

From: [Mark A Graham](#)  
To: [@mielectric.com.au](mailto:@mielectric.com.au)  
Subject: RE : Hi and training certification  
Date: Thursday, 1 March 2018 10:23:52 AM

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Hi

Hope you are well and not missing me to much.

I hope everyone is well over at MiE.

I need to supply my latest cpr, lv rescue, pole top training etc.

Could you please supply the certificates for training completed while at MiE

Kind regards,

**Mark Graham**  
Senior Project Manager Electrical & ITS

Hemmant Depot  
[10 Oregon Street | Hemmant Qld 4174](#)  
P: [\(07\) 3066 4414](tel:(07)30664414) | F: [\(07\) 3066 4457](tel:(07)30664457)  
Mch.4 Part 4 s.6 Person  
E: [mark.a.graham@tmr.qld.gov.au](mailto:mark.a.graham@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

Released under RTI - DTMR

Job ID: **TELE STAGE 2**  
 Customer: **BCC**  
 Company: **MI ELECTRIC**  
 Filename: **GUN P107\_M2193 to LEMKE**  
**VMS\_PORT9.olt**

## Locations

	Location A	Location B
Operator	ch.4 Part 4 s.6 Person	
Model	MAX-945-SM3-EA	MAX-945-SM3-EA
Serial number	1048909	1043103
Calibration date	31-Oct-18 (UTC)	29-Oct-18 (UTC)

## Results

Identifier	Wave-length (nm)	Worst Loss (dB)	Loss Margin (dB)	Loss A->B (dB)	Loss B->A (dB)	ORL A (dB)	ORL B (dB)	Length (km)	Date/Time
M2193 to LEMKE VMS_PORT9	1310	5.71	0.29	5.77	5.66	32.54	32.57	14.361	14-Feb-19, 1:40:59 PM
	1550	4.07	1.93	4.14	4.01	34.34	34.42		
M2193 to LEMKE VMS_PORT10	1310	5.81	0.19	5.90	5.71	32.34	32.82	14.362	14-Feb-19, 1:41:31 PM
	1550	4.14	1.86	4.09	4.18	34.65	34.16		

## Reference

Reference Method	Test Cord	Wavelength (nm)	Reference A->B (dB)	Reference B->A (dB)	Test Cord Verification (dB)	Date/Time
EXFO one test cord	Reference grade	1310	0.79	1.24	0.08	14-Feb-19, 1:38:18 PM
		1550	0.56	1.09	0.07	

## Pass/Fail Thresholds

Wavelength (nm)	Max. Link Loss (dB)	Max. Link Length (km)
1310	6.00	25.000
1550	6.00	25.000

Job ID: **TELE STAGE 2**  
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## Locations

	Location A	Location B
Operator	Sch.4 Part 4 s.6 Person	
Model	MAX-945-SM3-EA	MAX-945-SM3-EA
Serial number	1048909	1043103
Calibration date	31-Oct-18 (UTC)	29-Oct-18 (UTC)

## Results

Identifier	Wave-length (nm)	Worst Loss (dB)	Loss Margin (dB)	Loss A->B (dB)	Loss B->A (dB)	ORL A (dB)	ORL B (dB)	Length (km)	Date/Time
M2193 to LEMKE VMS_PORT11	1310	6.34	0.66	6.30	6.37	32.47	33.09	14.359	14-Feb-19, 1:42:30 PM
	1550	4.15	2.85	4.09	4.20	34.36	34.32		
M2193 to LEMKE VMS_PORT12	1310	6.33	0.67	6.41	6.24	32.83	32.83	14.362	14-Feb-19, 1:42:54 PM
	1550	4.16	2.84	4.30	4.02	34.64	34.17		

## Reference

Reference Method	Test Cord	Wavelength (nm)	Reference A->B (dB)	Reference B->A (dB)	Test Cord Verification (dB)	Date/Time
EXFO one test cord	Reference grade	1310	0.79	1.24	0.08	14-Feb-19, 1:38:18 PM
		1550	0.56	1.09	0.07	

## Pass/Fail Thresholds

Wavelength (nm)	Max. Link Loss (dB)	Max. Link Length (km)
1310	7.00	25.000
1550	7.00	25.000

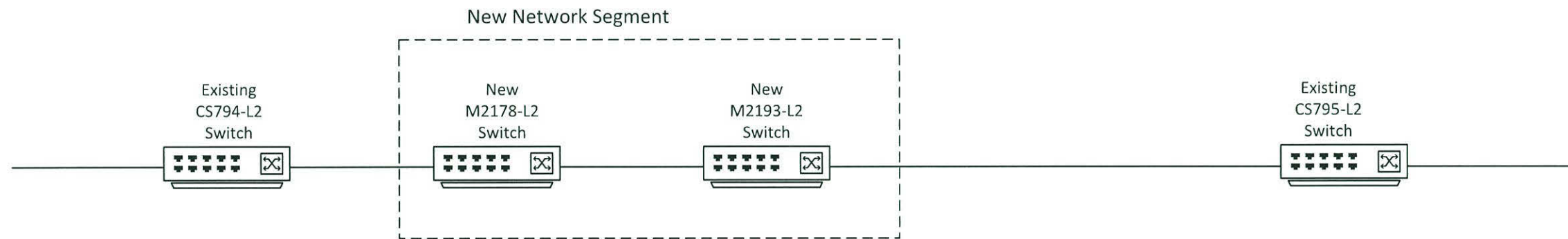
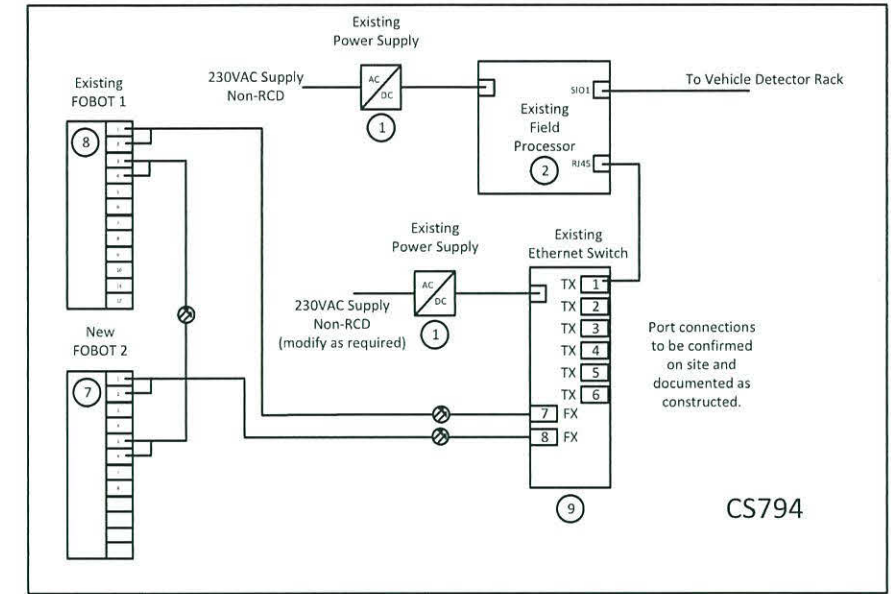
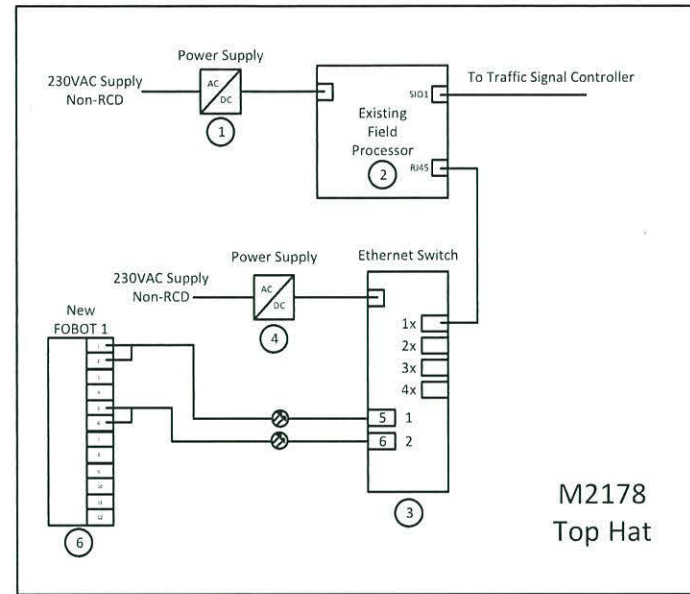
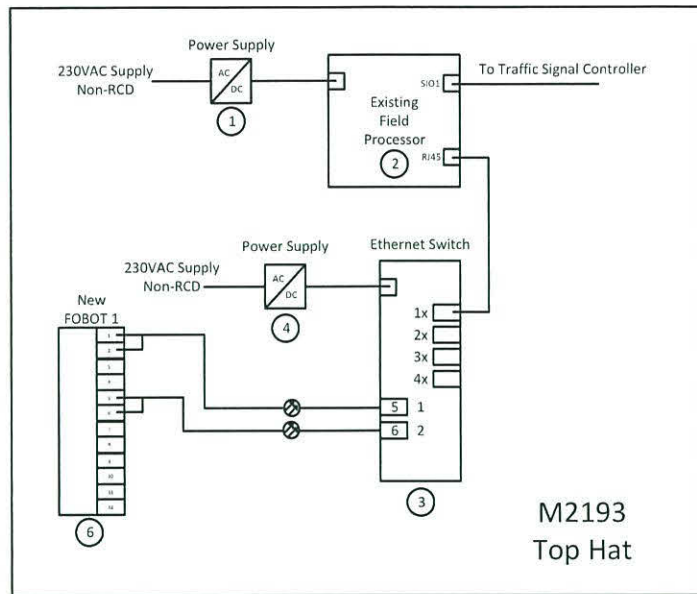
Project:   
 (A) End Location:   
 Cable Number:

