

Canning Highway DN600 CI Replacement Trenchless Crossing of Canning Hwy at Sewell Street

1. Project Scope of Work

The scope of the Canning Highway DN600 CI Replacement project includes replacement of 1610m of existing 610CI water main along Canning Highway with approximately 3km of new water infrastructure along Sewell St, St Peters Rd, Silas St, George St, Moss St, Fletcher St and Fraser St. The new water infrastructure is required to cross Canning Hwy in two locations, at Sewell St and Petra St. Prior to commencement of the project it was determined by Water Corporation that the preferred method for pipe installation underneath Canning Hwy was micro-tunnelling.

2. Closure Requirement / Reason

To facilitate the micro-tunnel (trenchless) installation of pipework underneath Canning Hwy at Sewell St a boring and receival pit will need to be excavated on either side of Canning Hwy. These pits will be located as shown in Appendix 3 Trenchless Pits Sketch and will need to be in place for approximately 6 weeks while the works are completed.

3. Closure Duration and Dates

Expected duration – 6 weeks

Start Date – May 2022

End Date – July 2022

4. Works Forecast

Week 1 – Pit Excavation & Set Up

Week 2 to 4 – Micro-tunnelling & Casing Installation

Week 5 – Extend Sewell St Pit and Install MSCL Pipe

Week 6 – Open Cut Installation on Sewell St & Join Up to Trenchless Works

5. Appendices

1. Overview Plan (NJ23-1-1) with closure location marked
2. Design Plan (NJ23-3-3)
3. Trenchless Pits Sketch (tunnelling & casing installation only)
4. Traffic Guidance Schemes 068 to 070 – working hours 7am to 6pm
5. Traffic Guidance Schemes 068A to 070A – after care 6pm to 7am

Sewell Street Road Closure Proposal

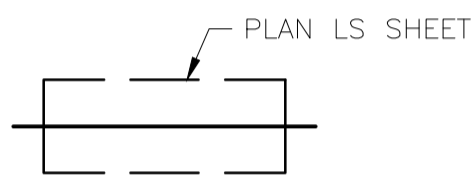


APPENDIX 1 – OVERVIEW PLAN NJ23-1-1

DRAWING LIST

- NJ23-1-1 LOCALITY PLAN & DRAWING LIST
- NJ23-1-2 GENERAL NOTES
- NJ23-2-1 DN600 MAIN - PLAN & LONGITUDINAL SECTION - SHEET 1 OF 4
- NJ23-2-2 DN600 MAIN - PLAN & LONGITUDINAL SECTION - SHEET 2 OF 4
- NJ23-2-3 DN600 MAIN - PLAN & LONGITUDINAL SECTION - SHEET 3 OF 4
- NJ23-2-4 DN600 MAIN - PLAN & LONGITUDINAL SECTION - SHEET 4 OF 4
- NJ23-2-5 DN375 MAIN - PLAN & LONGITUDINAL SECTION - SHEET 1 OF 2
- NJ23-2-6 DN375 MAIN - PLAN & LONGITUDINAL SECTION - SHEET 2 OF 2
- NJ23-3-1 CONNECTION DETAILS
- NJ23-3-2 MAG FLOW METER DETAILS
- NJ23-3-3 DN600 MAIN - CANNING HWY CROSSING & CONNECTION DETAIL - CH. 2227.0
- NJ23-3-4 DN375 MAIN - CANNING HWY CROSSING
- NJ23-3-5 DN375 MAIN - END CONNECTION DETAIL
- NJ23-3-6 CANNING HWY / ALEXANDRA RD HDD CROSSING
- NJ23-3-7 CANNING HWY FLUSHING POINTS
- NJ23-3-8 CANNING HWY DN600 DECOMMISSIONING - VALVE REMOVAL AND ISOLATION
- NJ23-3-9 FLETCHER ST CROSS CONNECTION
- NJ23-3-10 SEWELL ST RETICULATION REPLACEMENT
- NJ23-4-1 DN600 MAIN - AIR VALVE DETAILS - TYPE 1
- NJ23-4-2 DN600 MAIN - AIR VALVE DETAILS - TYPE 2
- NJ23-4-3 DN375 MAIN - AIR VALVE DETAILS
- NJ23-4-4 DN600 MAIN - SCOUR VALVE DETAILS - TYPE 1
- NJ23-4-5 DN600 MAIN - SCOUR VALVE DETAILS - TYPE 2
- NJ23-4-6 DN375 MAIN - SCOUR VALVE DETAILS
- NJ23-8-1 MSCL PIPE FITTINGS - SHEET 1 OF 2
- NJ23-8-2 MSCL PIPE FITTINGS - SHEET 2 OF 2
- NJ23-53-1 AIR VALVE WITH OFFSET - EARTHING GA
- NJ23-53-2 DN100 SCOUR VALVE WITH OFFSET GATE VALVE - EARTHING GA
- NJ23-53-3 WATER MAIN - EARTHING SYSTEM CONNECTION DIAGRAM
- NJ23-53-4 WATER MAIN - EARTHING SYSTEM DETAILS
- MY93-42-2 FLOW METER INSTALLATION AND TELEMETRY PIT GENERAL ARRANGEMENT
- MY93-59-1 FLOW TRANSMITTER (FIT001) - LOOP DIAGRAM

- LEGEND
- NEW WATER MAIN
 - EXISTING WATER MAIN
 - POSTAL DISTRICT BOUDARY



Proposed Road Closure Location
May to July 2022

SWAN RIVER

TOWN OF EAST FREMANTLE
East Fremantle

CITY OF MELVILLE
Bicton

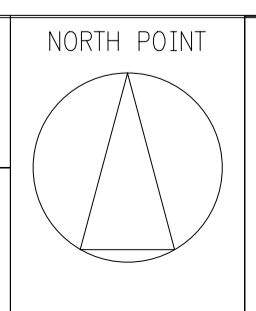
CITY OF MELVILLE
Palmyra

LOCALITY PLAN
SCALE 1:2500

50 0 50 100 150 m (1:2500)

| ISSUE | DATE | GRID | REVISION | DRN | REC | APPD |
|-------|---------|------|------------------------------------|-----|-----|------|
| C | 07/2021 | | DRAWING LIST AMENDED FOR VM DESIGN | CM | JN | MS |
| B | 05/2021 | | DN600 ALIGNMENT UPDATED | CM | JN | PP |

| DESIGN SURVEY | VERTICAL DATUM | DES CALC | NORTH POINT |
|---------------|----------------------------|--|-------------|
| NONE | NONE | C.BAGSHAW | |
| ASCOSURVEY | COORDINATE SYS MGA94-50 | DES CHD J.NIELSON | |
| NONE | DES REF GHD 12522985 | DRN C.MILENTIS Q.C. CHD C.BAGSHAW | |



Level 10, 999 Hay Street Perth WA 6000 Australia
T 61 8 6222 6222 F 61 8 6222 8555
E permail@ghd.com.au W www.ghd.com.au

| RECOMMENDED | DATE |
|-----------------------------|------------|
| J. NIELSON (SIGNED) | 24/02/2021 |
| CONSULTANT PROJECT MANAGER | |
| APPROVED | 24/02/2021 |
| P. PHILLIPS (SIGNED) | |
| CONSULTANT PROJECT DIRECTOR | |



