING BAYS: PAINT IS WATER BASED - COLOUR 'WHITE'. LINE SHALL BE 100mm WIDE UNBROKEN LINE FOR PARKING. LINE MARKING OTHER THAN PARKING BAYS: PAINT IS WATER BASED WITH REFLECTIVE GLASS BEADS - COLOUR 'WHITE'.
3. LINE MARKING FOR DISABLED PARKING AREAS:
   - 3.1. PAINT IS WATER BASED WITH REFLECTIVE BEADS.
   - 3.2. COLOUR IS 'BLUE', 'YELLOW' AND 'WHITE AS PER AS/NZS2890.6 (2009).
   - 3.3. LINE MARKING AROUND THE DEDICATED DDA SPACES IS UNBROKEN 'YELLOW' LINES 100mm WIDE.
   - 3.4. THE SYMBOL OF ACCESS (WHEELCHAIR) IS WHITE (800mm HIGH) ON A BLUE SQUARE (1200mm x 1200mm), SITTING 500mm BACK IN THE SPACE AND CENTRED.
   - 3.5. THE SHARED SPACE OUTLINED WITH 'YELLOW' LINES 100mm WIDE ON ALL SIDES (EXCEPT ALONG KERB FACE) WITH 45° DIAGONAL STRIPES 150mm WIDE SPACED 300mm APART.
   - 3.6. ALL SPACES DELINEATED IN ACCORDANCE WITH AS/NZS2890.6 (2009).
4. ALL EXISTING SIGNS AFFECTED BY PROPOSED WORKS SHALL BE REINSTATED IF IN GOOD CONDITION, OTHERWISE THEY SHALL BE REPLACED.
5. ALL SIGNS ARE TO BE ANTI-GRAFFITI COATED.
6. ALL SIGNS ARE TO BE TYPE 'A' UNLESS NOTED OTHERWISE ON PLAN.
7. BOLLARDS TO BE HEAVY DUTY GALVANISED STEEL "SECURAPOST" FIXED BOLLARDS 125NB (IBR125B) BY LEDA SECURITY PRODUCTS OR APPROVED EQUIVALENT TO BE CONCRETED INTO THE GROUND. FINISH SHALL BE FACTORY POWDER COAT TO AS 3715 IN 'INDUSTRIAL YELLOW'. WALL THICKNESS TO BE NOM. 5.4mm. BOLLARD TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS AND DETAILS.

LINEMARKING AND SIGNAGE ABBREVIATIONS

LM	PARKING LINE MARKING
PX	PEDESTRIAN CROSSING



CHEVRON LINEMARKING
(DISABLED PARKING/ SHARED SPACE)



LINEMARKING FOR PEDESTRIAN CROSSING (PX)

NORTH KELLYVILLE - PAVEMENT, LINEMARKING AND SIGNAGE PLAN

SCALE 1:500

DEVELOPMENT APPLICATION

No	Revision	Drawn	Job Manager	Project Director	Date
D	ISSUED FOR DEVELOPMENT APPLICATION	MR	CS*	SM*	29.08.17
C	ISSUED FOR SSD SUBMISSION	MR	CS*	SM*	09.08.17
B	ISSUED FOR TENDER	MR	CS*	SM*	28.06.17
A	40% SCHEME/TENDER ISSUE	MR	CS*	SM*	16.06.17

Note: * indicates signatures on original issue of drawing or last revision of drawing

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

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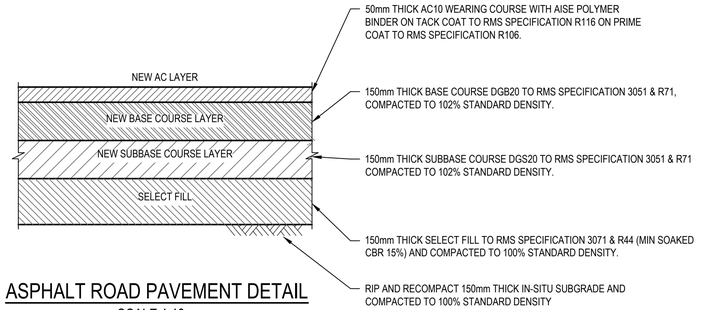
Drawn	M.RANGWALA	Designer	G.DE SWARDT
Drafting Check	A.MACLEAN*	Design Check	A.RAHMAN*
Approved (Project Director)			
Date			
Scale	1:500	This Drawing must not be used for Construction unless signed as Approved	

