

KIEWA VALLEY ESTATE

STAGE 3B, 21 LOT RESIDENTIAL SUBDIVISION

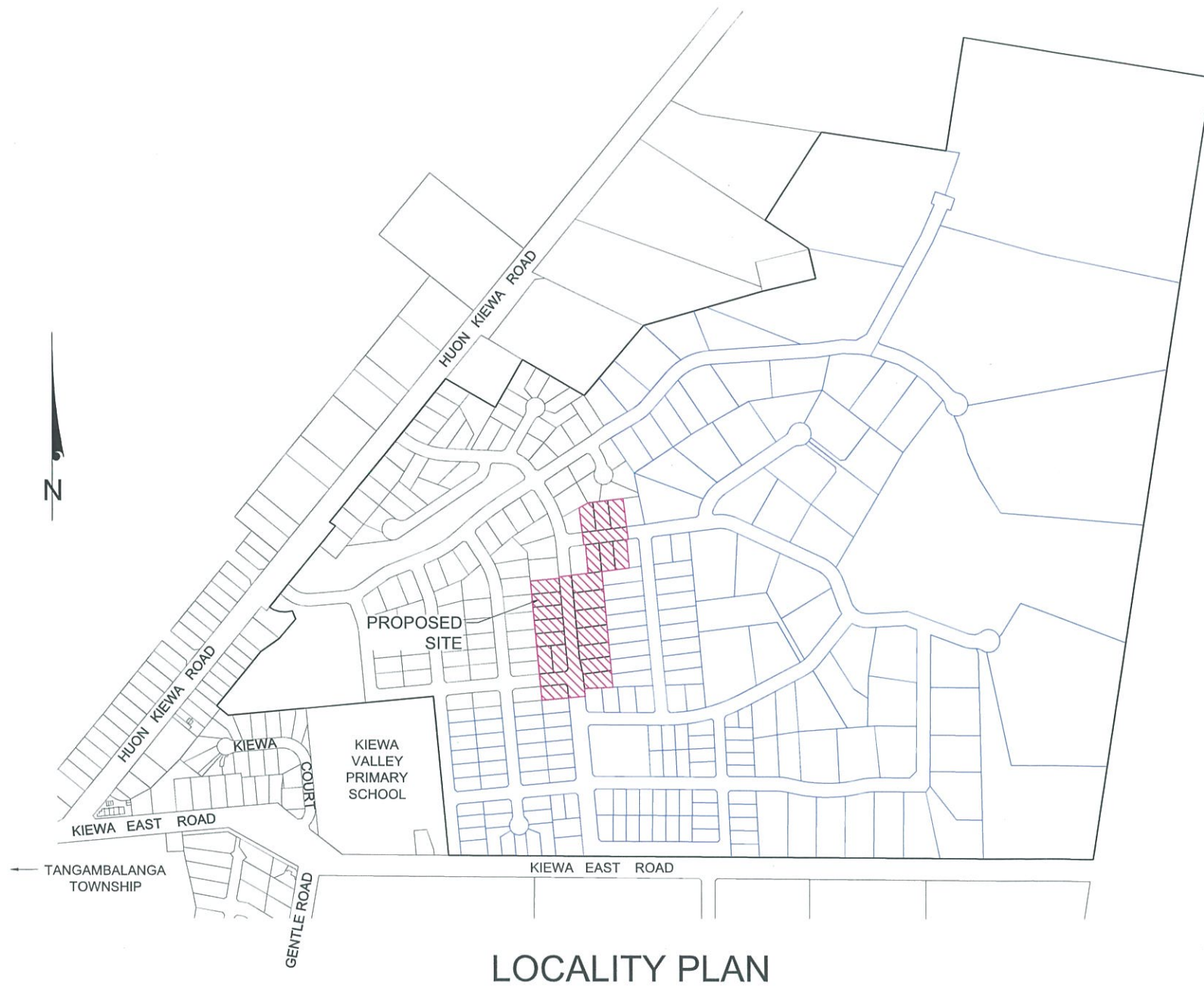
HUON KIEWA ROAD, TANGAMBALANGA

SCHEDULE OF DRAWINGS ROADS & DRAINAGE

SHEET	DESCRIPTION
S-01	GENERAL NOTES AND LEGENDS
S-02	CONSTRUCTION SITE ENVIRO MANAGEMENT PLAN
S-03	OVERALL LAYOUT PLAN
S-04	GENERAL ARRANGEMENT PLAN
S-05	GENERAL ARRANGEMENT PLAN
S-06	INTERSECTION DETAILS
S-07	GIBSON BOULEVARD LONGITUDINAL & CROSS SECTIONS
S-08	GIBSON BOULEVARD CROSS SECTIONS
S-09	PEARCE STREET LONGITUDINAL & CROSS SECTIONS
S-10	KIDMAN DRIVE LONGITUDINAL & CROSS SECTIONS
S-11	DRAINAGE LONGITUDINAL SECTIONS
S-12	DRAINAGE LONGITUDINAL SECTIONS
S-13	CATCHMENT PLAN & DRAINAGE PIT COMPUTATIONS
S-14	DRAINAGE PIPE COMPUTATIONS