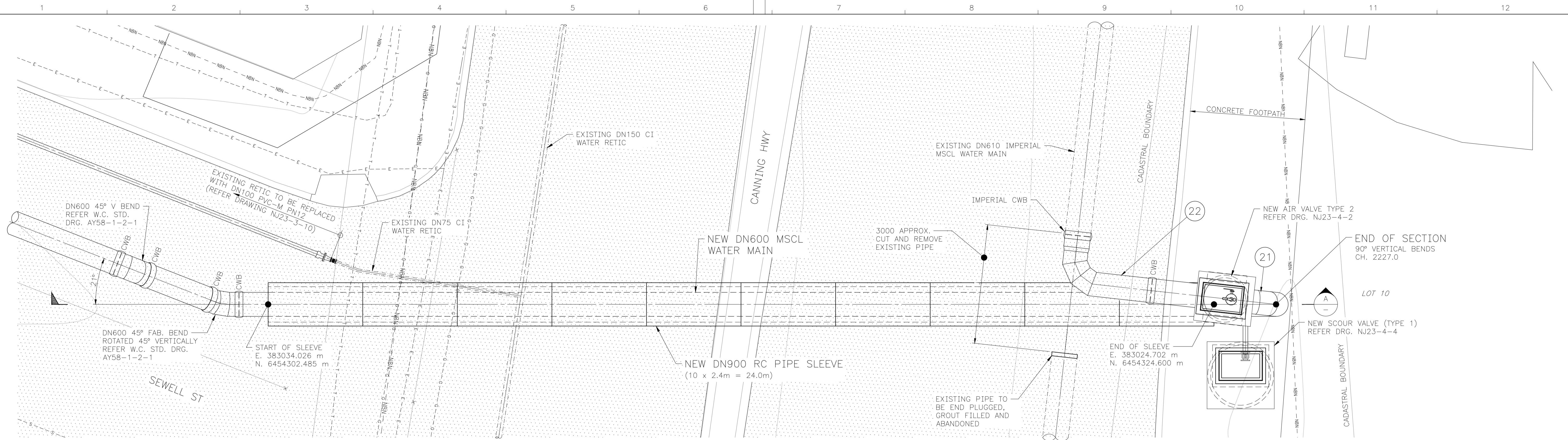
| METROPOLITAN WATER SUPPLY DN600 & DN375 RICHMOND HL TANK TO SEWELL ST -EAST FREMANTLE LOCALITY PLAN & DRAWING LIST | | FILE | PLAN | CAD | ISSUE |
|--|--|------------------|----------|-----|-------|
| | | PROJECT C-W03261 | NJ23-1-1 | C | C |

ORIGINAL SHEET SIZE
A1

Sewell Street Road Closure Proposal

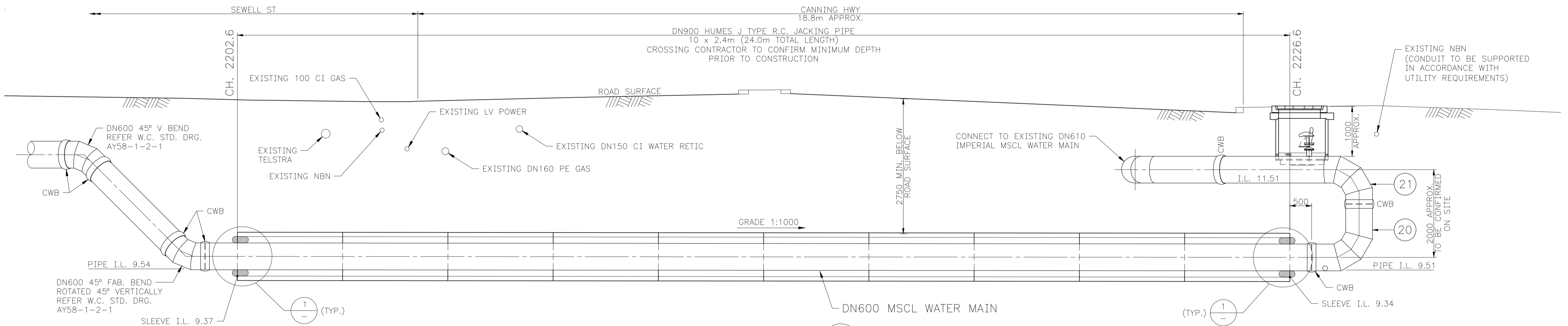


APPENDIX 2 – DESIGN PLAN NJ23-3-3



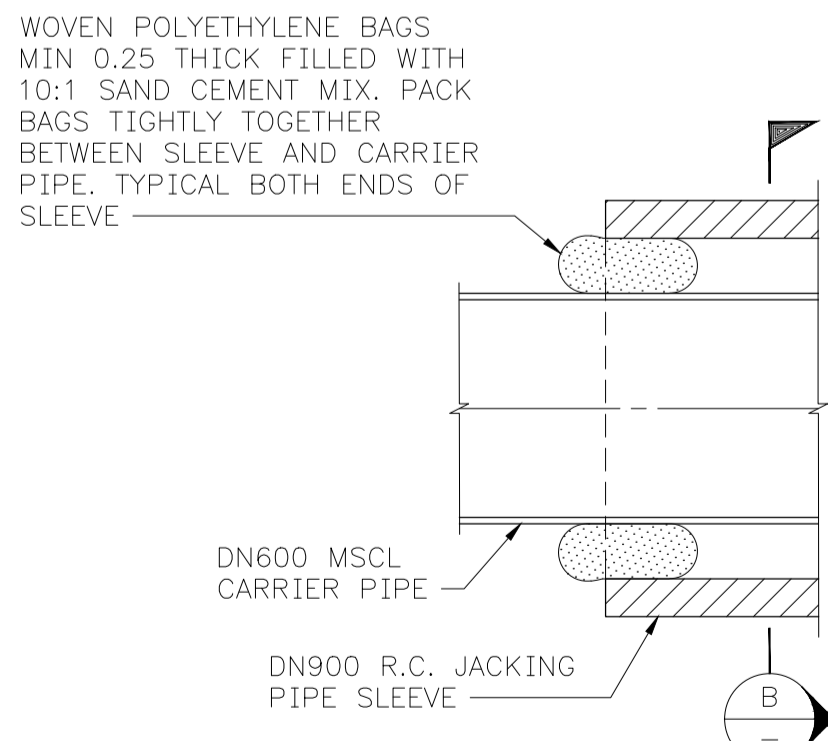
PLAN - DN600 CANNING HWY CROSSING/CONNECTION TO EXISTING MAIN