Serial # (A):  Operator (A):   
 Serial # (B):  Operator (B):

Date:   
 Client:   
 Location:

A End Port #	B End Location	B End Port #	Distance Km	Splice & Connector Qty		Max Allowance 1310nm (dB/Km)	Values (dB) for SM 1310nm		Max Allowance 1550nm (dB/Km)	Values (dB) for SM 1550nm		Result		Comments
				Splices (dB)	Conn (dB)		Measured Link Loss A to B	Measured Link Loss B to A		Measured Link Loss A to B	Measured Link Loss B to A	Two-Way Average-1550nm	Pass/Fail	
				0.1	0.5	0.35	0.22	0.00	0.00	0.00	0.00			
1	M2193	9	14.300	10	4	8.01	5.770	5.660	6.15	4.140	4.010	4.14	Pass	Loop Back Connected at M2193
2	M2193	10	14.300	10	4	8.01	5.900	5.710	6.15	4.090	4.180	4.09	Pass	Loop Back Connected at M2193
3	M2193	11	14.300	10	4	8.01	6.300	6.370	6.15	4.090	4.200	4.09	Pass	Loop Back Connected at M2193
4	M2193	12	14.300	10	4	8.01	6.410	6.240	6.15	4.300	4.020	4.30	Pass	Loop Back Connected at M2193
5						0.00			0.00			0.00		
6						0.00			0.00			0.00		
7						0.00			0.00			0.00		
8						0.00			0.00			0.00		
9						0.00			0.00			0.00		
10						0.00			0.00			0.00		
11						0.00			0.00			0.00		
12						0.00			0.00			0.00		
13						0.00			0.00			0.00		
14						0.00			0.00			0.00		
15						0.00			0.00			0.00		
16						0.00			0.00			0.00		
17						0.00			0.00			0.00		
18						0.00			0.00			0.00		
19						0.00			0.00			0.00		
20						0.00			0.00			0.00		
21						0.00			0.00			0.00		
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23						0.00			0.00			0.00		
24						0.00			0.00			0.00		



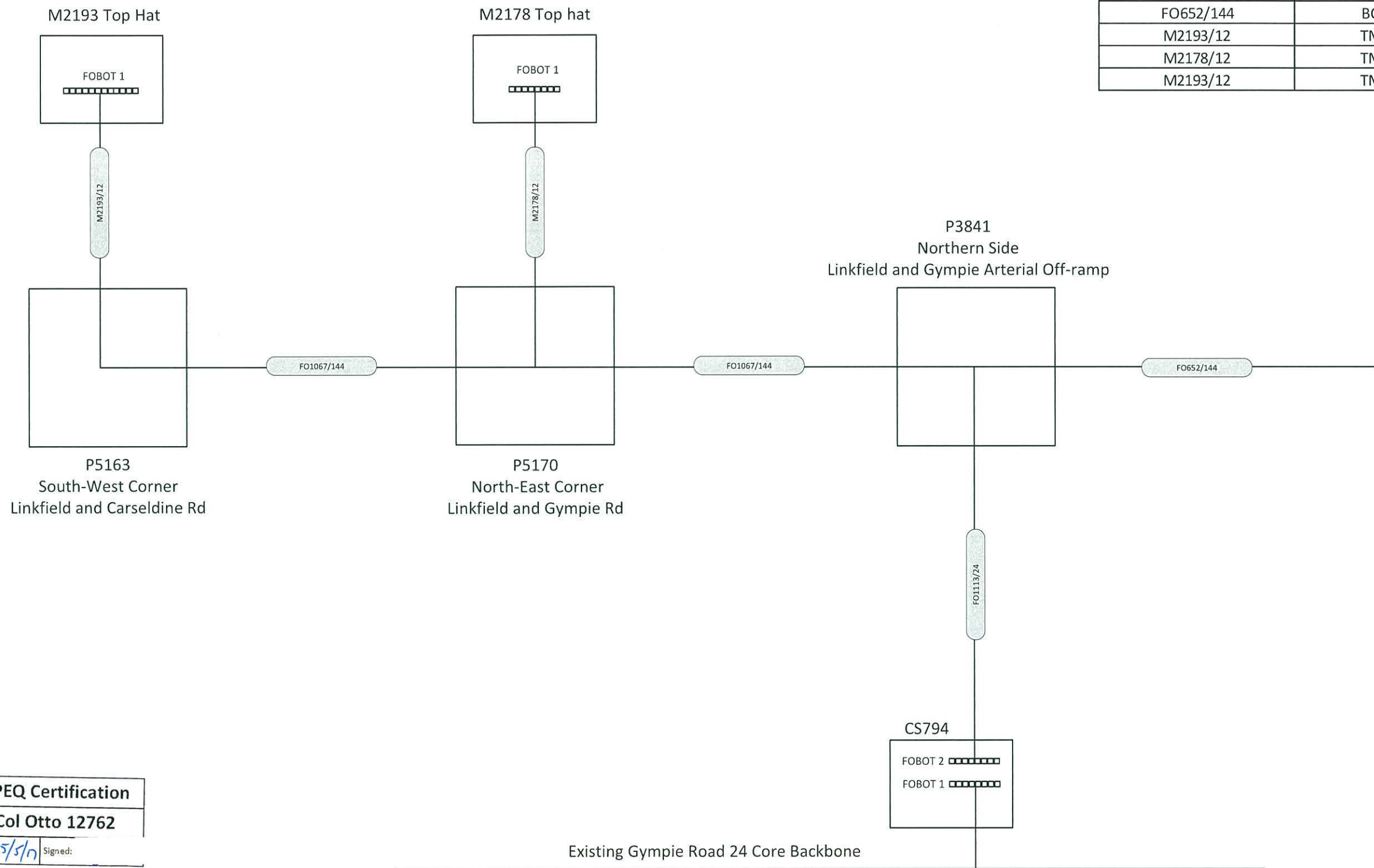


**RPEQ Certification**  
**Col Otto 12762**  
 Date: 25/5/17 Signed: \_\_\_\_\_

Equipment List			
Item Number	Description	Part Number	Qty
1	Existing Power Supply	Varies	-
2	Existing Field Processor	Varies	-
3	Cisco IE2000 Switch	IE-2000-4TS-G-B	2
4	Cisco Power Supply	PWR-IE65W-PC-AC	2
5	Rugged Cisco SFP	GLC-LX-SM-RGD	4
6	DIN Rail Mount AFC FOBOT	FDE-12-SCA-1-S	2
7	Rack Mount AFC FOBOT	FRE-1RU-MOD-S	1
8	Existing FOBOT	Varies	-
9	Existing Moxa Switch	EDS-508	-

