

**LEGEND**

EXISTING SURFACE

DESIGN SURFACE

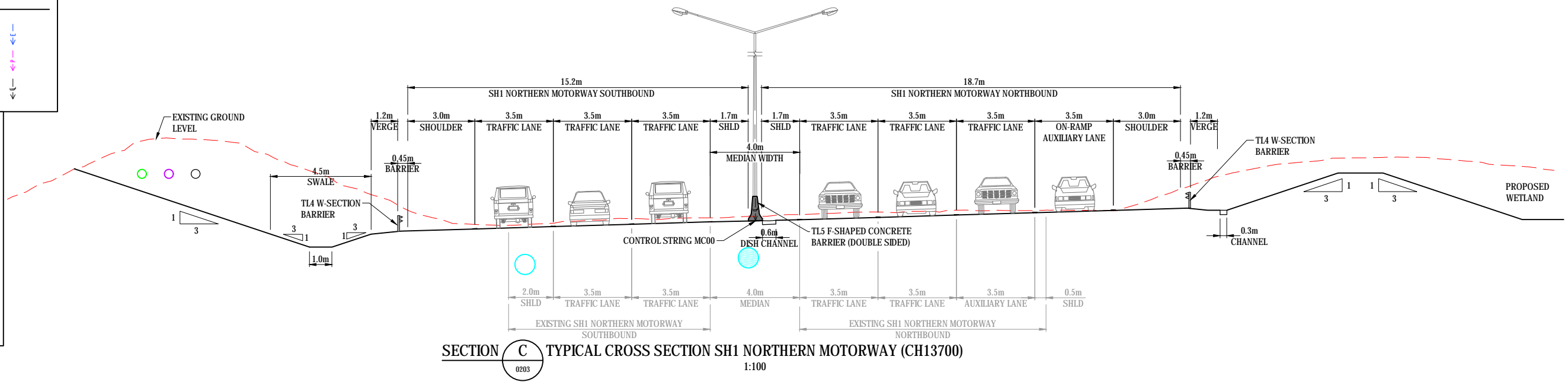
EXISTING DESIGNATION BOUNDARY

PROPOSED DESIGNATION BOUNDARY

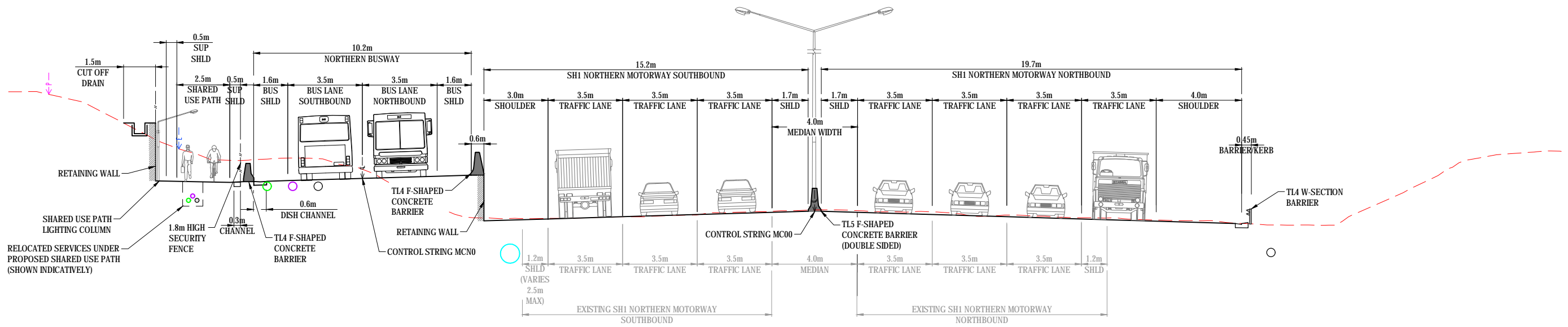
MASTER CONTROL LINE

**DRAINAGE AND UTILITIES LEGEND**

	EXISTING	PROPOSED
VODAFONE	<span style="color: green;">○</span>	<span style="color: green;">●</span>
VECTOR COMMS	<span style="color: purple;">○</span>	<span style="color: purple;">●</span>
ITS	<span style="border: 1px solid black; width: 5px; height: 5px; display: inline-block;"></span>	<span style="border: 1px solid black; width: 5px; height: 5px; display: inline-block;"></span>
VECTOR LV	<span style="border: 1px solid black; border-radius: 50%; width: 8px; height: 8px; display: inline-block;"></span> LV	<span style="border: 1px solid black; border-radius: 50%; width: 8px; height: 8px; display: inline-block;"></span> LV
VECTOR MV	<span style="border: 1px solid black; border-radius: 50%; width: 8px; height: 8px; display: inline-block;"></span> MV	<span style="border: 1px solid black; border-radius: 50%; width: 8px; height: 8px; display: inline-block;"></span> MV
STORMWATER	<span style="border: 1px solid cyan; width: 8px; height: 8px; display: inline-block;"></span>	<span style="border: 1px solid cyan; width: 8px; height: 8px; display: inline-block;"></span>
WASTEWATER	<span style="border: 1px solid red; width: 8px; height: 8px; display: inline-block;"></span>	<span style="border: 1px solid red; width: 8px; height: 8px; display: inline-block;"></span>



**SECTION C** TYPICAL CROSS SECTION SH1 NORTHERN MOTORWAY (CH13700)  
0203  
1:100



**SECTION A** TYPICAL CROSS SECTION SH1 NORTHERN MOTORWAY (CH12600)  
0202  
1:100

SCALE 1:100



CLIENT

REV	DATE	REVISION DETAILS	APPROVED
A	22/06/16	PRELIMINARY ISSUE	G. MOORE
B	01/07/16	REVISED ISSUE	G. MOORE
C	15/07/16	REVISED ISSUE	G. MOORE
D	09/09/16	REVISED ISSUE	G. MOORE
E	19/09/16	REVISED ISSUE	G. MOORE
F	03/10/16	DESIGN FREEZE	G. MOORE

