KENT ROAD PUBLIC SCHOOL DEVELOPMENT

CIVIL WORKS

LOCALITY PLAN
SCALE 1:1000

CITY OF RYDE
APPROVED FOR CONSTRUCTION
Signed.....
Date.....9/07/2021.....
Subject to the Conditions of Development Consent

RTC Approval 25/02/2021

DRAWING SCHEDULE

DRAWING NUMBER	DRAWING NAME
C01	COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE
C02	GENERAL NOTES AND LEGENDS
C03	OVERALL GENERAL ARRANGEMENT PLAN
C04	SEDIMENT AND EROSION CONTROL PLAN & DETAILS
C10	SITEWORKS PLAN
C11	PAVEMENT PLAN
C12	SIGNAGE AND LINEMARKING PLAN
C13	TYPICAL SECTION
C15	LONGITUDINAL SECTION
C16	CROSS SECTIONS, SHEET 1
C17	CROSS SECTIONS, SHEET 2
C20	TYPICAL DETAILS, SHEET 1
C21	TYPICAL DETAILS, SHEET 2
C22	TYPICAL DETAILS, SHEET 3

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REV	DESCRIPTION	CHK	DR	DATE
P2	ISSUE FOR APPROVAL	SF	LA	22.06.21
P1	ISSUE FOR REVIEW	SF	LA	30.04.21

CLIENT: NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

ENGINEER: TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

PROJECT: KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME: COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE

SCALE : A1	DRAWN BY	AUTHORISED BY
1:1000	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C01	P2

Plot File Created: Jun 22, 2021 - 10:10am

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, the Contractor is to ensure that the drawings used for construction have been approved by all relevant authorities prior to commencement site.
6. 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.
7. For all temporary batters refer to geotechnical recommendations.

REFERENCE DRAWINGS

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

Consultant	Dwg Title	Dwg No	Rev	Date
MEPSTEAD & ASSOCIATES	PLAN OF DETAIL & LEVELS OVER PART OF HERRING ROAD AND KENT ROAD MARSFIELD	5650-DET2_A	A	12.04.21
UTILITY MAPPING	UNDERGROUND UTILITY SURVEY	NSW21-0138-US-01 R1		16.04.21

SURVEY AND SERVICES INFORMATION

SURVEY

Origin of levels : RL 71.096
Datum of levels : A.H.D. AUSTRALIAN HEIGHT DATUM
Coordinate system : MGA
Survey prepared by : MEPSTEAD & ASSOCIATES
Setout Points : PM 50022

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 the relevant state survey department, to remove/adjust 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:

MEPSTEAD & ASSOCIATES DATED 12.04.2021
9/4 CENTRAL AVE, THORNLEIGH NSW 2120
PH: 02 9875 4500

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.

SAFETY IN DESIGN

Contractor to refer to Appendix B of the Civil Specification for the Civil Risk and Solutions Register.

EXISTING SERVICES

Contractor to be aware existing services are located within the site. Location of all services to be verified by the Contractor prior to commencing works. Contractor to confirm with relevant authority regarding measures to be taken to ensure services are protected or procedures are in place to demolish and/or relocate.

EXISTING STRUCTURES

Contractor to be aware existing structures may exist within the site. To prevent damage to existing structure(s) and/or personnel, site works to be carried out as far as practicably possible from existing structure(s).

EXISTING TREES

Contractor to be aware existing trees exist within the site which need to be protected. To prevent damage to trees and/or personnel, site works to be carried out as far as practicably possible from existing trees. Advice needs to be sought from Arborist and/or Landscape Architect on measures required to protect trees.

GROUNDWATER

Contractor to be aware ground water levels are close to existing surface level. Temporary de-watering may be required during construction works.

EXCAVATIONS

Deep excavations due to stormwater drainage works is required. Contractor to ensure safe working procedures are in place for works. All excavations to be fenced off and batters adequately supported to approval of Geotechnical Engineer.

GROUND CONDITIONS

Contractor to be aware of the site geotechnical conditions, refer to geotechnical report by (insert report details) for details.

HAZARDOUS MATERIALS

Existing asbestos products & contaminated material may be present on site. Contractor to ensure all hazardous materials are identified prior to commencing works. Safe working practices as per relevant authority to be adopted and appropriate PPE to be used when handling all hazardous materials. Refer to geotechnical/environmental report by (insert report details) for details.

CONFINED SPACES

Contractor to be aware of potential hazards due to working in confined spaces such as stormwater pits, trenches and/or tanks. Contractor to provide safe working methods and use appropriate PPE when entering confined spaces.

MANUAL HANDLING

Contractor to be aware manual handling may be required during construction. Contractor to take appropriate measures to ensure manual handling procedures and assessments are in place prior to commencing works.

WATER POLLUTION

Contractor to ensure appropriate measures are taken to prevent pollutants from construction works contaminating the surrounding environment.

SITE ACCESS/EGRESS

Contractor to be aware site works occur in close proximity to footpaths and roadways. Contractor to erect appropriate barriers and signage to protect site personnel and public.

VEHICLE MOVEMENT

Contractor to supply and comply with traffic management plan and provide adequate site traffic control including a certified traffic marshall to supervise vehicle movements where necessary.

SITEWORKS NOTES

1. All basecourse material to comply with RMS specification No 3051 and compacted to minimum 98% modified standard dry density in accordance with AS 1289 5.2.1.
2. All trench backfill material shall be compacted to the same density as the adjacent 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 5.1.1.

TENDER NOTES

1. These drawings are preliminary drawings issued for tender as an indication of the extent of works only. They are not a complete construction set of drawings.
2. To determine the full extent of work, these drawings shall be read in conjunction with the architectural drawings and other contract documents. Allow for all items shown on architectural and other drawings as not all items are shown on the structural/civil works drawings. Should any ambiguity, error, omissions, discrepancy, inconsistency or other fault exist or seem to exist in the documents, immediately notify in writing to the Superintendent.
3. Rates shown on the drawings are for the final structure/civil works in place and do not allow for any wastage, rolling margins, over supply or fabrication requirements etc.

STORMWATER DRAINAGE NOTES

2. Pipes 300 dia and larger to be reinforced concrete Class "3" approved spigot and socket with rubber ring joints U.N.O.
3. Pipes up to 300 dia may be sewer grade uPVC with solvent welded joints, subject to approval by the engineer.
4. Equivalent strength VCP or FRP pipes may be used subject to approval.
5. Precast pits may be used external to the building subject to approval by
6. Enlargers, connections and junctions to be manufactured fittings where pipes are less than 300 dia.
7. Where subsoil drains pass under floor slabs and vehicular pavements, unslotted uPVC sewer grade pipe is to be used.
8. Grates and covers shall conform with AS 3996-2006, and AS 1428.1 for access requirements.
9. Pipes are to be installed in accordance with AS 3725. All bedding to be type H2 U.N.O.
10. Care is to be taken with invert levels of stormwater lines. Grades shown are not to be reduced without approval.
11. All stormwater pipes to be 150 dia at 1.0% min fall U.N.O.
12. Subsoil drains to be slotted flexible uPVC U.N.O.
13. Adopt invert levels for pipe installation (grades shown are only nominal).

CONCRETE FINISHING NOTES

1. All exposed concrete pavements are to be broomed finished.
2. All edges of the concrete pavement including keyed and dowelled joints are to be finished with an edging tool.
3. Concrete pavements with grades greater than 10 % shall be heavily broomed finished.
4. Carborundum to be added to all stair treads and ramped crossings U.N.O.

CONCRETE NOTES

EXPOSURE CLASSIFICATION : External : B2

CONCRETE

Place concrete of the following characteristic compressive strength f'c as defined in AS 1379.

Location	AS 1379 f'c MPa at 28 days	Specified Slump	Nominal Agg. Size
Kerbs	S20	80	20
Retaining wall footing	S40	80	20

1. Use Type 'GP' cement, unless otherwise specified.
2. All concrete shall be subject to project assessment and testing to AS 1379.
3. Consolidate by mechanical vibration. Cure all concrete surfaces as directed in the Specification.
4. For all falls in slab, drip grooves, regtets, chamfers etc. refer to Architects drawings and specifications.
5. Unless shown on the drawings, the location of all construction joints shall be submitted to Engineer for review.
6. No holes or chases shall be made in the slab without the approval of the Engineer.
7. Conduits and pipes are to be fixed to the underside of the top reinforcement layer.
8. Slurry used to lubricate concrete pump lines is not to be used in any structural members.
9. All slabs cast on ground require sand blinding with a Concrete Underlay.

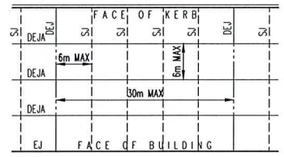
FORMWORK

1. The design, certification, construction and performance of the formwork, falsework and backpropping shall be the responsibility of the contractor. Proposed method of installation and removal of formwork is to be submitted to the superintendent for comment prior to work being carried out.

JOINTING NOTES

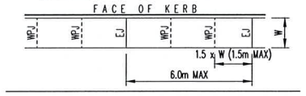
Vehicular Pavement Jointing

1. All vehicular pavements to be jointed as shown on drawings.
2. Keyed construction joints should generally be located at a maximum of 6m centres.
3. Sawn joints should generally be located at a maximum of 6m centres or 1.5 x the spacing of keyed joints, where key joint spacing is less than 4m, with dowelled expansion joints at maximum of 30m centres.
4. Provide 10mm wide full depth expansion joints between buildings and all concrete or unit pavers.
5. The timing of the saw cut is to be confirmed by the contractor on site. Site conditions will determine how many hours after the concrete pour before the saw cuts are commenced. Refer to the specification for weather conditions and temperatures required. Vehicular pavement jointing as follows:



Pedestrian Footpath Jointing

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 pavement.
3. Where possible joints should be located to match kerbing and/or adjacent pavement joints.
4. All pedestrian footpath jointings as follows U.N.O.



KERBING NOTES

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

1. All kerbs, gutters, dish drains and crossings to be constructed on 75mm (MIN) granular basecourse compacted to minimum 98% modified maximum dry density in accordance with AS 1289 5.2.1.
2. Expansion joints (EJ) to be formed from 10mm compressible cork filler board for the full depth of the section and cut to profile. Expansion joints to be located at drainage pits, on tangent points of curves and elsewhere at 12m centres except for integral kerbs where the expansion joints are to match the joint locations in slabs.
3. Weakened plane joints to be min 3mm wide and located at 3m centres except for integral kerbs where weakened plane joints are to match the joint locations in slabs.
4. Broomed 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 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 ø100mm hole. Existing kerbs are to be completely removed where new kerbs are shown.

REINFORCEMENT NOTES

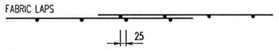
1. Fix reinforcement as shown on drawings. The type and grade is indicated by a symbol as shown below. On the drawings this is followed by a numeral which indicates the size in millimetres of the reinforcement.

   N. Hot rolled ribbed bar grade D500N
   R. Plain round bar grade R250N
   SL. Square mesh grade 500L
   RL. Rectangular mesh grade 500L

2. Provide bar supports or spacers to give the following concrete cover to all reinforcement unless otherwise noted on drawings.

   Footings – 50 top, 50 bottom, 50 sides.
   Walls – 30 generally.
   – 30 when cast in forms but later exposed to weather or ground.
   – .. when cast directly in contact with ground.