Revision	Certified	Date	Microfilmed	Associated Job #:	Survey Data	Not to Scale	Transport & Main Roads	Gympie - Linkfield - Carseldine Rds	Site No.	Queensland Government										
					Horiz. Datum WGS84		Metropolitan District	Network Addition		Department of Transport & Main Roads										
					Height Datum		Linkfield Road Network Extension			Job No.										
					Survey Books		Reference Points			Contract No.										
A	Original Issue A3	CO	23/05/2017		Classification	Security-in-Confidence	Dimensions shown in millimetres except where shown otherwise	Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP	Following RP	Drawn by Colin Otto 25/05/2017	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEQ) C Otto 12762	Drawing No.	Series No.	1 of 1

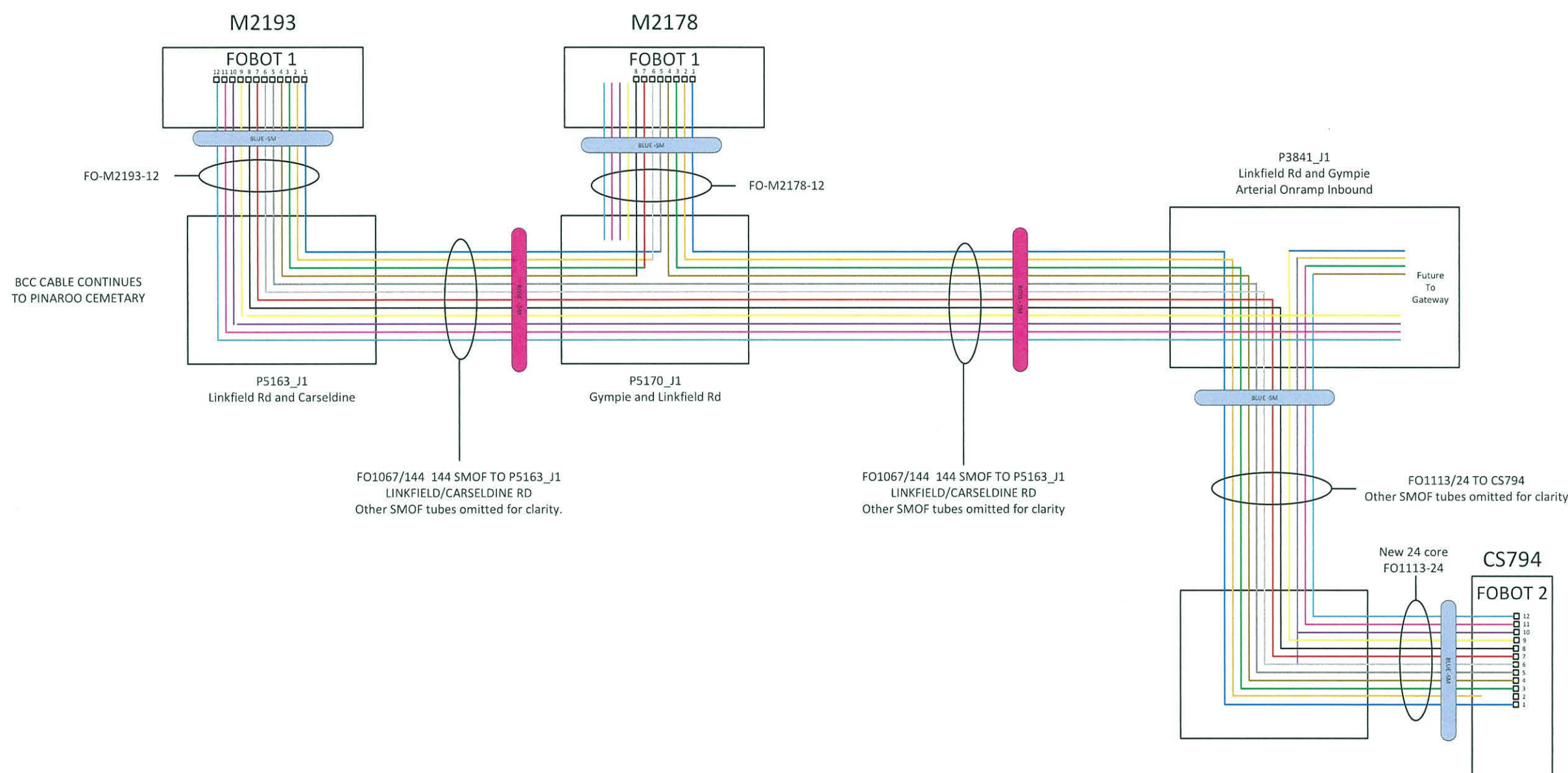
Cable Number	O&M Responsibility
FO1067/144	BCC
FO1113/24	BCC
FO652/144	BCC
M2193/12	TMR
M2178/12	TMR
M2193/12	TMR



**RPEQ Certification**  
**Col Otto 12762**  
 Date: 25/5/17 Signed:

Existing Gympie Road 24 Core Backbone

Revision	Certified	Date	Microfilm	Associated Job #:	Survey Data	Not to Scale	Transport & Main Roads	Gympie - Linkfield - Carseldine Rds	Site No.	Queensland Government
					Horiz. Datum Height Datum WGS84		Metropolitan District	Cable Topology		Department of Transport & Main Roads
				Auxiliary Drawing #:	Survey Books		Linkfield Road Network Extension			Job No.
					Classification	Security-in-Confidence	Reference Points	Drawn by	Design Verified	Contract No.
A	Original Issue A3	CO	27/03/2017			Dimensions shown in millimetres except where shown otherwise	Preceding RP	Colin Otto	Design Review	Drawing No.
							Dist. To start of job (km)	27/03/2017		Series No.
							From start to end of job			1 of 1
							From end to Following RP			
							Following RP			



**RPEQ Certification**  
**Col Otto 12762**  
 Date: 25/5/17 Signed:

Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale		Transport & Main Roads				Site No.	 Department of Transport & Main Roads	
						Horiz. Datum	WGS84			Metropolitan District						
						Height Datum				Linkfield Road Network Extension						
					Auxiliary Drwing #:	Survey Books				Reference Points				Drawn by	Drawing Checked Design Verified Design Review	Engineering Certification (RPEQ) C Otto 12762
										Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP	Following RP		
A	Original Issue A3	CO	27/03/2017		Classification	<b>Security-in-Confidence</b>		Dimensions shown in millimetres except where shown otherwise						Colin Otto 27/03/2017		
© Copyright TMR 2016															Contract No. Drawing No. Series No.	1 of 1



