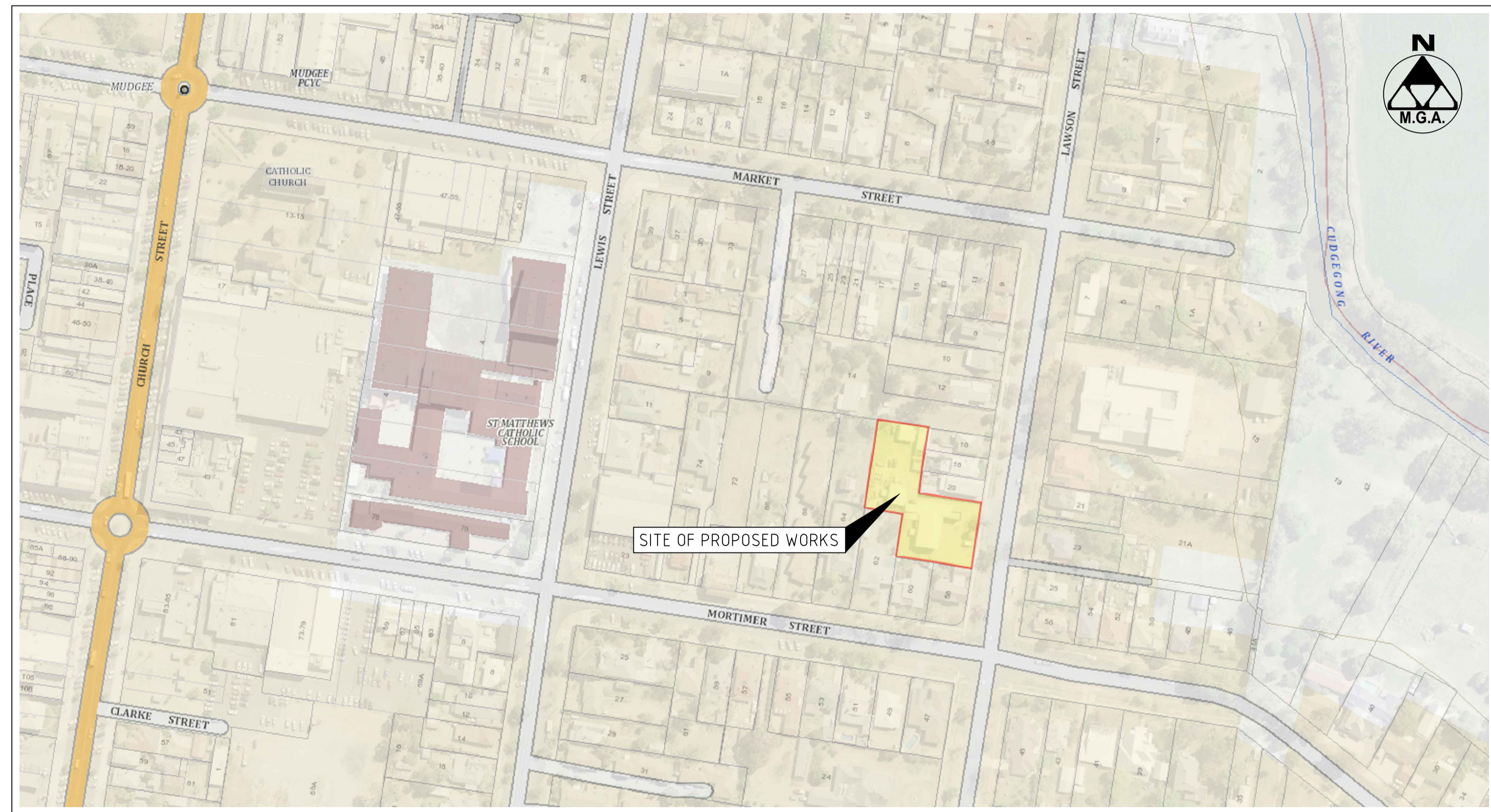


HAYES CONSTRUCTION

MULTI-UNIT DEVELOPMENT AT 22 LAWSON STREET MUDGEEE NSW 2850

DRAWING SCHEDULE

- 37340-C00 COVER SHEET & GENERAL NOTES
- 37340-C01 EXISTING SITE PLAN
- 37340-C02 PROPOSED SITE PLAN
- 37340-C03 PROPOSED STORMWATER PLAN
- 37340-C04 PROPOSED SEWER PLAN
- 37340-C05 PROPOSED HYDRANT PLAN
- 37340-C06 PROPOSED VEHICLE TURNING PLAN



LOCALITY PLAN
NOT TO REDUCTION RATIO

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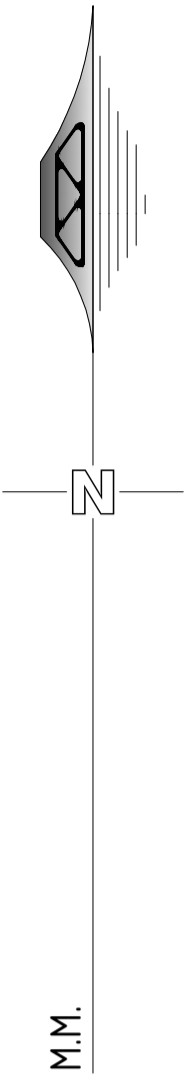
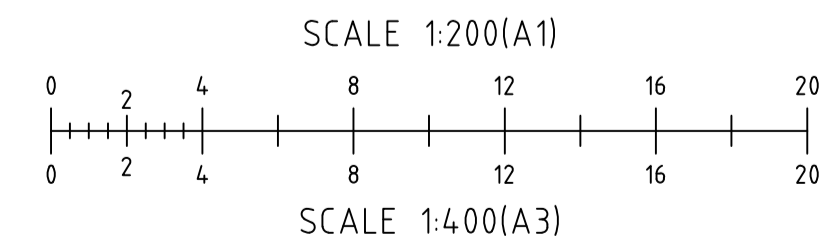
LEGEND

- EXISTING SUBJECT CADASTRAL BOUNDARIES
- Ex. S — Ex. S — EXISTING UNDERGROUND SEWER PIPE
- ⊙ SMH EXISTING SEWER MANHOLE

NOTES:

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EXISTING SITE PLAN
 REDUCTION RATIO 1:200 @ A1
 1:400 @ A3



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 Project: MULTI-UNIT DEVELOPMENT AT 22 LAWSON STREET MUDGEE NSW 2850
 Drawing Title: EXISTING SITE PLAN