SCHEDULE OF DRAWINGS WATER & SEWER

SHEET	DESCRIPTION
S-01	SEWER LAYOUT PLAN
S-02	SEWER LAYOUT PLAN
S-03	SEWER LONGITUDINAL SECTIONS
S-04	WATER LAYOUT PLAN
S-05	WATER LAYOUT PLAN



INDIGO SHIRE COUNCIL
APPROVED
FOR CONSTRUCTION

20.12.19 18-0166
 DATE PERMIT NO.

Signed..... *[Signature]*
ASSETS MANAGER

PROJECT No.: 16006403E

GENERAL NOTES

- ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY INDIGO SHIRE COUNCIL AND TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
- ALL RELEVANT AUTHORITIES ARE TO BE NOTIFIED TWO (2) DAYS PRIOR TO THE COMMENCEMENT OF WORKS ON SITE.
- THE CONTRACTOR MUST ADHERE TO THE CODE OF PRACTICE FOR "SAFETY PRECAUTIONS IN TRENCHING OPERATIONS" UNDER THE "OCCUPATIONAL HEALTH AND SAFETY ACT 2004".
- DRAINAGE PIPES UP TO AND INCLUDING 600mm ARE TO BE SPIGOT AND SOCKET, RUBBER RING JOINT REINFORCED CONCRETE.
- ALL 225mm DIAMETER DRAINAGE PIPES ARE TO BE EITHER RRR REINFORCED CONCRETE PIPES OR uPVC CLASS SN8 PIPES.
- ALL 150mm DRAINAGE PIPES ARE TO BE uPVC SN8 PIPES.
- STORMWATER DRAINS IN ROAD RESERVE SHALL BE CLASS "2" R.C.P. DRAINS WITHIN LOTS TO BE CLASS "2" R.C.P. OR SN8 CLASS uPVC.
- 150 DIA. DRAINS TO ALL TYPE "A" PROPERTY INLET PITS TO BE LAID WITH MINIMUM GRADE OF 1 IN 100.
- PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE MUNICIPALITY.
- STEEL GRATES ARE TO BE HOT DIP GALVANIZED AFTER MANUFACTURE.
- FINISHED LEVELS FOR SIDE ENTRY PITS MUST BE DETERMINED FROM KERB LEVELS AND LIDS SHOULD BE SLOPED TO SUIT NATURE STRIPS ETC. THE FSL'S INDICATED IN THE PIT SCHEDULE ARE NOT KERB LEVELS.
- ALL DRAINAGE LINES INSTALLED BEHIND KERBS AND UNDER ROADS ARE TO BE BACKFILLED WITH RIVER GRAVEL WITH MAXIMUM SIZE STONE OF 30mm AND HAVE A SUBSOIL DRAIN FROM THE GRAVEL CONSTRUCTED INTO EVERY DRAINAGE PIT ON THE DOWNSTREAM END OF EACH DRAINAGE LINE (1.5m LONG).
- ALL CONCRETE MUST HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS. KERB & CHANNEL CONCRETE MUST HAVE AN EQUIVALENT STRENGTH USING NOT LESS THAN 280Kg OF CEMENT PER m3 CONCRETE.
- FOOTPATH CROSSOVERS ARE TO BE PROVIDED AT LOCATIONS WHERE THE FOOTPATH MEETS THE KERB AND CHANNEL, REFER TO IDM STANDARD DRAWING SD-200 FOR DETAILS
- TGSI'S ARE TO BE PLACED IN MEDIAN STRIPS AT LOCATIONS WHERE THE FOOTPATH CROSSES THE ROAD ONLY.
- 100mm DIAMETER SERVICE CONDUITS ARE TO BE PROVIDED IN THE SAME TRENCH FOR WATER AND GAS SERVICES AT THE LOCATIONS INDICATED ON THE PLANS.
- ELECTRICITY CABLE CONDUITS ARE TO BE INSTALLED AS SHOWN ON THE PLANS, IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATION OF THE POWER COMPANY.
- TELSTRA/NBN CONDUITS ARE TO BE INSTALLED AS SHOWN ON THE PLANS.
- LOCATION OF CONDUITS IS TO BE MARKED WITH STAKES DURING CONSTRUCTION.
- THE LOCATION OF ALL SERVICE CONDUITS IS TO BE MARKED 3mm INTO THE FACE OF BOTH KERBS, IMMEDIATELY ABOVE THE CONDUIT WITH A UNIFORM 50mm HIGH LETTER (W,G,E,T etc). WHERE CONDUITS CROSS FOOTPATHS, THE LOCATION IS TO BE MARKED IN THE PATH (NEAR THE EDGE) IN THE SAME FASHION.
- NATURE STRIPS ARE TO BE TOPSOILED TO A DEPTH OF APPROXIMATELY 100mm USING THE MATERIAL STOCKPILED FROM STRIPPING, OR APPROVED IMPORTED FILL.
- ALL LEVELS TO AUSTRALIAN HEIGHT DATUM.
- CHAINAGES ARE TO PAVEMENT CENTERLINE UNLESS OTHERWISE SHOWN AND LEVELS ARE TO THE LIP OF KERB.
- CONTRACTOR TO VERIFY T.B.M. LEVELS BEFORE COMMENCING WORK ON SITE.
- WORK UNDER THIS CONTRACT INCLUDES THE REMOVAL OF ALL RUBBISH FROM THE ALLOTMENTS, FILLING OF EXISTING DRAINS, AND GENERALLY PREPARING THE SUBDIVISION IN A NEAT AND TIDY FASHION AS DIRECTED BY THE ENGINEER.
- LOT FILL TO BE PLACED IN ACCORDANCE WITH AS3798 GUIDELINES FOR EARTHWORKS AS LEVEL 1 CONTROLLED FILL COMPACT TO 95% S.O.D. LOT SHAPING SHALL BE ASSESSED ON SITE AT THE TIME OF CONSTRUCTION AND SHALL BE TO THE SATISFACTION OF COUNCIL REPRESENTATIVES AND SUPERINTENDENT.
- ALL NON GRAVEL TRENCHES ARE TO BE WATERED-IN VIA WATER JETTING SPEAR METHOD, TO THE SATISFACTION OF THE INDIGO SHIRE COUNCIL AND THE SUPERINTENDENT
- ROOT ZONE PROTECTION IS TO BE ASSESSED ONSITE & APPROPRIATE MEASURES TO BE APPROVED BY COUNCIL REPRESENTATIVES PRIOR TO COMMENCEMENT OF CONSTRUCTION.