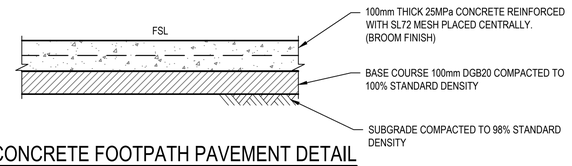
Client: NSW DEPARTMENT OF EDUCATION
Project: NORTH KELLYVILLE PUBLIC SCHOOL
Title: CIVIL
PAVEMENT, LINE MARKING & SIGNAGE PLAN

Original Size: A1
Drawing No: 2126108-NK-SD-CI-1020
Rev: D

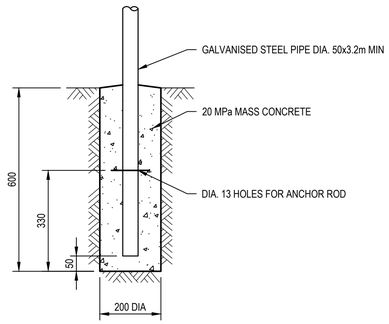
Plot Date: 29 August 2017 - 5:50 PM
Plotted by: Mona Rangwala
Cad File No: G:\21\26108\6. Kellyville North PS\03 Civil\CADD\Drawings\D.A ISSUED\21-26108-KN-DA-CI-1020.dwg



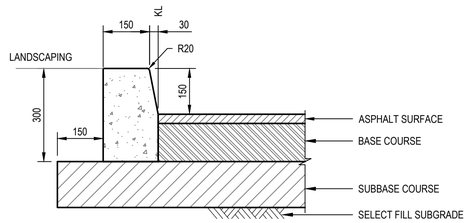
ASPHALT ROAD PAVEMENT DETAIL
SCALE 1:10



CONCRETE FOOTPATH PAVEMENT DETAIL
SCALE-1:10

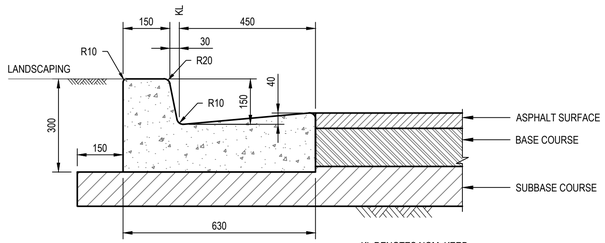


SIGNPOST FOOTING DETAIL
SCALE 1:10



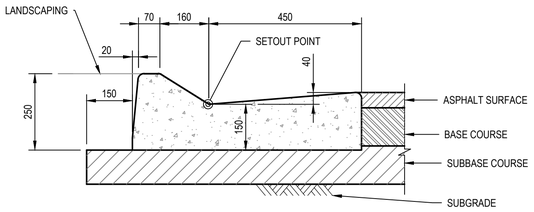
KERB ONLY (KO)
SCALE 1:10

KL DENOTES NOM. KERB SETOUT LINE

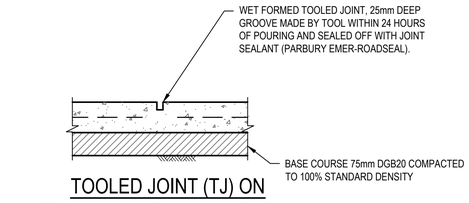


KERB & GUTTER (KG)
SCALE 1:10

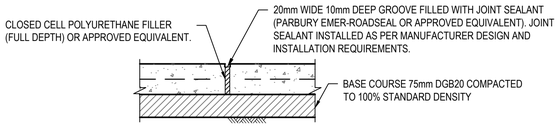
KL DENOTES NOM. KERB SETOUT LINE



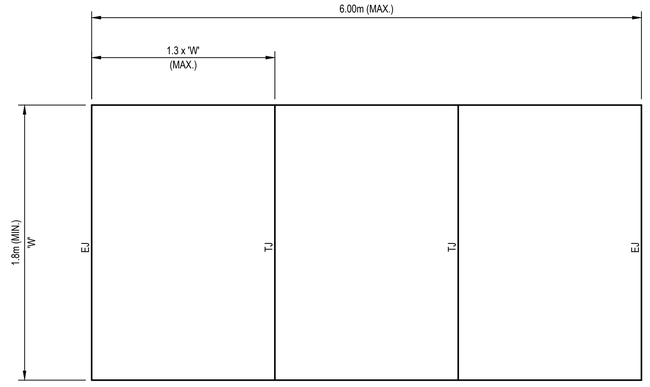
MOUNTABLE KERB & GUTTER (MK&G)
SCALE 1:10