Rev	Date	Amendment
A	19-08-2021	ISSUED FOR DA

Design LM Certification

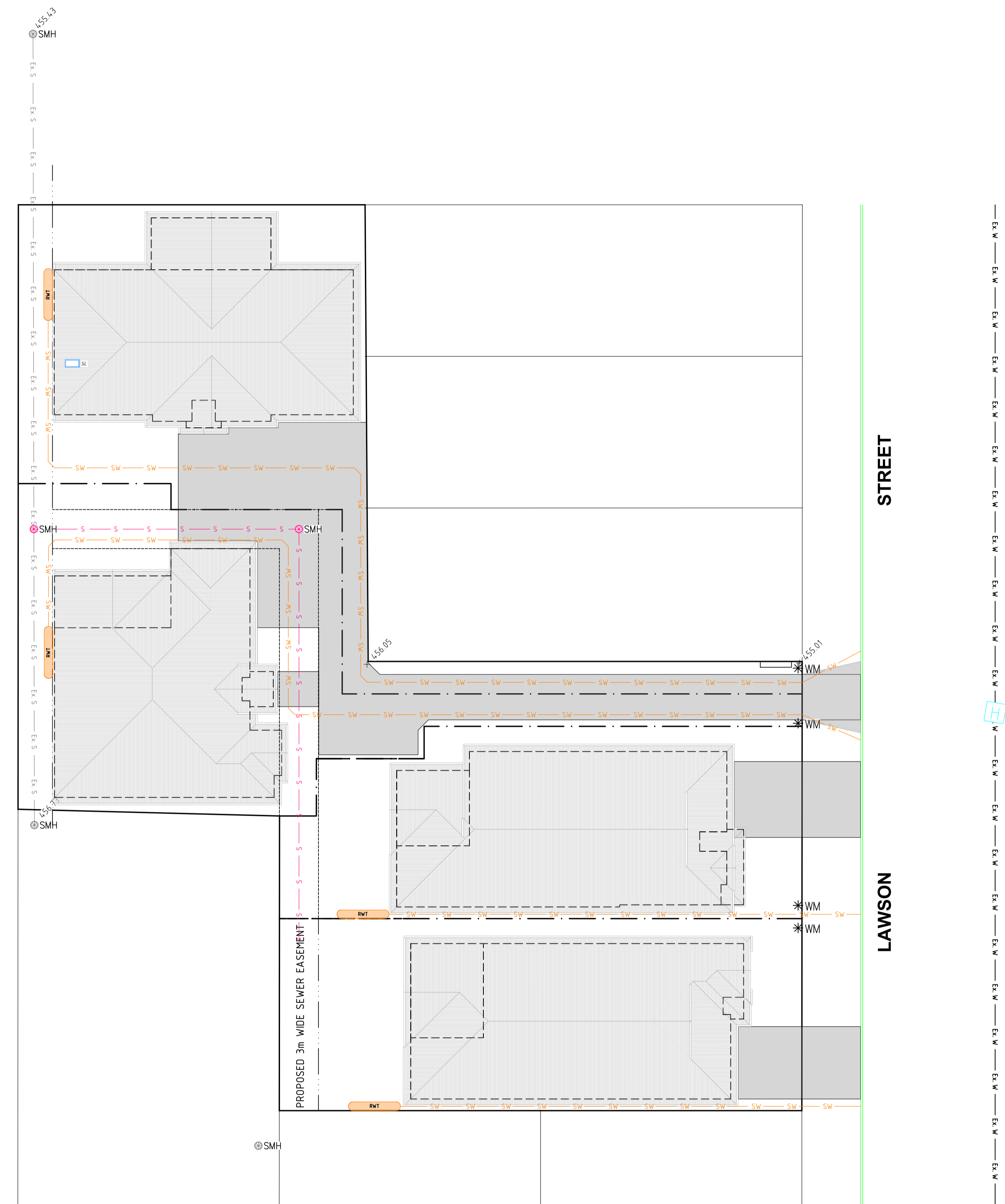
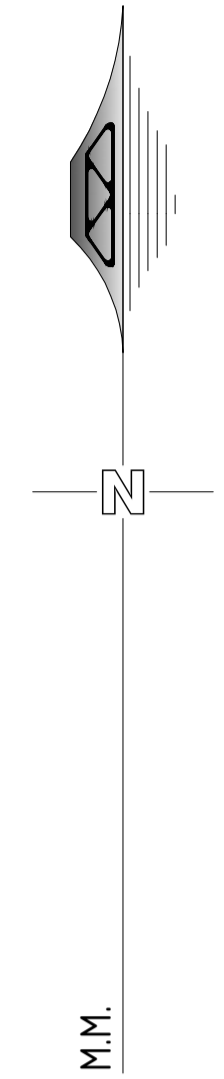
Drawn MK

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Original Sheet Size = A1 37340 - C01

Revision

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LEGEND

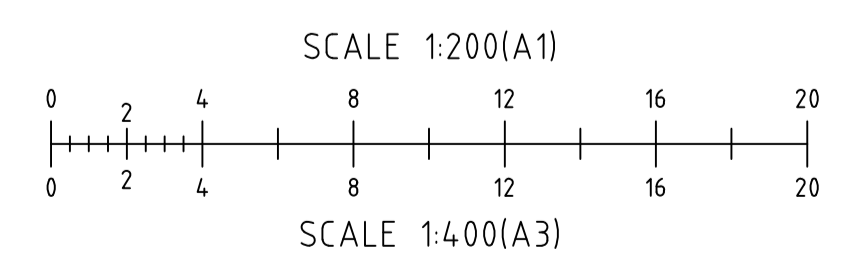
—	EXISTING SUBJECT CADASTRAL BOUNDARIES
— Ex. S — Ex. S —	EXISTING UNDERGROUND SEWER PIPE
— Ex. W — Ex. W —	EXISTING UNDERGROUND WATER MAIN
⊙ SMH	EXISTING SEWER MANHOLE

LEGEND (proposed)

▒	EXTENT OF PROPOSED CONCRETE PAVEMENT
▒	EXTENT OF PROPOSED ROOF
---	PROPOSED EASEMENT
— SW — SW —	PROPOSED STORMWATER DRAINAGE PIPE
RWT	PROPOSED RAINWATER TANK
— S — S —	PROPOSED SEWER PIPE
⊙	PROPOSED SEWER MANHOLE
— W — W —	PROPOSED WATER MAIN
⊕	PROPOSED HYDRANT
* WM	PROPOSED WATER METER

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PROPOSED SITE PLAN
 REDUCTION RATIO 1:200 @ A1
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 Drawing Title: PROPOSED SITE PLAN

Rev	Date	Amendment
A	19-08-2021	ISSUED FOR DA

Design	LM	Certification	
Drawn	MK		
Check	LM	Drawing Number	
Original Sheet Size = A1		37340 - C02	Revision A

STORMWATER NOTES

STORMWATER ANALYSIS

- DESIGN CALCULATIONS AS PER AS3500.3-2015
- RAINFALL INTENSITY FOR 5 MINUTES DURATION AND 5% AEP $I_5 = 14.7$ mm/hr.