EXISTING LEGEND

- Permanent Survey Mark
- Instrument Station
- Top of Bank
- Toe of Bank
- Drain
- Underground drain
- Edge of Bitumen
- Center of Bitumen
- Edge of Formation
- Edge of Concrete
- Fence
- Kerb & Gutter
- Side Entry Pit
- P (OH) Overhead Electricity
- Underground Electricity
- Water Main
- Sewerage Main
- Telstra
- Gas Main
- Approximate title derived from DCMB
- Title plotted from PM connections
- Sewerage Pit
- Paver Pale
- Light Pale
- Electricity Pit
- Sign
- Fire Plug
- Step Valve
- Telstra Pit
- Telstra Pillar
- Telstra Marker Post
- Junction Pit
- Drainage Pit
- Guide Post
- Title Peg
- Vegetation
- Shrub
- Tree

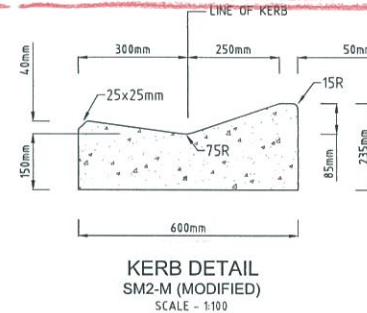
DESIGN LEGEND

- Edge of Bitumen
- Center of Bitumen
- Drain
- Proposed Drainage
- Side Entry Pit / Grated Gully Pit / Surface Inlet Pit
- Junction Pit / Grated Pit
- Underground Electricity
- Water Main
- Sewer Main
- Telstra
- Gas Main
- SM2-M Modified
- Proposed Kerb Adaptor
- Subsoil Drain
- Barrier
- Fence (to be removed)
- Limit of Works
- Lot Fall
- Footpath
- Cut (Lots)
- Compacted General Fill (Lots) Under 300mm Depth
- Level 1 Controlled Fill (Lots) Over 300mm Depth
- Lot Fall

PAVEMENT DETAIL TABLE

PAVEMENT TYPE	TYPE A
ROADS	GIBSON BOULEVARD, PEARCE STREET & KIDMAN DRIVE
WEARING COURSE	30mm SIZE 10 ASPHALT TYPE N PRIME
INTERMEDIATE COURSE	N/A
BASE	100mm CLASS 2 FCR COMPACTED TO 98% MMDD +/- 2.0% OMC
SUBBASE	170mm CLASS 3 FCR COMPACTED TO 97% MMDD +/- 2.0% OMC
SUBGRADE	150mm COMPACTED TO 100% SDD (NATURAL SOIL) OR 98% SDD +/- 2.0% OMC (STABILIZED SOIL)