## General Information

Filename:	M2193 to LEMKE VMS_PORT9.pdf	Inspection date:	12-Feb-19 2:40 PM
Analysis version:	1.8.0.0	Analysis date:	12-Feb-19 2:40 PM
Job ID:	M2193 to LEMKE VMS	Customer:	TMR
Company:	MI ELECTRIC	Frame:	
Comments:			

## Locations

	Location A	Location B
Operator	ch.4 Part 4 s.6 Person	
Platform S/N	1048909	

## FIP Information

Info.	Value
Model	FIP-435B
Serial number	995484
Firmware version	6.4.0.26

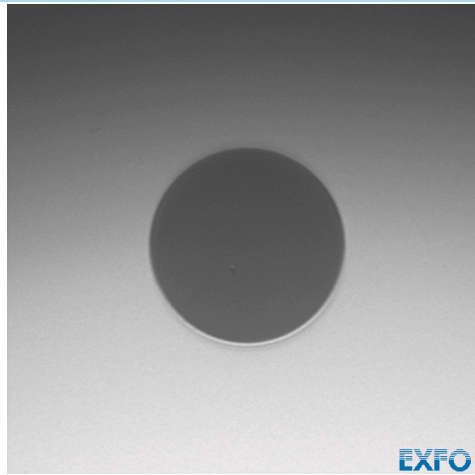
## Identifiers

Cable ID	Fiber ID	Location A	Location B	Connector ID
M2193 to LEMKE VMS	PORT9			

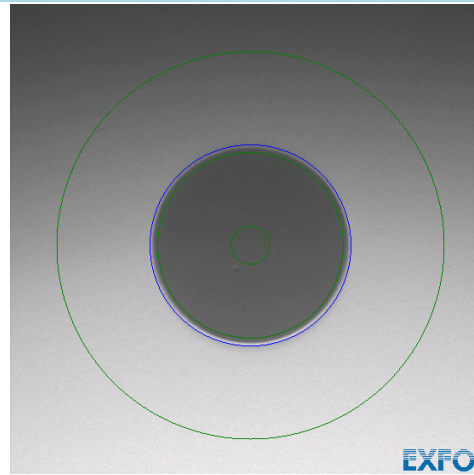
## Test Parameters

Configuration:	IEC SM SF UPC ORL # 45 dB (61300-3-35, 1.0) (Standard)		
Connector type:	Single fiber	Cladding diameter:	125 µm
Fiber type:	Singlemode	Polishing type:	Ultra-polished physical contact
Focus level:	Good	Analysis mode:	Outside plant

## Image(s)



Image



Overlay

## Results

Zones	Zones Diameter (µm)	Scratches			Defects		
		Criteria (µm)	Thresholds	Count	Criteria (µm)	Thresholds	Count
A: Core	0 - 25	0 ≤ size < ∞	0	0	0 ≤ size < ∞	0	0
B: Cladding	25 - 120	0 ≤ size < 3	Any	0	0 ≤ size < 2	Any	0
		3 ≤ size < ∞	0	0	2 ≤ size < 5	5	0
					5 ≤ size < ∞	0	0
C: Adhesive	120 - 130	---	---	---	---	---	
D: Contact	130 - 250	0 ≤ size < ∞	Any	0	0 ≤ size < 10	Any	0
					10 ≤ size < ∞	0	0

## General Information

Filename:	M2193 to LEMKE VMS_PORT10.pdf	Inspection date:	12-Feb-19 2:42 PM
Analysis version:	1.8.0.0	Analysis date:	12-Feb-19 2:43 PM
Job ID:	M2193 to LEMKE VMS	Customer:	TMR
Company:	MI ELECTRIC	Frame:	
Comments:			

## Locations

	Location A	Location B
Operator	h.4 Part 4 s.6 Perso	
Platform S/N	1048909	

## FIP Information

Info.	Value
Model	FIP-435B
Serial number	995484
Firmware version	6.4.0.26

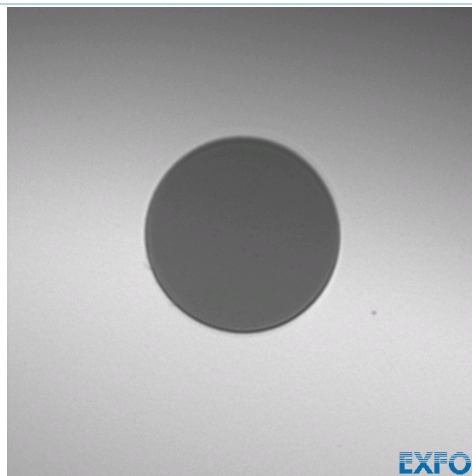
## Identifiers

Cable ID	Fiber ID	Location A	Location B	Connector ID
M2193 to LEMKE VMS	PORT10			

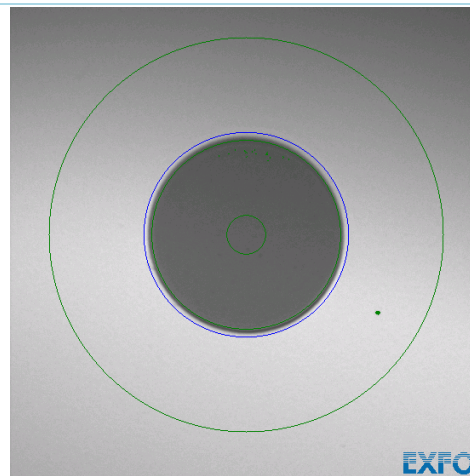
## Test Parameters

Configuration:	IEC SM SF UPC ORL # 45 dB (61300-3-35, 1.0) (Standard)		
Connector type:	Single fiber	Cladding diameter:	125 µm
Fiber type:	Singlemode	Polishing type:	Ultra-polished physical contact
Focus level:	Good	Analysis mode:	Outside plant

## Image(s)



Image



Overlay

## Results

Zones	Zones Diameter (µm)	Scratches			Defects		
		Criteria (µm)	Thresholds	Count	Criteria (µm)	Thresholds	Count
A: Core	0 - 25	0 ≤ size < ∞	0	0	0 ≤ size < ∞	0	0
B: Cladding	25 - 120	0 ≤ size < 3	Any	0	0 ≤ size < 2	Any	12
		3 ≤ size < ∞	0	0	2 ≤ size < 5	5	1
					5 ≤ size < ∞	0	0
C: Adhesive	120 - 130	---	---	---	---	---	
D: Contact	130 - 250	0 ≤ size < ∞	Any	0	0 ≤ size < 10	Any	1
					10 ≤ size < ∞	0	0

## General Information

Filename:	M2193 to LEMKE VMS_PORT11.pdf	Inspection date:	12-Feb-19 2:44 PM
Analysis version:	1.8.0.0	Analysis date:	12-Feb-19 2:44 PM
Job ID:	M2193 to LEMKE VMS	Customer:	TMR
Company:	MI ELECTRIC	Frame:	
Comments:			