HYDRAULIC ANALYSIS

- DESIGN CALCULATIONS AS PER AS3500.3-2015

A) PRE-DEVELOPED:

- TOTAL APPLICABLE CATCHMENT AREA (A) = 2572 m²
- RAINFALL INTENSITY (I_5) = 14.7mm/hr (5min 5% AEP)
- Cr = RUNOFF COEFFICIENT FOR ROOF AREA = 1.0
- Ar = TOTAL ROOF AREA= 0 m²
- Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9
- Ai = TOTAL UNROOFED IMPERVIOUS AREA= 0 m²
- Cp = RUNOFF COEFFICIENT FOR PERVIOUS GRAVEL AREA = 0.6
- Ap = TOTAL IMPERVIOUS GRASS AREA = 2572 m²
- TOTAL FLOW $Q_{PRE} = (Cr Ar + Ci Ai + Cp Ap) . I / 3600 = 63.0$ l/s

B) POST-DEVELOPED FLOW:

- TOTAL APPLICABLE CATCHMENT AREA (A) = 2572 m²
- RAINFALL INTENSITY (I_5) = 14.7mm/hr (5min 5% AEP)
- Cr = RUNOFF COEFFICIENT FOR ROOF AREA = 1.0
- Ar = TOTAL ROOF AREA= 1320 m²
- Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9
- Ai = TOTAL UNROOFED IMPERVIOUS AREA= 411 m²
- Cp = RUNOFF COEFFICIENT FOR PERVIOUS GRASS AREA = 0.3
- Ap = TOTAL PERVIOUS GRASS AREA = 841 m²
- TOTAL FLOW $Q_{POST} = (Cr Ar + Ci Ai + Cp Ap) . I / 3600 = 79.3$ l/s

2. RAINWATER TANK:

- ROOF AREA OF PROPOSED UNITS = 1320 m²
- RUNOFF FROM ROOF FOR 5% AEP = 53.9 l/s
- SITE RUNOFF BYPASSING RWT = 25.4 l/s
- CONTROLLED OUTFLOW = 37.6 l/s
- REQUIRED STORAGE VOLUME = $(63 \text{ l/s} - 25.4 \text{ l/s}) \times 60 \text{ s} \times 5 \text{ min}$
= 11,280 L OVERALL
= 2,820 L PER DWELLING +1,000L BASIN
- FOR EACH DWELLING, PROVIDE 4,000 L RAINWATER TANK WITH OUTFLOW < 9.4 l/s

DESIGN NOTE:
AEP = 5%
DURATION = 5 MIN.
RAINFALL INTENSITY = 14.7mm/hr

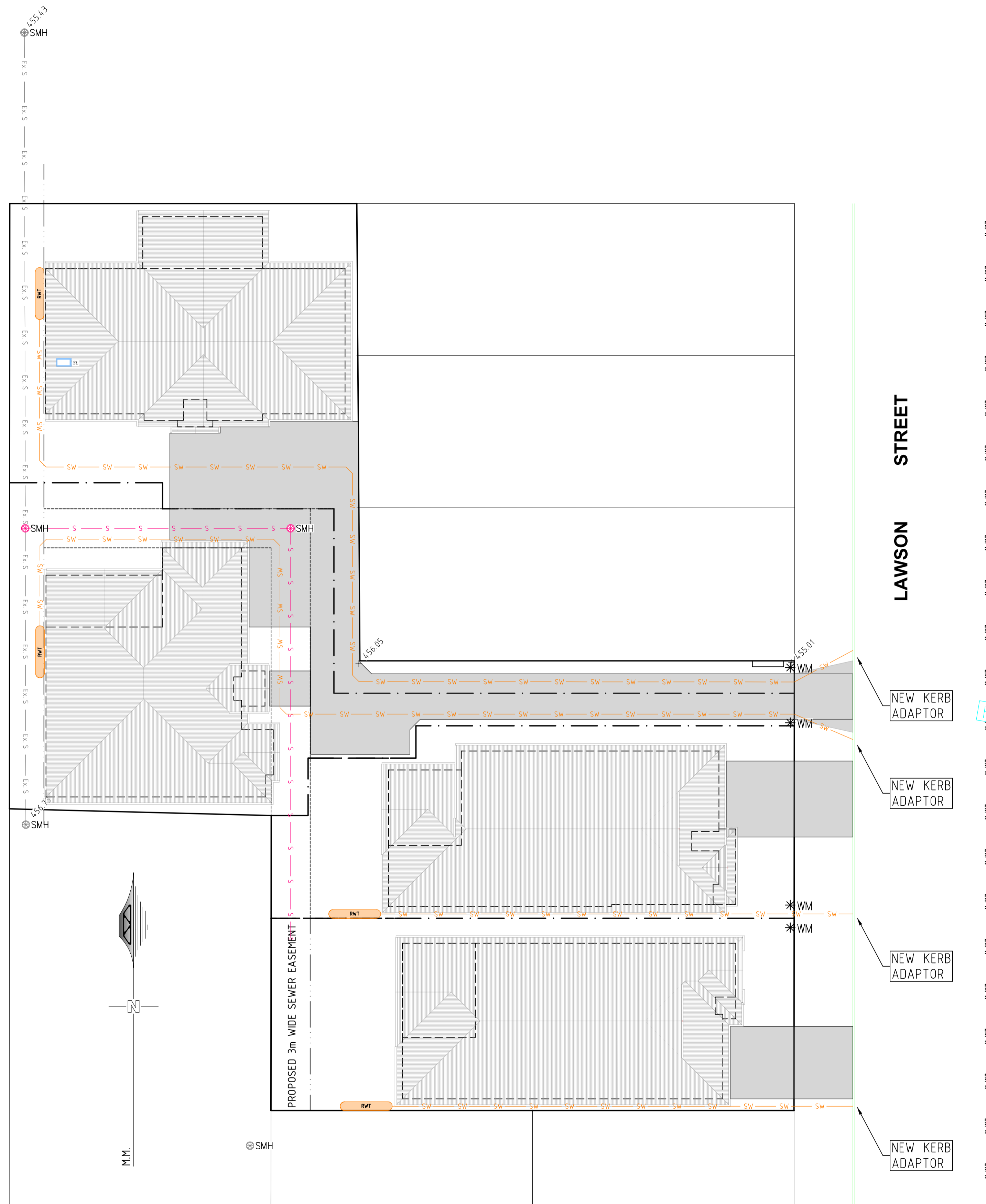
LEGEND

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- Ex. S ——— Ex. S ——— EXISTING UNDERGROUND SEWER PIPE
- Ex. W ——— Ex. W ——— EXISTING UNDERGROUND WATER MAIN
- SMH EXISTING SEWER MANHOLE