SCALE	SIZE
1:100	A1
DRAWN	
V. SMITH	
DESIGNED	
D. SMITH	
CHECKED	
M. FRANCIS	

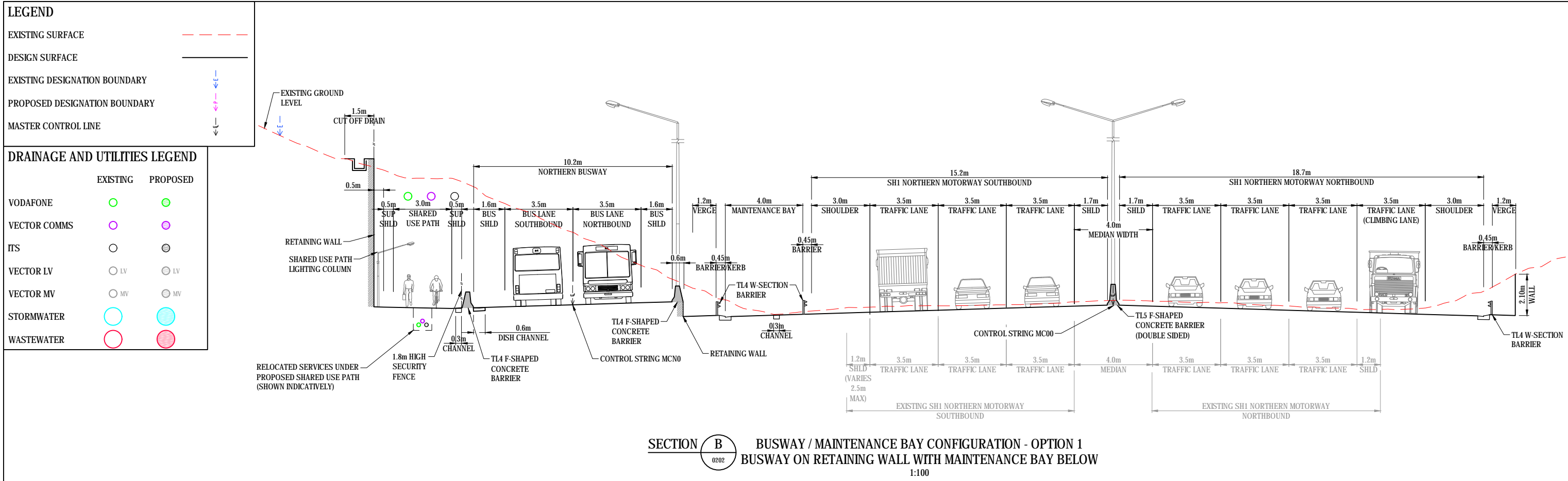
**PRELIMINARY NOT FOR CONSTRUCTION**

APPROVED

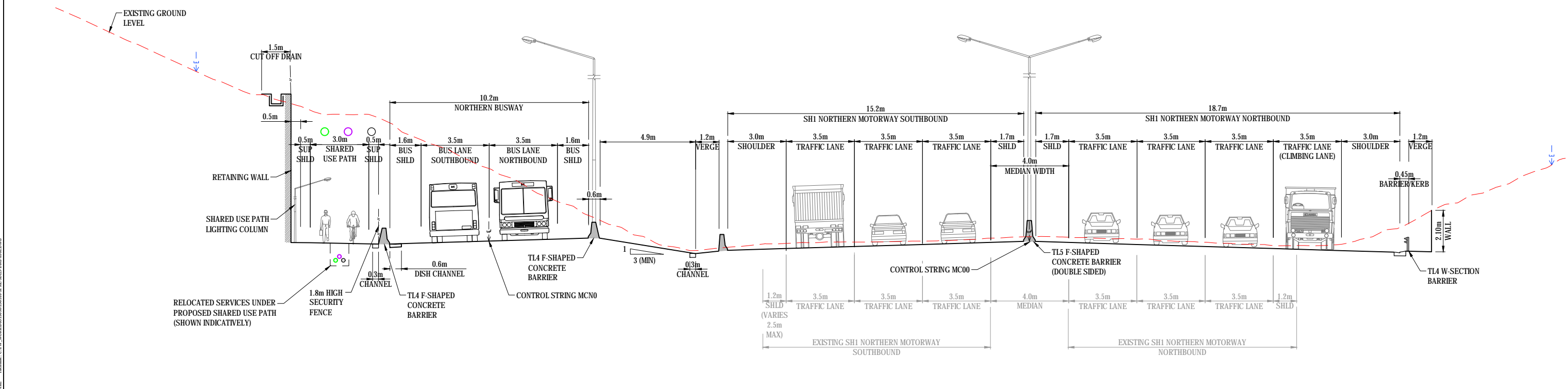
J. HIND

J. HIND

PROJECT	NORTHERN CORRIDOR IMPROVEMENTS
TITLE	TYPICAL CROSS SECTIONS SHEET 1
DRAWING No.	250310
PROJECT No.	3PRE
STAGE	3DES
WP	DRG
TYPE	
NUMBER	0301
REV	F



**SECTION B**  
0202 **BUSWAY / MAINTENANCE BAY CONFIGURATION - OPTION 1**  
**BUSWAY ON RETAINING WALL WITH MAINTENANCE BAY BELOW**  
1:100



**SECTION B**  
0202 **BUSWAY / MAINTENANCE BAY CONFIGURATION - OPTION 2**  
**BUSWAY ON EMBANKMENT**  
1:100

SCALE 1:100

<b>CLIENT</b>	<b>REV</b>   <b>DATE</b>   <b>REVISION DETAILS</b>   <b>APPROVED</b>   <b>SCALE</b>   <b>SIZE</b>					<b>PRELIMINARY</b> NOT FOR CONSTRUCTION	<b>PROJECT</b> <b>NORTHERN CORRIDOR IMPROVEMENTS</b>																																				
<b>LEGEND</b>	<table border="1"> <tr><td>A</td><td>22/06/16</td><td>PRELIMINARY ISSUE</td><td>G. MOORE</td><td>1:100</td><td>A1</td></tr> <tr><td>B</td><td>01/07/16</td><td>REVISED ISSUE</td><td>G. MOORE</td><td></td><td></td></tr> <tr><td>C</td><td>15/07/16</td><td>REVISED ISSUE</td><td>G. MOORE</td><td><b>DRAWN</b> V. SMITH</td><td></td></tr> <tr><td>D</td><td>09/09/16</td><td>REVISED ISSUE</td><td>G. MOORE</td><td><b>DESIGNED</b> D. SMITH</td><td></td></tr> <tr><td>E</td><td>19/09/16</td><td>REVISED ISSUE</td><td>G. MOORE</td><td><b>CHECKED</b> M. FRANCIS</td><td></td></tr> <tr><td>F</td><td>03/10/16</td><td>DESIGN FREEZE</td><td>G. MOORE</td><td></td><td></td></tr> </table>							A	22/06/16	PRELIMINARY ISSUE	G. MOORE	1:100	A1	B	01/07/16	REVISED ISSUE	G. MOORE			C	15/07/16	REVISED ISSUE	G. MOORE	<b>DRAWN</b> V. SMITH		D	09/09/16	REVISED ISSUE	G. MOORE	<b>DESIGNED</b> D. SMITH		E	19/09/16	REVISED ISSUE	G. MOORE	<b>CHECKED</b> M. FRANCIS		F	03/10/16	DESIGN FREEZE	G. MOORE		
A	22/06/16	PRELIMINARY ISSUE	G. MOORE	1:100	A1																																						
B	01/07/16	REVISED ISSUE	G. MOORE																																								
C	15/07/16	REVISED ISSUE	G. MOORE	<b>DRAWN</b> V. SMITH																																							
D	09/09/16	REVISED ISSUE	G. MOORE	<b>DESIGNED</b> D. SMITH																																							
E	19/09/16	REVISED ISSUE	G. MOORE	<b>CHECKED</b> M. FRANCIS																																							
F	03/10/16	DESIGN FREEZE	G. MOORE																																								
<b>DRAINAGE AND UTILITIES LEGEND</b>						<b>APPROVED</b> J. HIND	<b>DRAWING No.</b> 250310	<b>STAGE</b> 3PRE	<b>WP</b> 3DES	<b>TYPE</b> DRG	<b>NUMBER</b> 0302	<b>REV</b> F																															