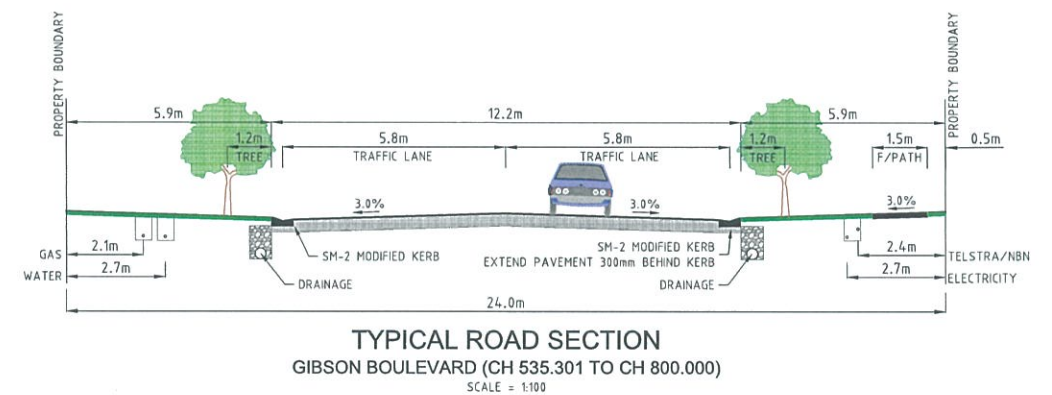
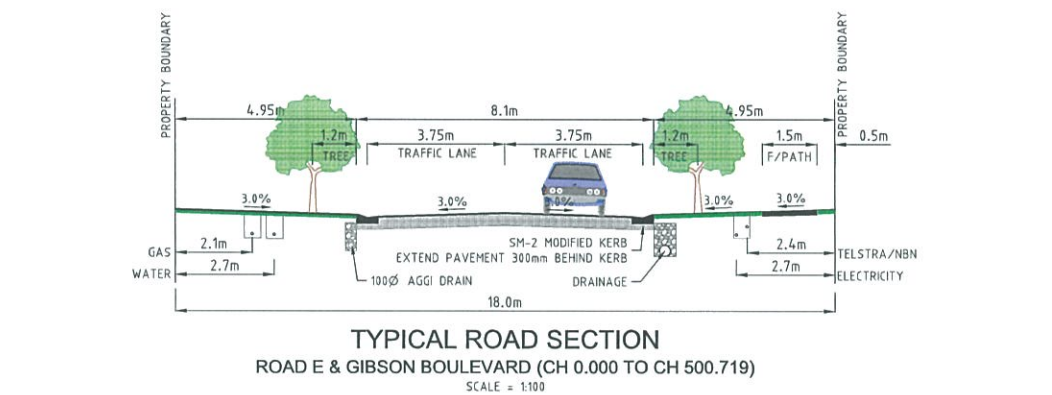
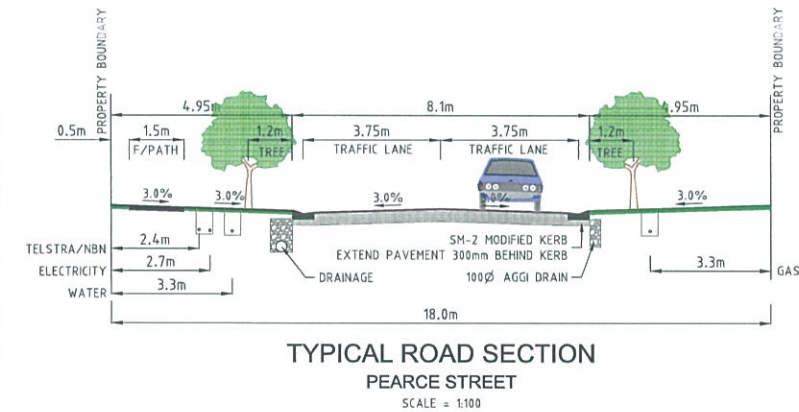
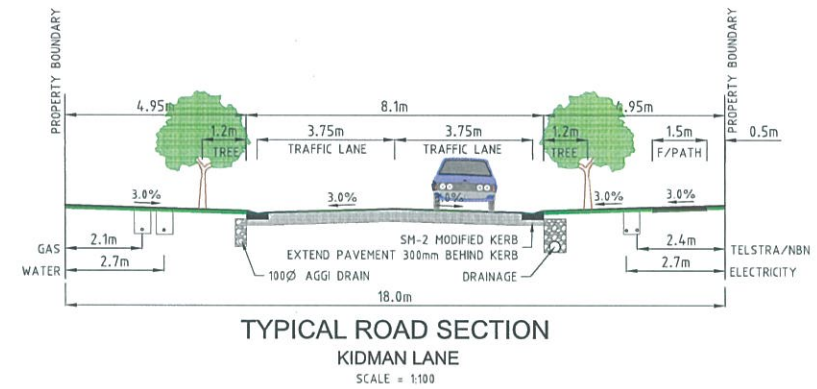
INDIGO SHIRE COUNCIL
APPROVED
FOR CONSTRUCTION
 DATE 20.12.19 PERMIT NO. 18-0166
 Signed: [Signature] ASSETS MANAGER