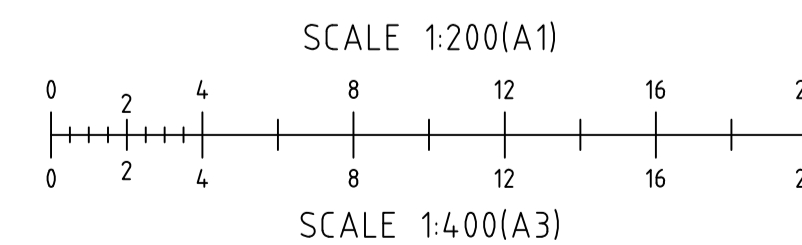
LEGEND (proposed)

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- EXTENT OF PROPOSED ROOF
- PROPOSED EASEMENT
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED RAINWATER TANK
- PROPOSED SEWER PIPE
- PROPOSED SEWER MANHOLE
- PROPOSED WATER MAIN
- PROPOSED HYDRANT
- PROPOSED WATER METER

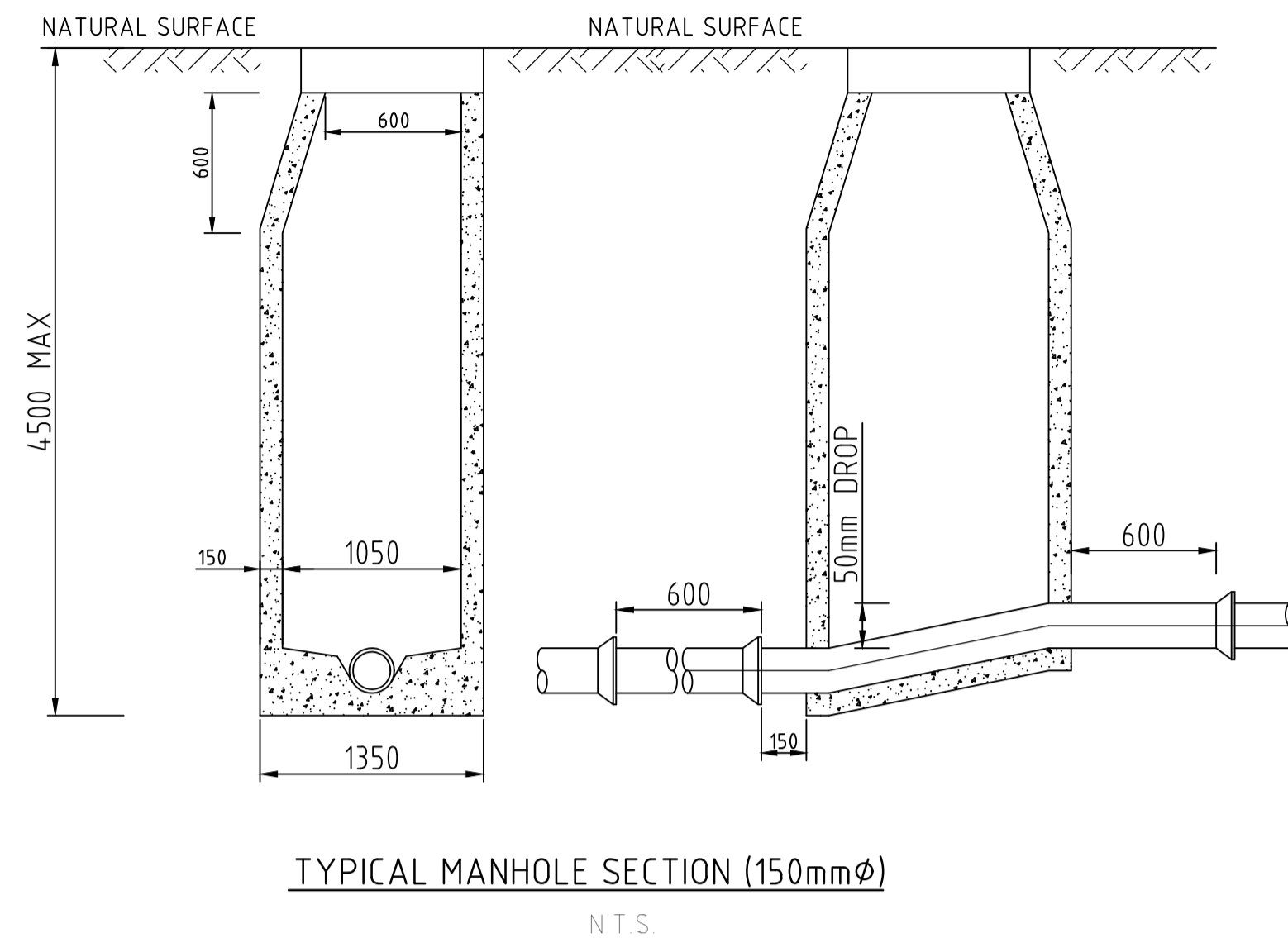
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PROPOSED STORMWATER MANAGEMENT PLAN
REDUCTION RATIO 1:200 @ A1
1:400 @ A3



SUBMISSION FOR DA



TYPICAL MANHOLE SECTION (150mmØ)
N.T.S.

INSPECTION HOLD POINTS	
1.	INSTALLATION OF SEDIMENT & EROSION CONTROL MEASURES.
2.	WATER & SEWER LINE INSTALLATION PRIOR TO BACKFILL.
3.	PRACTICAL COMPLETION.

- SEWER NOTES**
- ALL SEWER MAINS SHALL BE 150Ø/225Ø CLASS SN8 RRJ UPVC PIPE. ALL GRAVITY LINES TO USE SEWER GRADE FITTINGS WHERE REQUIRED.
 - CONSTRUCTION OF SEWER MAINS AND MANHOLES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE WSA SEWERAGE CODE, WSA-02, 2002.
 - ANY OTHER SERVICES INCLUDING TELSTRA, GAS, POWER, WATER AND STORMWATER MUST BE LOCATED BEFORE WORK COMMENCES.
 - MANHOLES SHALL BE PRECAST CONCRETE FROM A SUPPLIER APPROVED BY COUNCIL AND HAVE A ROUND REMOVABLE LIGHT DUTY GATIC COVER (UNO) AND A MINIMUM INTERNAL DIAMETER OF 1020mm.
 - 150mmØ BOUNDARY RISERS SHALL BE PROVIDED TO EACH LOT TO MID-WESTERN COUNCIL'S GUIDELINES FOR ENGINEERING WORKS.
 - RISERS AND SIDELINES TO BE CONSTRUCTED TO WSA-02 2002.
 - FLOW LINE CHANNELS AND INTERSECTIONS SHALL BE CONSTRUCTED THROUGH MAINS AS PER WSA-02 2002.
 - ALL SEWER MAINS TO BE PRESSURE TESTED AS PER WSA-02 2002 AND DUBBO REGIONAL COUNCIL'S GUIDELINES FOR ENGINEERING WORKS.