TOOLED JOINT (TJ) ON CONCRETE FOOTPATH DETAIL
NTS



EXPANSION JOINT (EJ) ON CONCRETE FOOTPATH DETAIL
NTS



TJ: TOOL JOINT
EJ: EXPANSION JOINT

TYPICAL FOOTPATH JOINT DETAIL
NTS

DEVELOPMENT APPLICATION

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
D	ISSUED FOR DEVELOPMENT APPLICATION		MR	CS*	SM*	29.08.17
C	ISSUED FOR SSD SUBMISSION		MR	CS*	SM*	09.08.17
B	ISSUED FOR TENDER		MR	CS*	SM*	28.06.17
A	ISSUED FOR SSD DEVELOPMENT APPLICATION		MR	CS*	SM*	09.06.17

0 0.1 0.2 0.3 0.4 0.5m
SCALE 1:10 AT ORIGINAL SIZE

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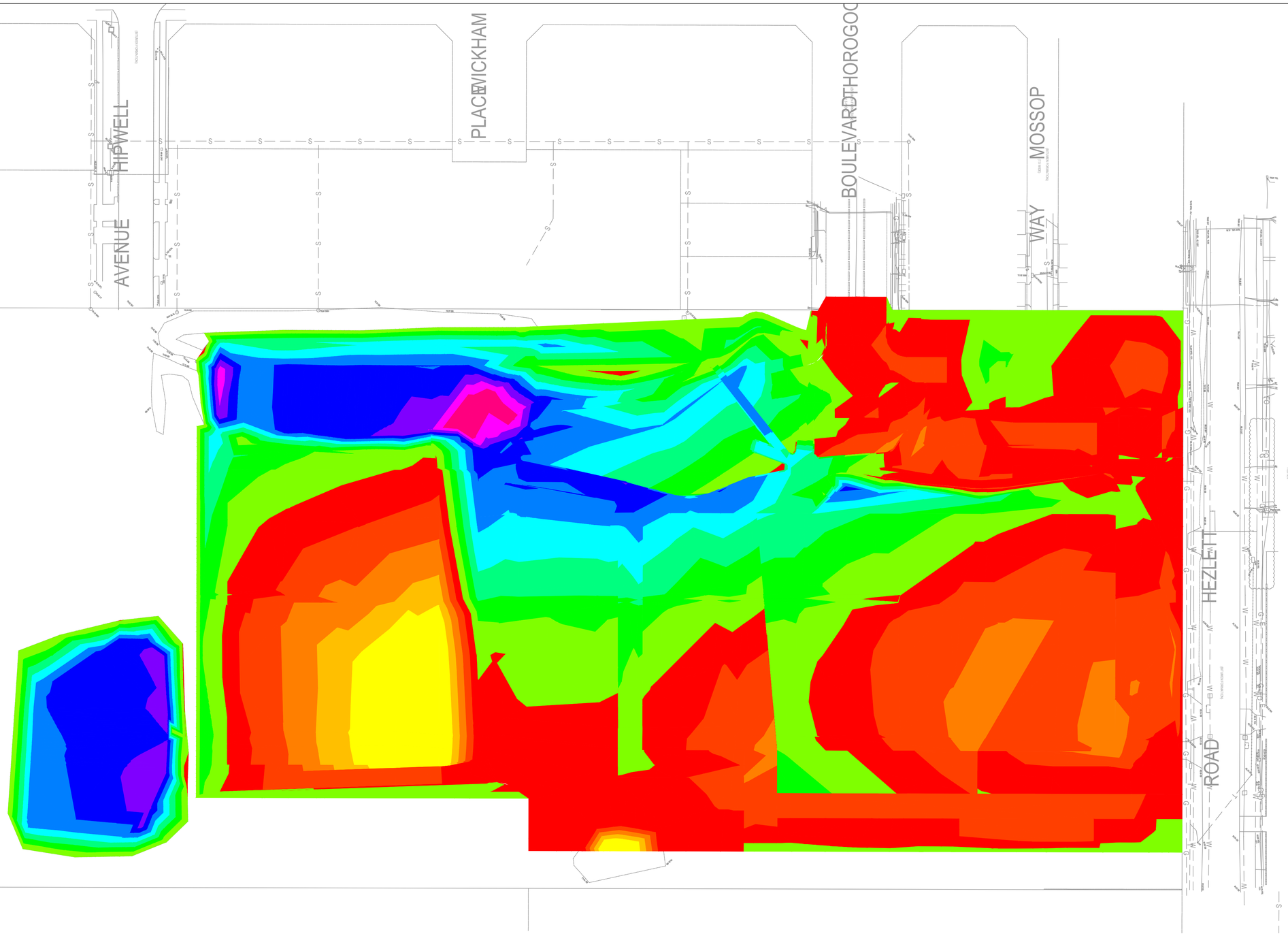
Drawn M.RANGWALA		Designer G.DE SWARDT	
Drafting Check A.MACLEAN*		Design Check A.RAHMAN*	
Approved (Project Director)			
Date			
Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved		