OFFSET TABLE

ROAD	SM2-M Modified KERB	WATER	POWER	GAS	TELSTRA
GIBSON BOULEVARD (CH 0.0 TO CH 500.7)	4.95m (BCK)	2.7m EAST	2.7m WEST	2.1m EAST	2.4m WEST
GIBSON BOULEVARD (CH 535.3 TO CH 800.0)	5.9m (BCK)	2.7m EAST	2.7m WEST	2.1m EAST	2.4m WEST
PEARCE STREET	4.95m (BCK)	3.3m NORTH	2.7m NORTH	3.3m SOUTH	2.4m NORTH
KIDMAN DRIVE	4.95m (BCK)	2.7m NORTH	2.7m SOUTH	2.1m NORTH	2.4m SOUTH

OFFSETS ARE FROM LOT BOUNDARY

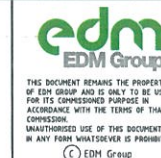


Issue	Amendments	Int	Date	Issue	Amendments	Int	Date
3	NORTH EAST WATER COMMENTS	JM	9DEC19				
2	APPROVAL ISSUE	JM	26NOV19				
1	PRELIMINARY ISSUE	JM	22NOV19				

NOTES

SM2-M KERB = SM2-M Modified KERB (600mm)
 BARRIER KERB = BARRIER KERB (600mm)
 CPD A = PROPERTY INLET PIT (DRAINAGE)
 KERB ADAPTOR = KERB ADAPTOR (SD 505)
 PC = PROPERTY CONNECTION (SEWER)
 WT = WATER TAPPING (WATER)

RCP = REINFORCED CONCRETE PIPE
 RRR = RUBBER RING JOINT
 SIP = SURFACE INLET PIT
 SEP = SIDE ENTRY PIT
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Designed	JM
Checked	RTR
Drawn	JM
Survey	EDM
Date	31/07/18
Datum	AHD

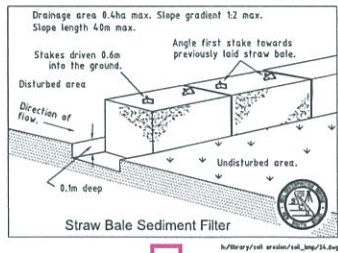
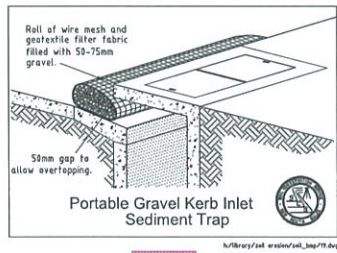
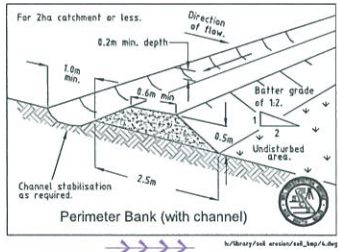
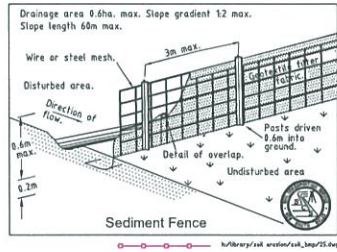
KIEWA VALLEY ESTATE PTY LTD
 21 LOT SUBDIVISION (STAGE 3B)
 KIEWA VALLEY ESTATE
 HUON-KIEWA ROAD, TANGAMBALANGA
 GENERAL NOTES AND LEGEND
 Drawing No. 16006403 Model
 Scale 1:100