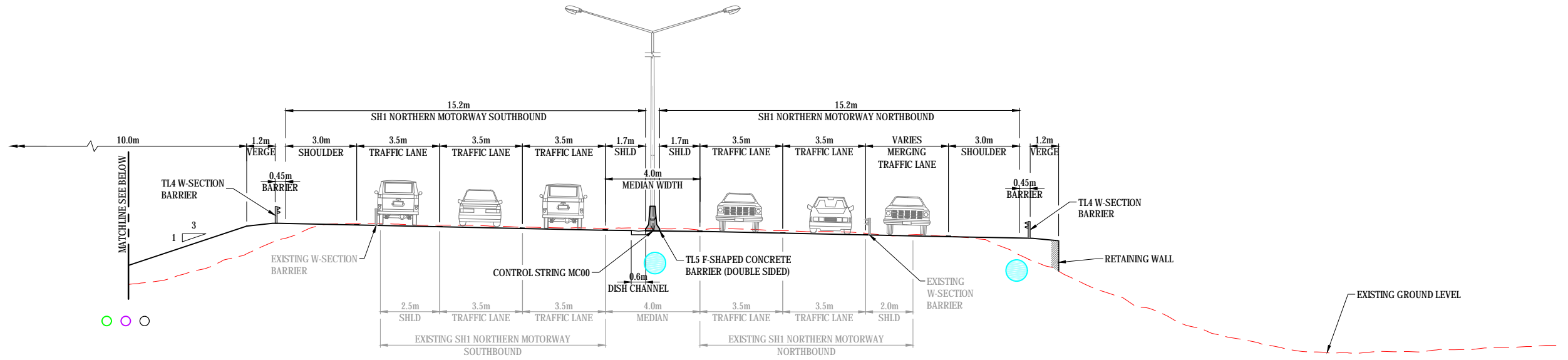


**LEGEND**

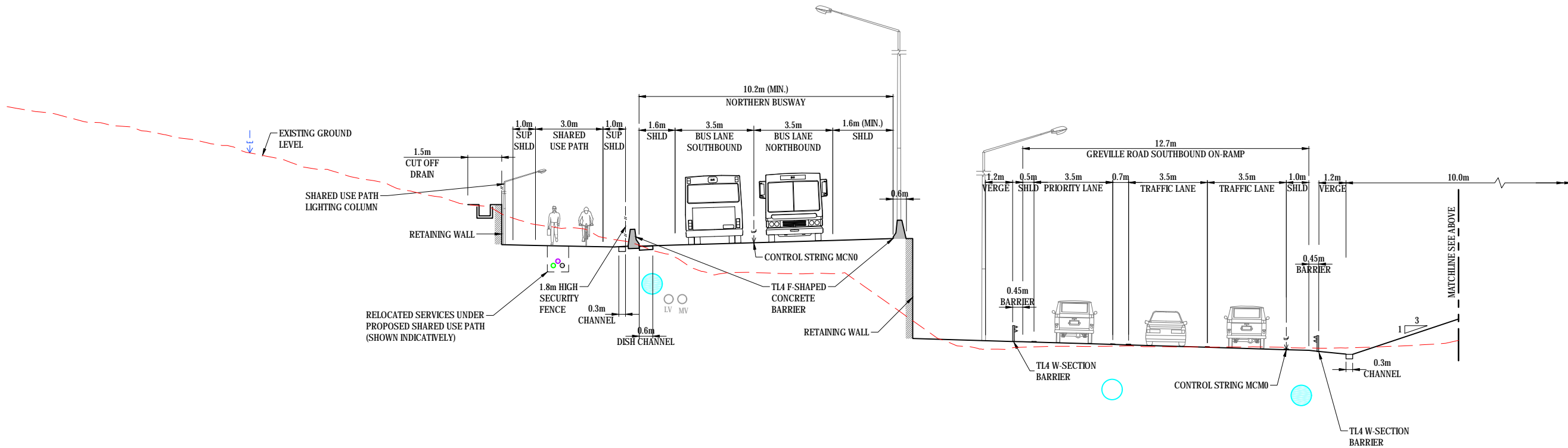
EXISTING SURFACE	---
DESIGN SURFACE	——
EXISTING DESIGNATION BOUNDARY	---
PROPOSED DESIGNATION BOUNDARY	---
MASTER CONTROL LINE	---

**DRAINAGE AND UTILITIES LEGEND**

	EXISTING	PROPOSED
VODAFONE	○	○
VECTOR COMMS	○	○
ITS	○	○
VECTOR LV	○ LV	○ LV
VECTOR MV	○ MV	○ MV
STORMWATER	○	○
WASTEWATER	○	○

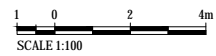


**SECTION D TYPICAL CROSS SECTION SH1 NORTHERN MOTORWAY (CH14000)**  
0204 1:100



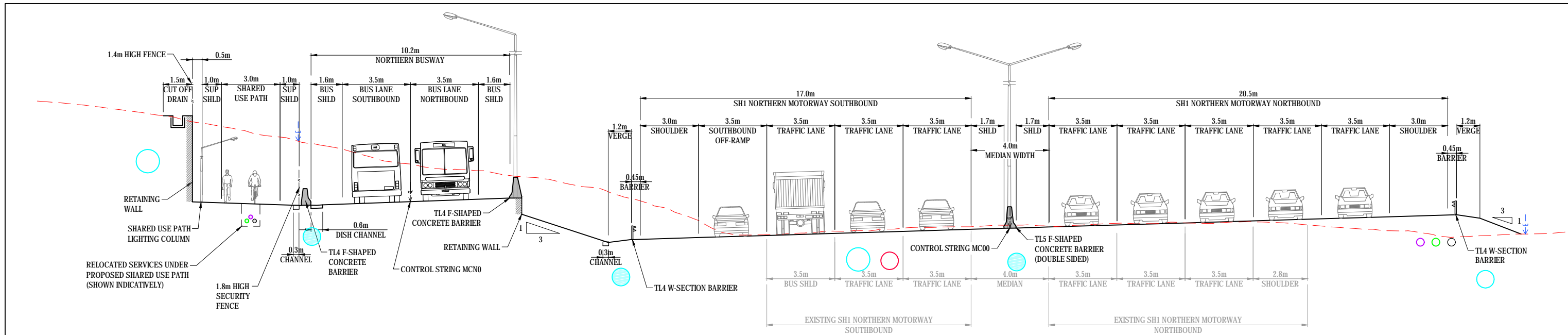
**SECTION D TYPICAL CROSS SECTION NORTHERN BUSWAY/GREVILLE ROAD SOUTHBOUND ON-RAMP AT LANDFILL (MCN0 CH2240)**  
0204 1:100

E:\Projects\20160815\101111.dwg 08/10/16 KAL B:\Users\c.philip\Work\20160815\101111.dwg 08/10/16



<b>CLIENT</b>	<b>REV DATE REVISION DETAILS</b>			<b>APPROVED</b>	<b>SCALE</b>	<b>SIZE</b>	<b>PRELIMINARY</b> NOT FOR CONSTRUCTION	<b>PROJECT</b>	<b>NORTHERN CORRIDOR IMPROVEMENTS</b>
	A	22/06/16	PRELIMINARY ISSUE	G. MOORE	1:100	A1	APPROVED DATE 03/10/16 J. HIND J. HIND	TITLE <b>TYPICAL CROSS SECTIONS SHEET 3</b>	
	B	01/07/16	REVISED ISSUE	G. MOORE	<b>DRAWN</b> V. SMITH <b>DESIGNED</b> D. SMITH <b>CHECKED</b> M. FRANCIS	DATE 03/10/16 J. HIND			
	C	15/07/16	REVISED ISSUE	G. MOORE					
	D	09/09/16	REVISED ISSUE	G. MOORE					
	E	19/09/16	REVISED ISSUE	G. MOORE					
	F	03/10/16	DESIGN FREEZE	G. MOORE					
	<b>DRAWING No.</b> 250310 - <b>STAGE</b> 3PRE - <b>WP</b> 3DES - <b>DRG</b> - <b>NUMBER</b> 0303 - <b>REV</b> F								