Client **NSW DEPARTMENT OF EDUCATION**
Project **NORTH KELLYVILLE PUBLIC SCHOOL**
Title **CIVIL**
CIVIL- ROAD WORKS DETAILS

Original Size **A1**
Drawing No: **21-26108-NK-SD-CI-1025** Rev: **D**

Plot Date: 29 August 2017 - 5:51 PM Plotted by: Mona Rangwala
Cad File No: G:\21\26108\6. Kellyville North PS\03 Civil\CADD\Drawings\D.A ISSUED\21-26108-KN-DA-CI-1025.dwg



Surface Analysis: Elevation Ranges			
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1		-3.000	-2.500
2		-2.500	-2.000
3		-2.000	-1.500
4		-1.500	-1.000
5		-1.000	-0.500
6		-0.500	0.000
7		0.000	0.500
8		0.500	1.000
9		1.000	1.500
10		1.500	2.000
11		2.000	2.500
12		2.500	3.000
13		3.000	3.500
14		3.500	4.000
15		4.000	4.500
16		4.500	5.000

APPROX .EARTHWORKS VOLUMES
CUT 10496m³ (Includes 2929m³ of 100mm Stripping Layer)
FILL 19309m³ (Includes 4590m³ to Fill South-western dam)
NET 8813m³ Fill required

NOTES:

1. CUT AND FILL VOLUMES ARE INDICATIVE ONLY WITH FINAL DESIGN LEVELS YET TO BE CONFIRMED.
2. CUT AND FILL VOLUMES DOES NOT ACCOUNT FOR CLEARING AND GRUBBING VOLUMES.
3. CUT AND FILL VOLUMES ARE BASED ON AN AERIAL SURVEY.
4. CUT AND FILL VOLUMES DOES NOT CONSIDER ANY GEOTECHNICAL REQUIREMENTS OF SOIL AT THIS STAGE.
5. EARTHWORK LEVELS ARE GENERALLY LOWER THAN FINISHED LEVELS TO ALLOW FOR FINISHED SURFACE TREATMENTS. THE DIFFERENCE BETWEEN FINISHED SURFACE LEVELS AND EARTHWORKS LEVELS ARE APPROXIMATELY:

   BUILDING SLAB = 350mm
   CONCRETE FOOTPATH = 175mm
   PAVER TYPE 1 (NON-TRAFFICABLE) = 190mm
   PAVER TYPE 2 (TRAFFICABLE) = 350mm
   COMPACTED TOPPING = 150mm
   ROAD PAVEMENT = 340mm
   SPORTSFIELD TURF = 200mm

NORTH KELLYVILLE - EARTHWORKS PLAN

SCALE 1:500

DEVELOPMENT APPLICATION

No	Revision	Drawn	Job Manager	Project Director	Date
D	ISSUED FOR DEVELOPMENT APPLICATION	MR	CS*	SM*	29.08.17
C	ISSUED FOR SSD SUBMISSION	MR	CS*	SM*	09.08.17
B	ISSUED FOR TENDER	MR	CS*	SM*	28.06.17
A	ISSUED FOR SSD DEVELOPMENT APPLICATION	MR	CS*	SM*	14.06.17

Note: * indicates signatures on original issue of drawing or last revision of drawing