CONTROL OF REGIONALLY PROHIBITED WEEDS

1. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE COUNCIL AND TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
2. ALL RELEVANT AUTHORITIES ARE TO BE NOTIFIED TWO (2) DAYS PRIOR TO THE COMMENCEMENT OF WORKS ON SITE
3. ALL ADJOINING LANDOWNERS ARE TO BE NOTIFIED PRIOR TO WEED SPRAYING.
4. ALL MACHINERY AND EQUIPMENT USED ON SITE, INCLUDING THE ROAD RESERVES MUST BE 'CLEAN' SO AS TO PREVENT THE SPREAD OF WEEDS. THE MACHINERY MUST ALSO LEAVE THE SITE CLEAN, TO PREVENT THE SPREAD OF WEEDS.
5. ANY WORKS CREWS, CONTRACTORS AND PARTICULARLY PLANT OPERATORS MUST BE PROPERLY BRIEFED ON ALL OF THE ABOVE CONDITIONS RELEVANT TO THIS ASPECT OF THE PROJECT PRIOR TO ITS COMMENCEMENT.
6. VEHICLE TRAFFIC TO BE MINIMIZED ON GRASSED AREAS.
7. SOIL & WATER MANAGEMENT WORKS ARE TO BE UNDERTAKEN AS PER SOIL AND WATER MANAGEMENT GUIDELINES FOR SUBDIVISIONS
8. ALL NATIVE VEGETATION IS TO BE PROTECTED THROUGHOUT WEED CONTROL UNDERTAKING. HERBICIDE SPRAYING NEAR NATIVE VEGETATION TO BE LIMITED, HAND REMOVE WEEDS IF POSSIBLE.
9. HERBICIDE USE FOR WEED CONTROL IS TO BE USED AT THE LOWEST HERBICIDE RATE THAT IS RECOMMENDED. SPOT SPRAYING AND DIRECTING THE SPRAYING OF WEEDS AWAY FROM WATERWAY IS RECOMMENDED. HERBICIDE WHICH IS PREFERRED FOR USE AROUND WATERWAYS IS TO BE USED OTHERWISE REMOVE BY HAND.
10. ALL ADJACENT LANDHOLDERS ARE TO BE NOTIFIED IN WRITING OF WEED CONTROL BEING UNDERTAKEN AT LEAST 48 HOURS PRIOR TO STARTING.
11. DURING WEED CONTROL, APPROPRIATE SIGNAGE IS TO BE ERECTED AND MAINTAINED. SIGNAGE IS DETAIL WEED CONTROL BEING UNDERTAKEN.
12. ALWAYS READ AND ADHERE TO THE DIRECTIONS PROVIDED ON PRODUCT LABELS.
13. TREE REMOVAL INCLUDES REMOVAL OF ROOT SYSTEM.
14. ANY OTHER DECLARED NOXIOUS WEEDS BY DWLP ARE TO BE APPROPRIATELY TREATED AND/OR REMOVED.

SOIL & WATER MANAGEMENT NOTES:

1. PLACE STRAW BALES AT ALL NEW PITS & MAINTAIN DURING CONSTRUCTION.
2. INSTALL SILT PROTECTION AT ALL SIDE ENTRY PITS OR AS SHOWN ON PLANS MAINTAIN ALL WORKS UNTIL PRACTICAL COMPLETION OF SITE.
3. TOPSOIL ALL EARTHWORKS AREAS IMMEDIATELY AFTER WORKS ARE COMPLETE (TO RE-ESTABLISH GRASSES).
4. CONTRACTOR TO SUBMIT PLAN OF TOPSOIL & SPOIL STOCKPILE AREAS FOR APPROVAL. ALL STOCKPILES TO HAVE SILT FENCING ERECTED ON DOWN SLOPE SIDE.
5. VEHICLE TRAFFIC TO BE MINIMIZED ON GRASSED AREAS.
6. CONTRACTOR TO MAINTAIN ALL SOIL & WATER MANAGEMENT WORKS IN GOOD ORDER AND INSPECT FOLLOWING RAINS.
7. DUE TO THE ADJACENT DWELLINGS DUST CONTROL MEASURES MUST BE EMPLOYED BY CONTRACTOR.
8. SILT FENCING TO BE ERECTED AT THE BASE OF ALL SITE FILL AREAS & ROADWORK AREA, ALSO ADDITIONAL LOCATIONS SHOWN ON PLANS.
9. SOIL & WATER MANAGEMENT WORKS ARE TO BE UNDERTAKEN AS PER UNDERTAKEN AS PER PUBLICATION "SOIL & WATER MANAGEMENT GUIDELINES FOR SUBDIVISIONS".
10. ROOT ZONE PROTECTION IS TO BE ASSESSED ONSITE & APPROPRIATE MEASURES TO BE APPROVED BY COUNCIL REPRESENTATIVES PRIOR TO COMMENCEMENT OF CONSTRUCTION.



SEDIMENT CONTROL DETAILS
SCALE: NTS



LAYOUT PLAN
SEDIMENT CONTROL LAYOUT
SCALE - 1:750

INDIGO SHIRE COUNCIL
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 DATE: 20.12.19
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 PERMIT NO. 18-0166

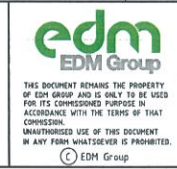
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3.	NORTH EAST WATER COMMENTS	JM	9DEC19				
2.	APPROVAL ISSUE	JM	26NOV19				
1.	PRELIMINARY ISSUE	JM	22NOV19				



NOTES

SM2-M KERB = SM2-M Modified KERB (600mm)
 BARRIER KERB = BARRIER KERB (600mm)
 CPO A = PROPERTY INLET PIT (DRAINAGE)
 KERB ADAPTOR = KERB ADAPTOR (ISO 505)
 PC = PROPERTY CONNECTION (SEWER)
 WT = WATER TAPPING (WATER)