- BEDDING NOTES**
- THE MINIMUM DEPTH TO TOP OF PIPE SHALL BE 1000mm, EXCEPT UNDER ROAD PAVEMENT WHERE MINIMUM COVER TO TOP OF PIPE SHALL BE 1200mm MINIMUM UNLESS SHOWN OTHERWISE. PIPES WITH LESS COVER THAN THESE LIMITS TO BE CONCRETE ENCASED, AND DICL UNDER ROADS.
 - GRADES OF GRAVITY SEWER NOT TO BE FLATTER THAN 1:179 (0.55%) FOR 150mm DIAMETER PIPES AS PER WSA-2014.
 - MANHOLES SHALL BE PLACED AT EACH CHANGE IN DIRECTION OR GRADE OF THE PIPE LINE AT INTERVALS ALONG THE LINE NOT EXCEEDING 80m.

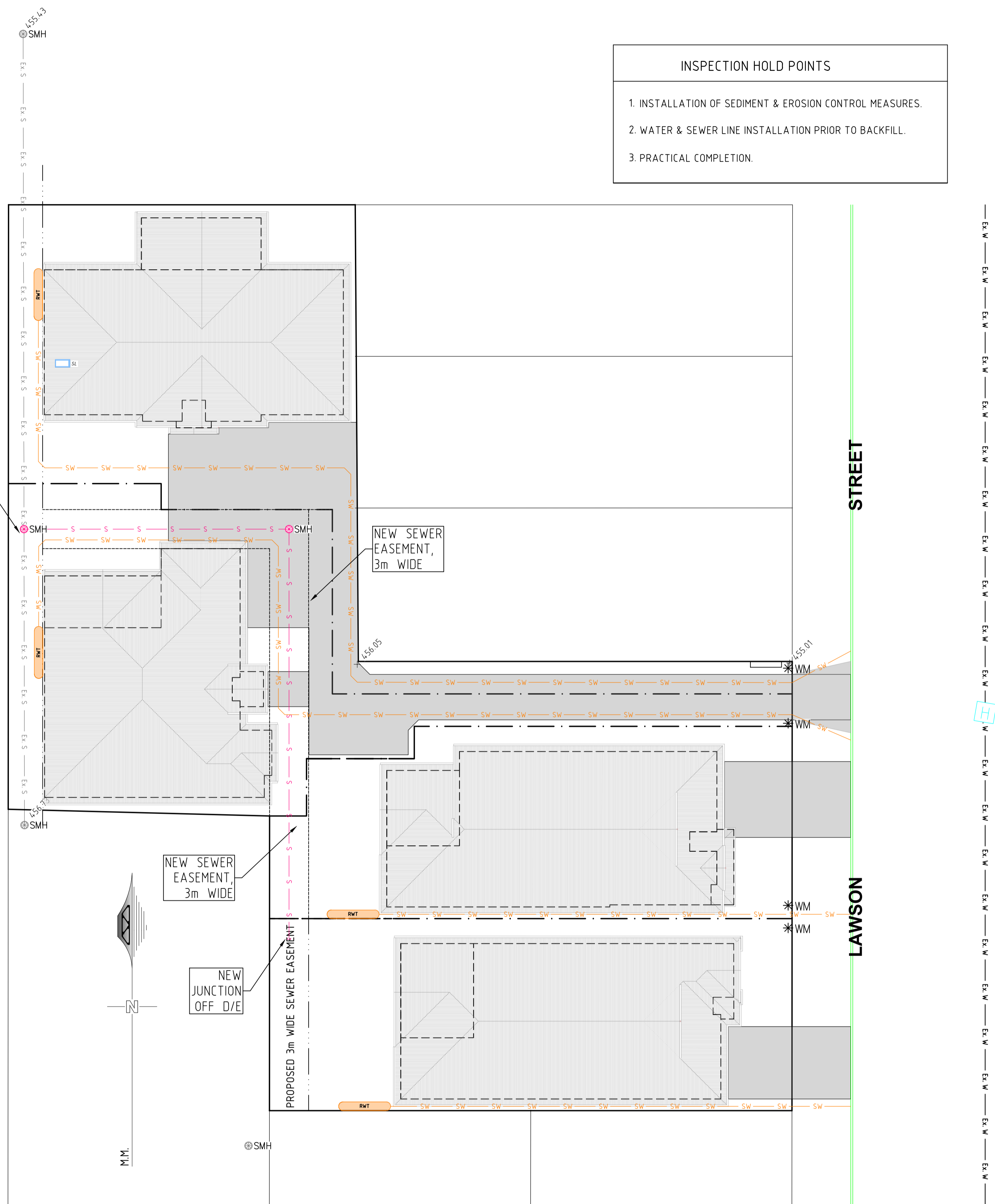
LEGEND

— Ex. S — Ex. S —	EXISTING SUBJECT CADASTRAL BOUNDARIES
— Ex. S — Ex. S —	EXISTING UNDERGROUND SEWER PIPE
— Ex. W — Ex. W —	EXISTING UNDERGROUND WATER MAIN
⊗ SMH	EXISTING SEWER MANHOLE