3. Cover to reinforcement ends to be 50mm U.N.O.
4. Provide N12-450 support bars to top reinforcement as required, Lap 500 U.N.O.
5. Maintain cover to all pipes, conduits, regtets, drip grooves etc.
6. All cogs to be standard cogs unless noted otherwise.
7. Fabric end and side laps are to be placed strictly in accordance with the manufacturers requirements to achieve a full tensile lap. Fabric shall be laid so that there is a maximum of 3 layers at any location.



8. Laps in reinforcement shall be made only where shown on the drawings unless otherwise approved. Lap lengths as per table below.

NOTE:
ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CITY OF RYDE CONSTRUCTION SPECIFICATIONS.

CITY OF RYDE
APPROVED FOR CONSTRUCTION
Signed.....
Date..... 9/07/2021
Subject to the Conditions of ~~Development Consent~~
RTC Approval 25/02/2021

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REV	DESCRIPTION	CHK	DR	DATE
P2	ISSUE FOR APPROVAL	SF	LA	22.06.21
P1	ISSUE FOR REVIEW	SF	LA	30.04.21

CLIENT: NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

ENGINEER: TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

PROJECT: KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME: GENERAL NOTES AND LEGENDS

SCALE : A1	DRAWN BY	AUTHORISED BY
N/A	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C02	P2

Plot File Created: Jun 21, 2021 - 2:52pm

OVERALL PLAN
N.T.S

CITY OF RYDE
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INSET
1:100

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REV	DESCRIPTION	CHK	DR	DATE
P2	ISSUE FOR APPROVAL	SF	LA	22.06.21
P1	ISSUE FOR REVIEW	SF	LA	30.04.21

CLIENT:
NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

ENGINEER:
TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

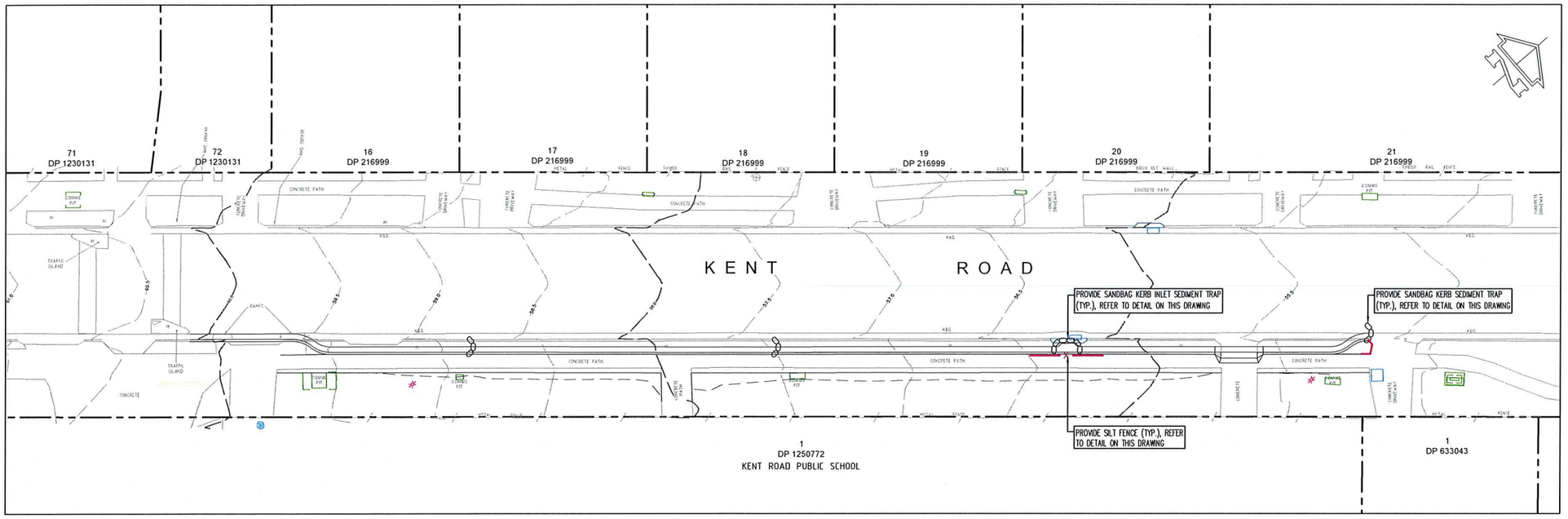
PROJECT:
KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME:
OVERALL GENERAL ARRANGEMENT PLAN

SCALE : A1	DRAWN BY	AUTHORISED BY
AS SHOWN	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C03	P2

Plot File Created: Jun 21, 2021 - 2:54pm

NOTE:
ALL PROPOSED SEDIMENT AND EROSION CONTROL WORKS AND DETAILS TO THE CITY OF RYDE STANDARD DETAILS ON DRAWING ESC.1 AND ESC.5 FOR DETAILS.



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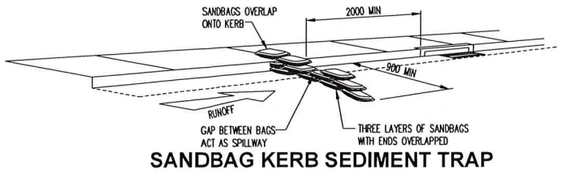
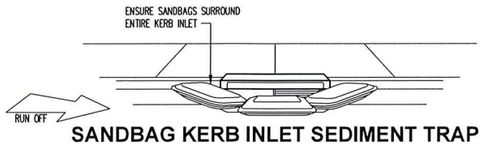
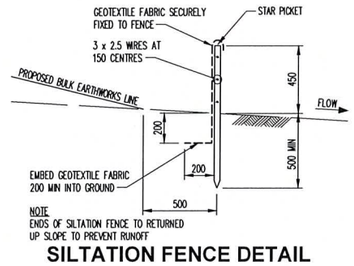


SANDBAG KERB SEDIMENT TRAP
NTS



SANDBAG KERB INLET SEDIMENT TRAP
NTS



SILTATION FENCE DETAIL
SCALE 1:20

GENERAL LEGEND

EXISTING PROPERTY BOUNDARY

SEDIMENT AND EROSION LEGEND

SILTATION FENCE

SANDBAG SEDIMENT TRAP

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.

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REV	DESCRIPTION	CHK	DR	DATE
P2	ISSUE FOR APPROVAL	SF	LA	22.06.21
P1	ISSUE FOR REVIEW	SF	LA	30.04.21

CLIENT: NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

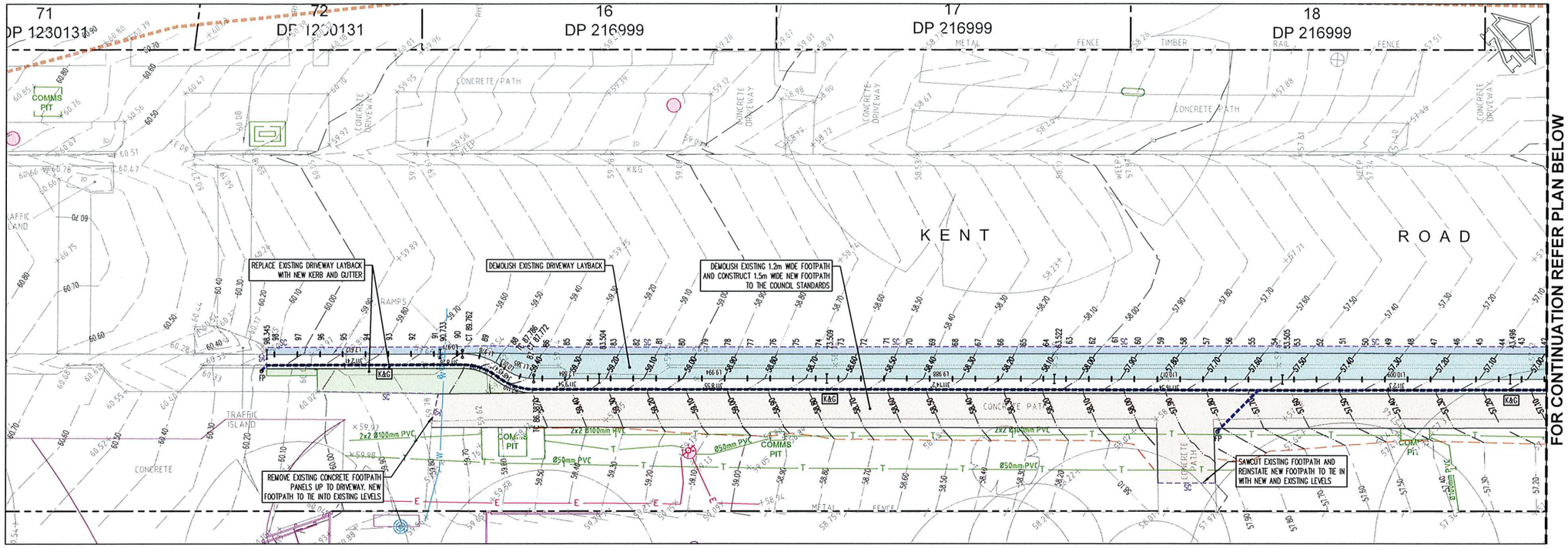
ENGINEER: TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

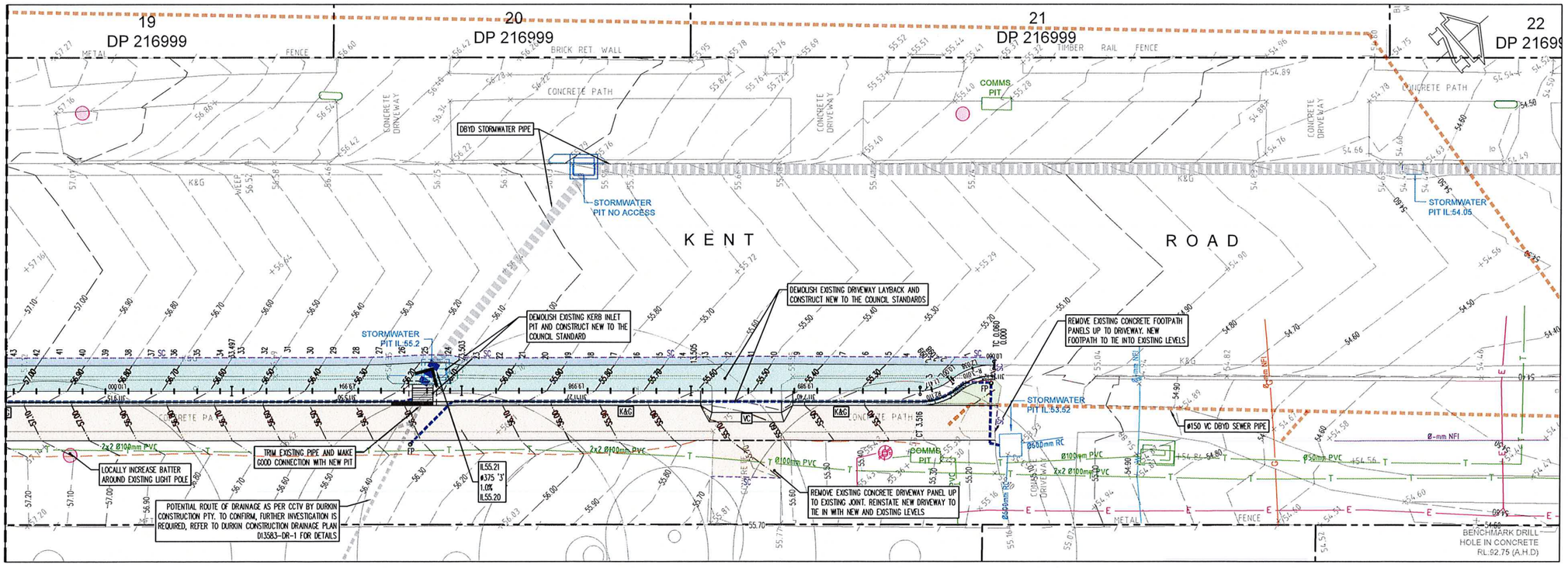
PROJECT: KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME: SEDIMENT AND EROSION CONTROL PLAN & DETAILS