SCALE 1:50



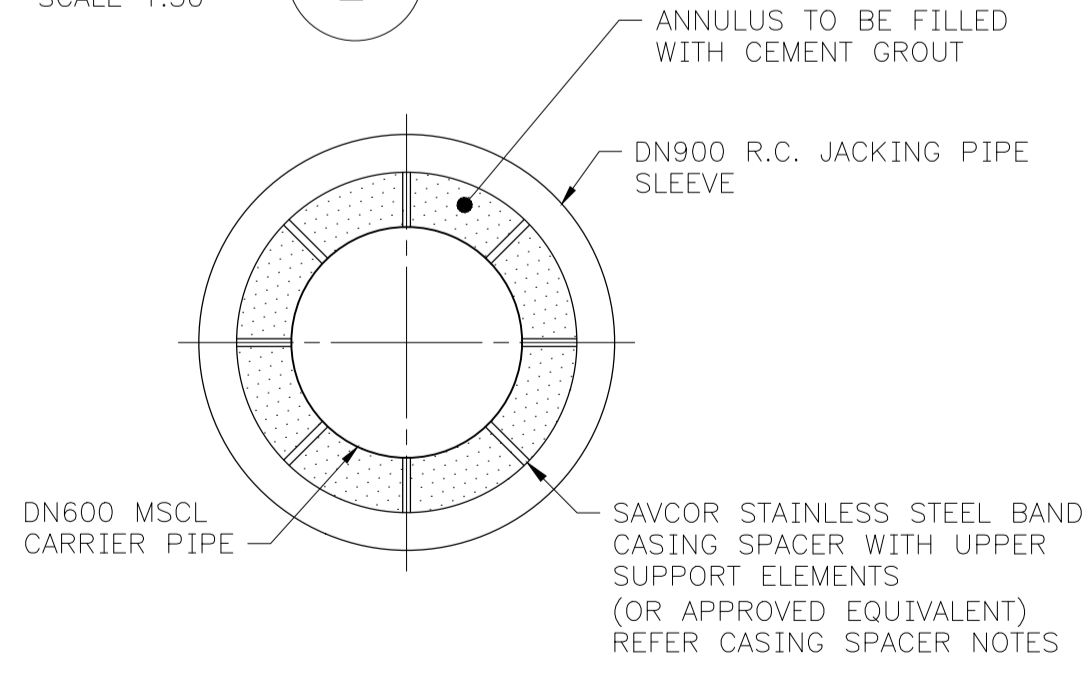
SECTION A

SCALE 1:50



DETAIL 1

SCALE 1:20



SECTION B

SCALE 1:20

PIPE SLEEVE DETAILS

DIAGRAMMATIC

PIPE SLEEVE SPACER NOTES:

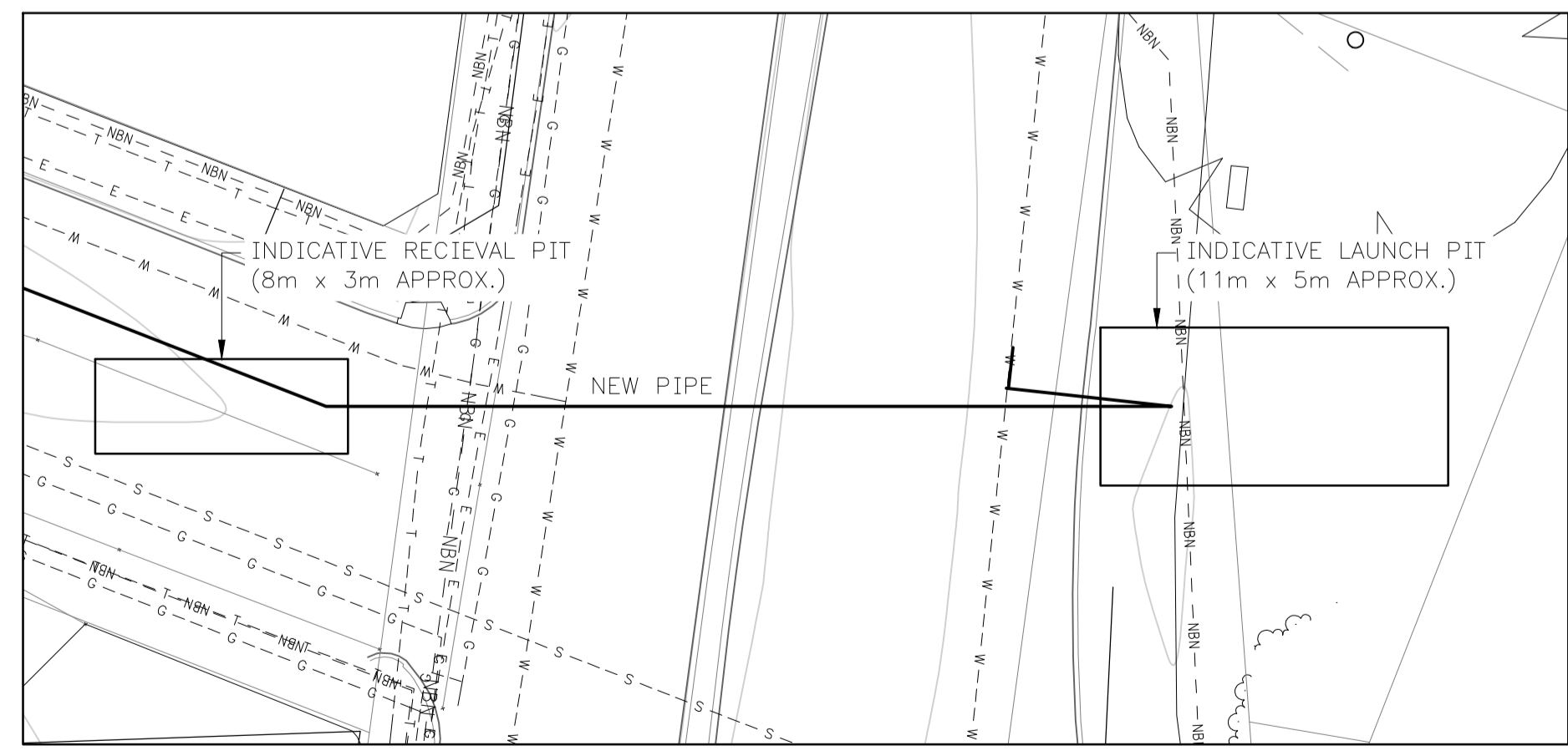
- CASING SPACER DESIGN SHALL MEET THE FOLLOWING CRITERIA:
- MINIMUM BEARING WIDTH 90° AROUND BASE OF PIPE.
 - PIPE SPACERS TO BE SPACED ALONG PIPE AT MAXIMUM 1800mm CENTRES.
 - SPACER STRUCTURAL CAPACITY TO BE CAPABLE OF SUPPORTING PIPE EMPTY, FOR BOUANCY.
 - SPACER STRUCTURAL CAPACITY TO BE CAPABLE OF SUPPORTING FILLED PIPE WITH ONE SPACER FAILED.
 - METALLIC COMPONENTS OF SPACER TO BE STAINLESS STEEL.
 - SUFFICIENT CLEARANCE SHALL BE PROVIDED BETWEEN UPPER SUPPORT ELEMENTS OF SPACER AND SLEEVE TO FACILITATE INSTALLATION AND FUTURE WITHDRAWAL OF THE CARRIER PIPE.

LEGEND

- NEW PIPELINE
- EXISTING PIPE
- EXISTING POWER
- EXISTING GAS
- EXISTING NBN
- EXISTING TELSTRA
- EXISTING GRAVITY SEWER
- EXISTING CONTOURS

GENERAL NOTES

- FOR GENERAL PIPEWORK NOTES REFER DRG. NJ23-1-2.
- FOR MSCL SPECIAL FITTINGS REFER DRG. NJ23-8-2.
- CONTRACTOR SHALL NOT ENCRoACH DEVELOPMENT CONTROL AREA - REFER DRAWING NJ23-3-10.