SECTION H TYPICAL CROSS SECTION SH1 NORTHERN MOTORWAY (CH15000)  
0205 1:100

**LEGEND**

EXISTING SURFACE ---

DESIGN SURFACE ---

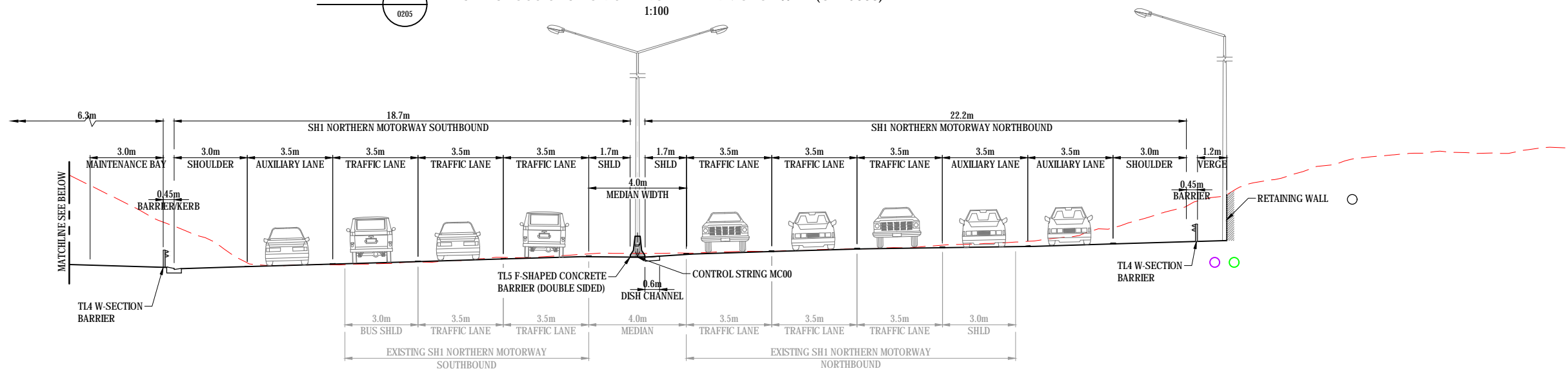
EXISTING DESIGNATION BOUNDARY ---

PROPOSED DESIGNATION BOUNDARY ---

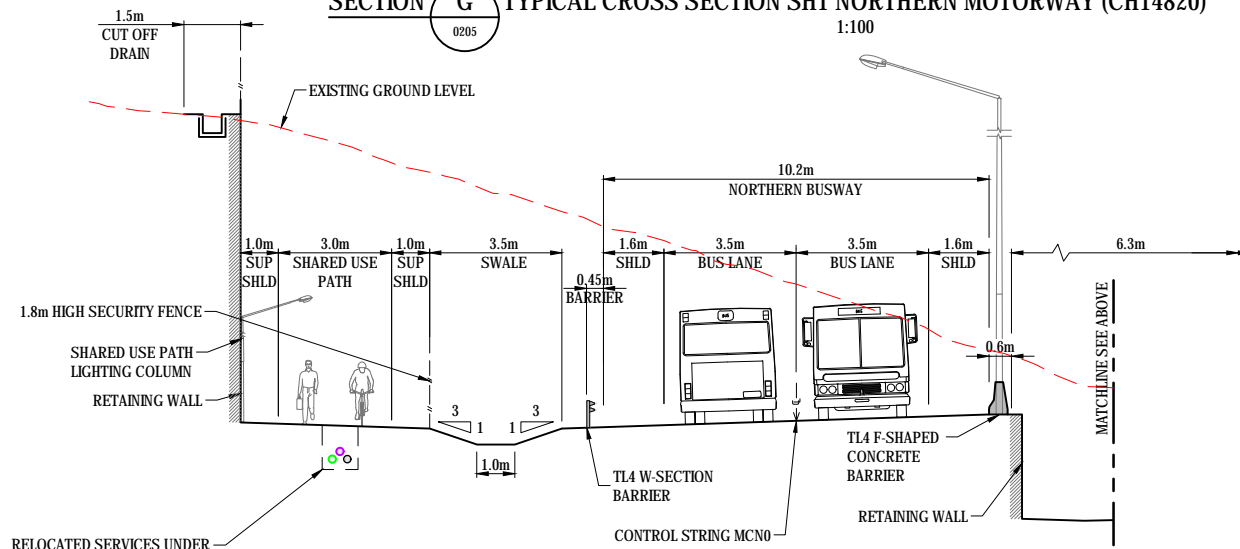
MASTER CONTROL LINE ---

**DRAINAGE AND UTILITIES LEGEND**

	EXISTING	PROPOSED
VODAFONE	<span style="color:green">○</span>	<span style="color:green">●</span>
VECTOR COMMS	<span style="color:purple">○</span>	<span style="color:purple">●</span>
ITS	<span style="color:grey">○</span>	<span style="color:grey">●</span>
VECTOR LV	<span style="color:grey">○</span> LV	<span style="color:grey">●</span> LV
VECTOR MV	<span style="color:grey">○</span> MV	<span style="color:grey">●</span> MV
STORMWATER	<span style="color:blue">○</span>	<span style="color:blue">●</span>
WASTEWATER	<span style="color:red">○</span>	<span style="color:red">●</span>