SCALE : A1	DRAWN BY	AUTHORISED BY
AS SHOWN	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C04	P2

Plot File Created: Jun 21, 2021 - 2:55pm





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EXISTING SERVICES LEGEND

- S — SEWER PIPE
- W — WATER PIPE
- G — GAS PIPE
- SW — STORMWATER PIPE
- UNIDENTIFIED PIPE
- E — ELECTRICAL PIPES
- T — TELECOMMUNICATION PIPE/S

EXISTING SURVEY LEGEND

- 57.00 — MAJOR SURFACE CONTOUR
- 57.20 — MINOR SURFACE CONTOUR

GENERAL LEGEND

- EXISTING PROPERTY BOUNDARY

PROPOSED SITEWORKS LEGEND

- VC — VEHICLE CROSSING TO CITY OF RYDE STANDARD, REFER TO DETAIL ON DRG C20
- K&G — KERB & GUTTER TO THE CITY OF RYDE STANDARD, REFER TO DETAIL ON DRG C20
- 1.5m WIDE FOOTPATH TO THE CITY OF RYDE STANDARD, REFER TO DETAILS ON DRG C20
- KISS & DROP LANE (ROAD PAVEMENT) TO THE CITY OF RYDE STANDARD, REFER TO DETAIL ON DRG C21
- 57.00 — MAJOR SURFACE CONTOUR
- 57.20 — MINOR SURFACE CONTOUR
- SC — PAVEMENT SAW CUT, REFER TO DRG C20 FOR CITY OF RYDE STANDARD KERB AND GUTTER REPLACEMENT AND RESTORATION WORKS DETAILS

PROPOSED STORMWATER LEGEND

- STORMWATER PIT, FLOW DIRECTION AND LINE WITH
- IL10.00 Ø375 'S' 1.25% IL9.65 — INVERT LEVEL UPSTREAM, PIPE SIZE AND CLASS, PIPE GRADE, INVERT LEVEL DOWNSTREAM
- FP — FLUSHING POINT WITH #100 SUBSOIL DRAINAGE LINE TO CITY OF RYDE COUNCIL STANDARD, REFER TO DRG C21 FOR DETAILS
- KERB INLET PIT TO THE CITY OF RYDE STANDARD, REFER TO DETAIL ON DRG C21

CITY OF RYDE
APPROVED FOR CONSTRUCTION
Signed.....
Date.....2/7/2021
Subject to the Conditions of ~~Development Consent~~
RTC Approval 25/02/2021

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0 1 2 3 4 5 6 7 8m
1:100 A1 1:200 A3

REV	DESCRIPTION	CHK	DR	DATE
P2	ISSUE FOR APPROVAL	SF	LA	22.06.21
P1	ISSUE FOR REVIEW	SF	LA	30.04.21

CLIENT: NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

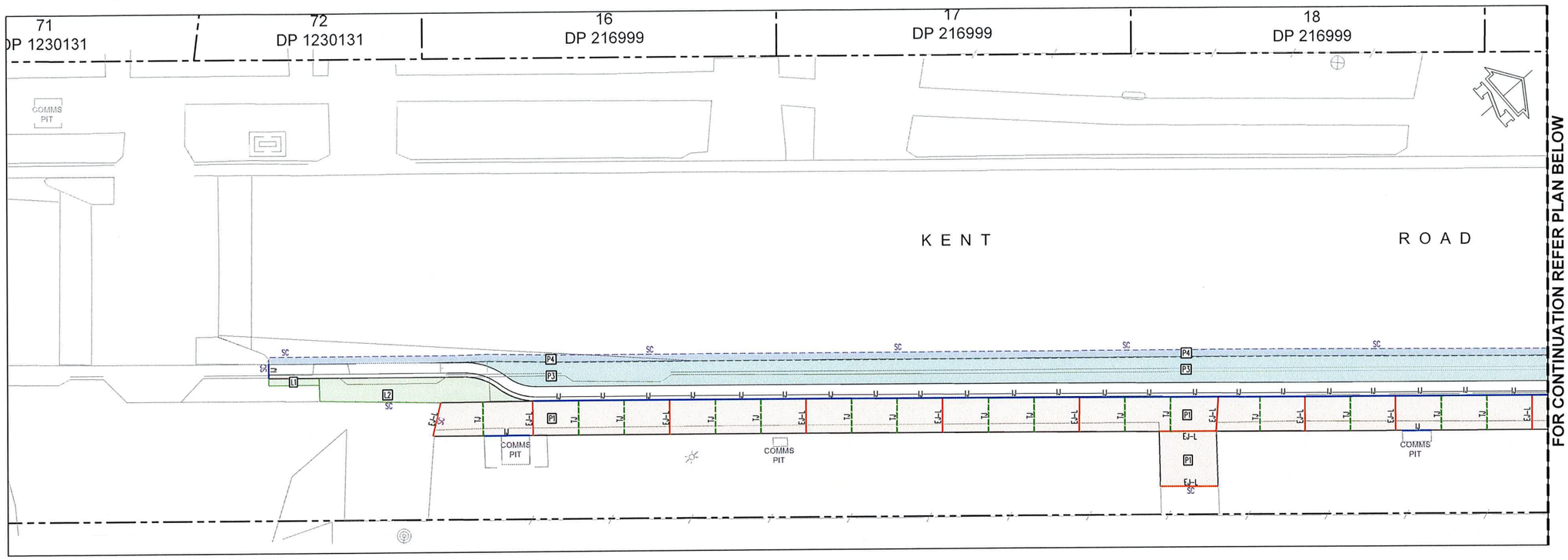
ENGINEER: TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

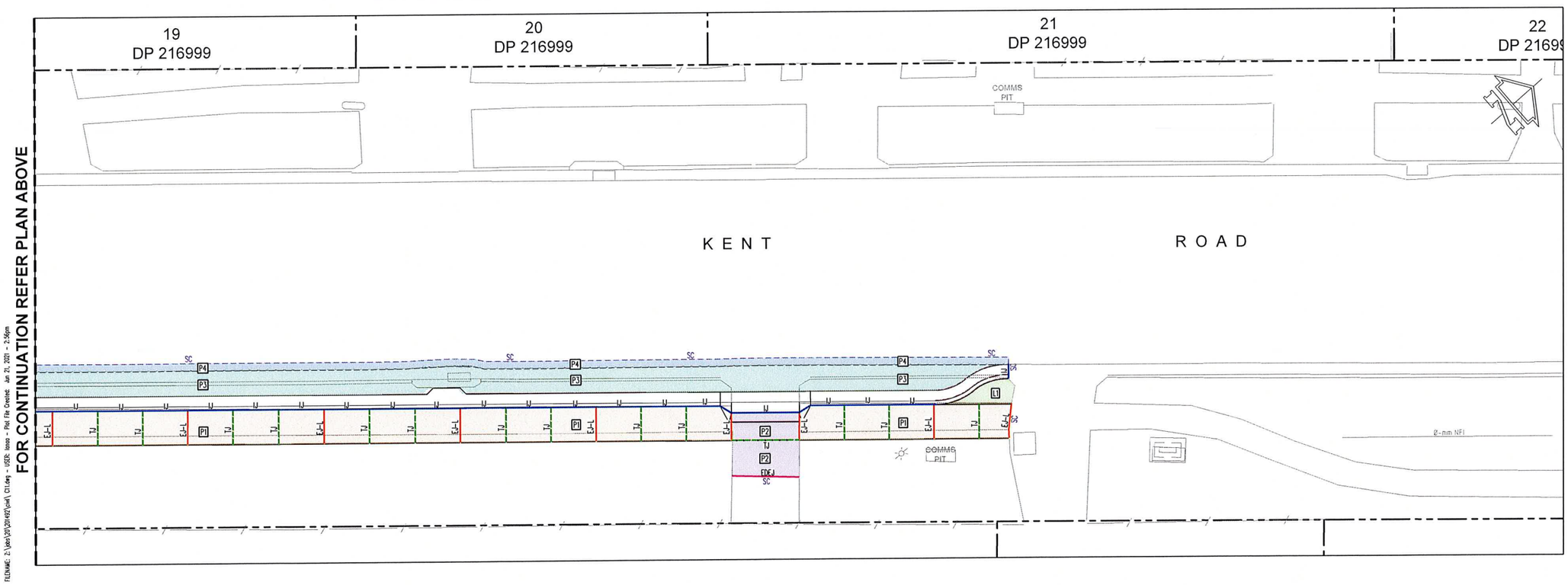
PROJECT: KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME: SITEWORKS PLAN

SCALE : A1	DRAWN BY	AUTHORISED BY
1:100	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C10	P2

Plot File Created: Jun 21, 2021 - 2:56pm





GENERAL LEGEND

EXISTING PROPERTY BOUNDARY

PROPOSED PAVEMENT LEGEND

L1	300 WIDE REINSTATED NATURE STRIP AFFEC BY PROPOSED WORKS TO CITY OF RYDE STANDARD, REFER TO KERB AND GUTTER RESTORATION DETAILS ON DRG C20
L2	TURF TO CITY OF RYDE STANDARD, REFER DRG C22 FOR DETAILS
P1	CONCRETE FOOTPATH TO CITY OF RYDE STANDARD, REFER TO C20 FOR DETAILS
P2	FOOTPATHWAY CROSSING TO CITY OF RYDE STANDARD, REFER TO C21 FOR DETAILS
P3	ROAD PAVEMENT TO CITY OF RYDE STANDA REFER TO TYPICAL PAVEMENT STRUCTURE I LOCAL ROADS DETAILS ON DRG C20
P4	300 (W) x 50 (D) WEARING COURSE STRIP RESTORATION AS PART OF PROPOSED WORI TO CITY OF RYDE STANDARD, REFER TO KE AND GUTTER REPLACEMENT AND RESTORATI DETAILS ON DRG C20 FOR DETAILS

JOINTING LEGEND

SC	PAVEMENT SAW CUT
U	ISOLATION JOINT TO CITY OF RYDE STANDARD, REFER TO C20 FOR DETAILS
EJ-L	LIGHT DUTY EXPANSION JOINT TO CITY OF I STANDARD, REFER TO C20 FOR DETAILS
TJ	TOOLED JOINT TO CITY OF RYDE STANDARD REFER TO C20 FOR DETAILS
EDEJ	DOWELLED EXPANSION JOINT INTO EXISTING PAVEMENT, REFER TO DRG C20 FOR DETAIL