PLAN - INDICATIVE PIT LOCATIONS

SCALE 1:200

| | | | | | | | | | | | | | | | | | |
|-------|------|------|----------|-----|-----|------|--|---|--|-------------|--|--|---|--------------------------|------------------|----------|-------------|
| ISSUE | DATE | GRID | REVISION | DRN | REC | APPD | DESIGN SURVEY DSS 12522985 V001 | VERTICAL DATUM AHD COORDINATE SYS MGA94-50 | DES CALC C.MILENTIS DES CHD J.NIELSON | NORTH POINT | RECOMMENDED 24/02/2021 J. NIELSON (SIGNED) CONSULTANT PROJECT MANAGER | | METROPOLITAN WATER SUPPLY DN600 & DN375 RICHMOND HL TANK TO SEWELL ST -EAST FREMANTLE DN600 MAIN CANNING HWY CROSSING AND CONNECTION DETAIL - CH. 2227.0 | ORIGINAL SHEET SIZE | | | |
| | | | | | | | ASCON SURVEY NONE | DES REF GHD 12522985 | DRN C.MILENTIS Q.C. CHD C.BAGSHAW | | APPROVED 24/02/2021 P. PHILLIPS (SIGNED) CONSULTANT PROJECT DIRECTOR | | | FILE PROJECT C-W03261 | PLAN NJ23-3-3 | CAD A | ISSUE MF |

APPENDIX 3 – TRENCHLESS PITS SKETCH



| LEGEND | |
|--------|----------------------------|
| | Edge of Canning Hwy |
| | Existing 75CI Water Main |
| | Existing 610CI Water Main |
| | NBN Line |
| | Kerb Line - Canning Hwy |
| | Edge of Lane - Canning Hwy |
| | DBCA Boundary |

APPENDIX 4 – TRAFFIC GUIDANCE SCHEMES (068 to 070)

12.3 SEWELL STREET AT CANNING HIGHWAY - ROAD CROSSING

NOTES

- DELINEATION SPACING:
 - WITHIN 40kph RESTRICTION MAXIMUM 4m.
 - ALL OTHER AREAS MAXIMUM 12m.
- MINIMUM LANE WIDTH 3.2m.
- COVER EXISTING SPEED SIGNS WITHIN EXTENTS OF TEMPORARY SPEED RESTRICTION.
- BARRIER BOARDS & SIGNAGE AT CLOSURE POINTS SHALL BE ADJUSTED TO ENABLE CONSTRUCTION VEHICLES TO EXIT CLOSURE INTO OUTGOING LANE(S).
- WHERE SIGNS ARE PLACED ON OR ADJACENT FOOTPATHS TRAFFIC CONES SHALL BE PLACED AT THE BASE OF SIGN MOUNTINGS.



TRAFFIC CONES

- TRAFFIC CONTROLLERS SHALL BE RELIEVED FROM THEIR DUTY AFTER NOT MORE THAN 2 HOURS FOR A PERIOD OF REST OR OTHER DUTIES OF AT LEAST 15 MINUTES. RELIEF MUST BE PROVIDED BY A QUALIFIED PERSON.
- MRWA RNOC ARE TO BE NOTIFIED BEFORE SETUP AND IMMEDIATELY AFTER PULL DOWN. PHONE: 138 111
- FOR AFTER CARE SCHEME APPLY TREATMENT AS PER TGS 068A, 069A & 070A.

HOURS OF IMPLEMENTATION
MON TO SAT: 0700 TO 1800

LEGEND

| | |
|--|--|
| | CONSTRUCTION AREA |
| | WATER MAIN ALIGNMENT |
| | TEMPORARY DELINEATION ALIGNMENT |
| | CONTAINMENT FENCING |
| | RETRACTABLE CONE EXTENSION BARS |
| | PROJECT VEHICLE ACCESS/EGRESS |
| | BOUNDARY OF 2.5m OFFSET FROM EDGE OF BORING PITS |



MATCH LINE A - TGS 069

MATCH LINE D - TGS 070

GTM
 21 CARTWRIGHT DRIVE, FORRESTDALE
 WESTERN AUSTRALIA 6112
 ABN 27 631 848 578
 PH: (08) 6244 1650 WEB: www.gtm.net.au
 POSTAL ADDRESS: PO BOX 97 MADDINGTON 6109



| NAME | ACCREDITATION | DATE | SIGNATURES |
|------------------------|-----------------------|------------|------------|
| DESIGNED Alex Stockey | KTS AWTM 19 43772 05 | 29/11/2021 | |
| REVIEWED Simon Goodwin | STAP AWTM 19 01851 04 | 08/12/2021 | |

| | |
|----------------|-------------------------------|
| SCALE | NOT TO SCALE |
| LOCATION | Sewell Street, East Fremantle |
| ROAD AUTHORITY | Town of East Fremantle |

| | |
|--------|-------------------|
| TGS # | 2110-TGS30370-068 |
| REV. # | 00 |

| | |
|---------------------------------------|-------------------------|
| TRAFFIC MANAGEMENT PLAN PREPARED FOR: | |
| DESC. | Water Main Construction |
| CLIENT | DM Civil |
| AGENT | Tessa McGrath |
| CONTACT # | 0438 364 426 |

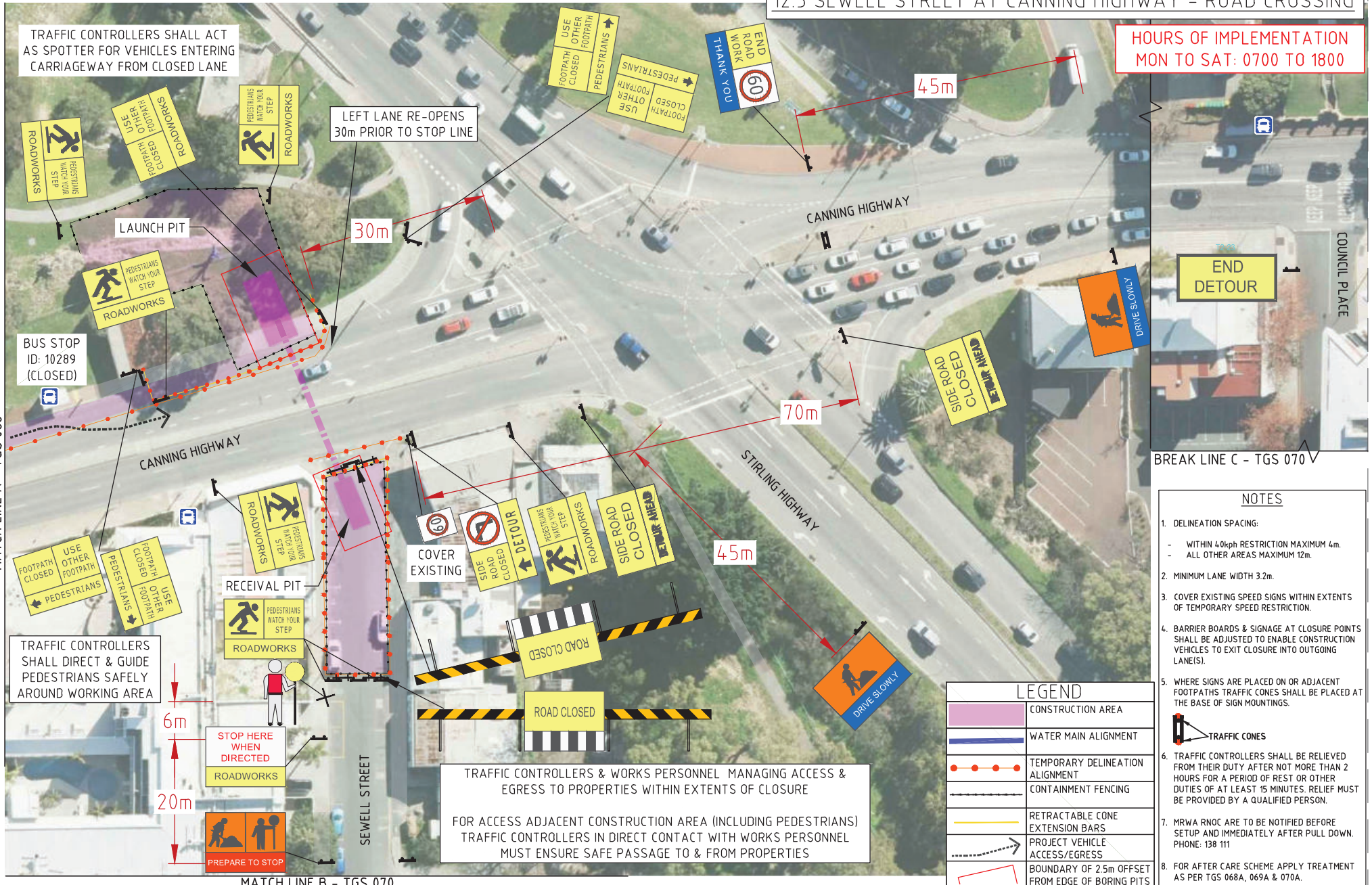
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12.3 SEWELL STREET AT CANNING HIGHWAY - ROAD CROSSING