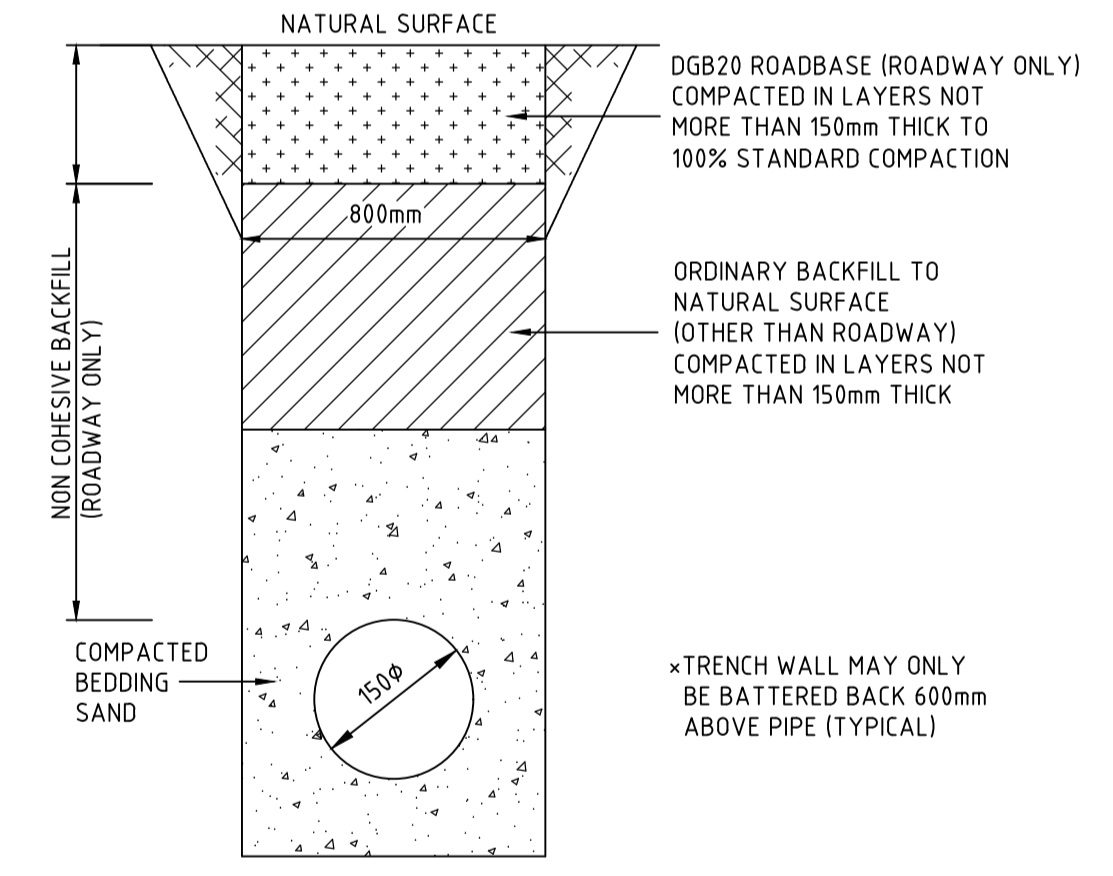
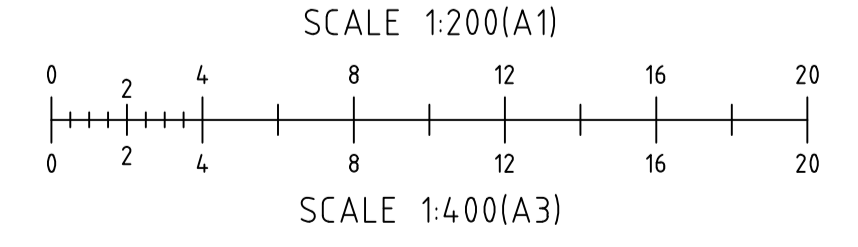
LEGEND (proposed)

	EXTENT OF PROPOSED CONCRETE PAVEMENT
	EXTENT OF PROPOSED ROOF
---	PROPOSED EASEMENT
— SW — SW —	PROPOSED STORMWATER DRAINAGE PIPE
	PROPOSED RAINWATER TANK
— S — S —	PROPOSED SEWER PIPE
	PROPOSED SEWER MANHOLE
— W — W —	PROPOSED WATER MAIN
	PROPOSED HYDRANT
* WM	PROPOSED WATER METER

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PROPOSED SEWER PLAN
REDUCTION RATIO 1:200 @ A1
1:400 @ A3



TYPICAL TRENCH SECTION
N.T.S.

* INSTALLATION OF UPVC PIPES SHALL TO CONFORM TO AS2032-1977 "INSTALLATION OF UPVC PIPE SYSTEMS", AS2566-1998 "BURIED FLEXIBLE PIPELINES", WSA-02 2002 AND MANUFACTURERS INSTRUCTIONS.

SUBMISSION FOR



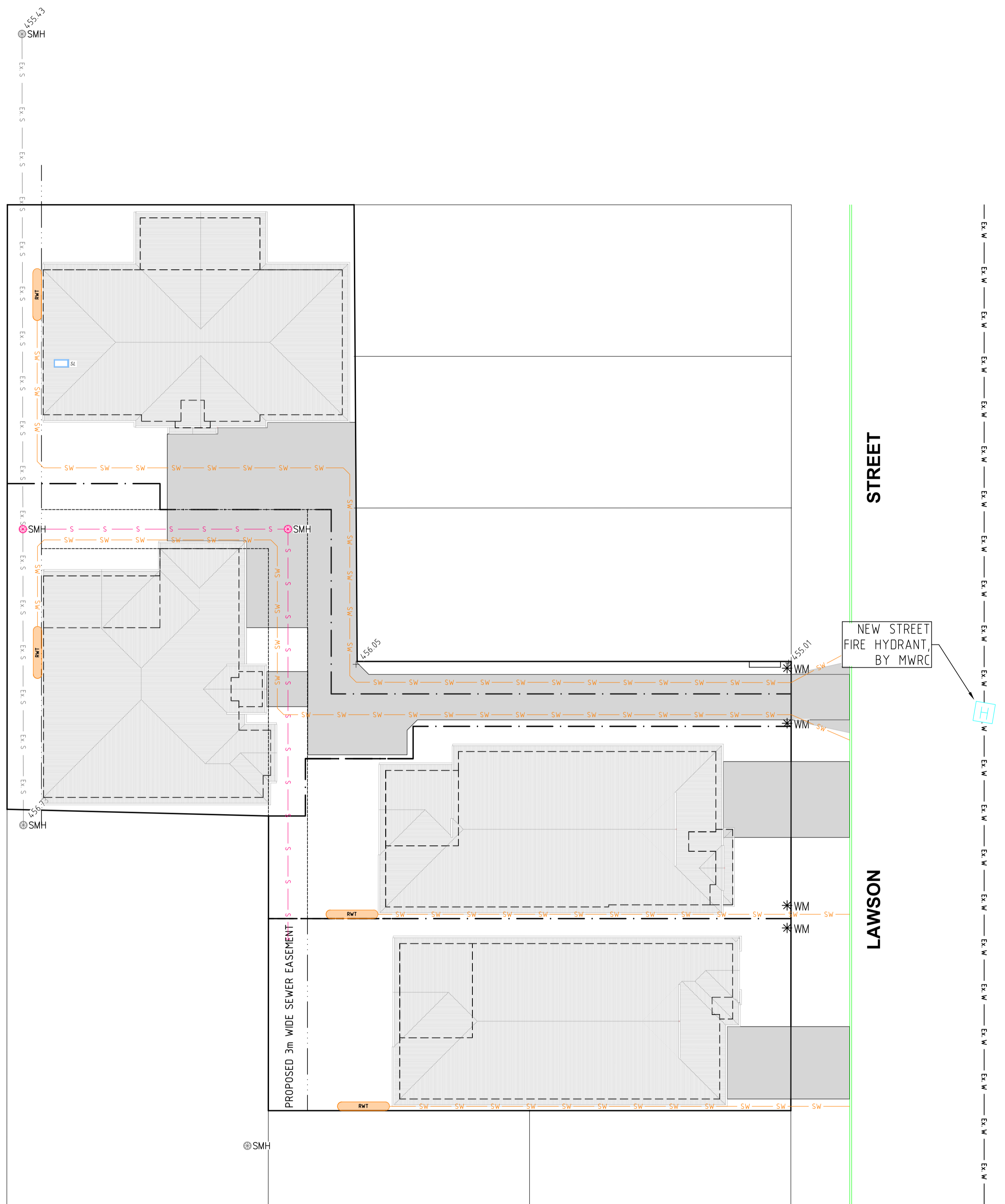
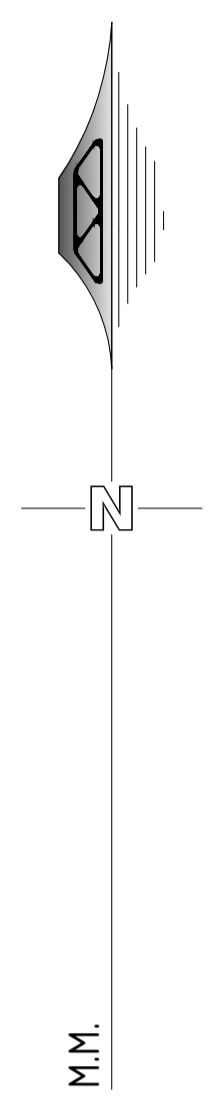
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 Drawing Title: PROPOSED SEWER PLAN