CITY OF RYDE
APPROVED FOR CONSTRUCTION
Signed.....
Date 9/07/2021
Subject to the Conditions of ~~Development Consent~~
RTC Approval 25/02/21

0 1 2 3 4 5 6 7 8m
1:100 A1 1:200 A3

A1 0 1 2 3 4 5 6 7 8 9 10

REV	DESCRIPTION	CHK DR	DATE
P2	ISSUE FOR APPROVAL	SF	LA 22.06.21
P1	ISSUE FOR REVIEW	SF	LA 30.04.21

CLIENT: NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

ENGINEER: TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

PROJECT: KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME: PAVEMENT PLAN

SCALE : A1	DRAWN BY	AUTHORISED BY
1:100	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C11	P2

Plot File Created: Jun 21, 2021 - 2:56pm

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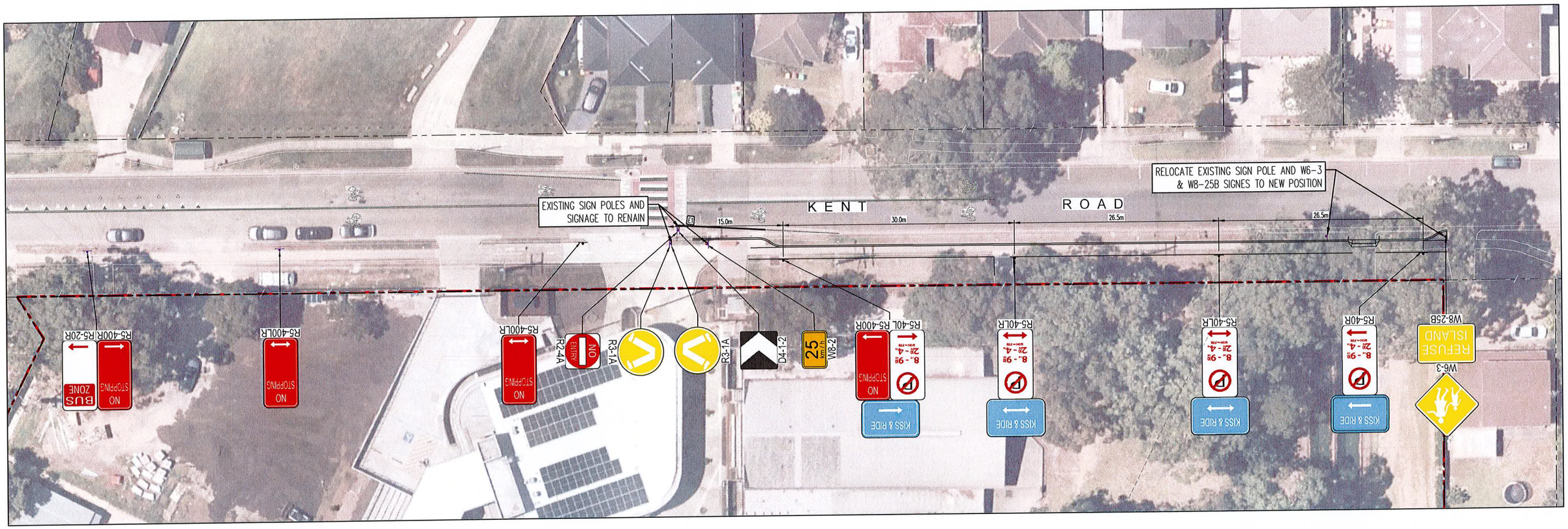


SIGNAGE LEGEND

Existing sign pole

Proposed sign pole

LINEMARKING LEGEND

E1 Edge line type E1

NOTE
Line marking to be in accordance with AS1742.2 and the City of Canada Bay's Traffic Committee approvals.
All redundant line marking is to be removed.

CITY OF RYDE
APPROVED FOR CONSTRUCTION
Signed.....
Date 9/07/2021
Subject to the Conditions of ~~Development Consent~~
RTC Approval 25/02/2021

0 2.5 5 7.5 10 12.5 15 17.5 20m
1:250 A1 1:500 A3

FILENAME: Z:\Jobs\201\201492\cad\C12.dwg - USER: leroa - Plot File Created: Jun 21, 2021 - 2:57pm

A1 0 1 2 3 4 5 6 7 8 9 10

REV	DESCRIPTION	CHK DR	DATE
P2	ISSUE FOR APPROVAL	SF	LA 22.06.21
P1	ISSUE FOR REVIEW	SF	LA 30.04.21

CLIENT: NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

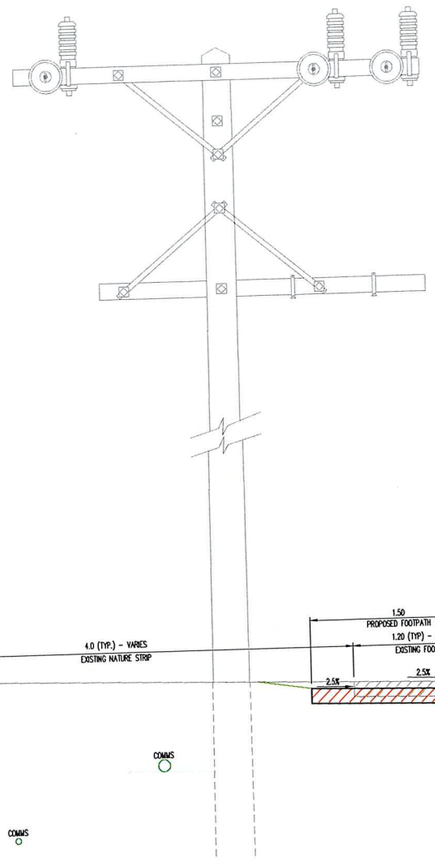
ENGINEER: TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

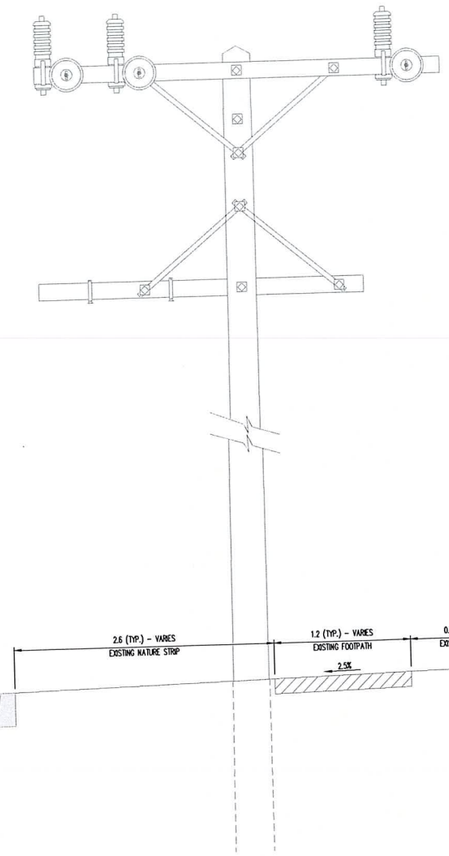
PROJECT: KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME: SIGNAGE AND LINEMARKING PLAN

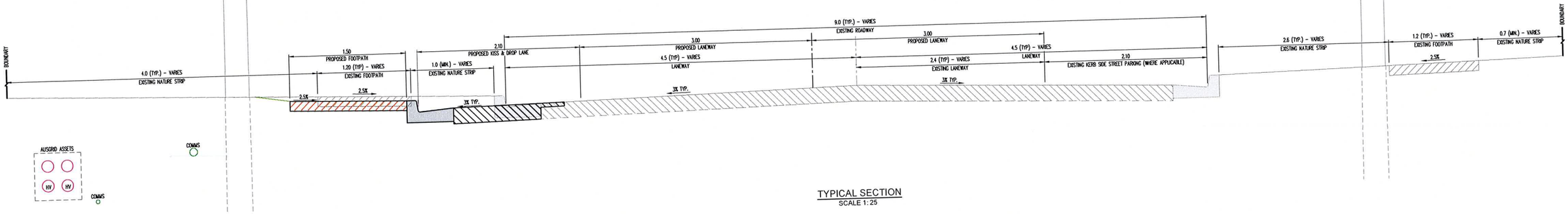
SCALE : A1	DRAWN BY	AUTHORISED BY
1:250	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C12	P2

Plot File Created: Jun 21, 2021 - 2:57pm





CITY OF RYDE
APPROVED FOR CONSTRUCTION
Signed.....
Date 9/7/2021
Subject to the Conditions
of ~~Development Consent~~
RTC Approval 25/02/2021



TYPICAL SECTION
SCALE 1:25

FILENAME: Z:\Jobs\201\201492\prod\ C13.dwg - USER: tanas - Plot File Created: Jun 21, 2021 - 2:58pm

A1 0 1 2 3 4 5 6 7 8 9 10

REV	DESCRIPTION	CHK DR	DATE
P2	ISSUE FOR APPROVAL	SF	LA 22.06.21
P1	ISSUE FOR REVIEW	SF	LA 30.04.21

CLIENT:
NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

ENGINEER:
TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

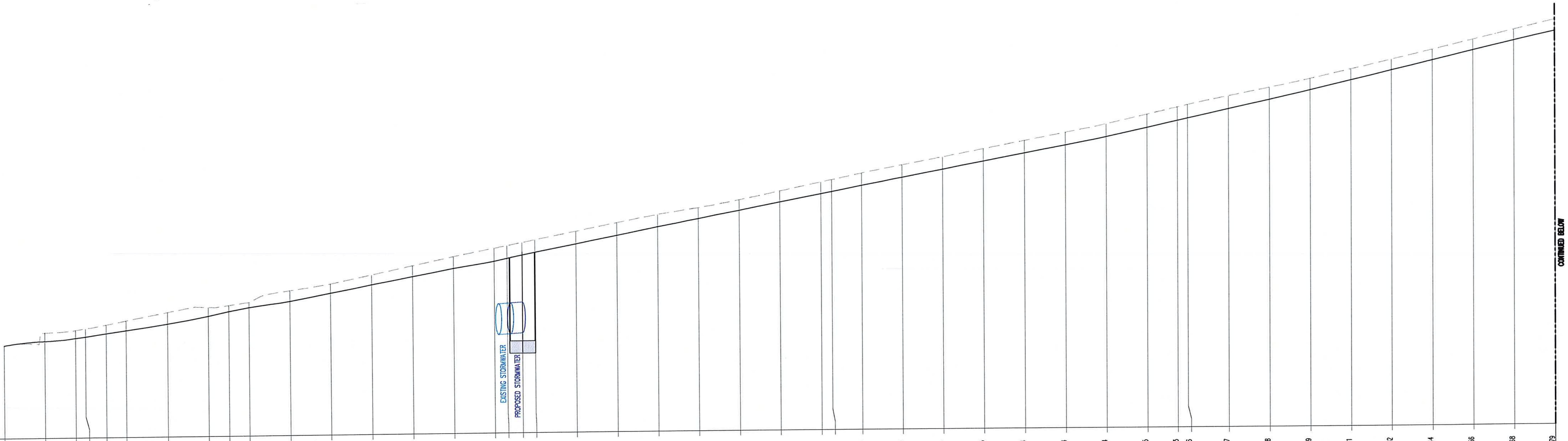
PROJECT:
KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME:
TYPICAL SECTION