## Locations

	Location A	Location B
Operator	h.4 Part 4 s.6 Perso	
Platform S/N	1048909	

## FIP Information

Info.	Value
Model	FIP-435B
Serial number	995484
Firmware version	6.4.0.26

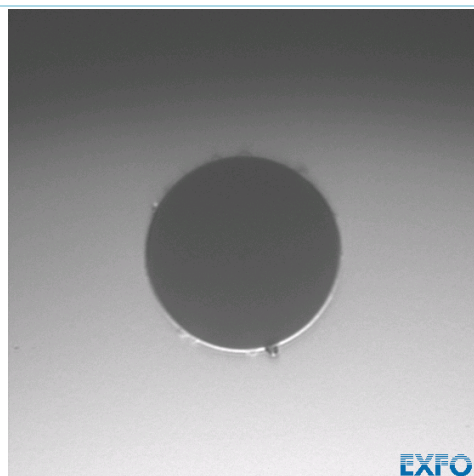
## Identifiers

Cable ID	Fiber ID	Location A	Location B	Connector ID
M2193 to LEMKE VMS	PORT11			

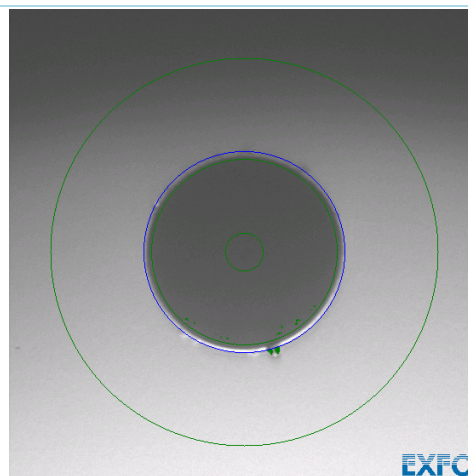
## Test Parameters

Configuration:	IEC SM SF UPC ORL # 45 dB (61300-3-35, 1.0) (Standard)		
Connector type:	Single fiber	Cladding diameter:	125 µm
Fiber type:	Singlemode	Polishing type:	Ultra-polished physical contact
Focus level:	Good	Analysis mode:	Outside plant

## Image(s)



Image



Overlay

## Results

Zones	Zones Diameter (µm)	Scratches			Defects		
		Criteria (µm)	Thresholds	Count	Criteria (µm)	Thresholds	Count
A: Core	0 - 25	0 ≤ size < ∞	0	0	0 ≤ size < ∞	0	0
B: Cladding	25 - 120	0 ≤ size < 3	Any	0	0 ≤ size < 2	Any	6
		3 ≤ size < ∞	0	0	2 ≤ size < 5	5	3
					5 ≤ size < ∞	0	0
C: Adhesive	120 - 130	---	---	---	---	---	
D: Contact	130 - 250	0 ≤ size < ∞	Any	0	0 ≤ size < 10	Any	2
					10 ≤ size < ∞	0	0

## General Information

Filename:	M2193 to LEMKE VMS_PORT12.pdf	Inspection date:	12-Feb-19 2:44 PM
Analysis version:	1.8.0.0	Analysis date:	12-Feb-19 2:44 PM
Job ID:	M2193 to LEMKE VMS	Customer:	TMR
Company:	MI ELECTRIC	Frame:	
Comments:			

## Locations

	Location A	Location B
Operator	ch.4 Part 4 s.6 Perso	
Platform S/N	1048909	

## FIP Information

Info.	Value
Model	FIP-435B
Serial number	995484
Firmware version	6.4.0.26

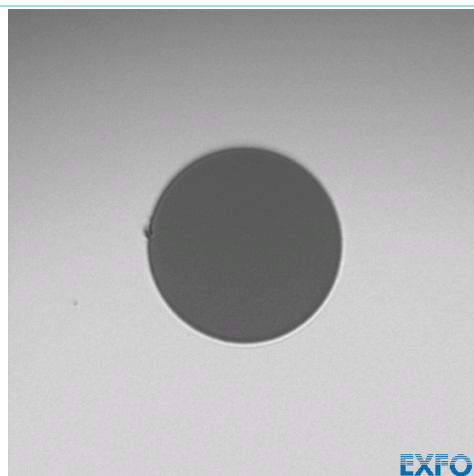
## Identifiers

Cable ID	Fiber ID	Location A	Location B	Connector ID
M2193 to LEMKE VMS	PORT12			

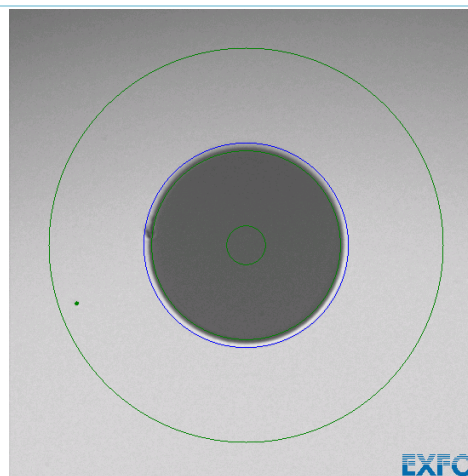
## Test Parameters

Configuration:	IEC SM SF UPC ORL # 45 dB (61300-3-35, 1.0) (Standard)		
Connector type:	Single fiber	Cladding diameter:	125 µm
Fiber type:	Singlemode	Polishing type:	Ultra-polished physical contact
Focus level:	Good	Analysis mode:	Outside plant

## Image(s)



Image



Overlay

## Results

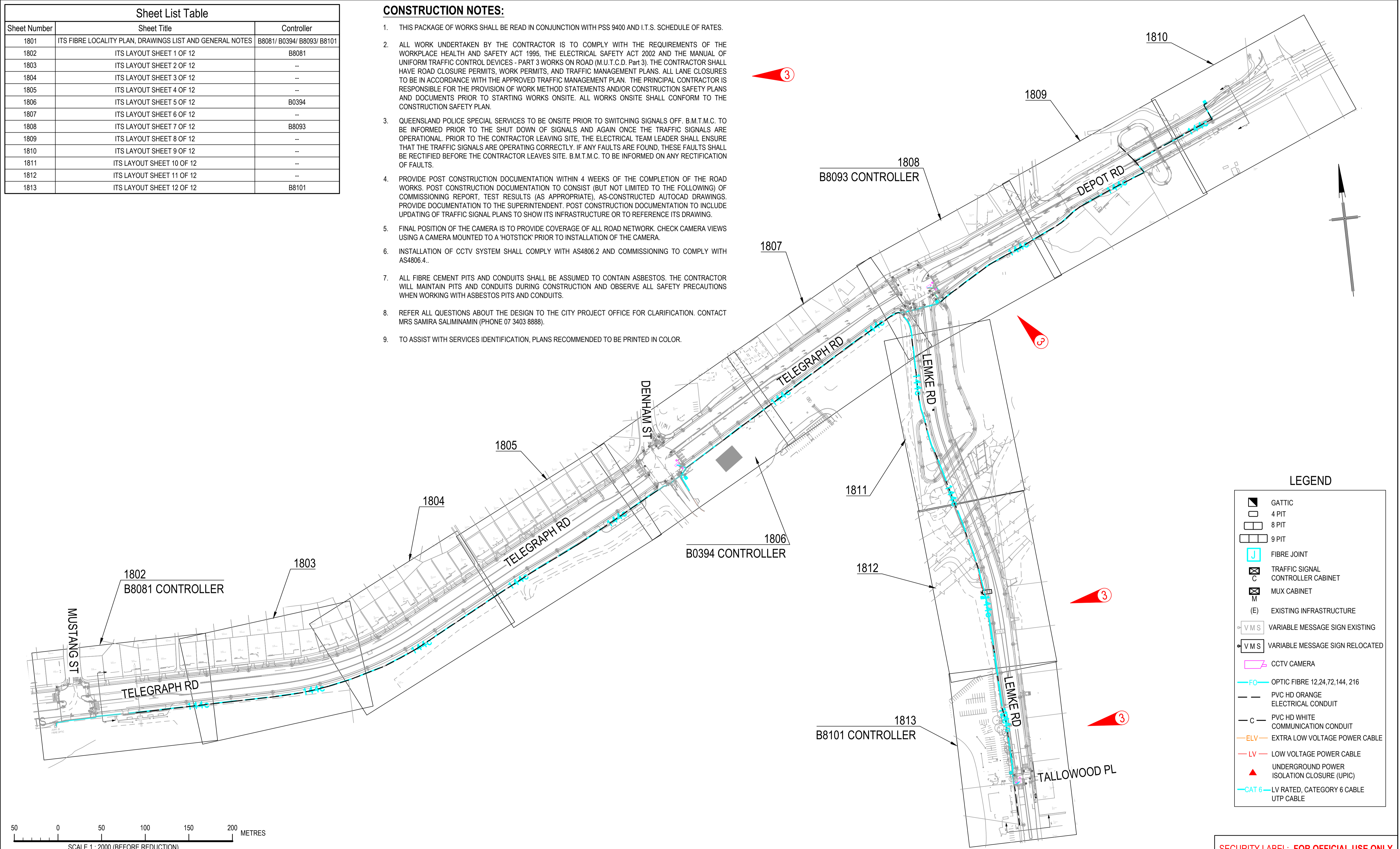
Zones	Zones Diameter (µm)	Scratches			Defects		
		Criteria (µm)	Thresholds	Count	Criteria (µm)	Thresholds	Count
A: Core	0 - 25	0 ≤ size < ∞	0	0	0 ≤ size < ∞	0	0
B: Cladding	25 - 120	0 ≤ size < 3	Any	0	0 ≤ size < 2	Any	0
		3 ≤ size < ∞	0	0	2 ≤ size < 5	5	0
					5 ≤ size < ∞	0	0
C: Adhesive	120 - 130	---	---	---	---	---	
D: Contact	130 - 250	0 ≤ size < ∞	Any	0	0 ≤ size < 10	Any	1
					10 ≤ size < ∞	0	0