Rev Date Amendment
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 Drawn MK
 Check LM Drawing Number
 Original Sheet Size = A1 37340 - C04



- NOTES:**
1. STOP VALVE & SCOUR VALVE CHAMBERS MAY EITHER BE CONSTRUCTED USING PREFABRICATED POLYPROPYLENE UNITS, 375mm DIAM. PVC OR CONCRETE PIPE, INTERLOCKING CONCRETE BLOCKS OR BRICKS WITH SAND/CEMENT MORTAR JOINTS.
 2. THE BOTTOM OF THE BRICK, INTERLOCKING CONCRETE BLOCK OR PIPE CHAMBERS SHALL NOT REST DIRECTLY ON THE PIPE BUT ON A COURSE OF BRICKS OR A 100mm THICK CONCRETE FOUNDATION.
 3. MINIMUM COVER OVER PIPELINES (ALL TYPES) SHALL BE 750mm IN AREAS SUBJECT TO VEHICULAR LOADING SUCH AS ROADS & FOOTPATHS AND 600mm ELSEWHERE.
 4. IN AREAS PAVED WITH BITUMEN SEALING, ASPHALT, CONCRETE OR PAVING BLOCKS THE SURFACE OF VALVE AND HYDRANT COVERS SHALL FINISH FLUSH WITH THE PAVED SURFACE.
 5. FOR STOP VALVES INSTALLATION, SOCKETS SHALL BE BUTTED UP TO SPIGOTS AND TRENCH WIDTHS SHALL BE KEPT TO A MINIMUM.
 6. FILL SAND SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 150mm AND COMPACTED TO ACHIEVE A MINIMUM 70 INDEX AND TO THE SATISFACTION OF THE SUPERINTENDENT.
 7. INDICATOR POSTS SHALL BE WHITE IN COLOUR AND ONE OF THE FOLLOWING TYPES :
 - 100mm x 100mm REINFORCED CONCRETE WITH 20mm CHAMFERS.
 - POWDER COATED METAL SUCH AS "EZIDRIVE" POST OR EQUIVALENT.
 - RECYCLED PLASTIC POST WITH RECESSES FOR MARKER PLATES.
 - OTHER POSTS APPROVED BY COUNCIL.
 8. DIMENSIONS OF SURFACE BOX COVERS SHOWN ON THIS DRAWING ARE NOMINAL. IF SURFACE BOX COVERS OTHER THAN THOSE SHOWN ARE SUPPLIED, THE DIMENSIONS OF THE CONCRETE SURROUNDS SHALL BE ADJUSTED ACCORDINGLY.
 9. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 20 MPa AND COMPLY WITH THE AUS-SPEC SPECIFICATION FOR MINOR CONCRETE WORKS.
 10. THE DIMENSION BETWEEN THE UNDERSIDE OF THE STOP VALVE SURFACE BOX LID AND THE TOP OF THE VALVE SPINDLE SHALL BE A MINIMUM OF 80mm. THE TOP OF VALVE SPINDLE SHALL BE NO MORE THAN 300mm BELOW TOP SURFACE OF SURFACE BOX LID. IF THIS CANNOT BE ATTAINED, A GALVANIZED OR EPOXY PAINTED VALVE KEY EXTENSION SECURED BY GRUB SCREWS SHALL BE FITTED. IF NECESSARY, TO ENSURE THAT THE KEY EXTENSION IS CENTERED CORRECTLY A SPIDER ASSEMBLY SHALL BE INCORPORATED IN THE EXTENSION.

LEGEND

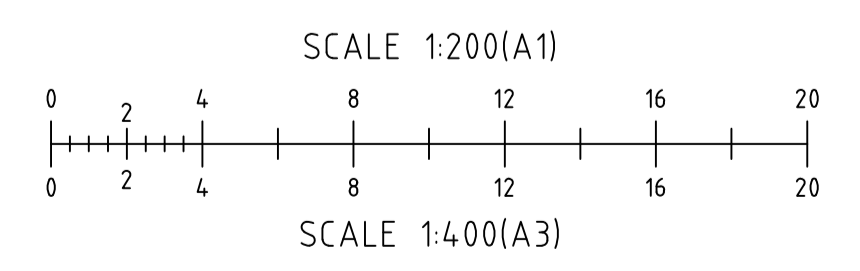
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LEGEND (proposed)

	EXTENT OF PROPOSED CONCRETE PAVEMENT
	EXTENT OF PROPOSED ROOF
	PROPOSED EASEMENT
	PROPOSED STORMWATER DRAINAGE PIPE
	PROPOSED RAINWATER TANK
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PROPOSED HYDRANT PLAN
REDUCTION RATIO 1:200 @ A1
1:400 @ A3