0 0.25 0.5 0.75 1 1.25 1.5 1.75 2m
1:25 A1 1:50 A3

SCALE : A1	DRAWN BY	AUTHORISED BY
1:25	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C13	P2

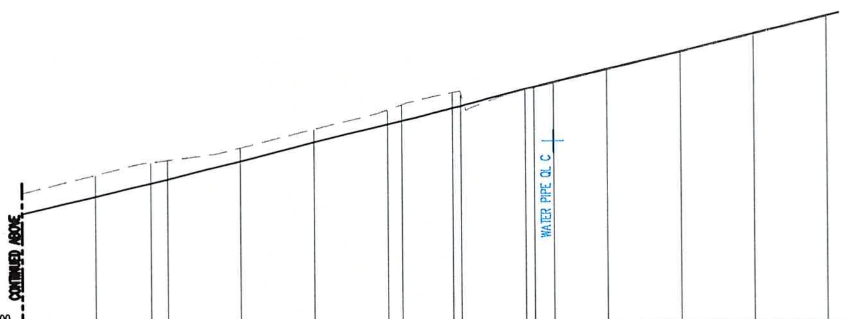
Plot File Created: Jun 21, 2021 - 2:58pm



DATUM RL 54.00

CHAINAGE	PROPOSED LIP OF KERB LINE LEVEL	EXISTING SURFACE LEVEL
0.00	55.12	55.13
2.00	55.17	55.28
3.52	55.21	55.30
4.00	55.22	55.32
5.02	55.26	55.37
6.00	55.29	55.41
8.00	55.37	55.51
10.00	55.46	55.57
11.00	55.51	55.59
12.00	55.56	55.62
14.00	55.63	55.76
16.00	55.72	55.83
18.00	55.82	55.94
20.00	55.91	56.04
22.00	56.00	56.15
24.00	56.08	56.24
24.63	56.12	56.27
25.37	56.16	56.31
26.00	56.19	56.34
28.00	56.28	56.44
30.00	56.38	56.54
32.00	56.48	56.63
34.00	56.58	56.71
36.00	56.67	56.80
38.00	56.77	56.91
40.00	56.87	57.01
40.53	56.89	57.04
42.00	56.96	57.11
44.00	57.06	57.21
46.00	57.15	57.31
48.00	57.25	57.40
50.00	57.34	57.50
52.00	57.44	57.59
54.00	57.54	57.69
56.00	57.65	57.81
57.50	57.73	57.89
58.00	57.76	57.92
60.00	57.87	58.02
62.00	57.98	58.12
64.00	58.09	58.23
66.00	58.21	58.34
68.00	58.32	58.45
70.00	58.44	58.57
72.00	58.56	58.69
74.00	58.68	58.81
76.00	58.79	58.93

LONGITUDINAL SECTION
SCALE 1:100 HORIZONTAL
1:25 VERTICAL

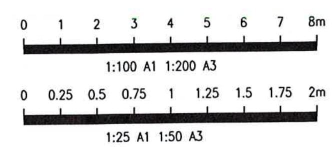


DATUM RL 58.00

CHAINAGE	PROPOSED LIP OF KERB LINE LEVEL	EXISTING SURFACE LEVEL
78.00	58.90	59.04
79.53	58.98	59.12
80.00	59.01	59.14
82.00	59.13	59.22
84.00	59.25	59.34
86.00	59.37	59.46
86.39	59.39	59.50
87.77	59.47	59.58
88.00	59.48	59.57
89.76	59.59	59.59
90.00	59.61	59.61
90.54	59.64	59.64
92.00	59.72	59.72
94.00	59.84	59.84
96.00	59.95	59.95
98.00	60.07	60.07

LONGITUDINAL SECTION
SCALE 1:100 HORIZONTAL
1:25 VERTICAL

CITY OF RYDE
APPROVED FOR CONSTRUCTION
Signed........
Date.....9/07/2021.....
Subject to the Conditions
of ~~Development Consent~~
RTC Approval 25/02/2021



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A1 0 1 2 3 4 5 6 7 8 9 10

REV	DESCRIPTION	CHK	DR	DATE
P2	ISSUE FOR APPROVAL	SF	LA	02.07.21
P1	ISSUE FOR REVIEW	SF	LA	30.04.21

CLIENT: NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

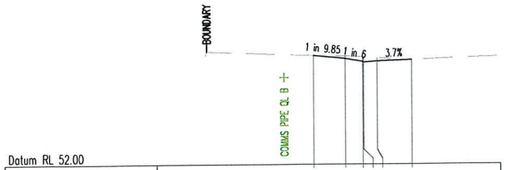
ENGINEER: TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

PROJECT: KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME: LONGITUDINAL SECTION

SCALE : A1	DRAWN BY	AUTHORISED BY
AS SHOWN	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C15	P2

Plot File Created: Jul 02, 2021 - 2:37pm

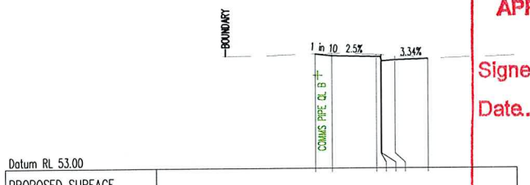


Datum RL 52.00					
PROPOSED SURFACE LEVEL	55.65	55.54	55.44 55.42 55.46	55.50	
EXISTING SURFACE LEVEL	55.65	55.63	55.61 55.60 55.57	55.50	
OFFSET	-2.13	-1.08	-0.48 -0.45 0.00	1.16	

CH 10.00

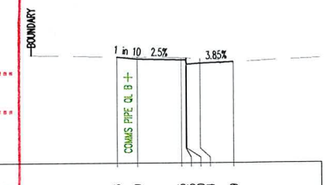
Datum RL 51.00					
PROPOSED SURFACE LEVEL	56.30	56.27	56.23 56.20 56.08	56.12	56.16
EXISTING SURFACE LEVEL	56.30	56.33	56.30 56.30 56.29	56.27	56.16
OFFSET	-2.80	-2.13	-0.63 -0.48 -0.45	0.00	1.23

CH 24.63



Datum RL 53.00					
PROPOSED SURFACE LEVEL	56.83	56.77	56.74 56.74 56.59	56.63	56.66
EXISTING SURFACE LEVEL	56.83	56.85	56.81 56.80 56.80	56.75	56.66
OFFSET	-2.70	-2.13	-0.63 -0.48 -0.45	0.00	1.11

CH 35.00

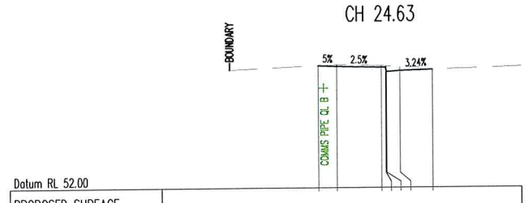


Datum RL 54.00					
PROPOSED SURFACE LEVEL	57.56	57.49	57.45 57.45 57.30	57.34	57.39
EXISTING SURFACE LEVEL	57.56	57.55	57.53 57.52 57.52	57.50	57.39
OFFSET	-2.83	-2.13	-0.63 -0.48 -0.45	0.00	1.14

CH 50.00

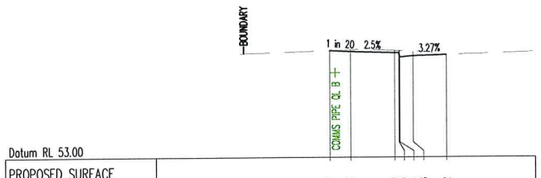
Datum RL 52.00					
PROPOSED SURFACE LEVEL	55.40	55.41	55.37 55.37 55.26	55.26	55.30
EXISTING SURFACE LEVEL	55.40	55.39	55.38 55.38 55.37	55.37	55.30
OFFSET	-2.18	-2.13	-0.63 -0.48 -0.45	0.00	1.14

CH 5.02



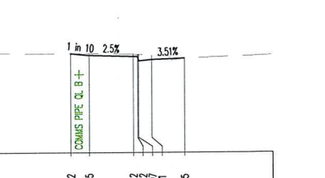
Datum RL 52.00					
PROPOSED SURFACE LEVEL	56.09	56.06	56.02 56.02 55.97	55.91	55.95
EXISTING SURFACE LEVEL	56.09	56.11	56.07 56.06 56.06	56.04	55.95
OFFSET	-2.76	-2.13	-0.63 -0.48 -0.45	0.00	1.10

CH 20.00



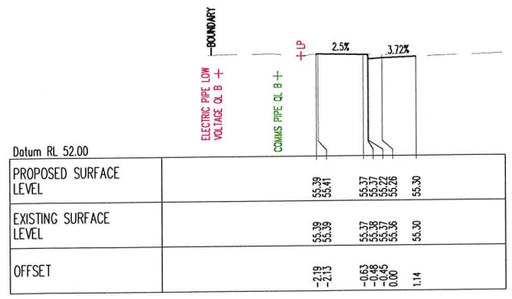
Datum RL 53.00					
PROPOSED SURFACE LEVEL	56.57	56.53	56.49 56.49 56.43	56.38	56.42
EXISTING SURFACE LEVEL	56.57	56.59	56.57 56.56 56.56	56.54	56.42
OFFSET	-2.82	-2.13	-0.63 -0.48 -0.45	0.00	1.12

CH 30.00



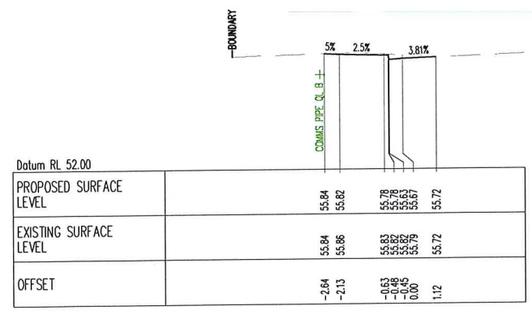
Datum RL 54.00					
PROPOSED SURFACE LEVEL	57.32	57.25	57.22 57.22 57.07	57.11	57.15
EXISTING SURFACE LEVEL	57.32	57.32	57.29 57.28 57.26	57.26	57.15
OFFSET	-2.75	-2.13	-0.63 -0.48 -0.45	0.00	1.12

CH 45.00



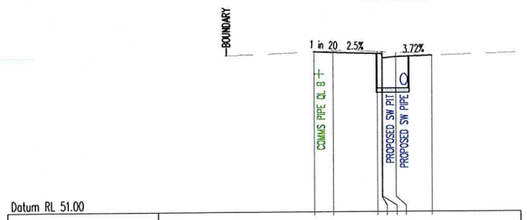
Datum RL 52.00					
PROPOSED SURFACE LEVEL	55.39	55.41	55.37 55.37 55.26	55.26	55.30
EXISTING SURFACE LEVEL	55.39	55.39	55.38 55.38 55.37	55.36	55.30
OFFSET	-2.19	-2.13	-0.63 -0.48 -0.45	0.00	1.14

CH 5.00



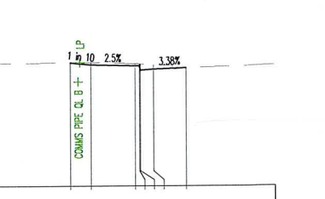
Datum RL 52.00					
PROPOSED SURFACE LEVEL	55.84	55.82	55.78 55.78 55.67	55.67	55.72
EXISTING SURFACE LEVEL	55.84	55.86	55.83 55.82 55.79	55.79	55.72
OFFSET	-2.64	-2.13	-0.63 -0.48 -0.45	0.00	1.12