Sheet List Table		
Sheet Number	Sheet Title	Controller
1801	ITS FIBRE LOCALITY PLAN, DRAWINGS LIST AND GENERAL NOTES	B8081/ B0394/ B8093/ B8101
1802	ITS LAYOUT SHEET 1 OF 12	B8081
1803	ITS LAYOUT SHEET 2 OF 12	--
1804	ITS LAYOUT SHEET 3 OF 12	--
1805	ITS LAYOUT SHEET 4 OF 12	--
1806	ITS LAYOUT SHEET 5 OF 12	B0394
1807	ITS LAYOUT SHEET 6 OF 12	--
1808	ITS LAYOUT SHEET 7 OF 12	B8093
1809	ITS LAYOUT SHEET 8 OF 12	--
1810	ITS LAYOUT SHEET 9 OF 12	--
1811	ITS LAYOUT SHEET 10 OF 12	--
1812	ITS LAYOUT SHEET 11 OF 12	--
1813	ITS LAYOUT SHEET 12 OF 12	B8101

**CONSTRUCTION NOTES:**

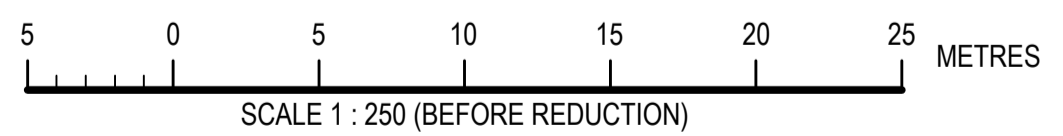
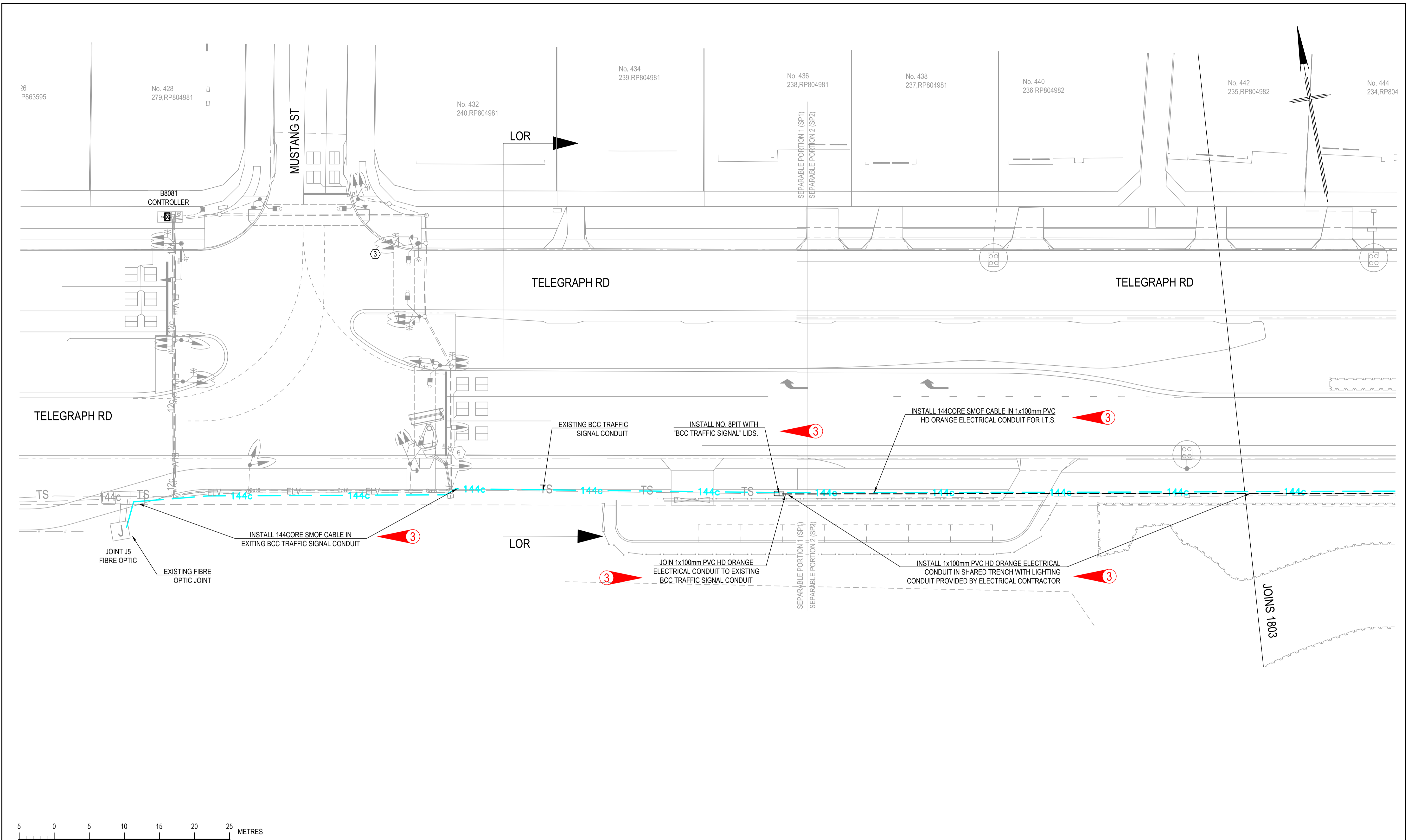
- THIS PACKAGE OF WORKS SHALL BE READ IN CONJUNCTION WITH PSS 9400 AND I.T.S. SCHEDULE OF RATES.
- ALL WORK UNDERTAKEN BY THE CONTRACTOR IS TO COMPLY WITH THE REQUIREMENTS OF THE WORKPLACE HEALTH AND SAFETY ACT 1995, THE ELECTRICAL SAFETY ACT 2002 AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART 3 WORKS ON ROAD (M.U.T.C.D. Part 3). THE CONTRACTOR SHALL HAVE ROAD CLOSURE PERMITS, WORK PERMITS, AND TRAFFIC MANAGEMENT PLANS. ALL LANE CLOSURES TO BE IN ACCORDANCE WITH THE APPROVED TRAFFIC MANAGEMENT PLAN. THE PRINCIPAL CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF WORK METHOD STATEMENTS AND/OR CONSTRUCTION SAFETY PLANS AND DOCUMENTS PRIOR TO STARTING WORKS ONSITE. ALL WORKS ONSITE SHALL CONFORM TO THE CONSTRUCTION SAFETY PLAN.
- QUEENSLAND POLICE SPECIAL SERVICES TO BE ONSITE PRIOR TO SWITCHING SIGNALS OFF. B.M.T.M.C. TO BE INFORMED PRIOR TO THE SHUT DOWN OF SIGNALS AND AGAIN ONCE THE TRAFFIC SIGNALS ARE OPERATIONAL. PRIOR TO THE CONTRACTOR LEAVING SITE, THE ELECTRICAL TEAM LEADER SHALL ENSURE THAT THE TRAFFIC SIGNALS ARE OPERATING CORRECTLY. IF ANY FAULTS ARE FOUND, THESE FAULTS SHALL BE RECTIFIED BEFORE THE CONTRACTOR LEAVES SITE. B.M.T.M.C. TO BE INFORMED ON ANY RECTIFICATION OF FAULTS.
- PROVIDE POST CONSTRUCTION DOCUMENTATION WITHIN 4 WEEKS OF THE COMPLETION OF THE ROAD WORKS. POST CONSTRUCTION DOCUMENTATION TO CONSIST (BUT NOT LIMITED TO THE FOLLOWING) OF COMMISSIONING REPORT, TEST RESULTS (AS APPROPRIATE), AS-CONSTRUCTED AUTOCAD DRAWINGS, PROVIDE DOCUMENTATION TO THE SUPERINTENDENT. POST CONSTRUCTION DOCUMENTATION TO INCLUDE UPDATING OF TRAFFIC SIGNAL PLANS TO SHOW ITS INFRASTRUCTURE OR TO REFERENCE ITS DRAWING.
- FINAL POSITION OF THE CAMERA IS TO PROVIDE COVERAGE OF ALL ROAD NETWORK. CHECK CAMERA VIEWS USING A CAMERA MOUNTED TO A 'HOTSTICK' PRIOR TO INSTALLATION OF THE CAMERA.
- INSTALLATION OF CCTV SYSTEM SHALL COMPLY WITH AS4806.2 AND COMMISSIONING TO COMPLY WITH AS4806.4.
- ALL FIBRE CEMENT PITS AND CONDUITS SHALL BE ASSUMED TO CONTAIN ASBESTOS. THE CONTRACTOR WILL MAINTAIN PITS AND CONDUITS DURING CONSTRUCTION AND OBSERVE ALL SAFETY PRECAUTIONS WHEN WORKING WITH ASBESTOS PITS AND CONDUITS.
- REFER ALL QUESTIONS ABOUT THE DESIGN TO THE CITY PROJECT OFFICE FOR CLARIFICATION. CONTACT MRS SAMIRA SALIMINAMIN (PHONE 07 3403 8888).
- TO ASSIST WITH SERVICES IDENTIFICATION, PLANS RECOMMENDED TO BE PRINTED IN COLOR.