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

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Drawn	M.RANGWALA	Designer	G.DE SWARDT
Drafting Check	A.MACLEAN*	Design Check	A.RAHMAN*
Approved (Project Director)			
Date			
Scale	1:500	This Drawing must not be used for Construction unless signed as Approved	

Client NSW DEPARTMENT OF EDUCATION
Project NORTH KELLYVILLE PUBLIC SCHOOL
Title CIVIL
EARTHWORKS PLAN

Original Size A1 Drawing No: 2126108-NK-SD-CI-1030 Rev: D

Plot Date: 29 August 2017 - 5:51 PM Plotted by: Mona Rangwala Cad File No: G:\21\26108\6. Kellyville North PS\03 Civil\CADD\Drawings\D.A ISSUED\21-26108-KN-DA-CI-1030.dwg

HIPWELL AVENUE

WICKHAM PLACE

MOSSOP WAY

HEZLETT ROAD

NEW SCHOOL BUILDING

PROPOSED SEDIMENT BASIN
10000 x 4000 x 1500.
OUTLET FROM SEDIMENT
BASIN DISCHARGE TO
NEAREST DRAINAGE SYSTEM

PROPOSED LOCATION
OF SHAKER GRID

PROPOSED LOCATION
OF SHAKER GRID

LEGEND:

PROPOSED SEDIMENT FENCE

PROPOSED GEOTEXTILE FILTER

SHAKER GRID (TEMP ACCESS)

NOTES:

1. ALL WORKS SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH:
   (A) EPA - POLLUTION CONTROL MANUAL FOR URBAN STORMWATER.
   (B) DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT MANUAL - "URBAN EROSION & SEDIMENT CONTROL".
   (C) SOIL AND CONSTRUCTION VOLUME 1, 4TH EDITION, MARCH 2004 - LANDCOM
2. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE PRINCIPAL'S REPRESENTATIVE.
3. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
4. PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.
5. 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.
6. CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.
7. ALL CONSTRUCTION VEHICLES SHALL ENTER & EXIT THE SITE VIA THE APPROVED CONSTRUCTION ENTRY/EXIT ROUTE.
8. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED & INSPECTED BEFORE LEAVING.
9. MAINTAIN ALL STORMWATER PIPES CLEAR OF DEBRIS & SEDIMENT. INSPECT STORMWATER SYSTEM & CLEAN OUT AFTER EACH STORM EVENT.
10. CLEAN OUT ALL EROSION & SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT.
11. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY.
12. STORMWATER ON THIS DRAWING IS INDICATIVE ONLY. ALL NEW STORMWATER PITS TO BE SURROUNDED BY GEOTEXTILE INLET FILTER.

KELLYVILLE NORTH - EROSION AND SEDIMENT CONTROL PLAN

SCALE 1:500

DEVELOPMENT APPLICATION

No	Revision	Drawn	Job Manager	Project Director	Date
D	ISSUED FOR DEVELOPMENT APPLICATION	MR	CS*	SM*	29.08.17
C	ISSUED FOR SSD SUBMISSION	MR	CS*	SM*	09.08.17
B	ISSUED FOR TENDER	MR	CS*	SM*	28.06.17
A	ISSUED FOR SSD DEVELOPMENT APPLICATION	MR	CS*	SM*	14.06.17

Note: * indicates signatures on original issue of drawing or last revision of drawing

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

N

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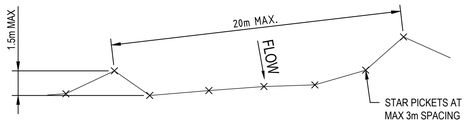
Drawn	M.RANGWALA	Designer	G.DE SWARDT
Drafting Check	A.MACLEAN*	Design Check	A.RAHMAN*
Approved (Project Director)			
Date			
Scale	1:500	This Drawing must not be used for Construction unless signed as Approved	

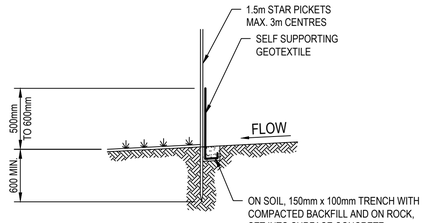
Client NSW DEPARTMENT OF EDUCATION
Project NORTH KELLYVILLE PUBLIC SCHOOL
Title CIVIL
EROSION AND SEDIMENT CONTROL PLAN