CH 15.00



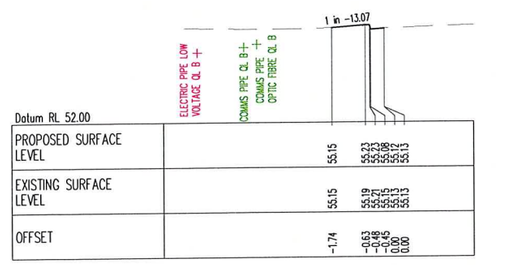
Datum RL 51.00					
PROPOSED SURFACE LEVEL	56.34	56.31	56.27 56.27 56.16	56.16	56.20
EXISTING SURFACE LEVEL	56.34	56.37	56.34 56.33 56.31	56.31	56.20
OFFSET	-2.77	-2.13	-0.63 -0.48 -0.45	0.00	1.22

CH 25.37



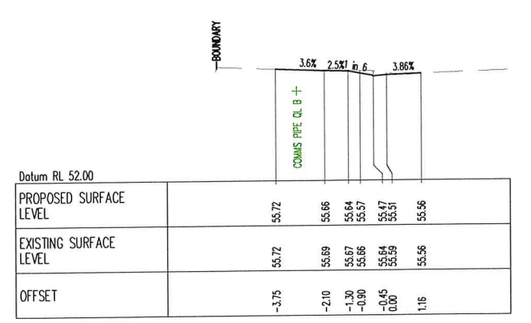
Datum RL 53.00					
PROPOSED SURFACE LEVEL	57.11	57.04	57.00 57.00 56.89	56.89	56.93
EXISTING SURFACE LEVEL	57.11	57.11	57.07 57.06 57.04	57.04	56.93
OFFSET	-2.82	-2.13	-0.63 -0.48 -0.45	0.00	1.11

CH 40.53



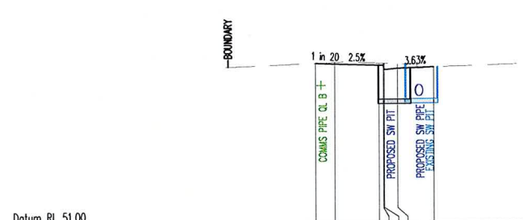
Datum RL 52.00					
PROPOSED SURFACE LEVEL	55.15	55.23 55.23 55.09	55.09	55.13	
EXISTING SURFACE LEVEL	55.15	55.19 55.21 55.15	55.15	55.13	
OFFSET	-1.74	-0.63 -0.48 -0.45	0.00	0.00	

CH 0.00



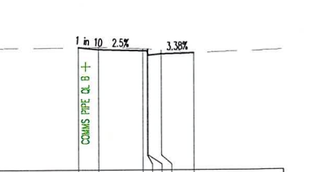
Datum RL 52.00					
PROPOSED SURFACE LEVEL	55.72	55.66	55.64 55.57	55.47 55.51	55.56
EXISTING SURFACE LEVEL	55.72	55.69	55.67 55.66	55.64 55.59	55.56
OFFSET	-3.75	-2.10	-1.30 -0.90	-0.45 0.00	1.16

CH 11.00



Datum RL 51.00					
PROPOSED SURFACE LEVEL	56.32	56.29	56.25 56.25 56.10	56.14	56.18
EXISTING SURFACE LEVEL	56.32	56.35	56.32 56.31 56.31	56.29	56.18
OFFSET	-2.78	-2.13	-0.63 -0.48 -0.45	0.00	1.23

CH 25.00



Datum RL 53.00					
PROPOSED SURFACE LEVEL	57.08	57.01	56.98 56.98 56.87	56.87	56.90
EXISTING SURFACE LEVEL	57.08	57.09	57.05 57.04 57.01	57.01	56.90
OFFSET	-2.81	-2.13	-0.63 -0.48 -0.45	0.00	1.11

CH 40.00

0 1 2 3 4 5 6 7 8m
1:100 A1 1:200 A3

FILENAME: Z:\Jobs\201492\civil\C16.dwg - USER: tessa - Plot File Created: Jun 21, 2021 - 2:59pm

A1 0 1 2 3 4 5 6 7 8 9 10

REV	DESCRIPTION	CHK DR	DATE
P2	ISSUE FOR APPROVAL	SF LA	22.06.21
P1	ISSUE FOR REVIEW	SF LA	30.04.21

CLIENT: NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

ENGINEER: TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

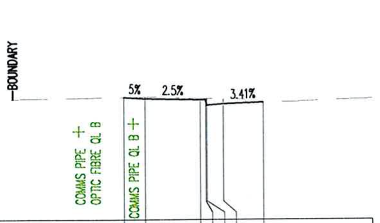
PROJECT: KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME: CROSS SECTION, SHEET 1

SCALE : A1	DRAWN BY	AUTHORISED BY
1:100	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C16	P2

Plot File Created: Jun 21, 2021 - 2:59pm

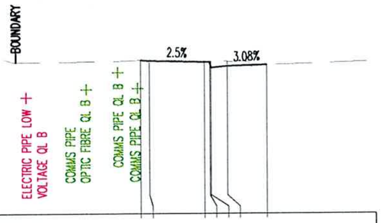
0 1 2 3 4 5 6 7 8m
1:100 A1 1:200 A3



Datum RL 55.00

PROPOSED SURFACE LEVEL	58.32 58.29 58.26 58.26 58.11 58.15 58.18
EXISTING SURFACE LEVEL	58.32 58.33 58.30 58.29 58.29 58.28 58.18
OFFSET	-2.72 -2.13 -0.63 -0.48 -0.45 0.00 1.10

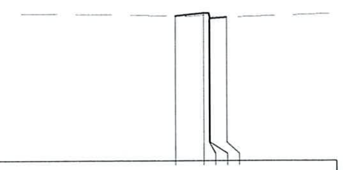
CH 65.00



Datum RL 55.00

PROPOSED SURFACE LEVEL	59.17 59.16 59.12 59.12 58.97 59.01 59.04
EXISTING SURFACE LEVEL	59.17 59.18 59.14 59.15 59.15 59.14 59.04
OFFSET	-2.37 -2.13 -0.63 -0.48 -0.45 0.00 1.07

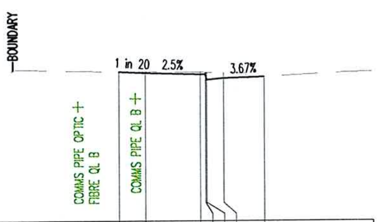
CH 80.00



Datum RL 56.00

PROPOSED SURFACE LEVEL	59.93 60.01 60.01 59.86 59.90
EXISTING SURFACE LEVEL	59.93 59.95 59.95 59.90 59.90
OFFSET	-1.41 -0.63 -0.48 -0.45 0.00

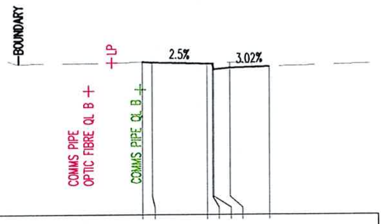
CH 95.00



Datum RL 54.00

PROPOSED SURFACE LEVEL	58.05 58.01 57.98 57.98 57.83 57.87 57.91
EXISTING SURFACE LEVEL	58.05 58.05 58.03 58.03 58.03 58.02 57.91
OFFSET	-2.84 -2.13 -0.63 -0.48 -0.45 0.00 1.12

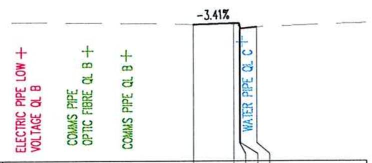
CH 60.00



Datum RL 55.00

PROPOSED SURFACE LEVEL	59.14 59.13 59.09 59.09 58.94 58.98 59.02
EXISTING SURFACE LEVEL	59.14 59.15 59.12 59.12 59.12 59.12 59.02
OFFSET	-2.39 -2.13 -0.63 -0.48 -0.45 0.00 1.07

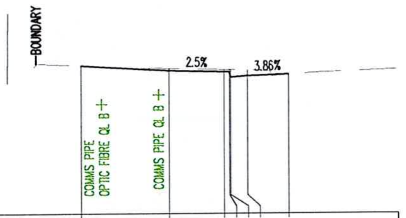
CH 79.53



Datum RL 56.00

PROPOSED SURFACE LEVEL	59.71 59.75 59.75 59.60 59.64
EXISTING SURFACE LEVEL	59.71 59.71 59.65 59.59 59.64
OFFSET	-1.74 -0.63 -0.48 -0.45 0.00

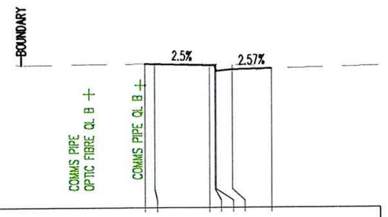
CH 90.54



Datum RL 54.00

PROPOSED SURFACE LEVEL	58.02 57.88 57.84 57.84 57.69 57.73 57.77
EXISTING SURFACE LEVEL	58.02 57.93 57.90 57.90 57.90 57.89 57.77
OFFSET	-4.53 -2.13 -0.63 -0.48 -0.45 0.00 1.13

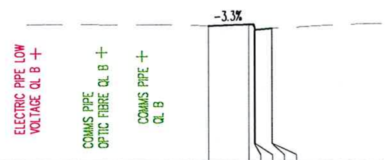
CH 57.50



Datum RL 55.00

PROPOSED SURFACE LEVEL	58.89 58.88 58.84 58.84 58.69 58.73 58.76
EXISTING SURFACE LEVEL	58.89 58.90 58.87 58.88 58.88 58.87 58.76
OFFSET	-2.39 -2.13 -0.63 -0.48 -0.45 0.00 1.07

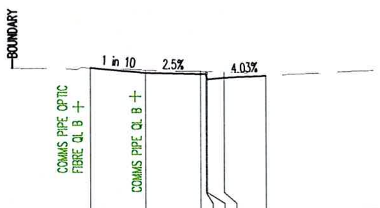
CH 75.00



Datum RL 56.00

PROPOSED SURFACE LEVEL	59.68 59.72 59.72 59.57 59.61 59.61
EXISTING SURFACE LEVEL	59.69 59.69 59.62 59.57 59.61 59.61
OFFSET	-1.73 -0.63 -0.48 -0.45 0.00 0.01

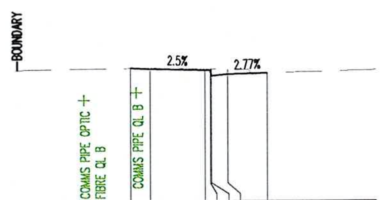
CH 90.00



Datum RL 54.00

PROPOSED SURFACE LEVEL	57.89 57.74 57.70 57.70 57.55 57.59 57.64
EXISTING SURFACE LEVEL	57.89 57.82 57.77 57.77 57.77 57.75 57.64
OFFSET	-3.62 -2.13 -0.63 -0.48 -0.45 0.00 1.15