HOURS OF IMPLEMENTATION
MON TO SAT: 0700 TO 1800

MATCH LINE A - TGS 068

MATCH LINE B - TGS 070



BREAK LINE C - TGS 070

- NOTES**
- DELINEATION SPACING:
 - WITHIN 40kph RESTRICTION MAXIMUM 4m.
 - ALL OTHER AREAS MAXIMUM 12m.
 - MINIMUM LANE WIDTH 3.2m.
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 - FOR AFTER CARE SCHEME APPLY TREATMENT AS PER TGS 068A, 069A & 070A.

| LEGEND | |
|--------|--|
| | CONSTRUCTION AREA |
| | WATER MAIN ALIGNMENT |
| | TEMPORARY DELINEATION ALIGNMENT |
| | CONTAINMENT FENCING |
| | RETRACTABLE CONE EXTENSION BARS |
| | PROJECT VEHICLE ACCESS/EGRESS |
| | BOUNDARY OF 2.5m OFFSET FROM EDGE OF BORING PITS |

TRAFFIC CONTROLLERS & WORKS PERSONNEL MANAGING ACCESS & EGRESS TO PROPERTIES WITHIN EXTENTS OF CLOSURE

FOR ACCESS ADJACENT CONSTRUCTION AREA (INCLUDING PEDESTRIANS) TRAFFIC CONTROLLERS IN DIRECT CONTACT WITH WORKS PERSONNEL MUST ENSURE SAFE PASSAGE TO & FROM PROPERTIES

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| DESIGNED Alex Stockey | KTS AWTM 19 43772 05 | 29/11/2021 | |
| REVIEWED Simon Goodwin | STAP AWTM 19 01851 04 | 08/12/2021 | |

| | |
|----------------|-------------------------------|
| SCALE | NOT TO SCALE |
| LOCATION | Sewell Street, East Fremantle |
| ROAD AUTHORITY | Town of East Fremantle |

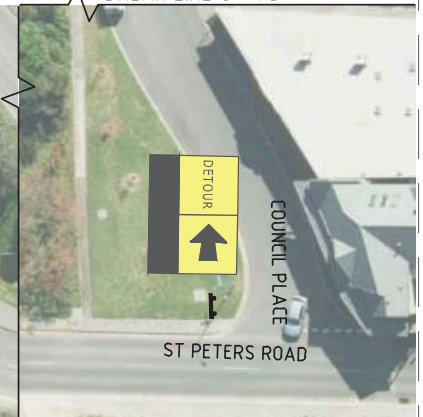
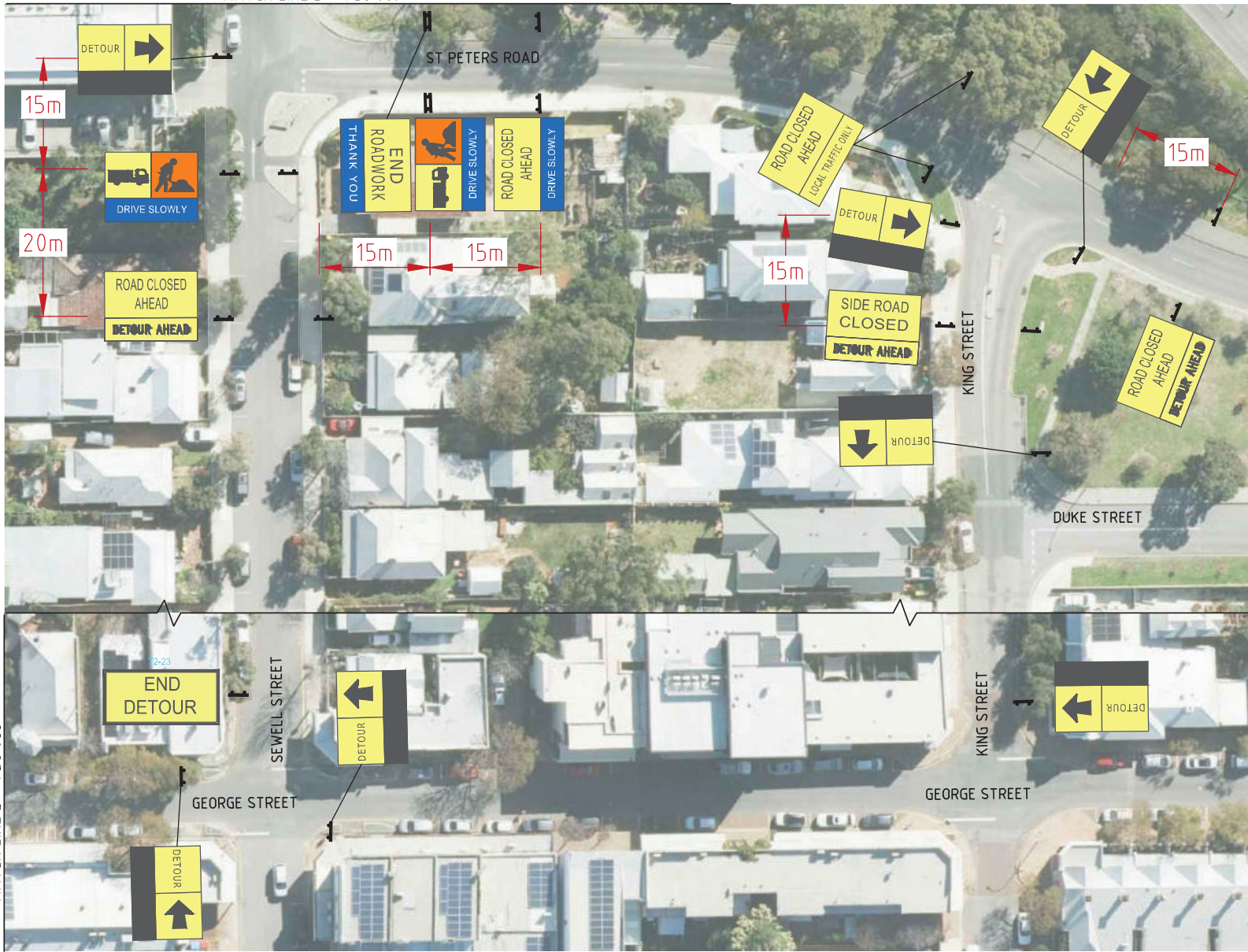
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| TGS # | 2110-TGS30370-069 |
| REV. # | 00 |