RCP = REINFORCED CONCRETE PIPE
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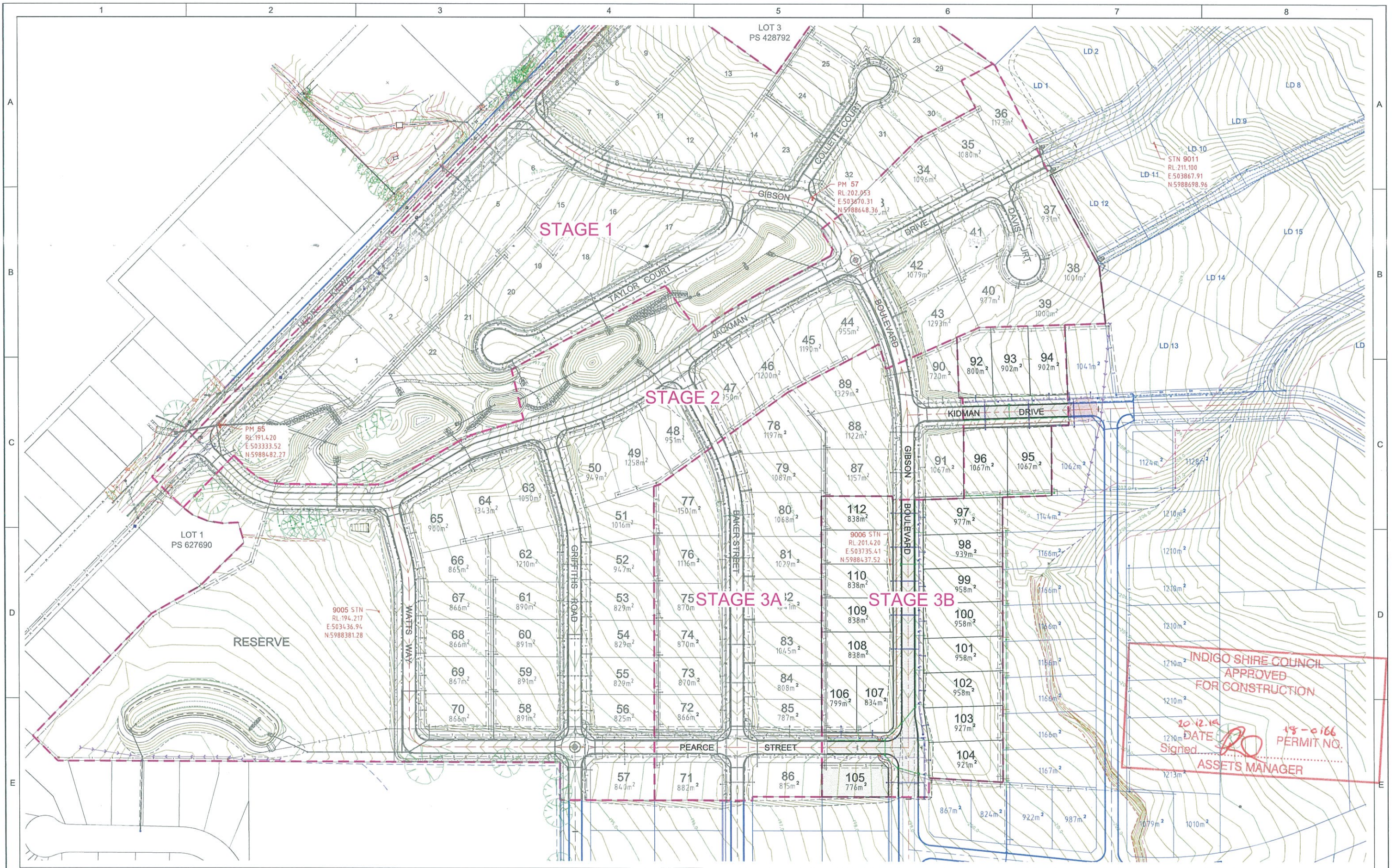


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 Survey: EDM
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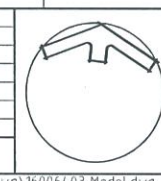
EDM Group
 PLANNERS SURVEYORS & ENGINEERS
 OFFICES 99 HUME ST
 PO Box 317 WODONGA 3689
 Ph (02) 6057 8578
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EDM Group ABN 12 532 364 914
 www.edmgroup.com.au