Original Size A1
Drawing No: 2126108-NK-SD-CI-1035 Rev: D

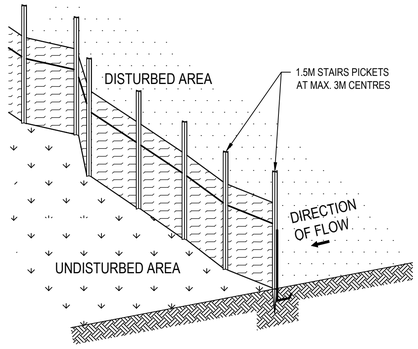
Plot Date: 29 August 2017 - 5:51 PM Plotted by: Mona Rangwala
Cad File No: G:\21\26108\6. Kellyville North PSI\03 Civil\CADD\Drawings\D.A ISSUED\21-26108-KN-DA-CI-1035.dwg



SEDIMENT FENCE PLAN
NTS



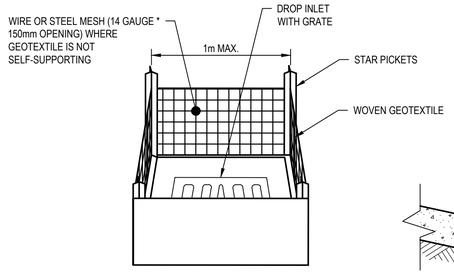
SEDIMENT FENCE SECTION
NTS



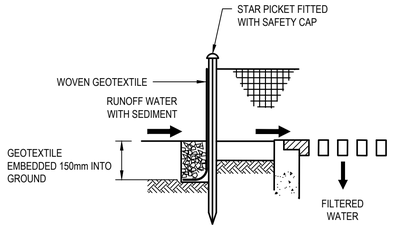
SEDIMENT FENCE
NTS

SILT FENCE CONSTRUCTION NOTES

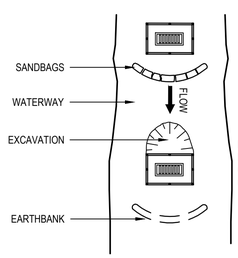
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5m LONG STAR PICKETS INTO GROUND, 3m APART.
3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILLL TRENCH OVER BASE OF FABRIC.
5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POST WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.