SECTION G TYPICAL CROSS SECTION SH1 NORTHERN MOTORWAY (CH14820)  
0205 1:100

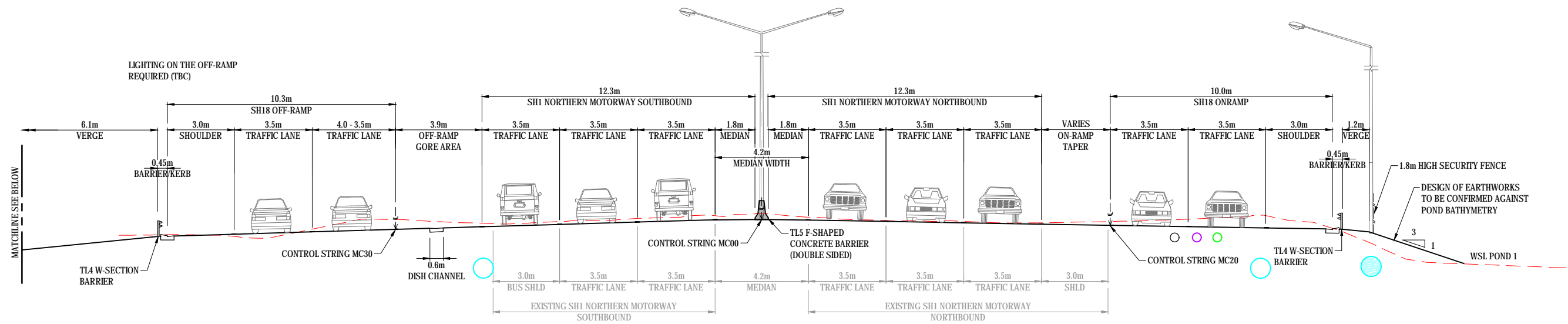


SECTION G TYPICAL CROSS SECTION SH1 NORTHERN MOTORWAY (CH14820)  
0205 1:100

SCALE 1:100

<b>CLIENT</b>					<b>APPROVED</b>	<b>SCALE</b>	<b>SIZE</b>	<b>PRELIMINARY</b> NOT FOR CONSTRUCTION	<b>PROJECT</b>	<b>NORTHERN CORRIDOR IMPROVEMENTS</b>					
	<b>REV</b>	<b>DATE</b>	<b>REVISION DETAILS</b>							<b>TYPICAL CROSS SECTIONS SHEET 5</b>					
	A	22/06/16	PRELIMINARY ISSUE	G. MOORE	1:100	A1									
	B	01/07/16	REVISED ISSUE	G. MOORE			<b>DRAWN</b>	<b>APPROVED</b>							
	C	15/07/16	REVISED ISSUE	G. MOORE			V. SMITH								
	D	09/09/16	REVISED ISSUE	G. MOORE			<b>DESIGNED</b>	DATE							
	E	19/09/16	REVISED ISSUE	G. MOORE			D. SMITH	03/10/16							
	F	03/10/16	DESIGN FREEZE	G. MOORE			<b>CHECKED</b>								
							M. FRANCIS								
								J. HIND							
								J. HIND							
									<b>DRAWING No.</b>	<b>PROJECT No.</b>	<b>STAGE</b>	<b>WP</b>	<b>TYPE</b>	<b>NUMBER</b>	<b>REV</b>
									250310	250310	3PRE	3DES	DRG	0305	F





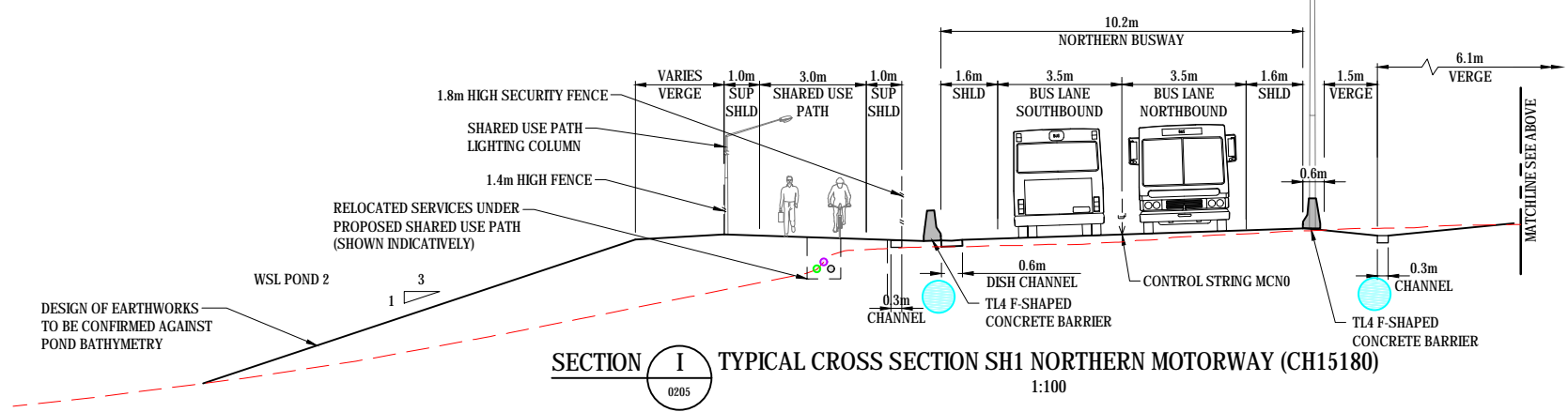
SECTION I TYPICAL CROSS SECTION SH1 NORTHERN MOTORWAY (CH15180)  
0205 1:100

**LEGEND**

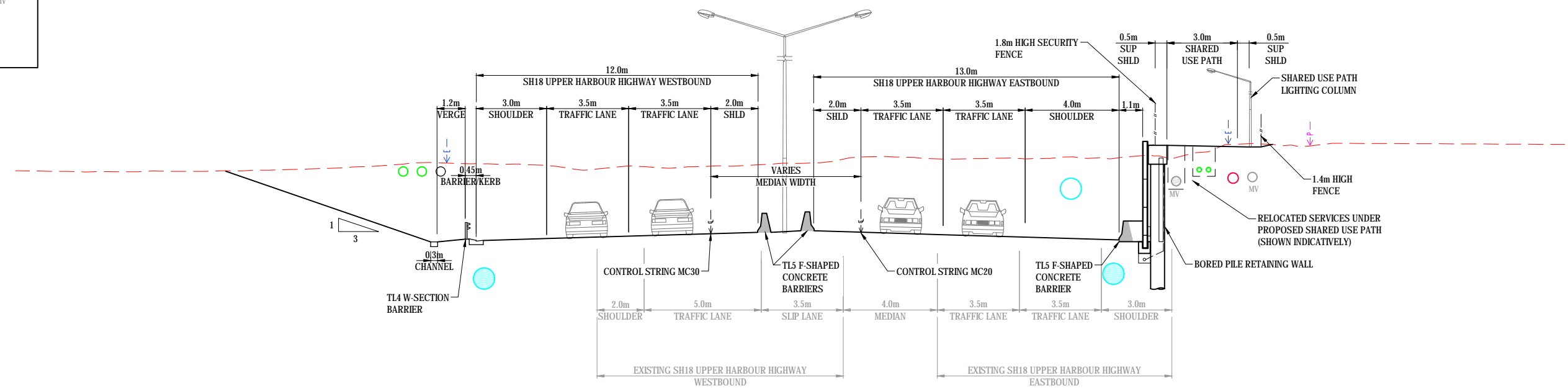
- EXISTING SURFACE ---
- DESIGN SURFACE ---
- EXISTING DESIGNATION BOUNDARY |
- PROPOSED DESIGNATION BOUNDARY |
- MASTER CONTROL LINE |

**DRAINAGE AND UTILITIES LEGEND**

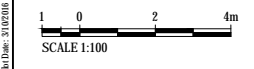
	EXISTING	PROPOSED
VODAFONE	<span style="color: green;">○</span>	<span style="color: green;">●</span>
VECTOR COMMS	<span style="color: purple;">○</span>	<span style="color: purple;">●</span>
ITS	<span style="color: blue;">○</span>	<span style="color: blue;">●</span>
VECTOR LV	<span style="color: grey;">○</span> LV	<span style="color: grey;">●</span> LV
VECTOR MV	<span style="color: grey;">○</span> MV	<span style="color: grey;">●</span> MV
STORMWATER	<span style="color: cyan;">○</span>	<span style="color: cyan;">●</span>
WASTEWATER	<span style="color: red;">○</span>	<span style="color: red;">●</span>



SECTION I TYPICAL CROSS SECTION SH1 NORTHERN MOTORWAY (CH15180)  
0205 1:100



SECTION N TYPICAL CROSS SECTION SH18 UPPER HARBOUR HIGHWAY (CH 1430)  
0209 1:100



CLIENT	REV	DATE	REVISION DETAILS	APPROVED	SCALE	SIZE	PRELIMINARY NOT FOR CONSTRUCTION	PROJECT	NORTHERN CORRIDOR IMPROVEMENTS					
aurecon	A	22/06/16	PRELIMINARY ISSUE	G. MOORE	1:100	A1	APPROVED	PROJECT	NORTHERN CORRIDOR IMPROVEMENTS					
	B	01/07/16	REVISED ISSUE	G. MOORE										
	C	15/07/16	REVISED ISSUE	G. MOORE	DRAWN		DATE 03/10/16	TITLE	TYPICAL CROSS SECTIONS SHEET 6					
	D	09/09/16	REVISED ISSUE	G. MOORE	V. SMITH									
	E	19/09/16	REVISED ISSUE	G. MOORE	DESIGNED		DRAWING No.	PROJECT No.	STAGE	WP	TYPE	NUMBER	REV	
	F	03/10/16	DESIGN FREEZE	G. MOORE	D. SMITH									250310
				CHECKED			J. HIND							
				M. FRANCIS			J. HIND							