| | |
|---------------------------------------|-------------------------|
| TRAFFIC MANAGEMENT PLAN PREPARED FOR: | |
| DESC | Water Main Construction |
| CLIENT | DM Civil |
| AGENT | Tessa McGrath |
| CONTACT # | 0438 364 426 |

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MATCH LINE B - TGS 069

BREAK LINE C - TGS 068



| LEGEND | |
|--------|--|
| | CONSTRUCTION AREA |
| | WATER MAIN ALIGNMENT |
| | TEMPORARY DELINEATION ALIGNMENT |
| | CONTAINMENT FENCING |
| | RETRACTABLE CONE EXTENSION BARS |
| | PROJECT VEHICLE ACCESS/EGRESS |
| | BOUNDARY OF 2.5m OFFSET FROM EDGE OF BORING PITS |

- NOTES**
- DELINEATION SPACING:
 - WITHIN 40kph RESTRICTION MAXIMUM 4m.
 - ALL OTHER AREAS MAXIMUM 12m.
 - MINIMUM LANE WIDTH 3.2m.
 - COVER EXISTING SPEED SIGNS WITHIN EXTENTS OF TEMPORARY SPEED RESTRICTION.
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 - TRAFFIC CONES
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 - MRWA RNOC ARE TO BE NOTIFIED BEFORE SETUP AND IMMEDIATELY AFTER PULL DOWN. PHONE: 138 111
 - FOR AFTER CARE SCHEME APPLY TREATMENT AS PER TGS 068A, 069A & 070A.

MATCH LINE D - TGS 068

12.3 SEWELL STREET AT CANNING HIGHWAY - ROAD CROSSING

HOURS OF IMPLEMENTATION
MON TO SAT: 0700 TO 1800

21 CARTWRIGHT DRIVE, FORRESTDALE
WESTERN AUSTRALIA 6112
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POSTAL ADDRESS: PO BOX 97 MADDINGTON 6109



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|------------------------|-----------------------|------------|------------|
| DESIGNED Alex Stockey | KTS AWTM 19 43772 05 | 29/11/2021 | |
| REVIEWED Simon Goodwin | STAP AWTM 19 01851 04 | 08/12/2021 | |

| SCALE | TGS # | REV. # |
|----------------|-------------------------------|--------|
| NOT TO SCALE | 2110-TGS30370-070 | 00 |
| LOCATION | Sewell Street, East Fremantle | |
| ROAD AUTHORITY | Town of East Fremantle | |

| TRAFFIC MANAGEMENT PLAN PREPARED FOR: |
|---------------------------------------|
| DESC. Water Main Construction |
| CLIENT DM Civil |
| AGENT Tessa McGrath |
| CONTACT # 0438 364 426 |

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Sewell Street Road Closure Proposal



APPENDIX 5 – TRAFFIC GUIDANCE SCHEMES (068A to 070A)

12.3A SEWELL STREET AT CANNING HIGHWAY - ROAD CROSSING - AFTER CARE

NOTES

- DELINEATION SPACING:
 - WITHIN 40kph RESTRICTION MAXIMUM 4m.
 - ALL OTHER AREAS MAXIMUM 12m.
- MINIMUM LANE WIDTH 3.2m.
- COVER EXISTING SPEED SIGNS WITHIN EXTENTS OF TEMPORARY SPEED RESTRICTION.
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- FOR WORKING HOURS SCHEME APPLY TREATMENT AS PER TGS 068, 069 & 070.

HOURS OF IMPLEMENTATION
MON TO SAT: 0700 TO 1800

LEGEND

| | |
|--|--|
| | CONSTRUCTION AREA |
| | WATER MAIN ALIGNMENT |
| | TEMPORARY DELINEATION ALIGNMENT |
| | CONTAINMENT FENCING |
| | RETRACTABLE CONE EXTENSION BARS |
| | PROJECT VEHICLE ACCESS/EGRESS |
| | BOUNDARY OF 2.5m OFFSET FROM EDGE OF BORING PITS |



MATCH LINE A - TGS 069A

MATCH LINE D - TGS 070A

QTM
 21 CARTWRIGHT DRIVE, FORRESTDALE
 WESTERN AUSTRALIA 6112
 ABN 27 631 848 578
 PH: (08) 6244 1650 WEB: www.qtm.net.au
 POSTAL ADDRESS: PO BOX 97 MADDINGTON 6109



| NAME | ACCREDITATION | DATE | SIGNATURES |
|------------------------|-----------------------|------------|------------|
| DESIGNED Alex Stockey | KTS AWTM 19 43772 05 | 29/11/2021 | |
| REVIEWED Simon Goodwin | STAP AWTM 19 01851 04 | 08/12/2021 | |

| | |
|----------------|-------------------------------|
| SCALE | NOT TO SCALE |
| LOCATION | Sewell Street, East Fremantle |
| ROAD AUTHORITY | Town of East Fremantle |