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 CONSTRUCTION SITE ENVIRO MANAGEMENT PLAN
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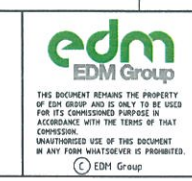
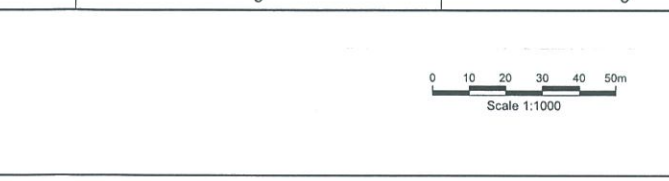
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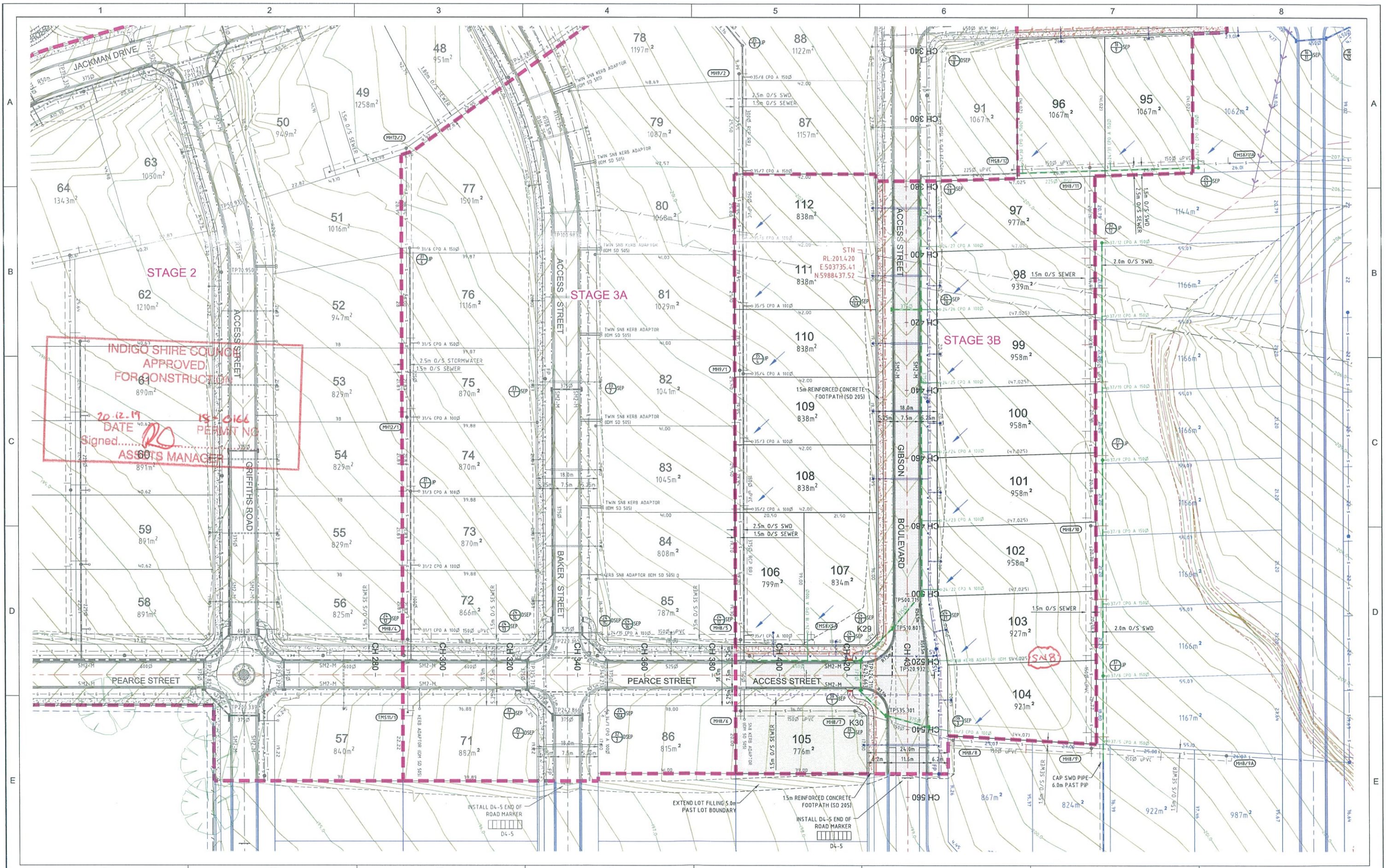


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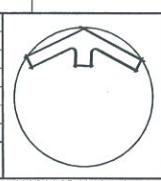
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 OVERALL LAYOUT PLAN
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 Scale 1:1000

INDIGO SHIRE COUNCIL
APPROVED
FOR CONSTRUCTION
 20.12.19
 DATE
 Signed: *[Signature]*
 18-0166
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ASSETS MANAGER



INDIGO SHIRE COUNCIL
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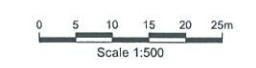
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 GENERAL LAYOUT PLAN
 Drawing No. 16006403 Model
 Scale 1:500

Original Sheet
 SHEET 5 OF 16
 A1