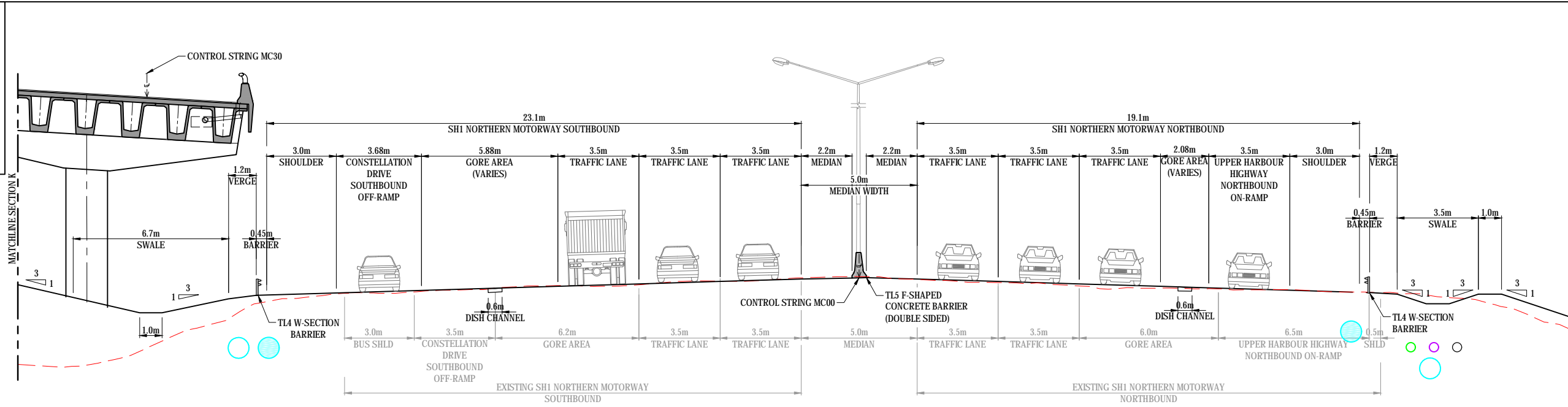


**LEGEND**

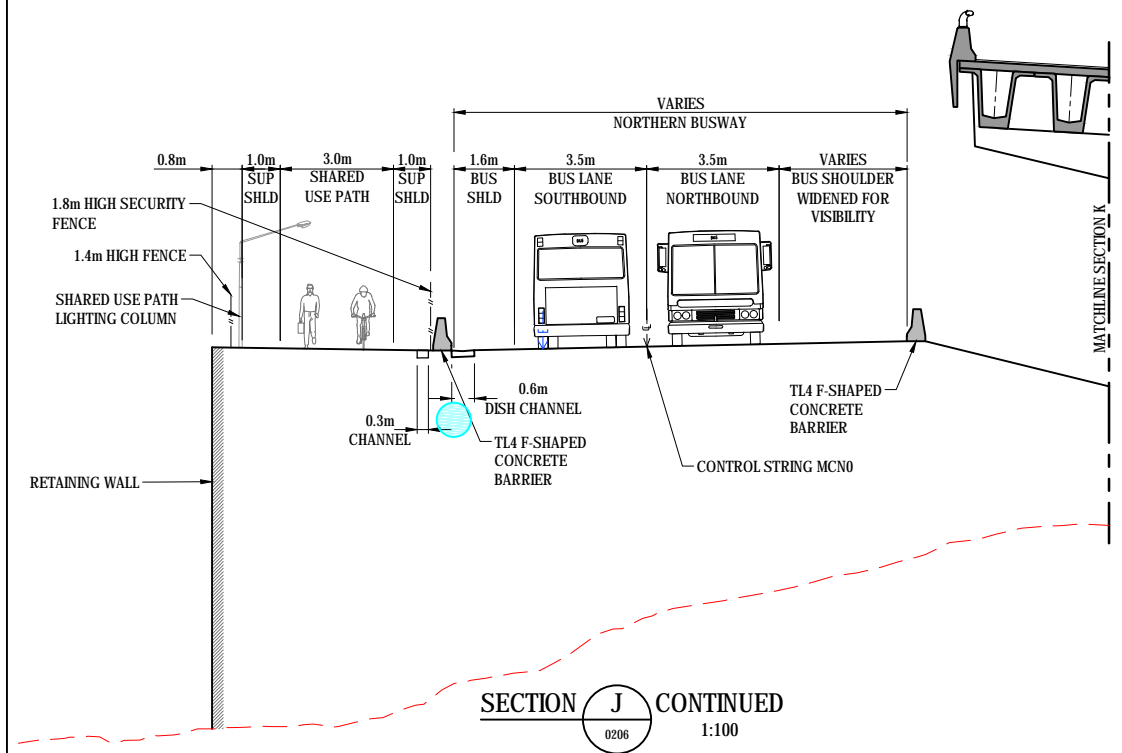
EXISTING SURFACE	---
DESIGN SURFACE	—
EXISTING DESIGNATION BOUNDARY	---
PROPOSED DESIGNATION BOUNDARY	---
MASTER CONTROL LINE	---

**DRAINAGE AND UTILITIES LEGEND**

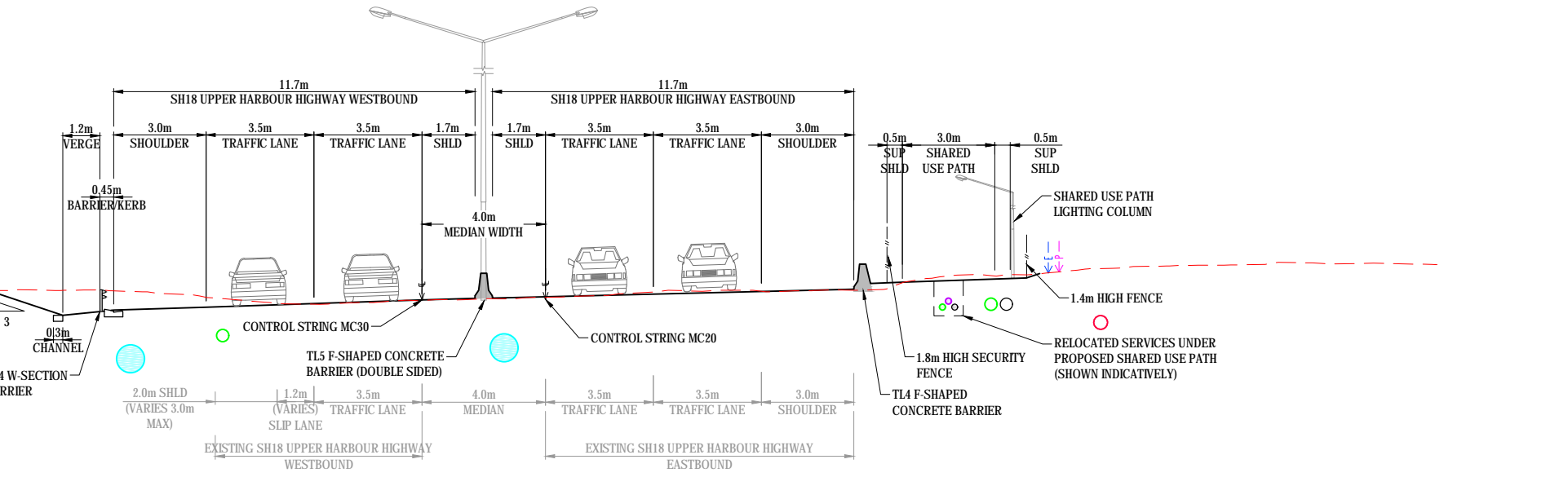
	EXISTING	PROPOSED
VODAFONE	○	○
VECTOR COMMS	○	○
ITS	○	○
VECTOR LV	○ LV	○ LV
VECTOR MV	○ MV	○ MV
STORMWATER	○	○
WASTEWATER	○	○