| | |
|--------|--------------------|
| TGS # | 2110-TGS30370-068A |
| REV. # | 00 |

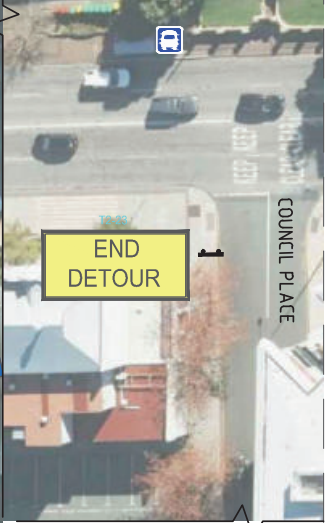
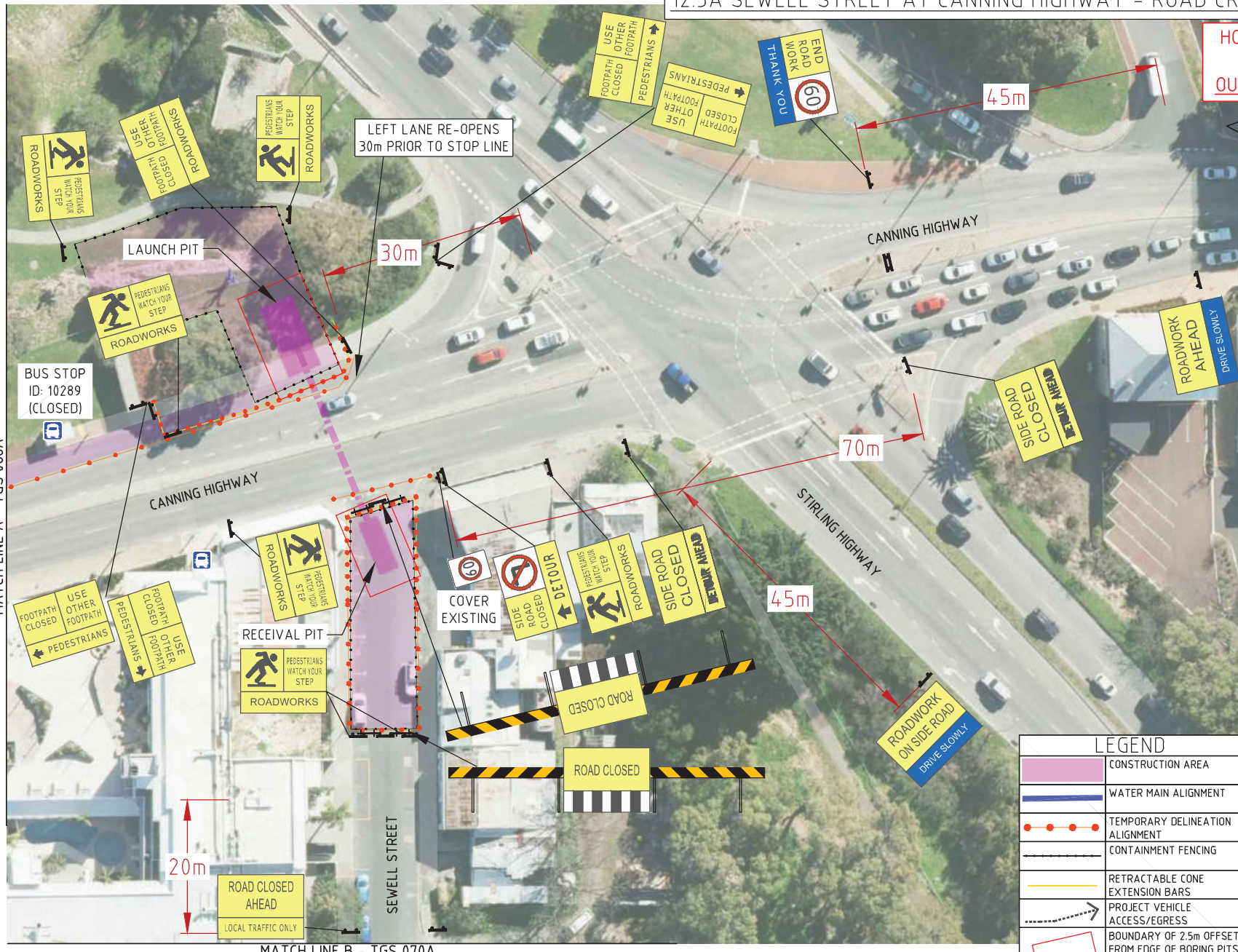
| | |
|---------------------------------------|-------------------------|
| TRAFFIC MANAGEMENT PLAN PREPARED FOR: | |
| DESC. | Water Main Construction |
| CLIENT | DM Civil |
| AGENT | Tessa McGrath |
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12.3A SEWELL STREET AT CANNING HIGHWAY - ROAD CROSSING - AFTER CARE

HOURS OF IMPLEMENTATION
24 HOURS PER DAY
OUTSIDE OF WORKING HOURS

MATCH LINE A - TGS 068A



BREAK LINE C - TGS 070A

NOTES

- DELINEATION SPACING:
 - WITHIN 40kph RESTRICTION MAXIMUM 4m.
 - ALL OTHER AREAS MAXIMUM 12m.
- MINIMUM LANE WIDTH 3.2m.
- COVER EXISTING SPEED SIGNS WITHIN EXTENTS OF TEMPORARY SPEED RESTRICTION.
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- TRAFFIC CONES
- TRAFFIC CONTROLLERS SHALL BE RELIEVED FROM THEIR DUTY AFTER NOT MORE THAN 2 HOURS FOR A PERIOD OF REST OR OTHER DUTIES OF AT LEAST 15 MINUTES. RELIEF MUST BE PROVIDED BY A QUALIFIED PERSON.
- MRWA RNOC ARE TO BE NOTIFIED BEFORE SETUP AND IMMEDIATELY AFTER PULL DOWN. PHONE: 138 111
- FOR WORKING HOURS SCHEME APPLY TREATMENT AS PER TGS 068, 069 & 070.

| LEGEND | |
|--------|--|
| | CONSTRUCTION AREA |
| | WATER MAIN ALIGNMENT |
| | TEMPORARY DELINEATION ALIGNMENT |
| | CONTAINMENT FENCING |
| | RETRACTABLE CONE EXTENSION BARS |
| | PROJECT VEHICLE ACCESS/EGRESS |
| | BOUNDARY OF 2.5m OFFSET FROM EDGE OF BORING PITS |

MATCH LINE B - TGS 070A

21 CARTWRIGHT DRIVE, FORRESTDAL
WESTERN AUSTRALIA 6112
ABN 27 631 848 578
PH: (08) 6244 1650 WEB: www.gtm.net.au
POSTAL ADDRESS: PO BOX 97 MADDINGTON 6109



| NAME | ACCREDITATION | DATE | SIGNATURES |
|------------------------|-----------------------|------------|------------|
| DESIGNED Alex Stockey | KTS AWTM 19 43772 05 | 29/11/2021 | |
| REVIEWED Simon Goodwin | STAP AWTM 19 01851 04 | 08/12/2021 | |

| SCALE | NOT TO SCALE |
|----------------|-------------------------------|
| LOCATION | Sewell Street, East Fremantle |
| ROAD AUTHORITY | Town of East Fremantle |