GEOTEXTILE INLET FILTERS
NTS



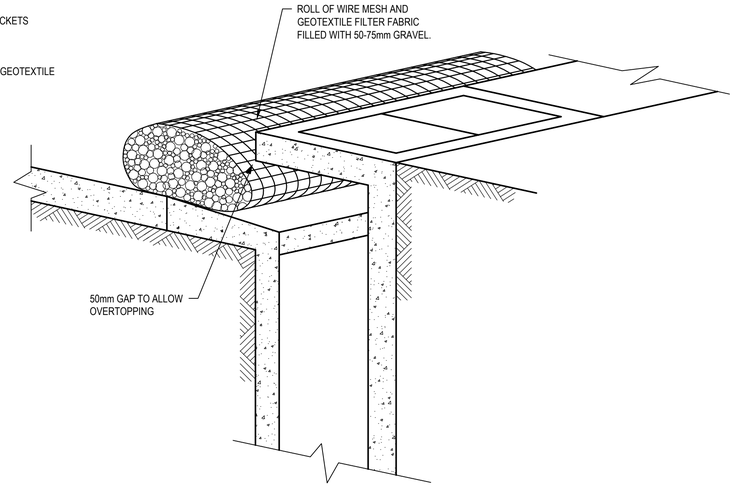
GEOTEXTILE INLET FILTERS SECTION
NTS



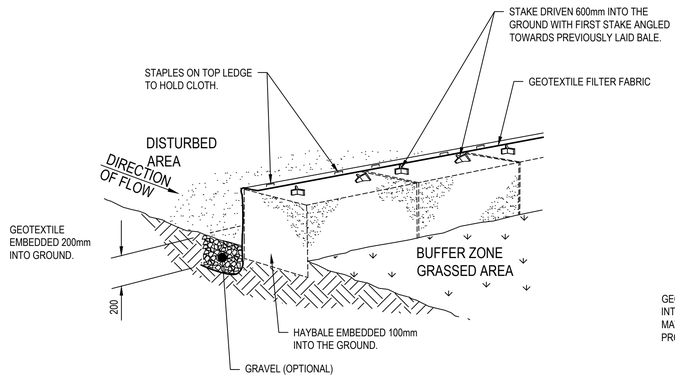
GEOTEXTILE INLET FILTER PLAN
NTS

CONSTRUCTION NOTES

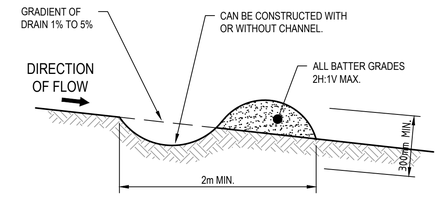
1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. SUPPORT GEOTEXTILE WITH MESH TIED TO POST AT 1m CENTRES
3. DO NOT COVER INLET WITH GEOTEXTILE.



KERB INLET FILTERS
NTS



HAY BALE AND GEOTEXTILE SEDIMENT FILTER
NTS

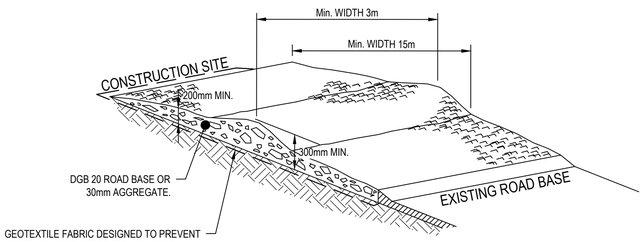


NOTE:
ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

EARTH BANK (LOW FLOW)
NTS

EARTH BANK (LOW FLOW) CONSTRUCTION SEQUENCE

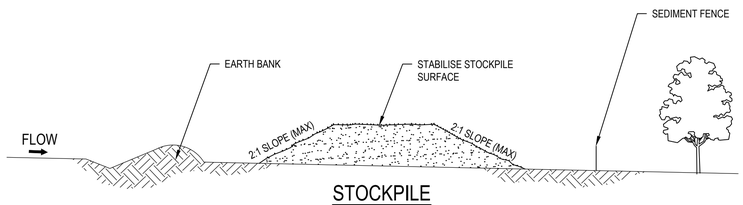
1. CONSTRUCT WITH GRADIENT OF 1% TO 5%.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE.
3. DRAINS TO BE OF CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTION NOT V-SHAPED.
4. EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE.
5. PERMANENT OR TEMPORARY STABILISATION OF THE EARTH BANK TO BE COMPLETED WITHIN 10 DAYS OF CONSTRUCTION.
6. ALL OUTLETS FROM DISTURBED LANDS ARE TO BE FEED INTO A SEDIMENT BASIN OR SIMILAR.
7. DISCHARGE RUNOFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILISED OR AN UNDISTURBED DISPOSAL SITE WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED.
8. COMPACTED BANK WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS.
9. EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT WILL IMPEDE NORMAL FLOW.



STABILISED SITE ACCESS DETAIL
NTS

STABILISED SITE ACCESS CONSTRUCTION NOTES

1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE - PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP.



STOCKPILE
NTS

STOCKPILE CONSTRUCTION

1. LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS A LOW, FAT, ELONGATED MOUND.
3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. REHABILITATE IN ACCORDANCE WITH THE CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

DEVELOPMENT APPLICATION

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
C	ISSUED FOR DEVELOPMENT APPLICATION		MR	CS*	SM*	29.08.17
B	ISSUED FOR SSD SUBMISSION		MR	CS*	SM*	09.08.17
A	ISSUED FOR SSD DEVELOPMENT APPLICATION		MR	CS*	SM*	14/06/17

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DO NOT SCALE

Drawn	M.RANGWALA	Designer	G.DE SWARDT
Drafting Check	A.MACLEAN*	Design Check	A.RAHMAN
Approved (Project Director)			
Date			
Scale	AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	

Client THE DEPARTMENT OF EDUCATION
Project NORTH KELLYVILLE PUBLIC SCHOOL
Title CIVIL
SEDIMENT CONTROL DEVICES

Original Size A1
Drawing No: 21-26108-NK-SD-CI-1036 Rev: C

Plot Date: 29 August 2017 - 5:52 PM Plotted by: Mona Rangwala Cad File No: G:\21\26108\6. Kellyville North PS\03 Civil\CADD\Drawings\D.A ISSUED\21-26108-KN-DA-CI-1036.dwg