**SECTION J TYPICAL CROSS SECTION SH1 NORTHERN MOTORWAY (CH1550)**  
1:100

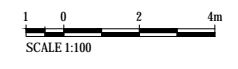


**SECTION J CONTINUED**  
1:100



**SECTION O TYPICAL CROSS SECTION SH18 UPPER HARBOUR HIGHWAY (CH 1700)**  
1:100

Date: 21/09/16 11:00 am  
 Drawn: C. PHILIP  
 Checked: M. FRANCIS  
 Project: 250310 - 3PRE - 3DES - DRG - 0307



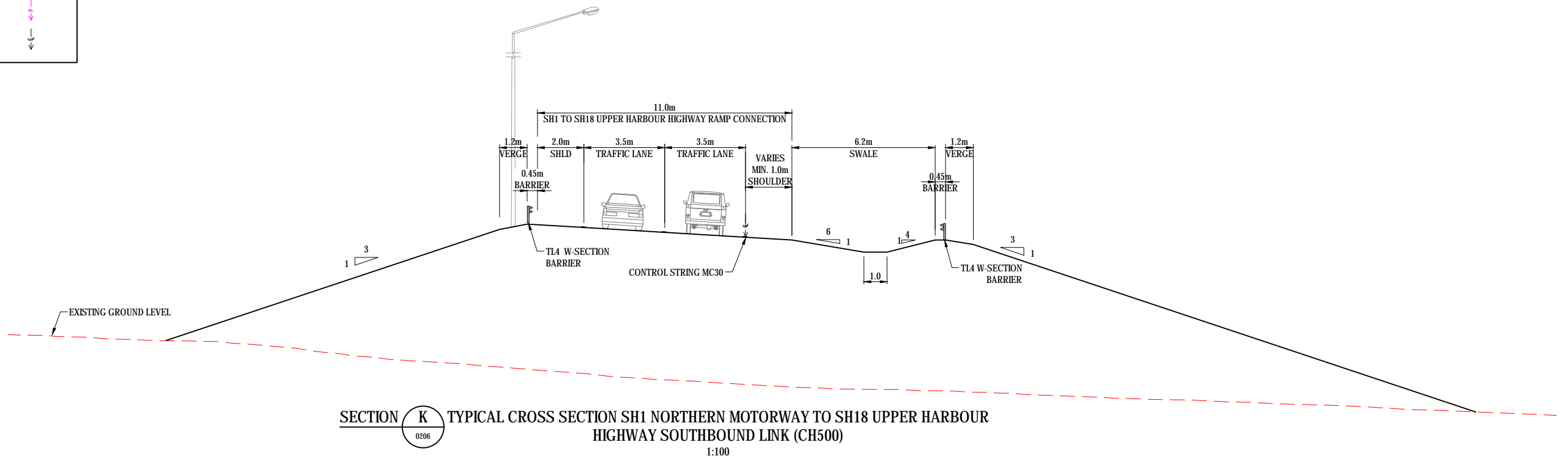
REV	DATE	REVISION DETAILS	APPROVED
A	22/06/16	PRELIMINARY ISSUE	G. MOORE
B	01/07/16	REVISED ISSUE	G. MOORE
C	15/07/16	REVISED ISSUE	G. MOORE
D	09/09/16	REVISED ISSUE	G. MOORE
E	19/09/16	REVISED ISSUE	G. MOORE
F	03/10/16	DESIGN FREEZE	G. MOORE

SCALE	SIZE
1:100	A1
<b>DRAWN</b>	
V. SMITH	
<b>DESIGNED</b>	
D. SMITH	
<b>CHECKED</b>	
M. FRANCIS	

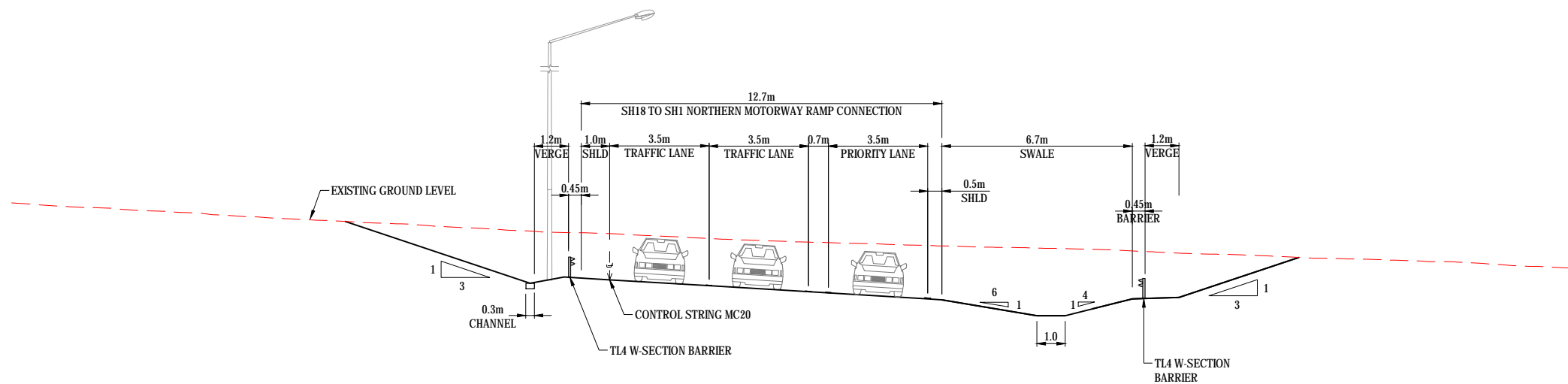
PRELIMINARY	DATE
NOT FOR CONSTRUCTION	03/10/16
<b>APPROVED</b>	
J. HIND	
J. HIND	

PROJECT	TITLE
NORTHERN CORRIDOR IMPROVEMENTS	TYPICAL CROSS SECTIONS SHEET 7
<b>DRAWING No.</b>	<b>PROJECT No.</b>
250310	250310
<b>STAGE</b>	<b>WP</b>
3PRE	3DES
<b>TYPE</b>	<b>NUMBER</b>
DRG	0307
<b>REV</b>	<b>F</b>

EXISTING SURFACE	-----
DESIGN SURFACE	—————
EXISTING DESIGNATION BOUNDARY	——— ———
PROPOSED DESIGNATION BOUNDARY	——— ———
MASTER CONTROL LINE	——— ———