LEGEND	
	GATTIC
	4 PIT
	8 PIT
	9 PIT
	FIBRE JOINT
	TRAFFIC SIGNAL CONTROLLER CABINET
	MUX CABINET
	(E) EXISTING INFRASTRUCTURE
	V M S VARIABLE MESSAGE SIGN EXISTING
	V M S VARIABLE MESSAGE SIGN RELOCATED
	CCTV CAMERA
	OPTIC FIBRE 12,24,72,144, 216
	PVC HD ORANGE ELECTRICAL CONDUIT
	PVC HD WHITE COMMUNICATION CONDUIT
	ELV EXTRA LOW VOLTAGE POWER CABLE
	LV LOW VOLTAGE POWER CABLE
	UNDERGROUND POWER ISOLATION CLOSURE (UPIC)
	LV RATED, CATEGORY 6 CABLE UTP CABLE

<b>City Projects Office</b> Brisbane City Council Mailing Address: GPO Box 1434 Brisbane Qld 4001 Green Square South Tower 505 St. Paul's Terrace Fortitude Valley, Q 4006 Telephone: 07-3027 4749 Facsimile: 07-3334 0225 e-mail: cityprojects@brisbane.qld.gov.au	ISSUE 1 TENDER ISSUE FOR CONSTRUCTION 2 3 UPDATED TRAFFIC SIGNALS & NEW CAMERAS ADDED NOTES	DATE 26/10/16 DATE 21/02/17 DATE 08/08/17	DRAWN TA TA TA AUTH. DK 28/10/16 DK 10/03/17 TA ISSUE 	DESCRIPTION TELEGRAPH RD CORRIDOR UPGRADE STAGE 2 MUSTANG ST TO GATEWAY RAMPS & LEMKE RD	DATE DRAWN AUTH.	PROJECT TELEGRAPH RD CORRIDOR UPGRADE STAGE 2 MUSTANG ST TO GATEWAY RAMPS & LEMKE RD	TITLE ITS FIBRE LOCALITY PLAN, DRAWINGS LIST AND GENERAL NOTES	SITE NO: B8081/ B0394/ B8093/ B8101	SECURITY LABEL: <b>FOR OFFICIAL USE ONLY</b>
	DESIGN D.K. DATE OCT'16 DRAWN T.A. DATE OCT'16 AUTHORIZED FOR ISSUE D. KRONING RPEQ 8532 PROJECT NUMBER / SHEET 160311 / 1801	DESIGN CHECK S.S. DATE OCT'16 DRAWING CHECK S.S. DATE OCT'16 REFERENCE NO. SCALE 1:2000 ORG. SIZE A1 ISSUE 3							





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 Facsimile: 07-3334 0225  
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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	TENDER ISSUE	26/10/16	TA	DK	DK 28/10/16				
2	FOR CONSTRUCTION	21/02/17	TA	DK	DK 10/03/17				
3	CHANGED NOTES	08/08/17	TA	SPK					