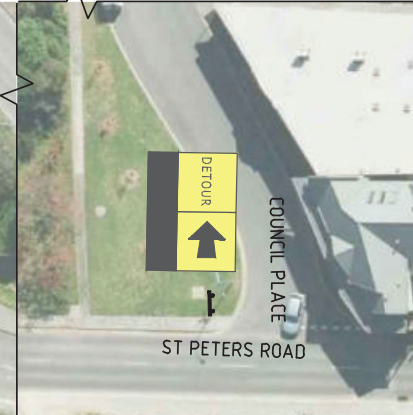
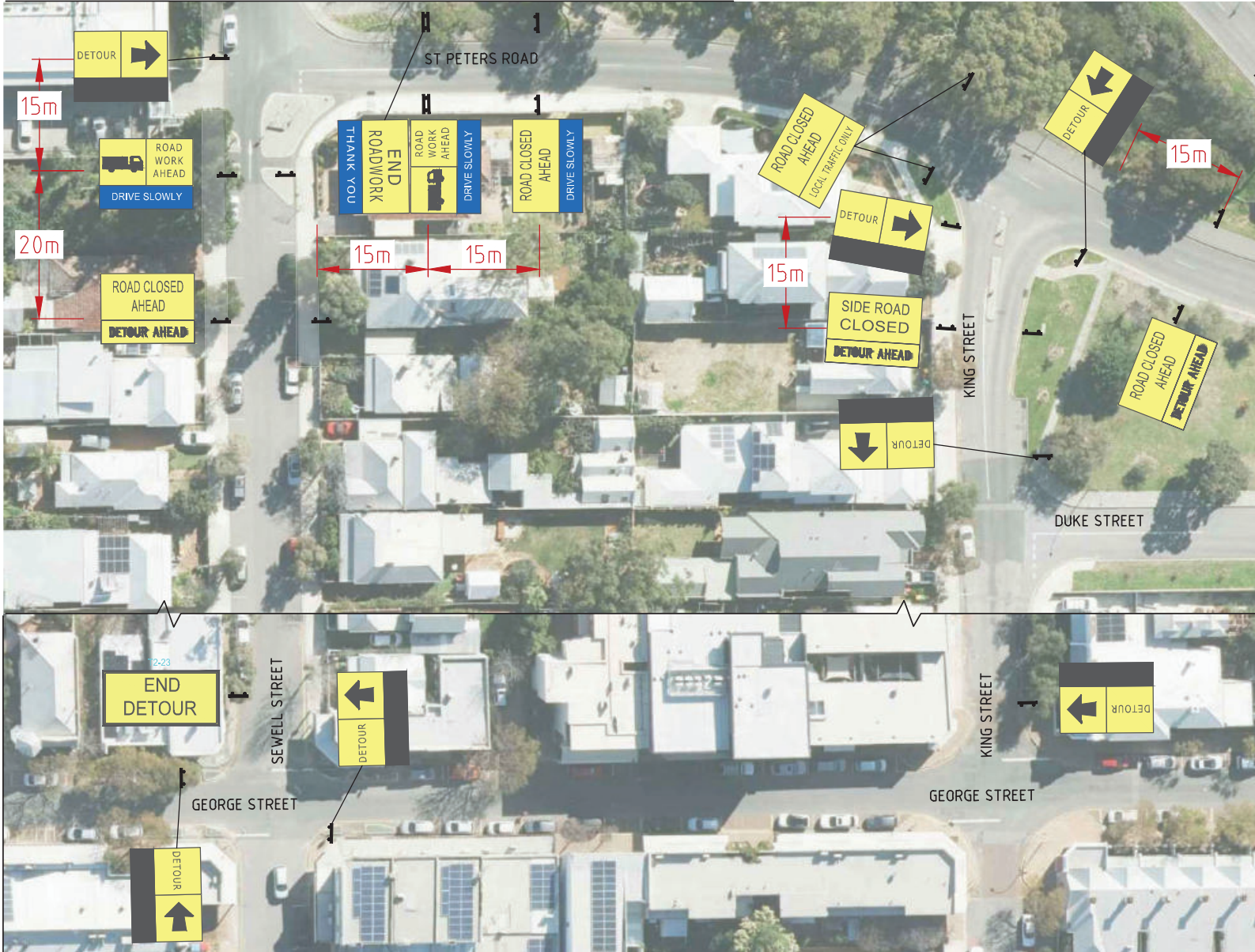
| | |
|--------|--------------------|
| TGS # | 2110-TGS30370-069A |
| REV. # | 00 |

| TRAFFIC MANAGEMENT PLAN PREPARED FOR: | |
|---------------------------------------|-------------------------|
| DESC. | Water Main Construction |
| CLIENT | DM Civil |
| AGENT | Tessa McGrath |
| CONTACT # | 0438 364 426 |

DISCLAIMER:
THIS TRAFFIC MANAGEMENT PLAN IS INTENDED FOR USE ONLY WITH WORKS CONDUCTED BY GTM PTY LTD AND/OR THE CONTRACTOR AT STAKE. GTM PTY LTD IS NOT RESPONSIBLE FOR MISUSE OR CHANGES WHICH ARE NOT AUTHORIZED BY A QUALIFIED ENGINEER OR CEM PTY LTD.
IN THE ABSENCE OF THE APPROVED SIGNATURE, THIS DRAWING SHALL BE TREATED AS PRELIMINARY.

MATCH LINE B - TGS 069A

BREAK LINE C - TGS 068A



| LEGEND | |
|--------|--|
| | CONSTRUCTION AREA |
| | WATER MAIN ALIGNMENT |
| | TEMPORARY DELINEATION ALIGNMENT |
| | CONTAINMENT FENCING |
| | RETRACTABLE CONE EXTENSION BARS |
| | PROJECT VEHICLE ACCESS/EGRESS |
| | BOUNDARY OF 2.5m OFFSET FROM EDGE OF BORING PITS |

- NOTES**
- DELINEATION SPACING:
 - WITHIN 40kph RESTRICTION MAXIMUM 4m.
 - ALL OTHER AREAS MAXIMUM 12m.
 - MINIMUM LANE WIDTH 3.2m.
 - COVER EXISTING SPEED SIGNS WITHIN EXTENTS OF TEMPORARY SPEED RESTRICTION.
 - BARRIER BOARDS & SIGNAGE AT CLOSURE POINTS SHALL BE ADJUSTED TO ENABLE CONSTRUCTION VEHICLES TO EXIT CLOSURE INTO OUTGOING LANE(S).
 - WHERE SIGNS ARE PLACED ON OR ADJACENT FOOTPATHS TRAFFIC CONES SHALL BE PLACED AT THE BASE OF SIGN MOUNTINGS.
 - TRAFFIC CONES
 - TRAFFIC CONTROLLERS SHALL BE RELIEVED FROM THEIR DUTY AFTER NOT MORE THAN 2 HOURS FOR A PERIOD OF REST OR OTHER DUTIES OF AT LEAST 15 MINUTES. RELIEF MUST BE PROVIDED BY A QUALIFIED PERSON.
 - MRWA RNOC ARE TO BE NOTIFIED BEFORE SETUP AND IMMEDIATELY AFTER PULL DOWN. PHONE: 138 111
 - FOR WORKING HOURS SCHEME APPLY TREATMENT AS PER TGS 068, 069 & 070.

HOURS OF IMPLEMENTATION
24 HOURS PER DAY
OUTSIDE OF WORKING HOURS

12.3A SEWELL STREET AT CANNING HIGHWAY - ROAD CROSSING - AFTER CARE

GTM
 21 CARTWRIGHT DRIVE, FORRESTDALE
 WESTERN AUSTRALIA 6112
 ABN 27 631 848 578
 PH: (08) 6244 1650 WEB: www.gtm.net.au
 POSTAL ADDRESS: PO BOX 97 MADDINGTON 6109



| NAME | ACCREDITATION | DATE | SIGNATURES |
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| DESIGNED Alex Stockey | KTS AWTM 19 43772 05 | 29/11/2021 | |
| REVIEWED Simon Goodwin | STAP AWTM 19 01851 04 | 08/12/2021 | |

| SCALE | LOCATION | ROAD AUTHORITY |
|--------------|-------------------------------|------------------------|
| NOT TO SCALE | Sewell Street, East Fremantle | Town of East Fremantle |

| TGS # | REV. # |
|--------------------|--------|
| 2110-TGS30370-070A | 00 |

| TRAFFIC MANAGEMENT PLAN PREPARED FOR: | |
|---------------------------------------|-------------------------|
| DESC. | Water Main Construction |
| CLIENT | DM Civil |
| AGENT | Tessa McGrath |
| CONTACT # | 0438 364 426 |

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