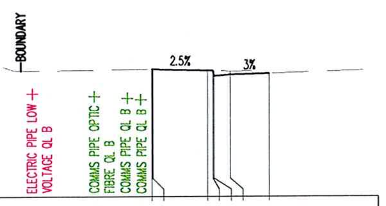
CH 55.00



Datum RL 55.00

PROPOSED SURFACE LEVEL	58.62 58.59 58.55 58.55 58.40 58.44 58.47
EXISTING SURFACE LEVEL	58.62 58.62 58.59 58.59 58.58 58.57 58.47
OFFSET	-2.66 -2.13 -0.63 -0.48 -0.45 0.00 1.08

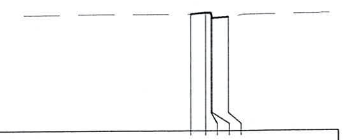
CH 70.00



Datum RL 56.00

PROPOSED SURFACE LEVEL	59.45 59.46 59.42 59.42 59.27 59.31 59.34
EXISTING SURFACE LEVEL	59.45 59.45 59.42 59.41 59.41 59.40 59.34
OFFSET	-2.16 -2.13 -0.63 -0.48 -0.45 0.00 1.07

CH 85.00



Datum RL 57.00

PROPOSED SURFACE LEVEL	60.16 60.20 60.20 60.05 60.09
EXISTING SURFACE LEVEL	60.16 60.16 60.16 60.07 60.09
OFFSET	-1.04 -0.63 -0.48 -0.45 0.00

CH 98.34

CITY OF RYDE
APPROVED FOR CONSTRUCTION
Signed.......
Date....9/07/2021....
Subject to the Conditions
of ~~Development Consent~~
RTC Approval 25/02/2021

FILENAME: Z:\jobs\20\201492\civil\ C17.dwg - USER: lanaa - Plot File Created: Jun 21, 2021 - 3:00pm

A1 0 1 2 3 4 5 6 7 8 9 10

REV	DESCRIPTION	CHK	DR	DATE
P2	ISSUE FOR APPROVAL	SF	LA	22.06.21
P1	ISSUE FOR REVIEW	SF	LA	30.04.21

CLIENT: NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

ENGINEER: TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

PROJECT: KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME: CROSS SECTION, SHEET 2

SCALE : A1	DRAWN BY	AUTHORISED BY
1:100	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C17	P2

Plot File Created: Jun 21, 2021 - 3:00pm

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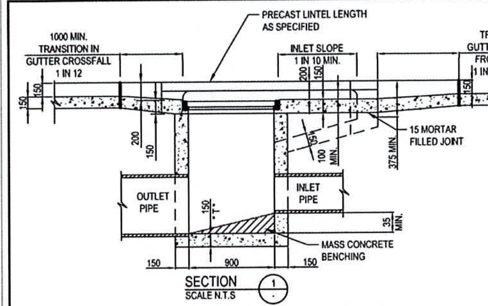

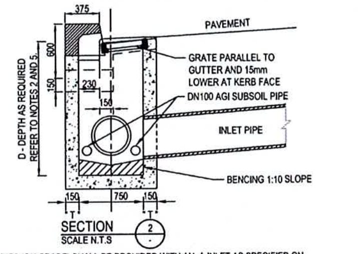

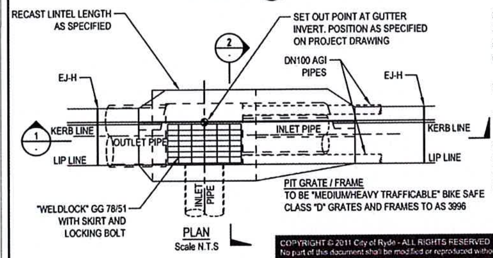

NOTES

1. ALL GRATED KERB INLET PITS (ON GRADE) SHALL BE PROVIDED WITH AN A INLET AS SPECIFIED ON DESIGN DRAWINGS ON THE HIGHER SIDE OF THE PIT.
2. STEP IRONS TO BE PROVIDED FOR PITS DEEPER THAN 1000mm AND PLACED ON A WALL CLEAR OF FLOW WHERE POSSIBLE REFER TO SWD 5.1.1 FOR DETAIL.
3. THE COMPRESSIVE STRENGTH OF ALL CONCRETE USED SHALL BE 25MPa AT 28 DAYS.
4. REFER TO SWD.9.1.1 FOR MINIMUM PIPE COVER.
5. ALL INTERNAL PIT CORNERS TO BE PROVIDED WITH BENCHING OR 30 RADIUS TO IMPROVE FLOW.
6. WHERE DEPTH EXCEEDS 1200mm, WALLS TO BE REINFORCED IN ACCORDANCE WITH THE TABLE SHOWN BELOW.
7. SELECTED GRANULAR MATERIAL BACKFILL SHALL BE PLACED TO FILL ALL EXCAVATED VOIDS. (REFER TO AS 3725-2007)
8. DN100 AGI DRAINAGE PIPE 3.0m LONG WRAPPED IN FABRIC SOCK TO BE PLACED ADJACENT TO INLET PIPES ON BOTH SIDES AND 100mm MINIMUM ABOVE PIT FLOOR.
9. SURROUND SUBSOIL DRAINAGE PIPE/AGLINE WITH 7mm CLEAN BLUE METAL.
10. REFER TO CIV.11 FOR JOINT DETAILS
11. 50mm MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE.
12. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

DEPTH TO INVERT "D"	WALL & BASE THICKNESS "T"	SPACING OF "N12" WALL & BASE REINFORCEMENT — MAXIMUM INTERNAL PLAN DIMENSION WIDTH				
		0 - 1190	1200 - 1790	1800 - 2390	2400 - 2690	2700 - 3000
0 - 1990	150	NIL REINF.	200 CP	200 CP	200 CP	200 CP
2000 - 2490	200	200 CP	200 CP	200 CP	200 CP	200 CP

CP DENOTES CENTRALLY PLACED

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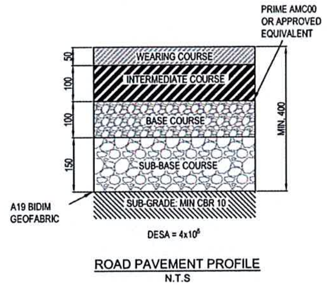
Lifestyle and opportunity @ your doorstep

STANDARD DRAWING
STANDARD KERB INLET ON GRADE PIT

APPROVED VP DESIGN MANAGER | DATE 01/05/2018
DRAWING NUMBER SWD.1.1.1 | REVISION E



ROAD PAVEMENT PROFILE
N.T.S

TYPICAL PAVEMENT STRUCTURE - LOCAL ROADS	
LAYER	THICKNESS
WEARING COURSE AC14 AUS-SPEC 1144. AT INTERSECTIONS AND CURVES, USE AC14 AUS-SPEC 1144 WITH A15E POLYMER MODIFIED BINDER.	50mm
INTERMEDIATE COURSE AC28 R116. IF THE MIX IS UNAVAILABLE, AC20 R116 IS ACCEPTABLE.	100mm
BASE COURSE DENSELY GRADED BASE OF NOMINAL SIZE 20mm (DGB20) WITH CBR GREATER THAN 80. COMPACTED TO 98% MODIFIED TO AS1289.	100mm
SUB-BASE COURSE DENSELY GRADED SUBBASE OF NOMINAL SIZE 40mm (DGS40) WITH CBR GREATER THAN 30. COMPACTED TO 98% MODIFIED TO AS1289.	150mm
SUB-GRADE COURSE MINIMUM SUBGRADE CBR 10. IF NOT ACHIEVED, PLACE ADDITIONAL 250MM THICK LAYER OF DGS40 OR LIME STABILISE THE SUBGRADE TO A DEPTH OF 250mm TO ACHIEVE CBR 10 OR GREATER. LAY A19 BIDIM GEOFABRIC ON TOP OF THE SUBGRADE. THE SUBGRADE IS TO BE COMPACTED TO 100% STANDARD TO AS1289.	MINIMUM 250mm

NOTES:

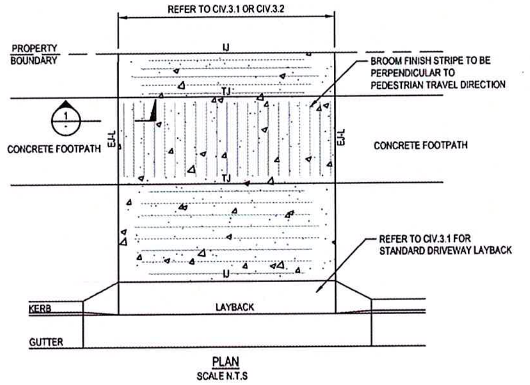
1. BASE AND SUB-BASE MATERIAL SHALL COMPLY WITH RMS QA SPECIFICATION 3051 GRANULAR BASE AND SUBBASE MATERIALS FOR SURFACED ROAD PAVEMENTS.
2. BASE AND SUB-BASE MATERIAL SHALL BE MANUFACTURED FROM HARD, DURABLE STONE FREE OF CLAY SLUMPS, ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MATERIALS OF DIFFERENT TYPE OR FROM DIFFERENT SOURCES SHALL BE PLACED AND STORED SEPERATELY.
3. PLACE A19 BIDIM GEOFABRIC UNDERNEATH THE SUB-BASE COURSE, TO SEPERATE SUB-GRADE AND GRANULAR MATERIALS.
4. DESIGN TRAFFIC (DESA) FOR THE PAVEMENT SHALL BE $4x10^6$, DESIGN LIFE OF THE PAVEMENT SHALL BE A MINIMUM OF 40 YEARS WITH A GROWTH FACTOR OF 1.2.
5. PRIOR TO THE ISSUE FOR CONSTRUCTION CIVIL WORKS DRAWINGS, PAVEMENT DESIGN AND A GEOTECHNICAL REPORT SHALL BE SUBMITTED TO COUNCIL FOR APPROVAL.
6. DURING CONSTRUCTION EACH PAVEMENT LAYER IS TO BE TESTED FOR COMPLIANCE AND CERTIFIED BY THE ACCREDITED PROVIDER (NATA REGISTERED).
7. NOMINAL CROSS FALL OF PAVEMENT SHALL BE 3%.
8. MAXIMUM LONGITUDINAL GRADE OF THE ROAD SHALL BE 8%.

City of Ryde
Lifestyle and opportunity @ your doorstep

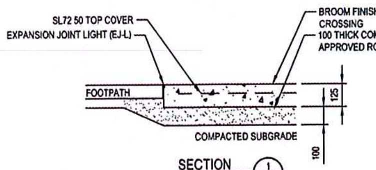
STANDARD DRAWING
TYPICAL PAVEMENT STRUCTURE LOCAL ROADS

APPROVED VP DESIGN MANAGER | DATE 14.08.2019
DRAWING NUMBER CIV.14.1 | REVISION B

CITY OF RYDE
APPROVED FOR CONSTRUCTION
Signed [illegible]
Date 9/07/2021
Subject to the Conditions of ~~Development Consent~~
RTC Approval 25/07/2021



PLAN
SCALE N.T.S



SECTION
SCALE 1:20 @A4

NOTES:

1. LIGHT DUTY FOOTPATH CROSSINGS ARE TYPICALLY USED FOR RESIDENTIAL PROPERTIES.
2 FOOTPATH CROSSINGS SHALL CONSIST OF 125mm THICK BROOM FINISHED REINFORCED CONCRETE WITH SL72 OVER 100mm THICK OF APPROVED ROADBASE.
3. REFER TO CIV.11 FOR JOINT DETAIL.
4. CONCRETE EDGES SHALL BE FINISHED WITH AN EDGING TOOL.
5. CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 25MPA MINIMUM.
6. CONCRETE SHALL BE PLACED WITH A MAXIMUM SLUMP OF 80mm.
7. MINIMUM CONCRETE COVER SHALL BE 40mm UNLESS NOTED OTHERWISE.
8. THE COUNCIL ENGINEER REQUIRES 24 HOURS NOTICE PRIOR TO POURING OF CONCRETE TO INSPECT THE FORMWORK. NO CONCRETE SHALL BE POURED UNTIL THE EXCAVATION AND FORMWORK HAVE BEEN INSPECTED.
9. REFER TO CIV.5 SERIES FOR STANDARD FOOTPATH DETAILS.
10. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE .

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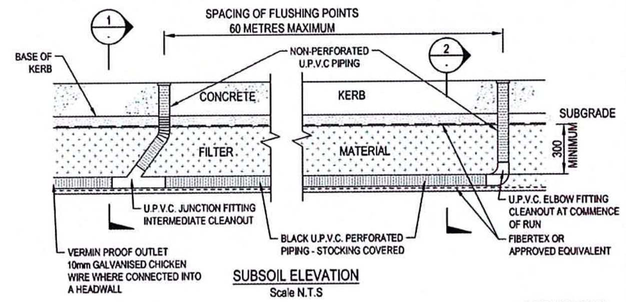
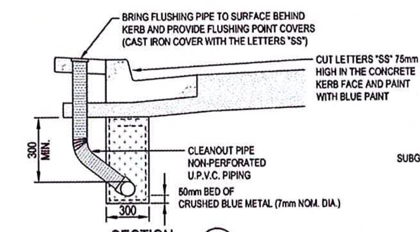
STANDARD DRAWING
STANDARD FOOTWAY CROSSING (REINFORCED)

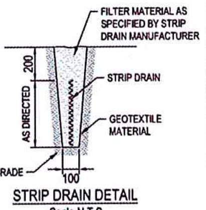
APPROVED VP DESIGN MANAGER | DATE 16/06/18
DRAWING NUMBER CIV.4.2 | REVISION D



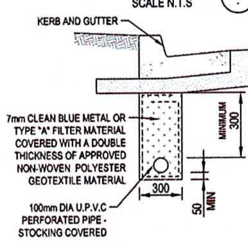
SUBSOIL ELEVATION
Scale N.T.S



SECTION
SCALE N.T.S



STRIP DRAIN DETAIL
Scale N.T.S



SECTION
SCALE N.T.S

NOTES

1. EXACT LOCATION OF NEW SUBSOIL DRAIN TO CONNECT AND / OR ALIGN WITH EXISTING SYSTEM TO BE DETERMINED ON SITE.
2. THE MINIMUM GRADE OF THE LINE TO BE 1 IN 200. THE GRADE SHALL FALL CONTINUOUSLY TO PREVENT SILTING UP AND BLOCKAGES.
3. SELECTED GRANULAR MATERIAL BACKFILL SHALL BE PLACED TO FILL ALL EXCAVATED VOIDS. (REFER TO AS 3725-2007)
4. A MAXIMUM FILTER AGGREGATE SIZE OF 10mm TO BE USED TO AVOID PUNCTURING THE PIPE.
5. ALL WORKS AND MATERIALS ACCORDING TO A.S. 3500.3-2003 SECTION 6.
6. A MINIMUM 50mm LAYER OF FILTER MATERIAL TO BE PLACED IN THE TRENCH TO PROVIDE A DRAINAGE PATH UNDERNEATH THE PLASTIC PIPE.
7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. (U.N.O.)

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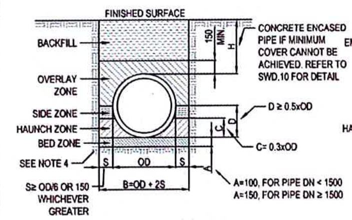
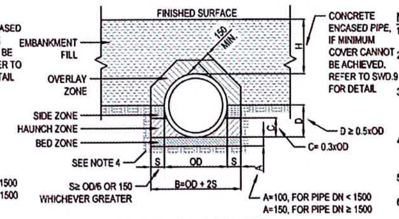
STANDARD DRAWING
STANDARD SUB-SOIL DRAINAGE DETAILS

APPROVED VP DESIGN MANAGER | DATE 23/06/16
DRAWING NUMBER SWD.2 | REVISION C



TYPICAL PIPE INSTALLATION TRENCH DETAIL
Scale N.T.S



TYPICAL PIPE INSTALLATION EMBANKMENT DETAIL
Scale N.T.S

NOTES:

1. ALL PIPE SHALL BE REINFORCED CONCRETE RUBBER RING JOINT (BELL SOCKET) PIPE U.N.O.
2. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH AS/NZS 3725:2007 DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPE.
3. THE TRENCH SHALL BE OVER-EXCAVATED IF REQUIRED TO REMOVE ANY UNSUITABLE MATERIAL AND REFILLED WITH COMPACTED MATERIAL CONFORMING TO THE REQUIREMENTS FOR THE BED ZONE.
4. ALL COMPACTION LAYER SHALL NOT EXCEED 150mm. COMPACTION ACHIEVED SHALL BE MONITORED BY FIELD TESTING IN ACCORDANCE WITH AS 1289.
5. PROVIDE CONCRETE BULKHEAD FOR PIPE SLOPES > 15%. REFER TO SWD.10.1.1 FOR DETAIL.
6. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

MINIMUM COVER 'H'		
	ROADWAY	NON ROADWAY
PIPE CLASS	COVER (mm)	COVER (mm)
CLASS 2	650	400
CLASS 3	450	400
CLASS 4	400	400

ZONE DETAIL:

BED ZONE: IMPORTED MATERIAL OR EXCAVATED MATERIAL WITH PARTICLE SIZE NOT GREATER THAN 19mm AND CONFORMS WITH THE FOLLOWING SOIL CLASSES:

SIEVE SIZE (mm)	19.0	2.36	0.60	0.30	0.15	0.075
% MASS PASSING	100	100-50	90-20	60-10	25-0	10-0

THE MATERIAL PASSING THE 0.075mm SIEVE MUST HAVE LOW PLASTICITY AS DECRIBED IN APPENDIX D OF AS 1726. COMPACTION BY TAMPING, ROLLING AND/OR VIBRATION TO A MINIMUM DENSITY INDEX OF 60.

HAUNCH ZONE: FILL MATERIAL COMPLYING WITH THE REQUIREMENTS SHOWN ABOVE FOR THE BED ZONE. COMPACTION BY SATURATION AND VIBRATION TO ACHIEVE A MINIMUM DENSITY INDEX OF 60.

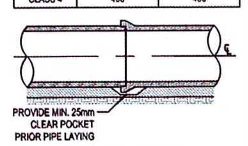
SIDE ZONE: IMPORTED MATERIAL OR EXCAVATED MATERIAL WITH PARTICLE SIZE NOT GREATER THAN 19mm AND CONFORMS WITH THE FOLLOWING SOIL CLASSES:

SIEVE SIZE (mm)	75	9.5	2.36	0.60	0.075
% MASS PASSING	100	100-50	100-30	50-15	25-0

COMPACTION BY TAMPING, ROLLING OR VIBRATION TO A MINIMUM RELATIVE DENSITY OF 90% OR A MINIMUM DENSITY INDEX OF 60

OVERLAY ZONE: FILL MATERIAL FROM EXCAVATED TRENCH SHALL NOT CONTAIN ANY STONES LARGER THAN 150mm, NOR MORE THAN 20% WITH A SIZE BETWEEN 75mm AND 150mm. COMPACTION BY TAMPING, ROLLING OR VIBRATION TO A MINIMUM DENSITY INDEX OF 60

BACKFILL/EMBANKMENT FILL: MATERIAL FROM EXCAVATED TRENCH COMACPTED TO PREVENT EXCESSIVE SETTLEMENT IN THE GROUND SURFACE LEVEL. FOR ROAD RESTORATION REFER TO CIV.14 FOR DETAIL.



TYPICAL PIPE JOINT DETAIL
Scale N.T.S

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STANDARD DRAWING
TYPICAL PIPE INSTALLATION DETAIL

APPROVED VP DESIGN MANAGER | DATE 24/06/16
DRAWING NUMBER SWD.9.1.1 | REVISION A

FILENAME: Z:\jobs\20\201492\civil\ C21.dwg - USER: lanaa - Plot File Created: Jun 21, 2021 - 3:02pm

A1 0 1 2 3 4 5 6 7 8 9 10

REV	DESCRIPTION	CHK	DR	DATE
P2	ISSUE FOR APPROVAL	SF	LA	22.06.21
P1	ISSUE FOR REVIEW	SF	LA	30.04.21

CLIENT: NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

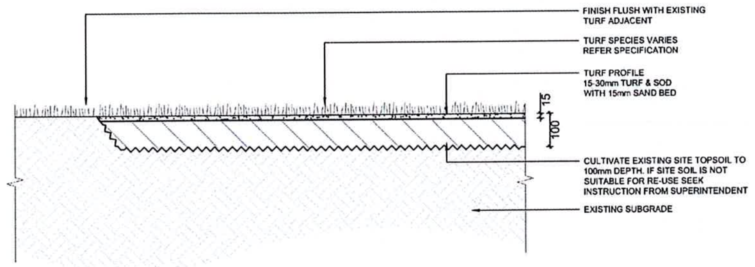
ENGINEER: TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

PROJECT: KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME: TYPICAL DETAILS, SHEET 2

SCALE : A1	DRAWN BY	AUTHORISED BY
NTS	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C21	P2

Plot File Created: Jun 21, 2021 - 3:02pm



PL 7.1 STANDARD TURF PROFILE - TYPICAL
SCALE 1:10 AT A4

City of Ryde
Lifestyle and opportunity @ your doorstep

STANDARD DRAWING	APPROVED	DATE
STANDARD TURF PROFILE	VP DESIGN MANAGER	15/12/17
	DRAWING NUMBER	REVISION
	PL7.1	D

CITY OF RYDE
APPROVED FOR CONSTRUCTION
Signed [illegible]
Date 9/07/2021
Subject to the Conditions
of ~~Development Consent~~
RTC Approval 25/02/2021

FILENAME: Z:\jobs\20\201492\civil\ C22.dwg - USER: lanaa - Plot File Created: Jun 21, 2021 - 3:02pm

A1 0 1 2 3 4 5 6 7 8 9 10

REV	DESCRIPTION	CHK	DR	DATE
P2	ISSUE FOR APPROVAL	SF	LA	22.06.21
P1	ISSUE FOR REVIEW	SF	LA	30.04.21

CLIENT: NSW GOVERNMENT Education School Infrastructure
L3/8 WINDMILL STREET, MILLERS POINT, NSW 2000

ENGINEER: TTW Structural Civil Traffic Façade
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

PROJECT: KENT ROAD PUBLIC SCHOOL DEVELOPMENT
HERRING ROAD, MARSFIELD, NSW 2122

DRAWING NAME: TYPICAL DETAILS, SHEET 3

SCALE : A1	DRAWN BY	AUTHORISED BY
NTS	LA	NB
PROJECT No	DRAWING No	REVISION
201492	C22	P2

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