SUBMISSION FOR DA



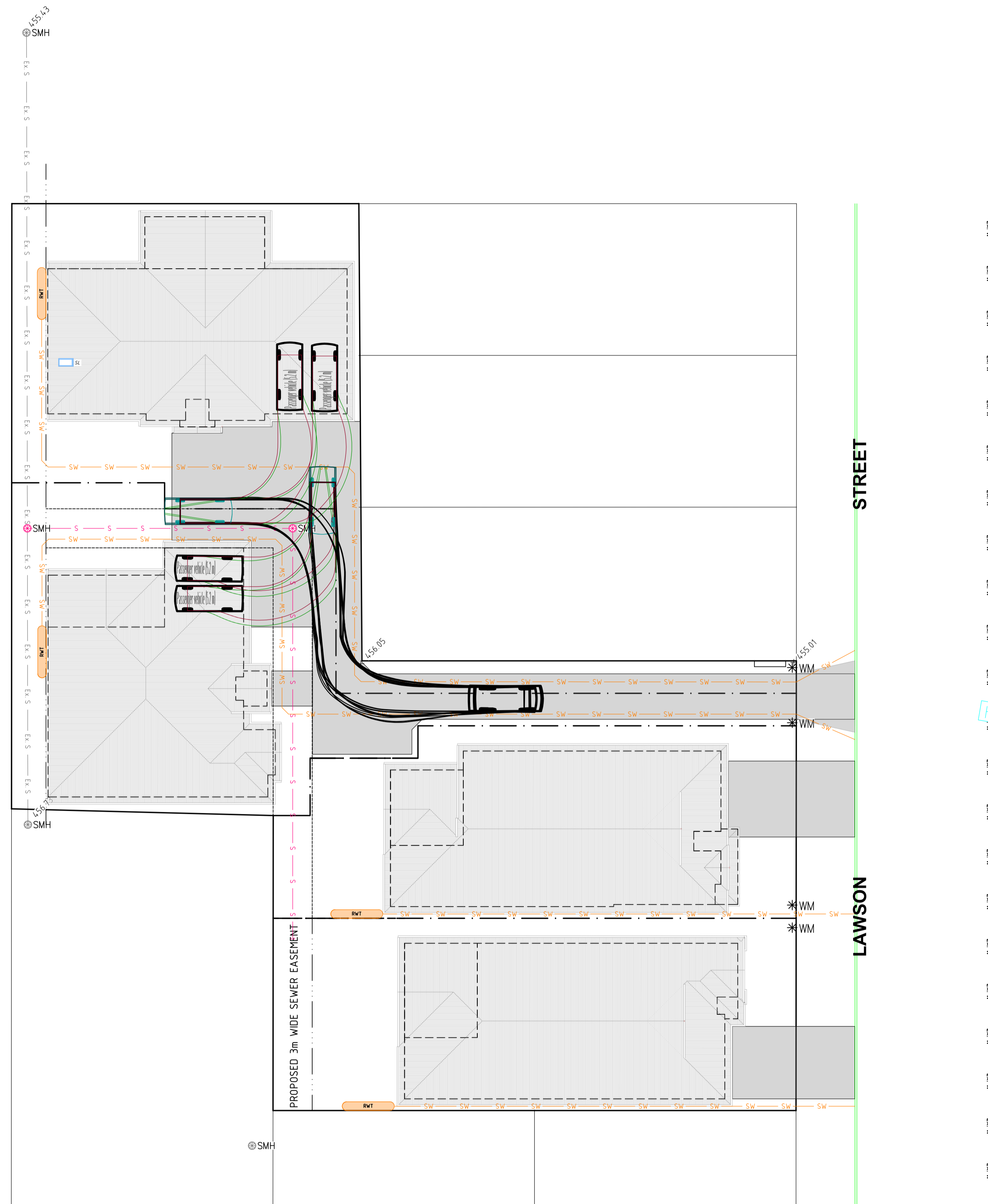
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 Drawing Title: PROPOSED HYDRANT PLAN

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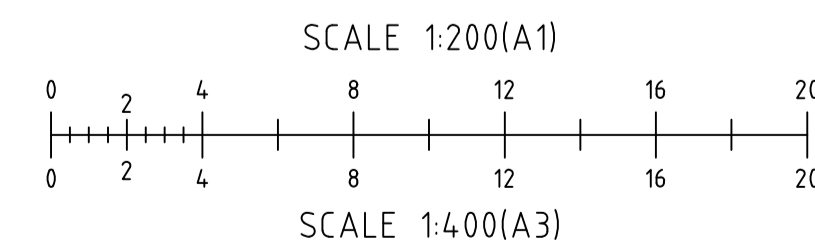
Design	LM	Certification	
Drawn	MK		
Check	LM	Drawing Number	
Original Sheet Size = A1		37340 - C05	Revision A



LEGEND	
—	EXISTING SUBJECT CADASTRAL BOUNDARIES
— Ex S — Ex S —	EXISTING UNDERGROUND SEWER PIPE
⊗ SMH	EXISTING SEWER MANHOLE
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- NOTES:
- THE BOUNDARY INFORMATION SHOWN ON THIS PLAN BEEN PLOTTED AS REQUIRED UNDER DIVISION 1, SECTION 9.1(1) OF THE "SURVEYING AND SPATIAL INFORMATION REGULATION 2017". IT HAS NOT BEEN DETERMINED BY AN ACCURATE BOUNDARY SURVEY.
 - A DETAIL & LEVEL SURVEY IS NOT A "LAND SURVEY" AS DEFINED BY THE SURVEYING AND SPATIAL INFORMATION ACT 2002. IF ANY CONSTRUCTION OR DESIGN WORK WHICH RELIES ON CRITICAL SETBACKS FROM THE STREET OR BOUNDARIES IS PLANNED, IT WOULD BE IMPERATIVE TO CARRY OUT FURTHER SURVEY WORK TO DETERMINE THE BOUNDARY DIMENSIONS.
 - THE LOCATIONS AND DEPTHS OF UNDERGROUND SERVICES ARE NOT ASSURED BY BARNSON. SERVICE AUTHORITIES SHOULD BE CONSULTED BEFORE ANY EXCAVATION, DEMOLITION OR CONSTRUCTION COMMENCES.
 - THERE MAY BE UNDERGROUND SERVICES THAT HAVE NOT BEEN SHOWN HEREON.
 - BARNSON TAKES NO RESPONSIBILITY FOR LOSSES, DAMAGES OR INJURIES TO ANY PERSON OR ORGANISATION THAT MAY OCCUR DUE TO THE RELIANCE ON THIS PLAN FOR THE LOCATION OF UNDERGROUND SERVICES.

PROPOSED VEHICLE TURNING PLAN
 REDUCTION RATIO 1:200 @ A1
 1:400 @ A3



SUBMISSION FOR DA



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Client: HAYES CONSTRUCTION
 Project: MULTI-UNIT DEVELOPMENT AT 22 LAWSON STREET MUDGEE NSW 2850
 Drawing Title: PROPOSED VEHICLE TURNING PLAN

Rev	Date	Amendment
A	19-08-2021	ISSUED FOR DA

Design	LM	Certification	
Drawn	MK		
Check	LM	Drawing Number	Revision
Original Sheet Size = A1	37340 - C06		A