SECTION **K** TYPICAL CROSS SECTION SH1 NORTHERN MOTORWAY TO SH18 UPPER HARBOUR HIGHWAY SOUTHBOUND LINK (CH500)  
1:100



SECTION **L** TYPICAL CROSS SECTION SH18 UPPER HARBOUR TO SH1 NORTHERN MOTORWAY NORTHBOUND LINK (CH550)  
1:100

1 0 2 4m  
SCALE 1:100

Plotfile: 210208151111.pn Date: 08/07/2016 10:08:50 AM User: JES-DRG-DWG



CLIENT

REV	DATE	REVISION DETAILS	APPROVED
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B	01/07/16	REVISED ISSUE	G. MOORE
C	15/07/16	REVISED ISSUE	G. MOORE
D	09/09/16	REVISED ISSUE	G. MOORE
E	19/09/16	REVISED ISSUE	G. MOORE
F	03/10/16	DESIGN FREEZE	G. MOORE

SCALE	SIZE
1:100	A1
DRAWN	
V. SMITH	
DESIGNED	
D. SMITH	
CHECKED	
M. FRANCIS	

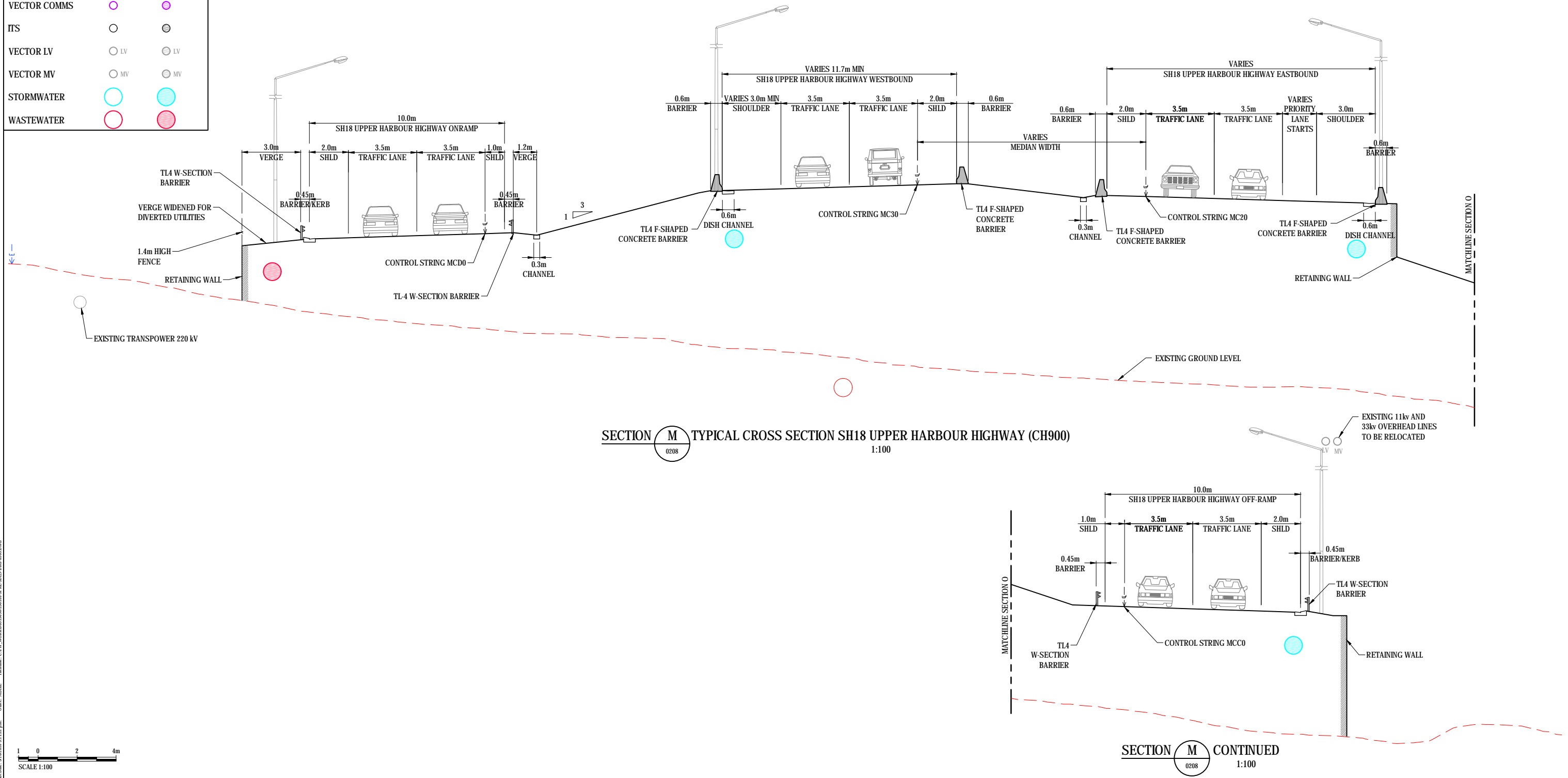
PRELIMINARY NOT FOR CONSTRUCTION	APPROVED
J. HIND	J. HIND
	DATE 03/10/16

PROJECT	NORTHERN CORRIDOR IMPROVEMENTS
TITLE	TYPICAL CROSS SECTIONS SHEET 8
DRAWING No.	250310
STAGE	3PRE
WP	3DES
TYPE	DRG
NUMBER	0308
REV	F



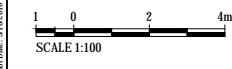
LEGEND	
EXISTING SURFACE	---
DESIGN SURFACE	—
EXISTING DESIGNATION BOUNDARY	--- ---
PROPOSED DESIGNATION BOUNDARY	--- ---
MASTER CONTROL LINE	— —

DRAINAGE AND UTILITIES LEGEND		
	EXISTING	PROPOSED
VODAFONE	○	●
VECTOR COMMS	○	●
ITS	○	●
VECTOR LV	○ LV	● LV
VECTOR MV	○ MV	● MV
STORMWATER	○	●
WASTEWATER	○	●



SECTION M TYPICAL CROSS SECTION SH18 UPPER HARBOUR HIGHWAY (CH900)  
1:100

SECTION M CONTINUED  
1:100



CLIENT		REV		DATE	REVISION DETAILS	APPROVED	SCALE	SIZE	PRELIMINARY NOT FOR CONSTRUCTION	PROJECT	NORTHERN CORRIDOR IMPROVEMENTS					
aurecon		A	22/06/16	PRELIMINARY ISSUE	G. MOORE	1:100	A1	DATE		TYPICAL CROSS SECTIONS SHEET 9						
NZ TRANSPORT AGENCY WAKA KOTAHI		B	01/07/16	REVISED ISSUE	G. MOORE	DRAWN		03/10/16	APPROVED	TITLE	PROJECT No.	STAGE	WP	TYPE	NUMBER	REV
		C	15/07/16	REVISED ISSUE	G. MOORE	V. SMITH			J. HIND		250310	3PRE	3DES	DRG	0309	F
		D	09/09/16	REVISED ISSUE	G. MOORE	DESIGNED			J. HIND							
		E	19/09/16	REVISED ISSUE	G. MOORE	D. SMITH										
		F	03/10/16	DESIGN FREEZE	G. MOORE	CHECKED										
						M. FRANCIS										

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