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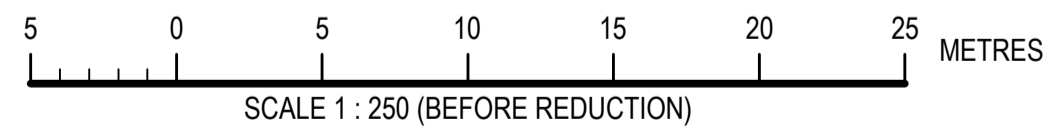
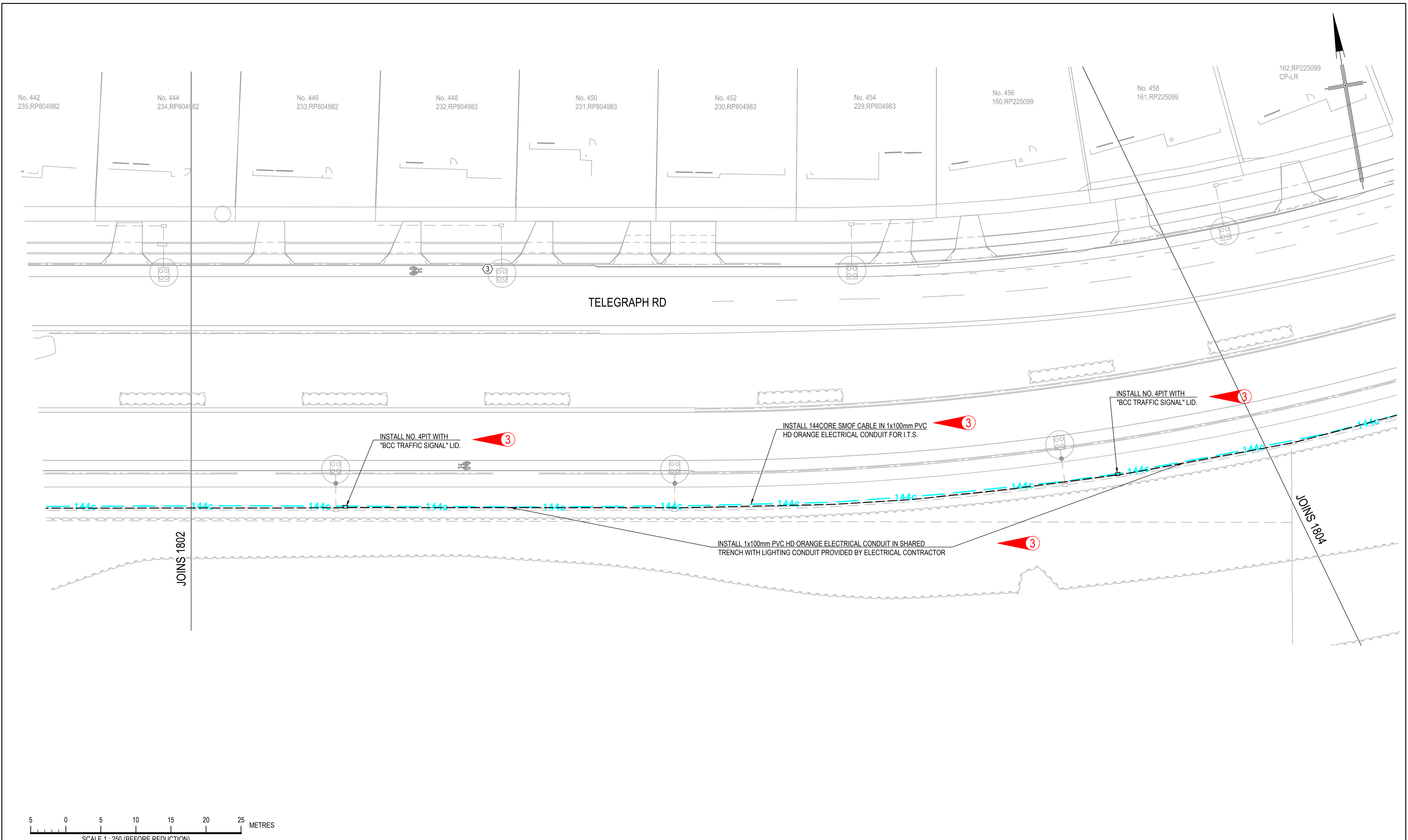
Based on Data provided with permission of the Department of Environment and Resource Management (DERM) - Cadastral Data.

DESIGN ACCEPTED

**TELEGRAPH RD CORRIDOR UPGRADE STAGE 2 MUSTANG ST TO GATEWAY RAMPS & LEMKE RD**

**ITS LAYOUT SHEET 1 OF 12**  
 Site No: B8081

<b>SECURITY LABEL: FOR OFFICIAL USE ONLY</b>			
DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT16	SS	OCT16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT16	SS	OCT16
A		REFERENCE NO.	
D. KRONING_RPFO.8552		SCALE	1:250
PROJECT NUMBER / SHEET		ISSUE	A1
160311 / 1802		ISSUE	3



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 Green Square  
 South Tower  
 505 St. Paul's Terrace  
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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	TENDER ISSUE	26/10/16	TA	DK 28/10/16					
2	FOR CONSTRUCTION	21/02/17	TA	DK 10/03/17					
3	CHANGED NOTES	08/08/17	TA	<i>BRK</i>					

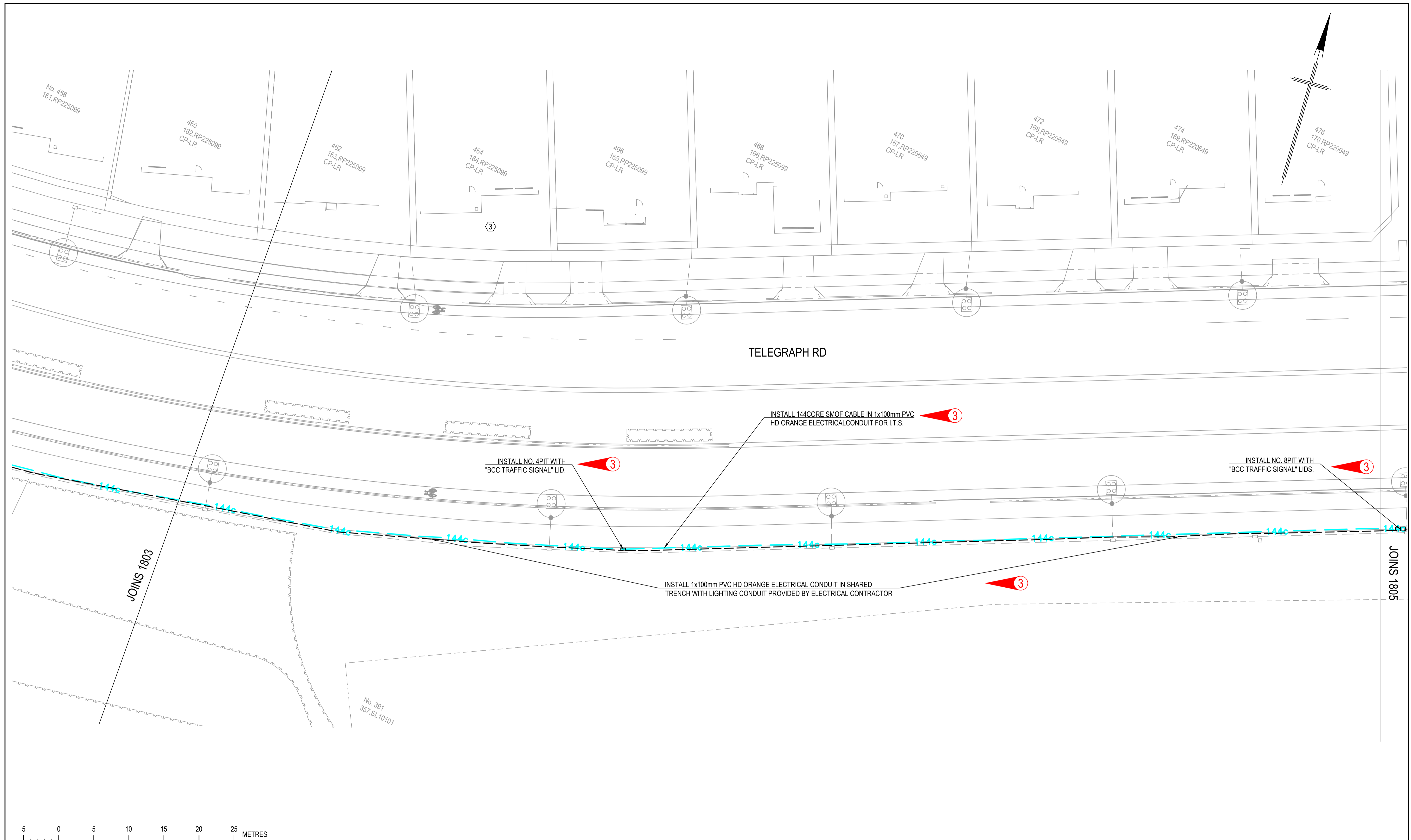
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 Based on Data provided with permission of the Department of Environment and Resource Management (DERM) - Cadastral Data.  
 DIGITAL GLOBE, QASCO, FUERO, webmap  
 DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

TITLE  
**ITS LAYOUT  
 SHEET 2 OF 12**  
 Site No: ----

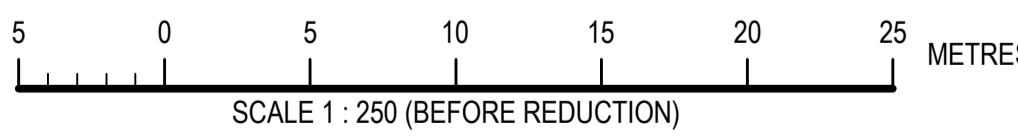
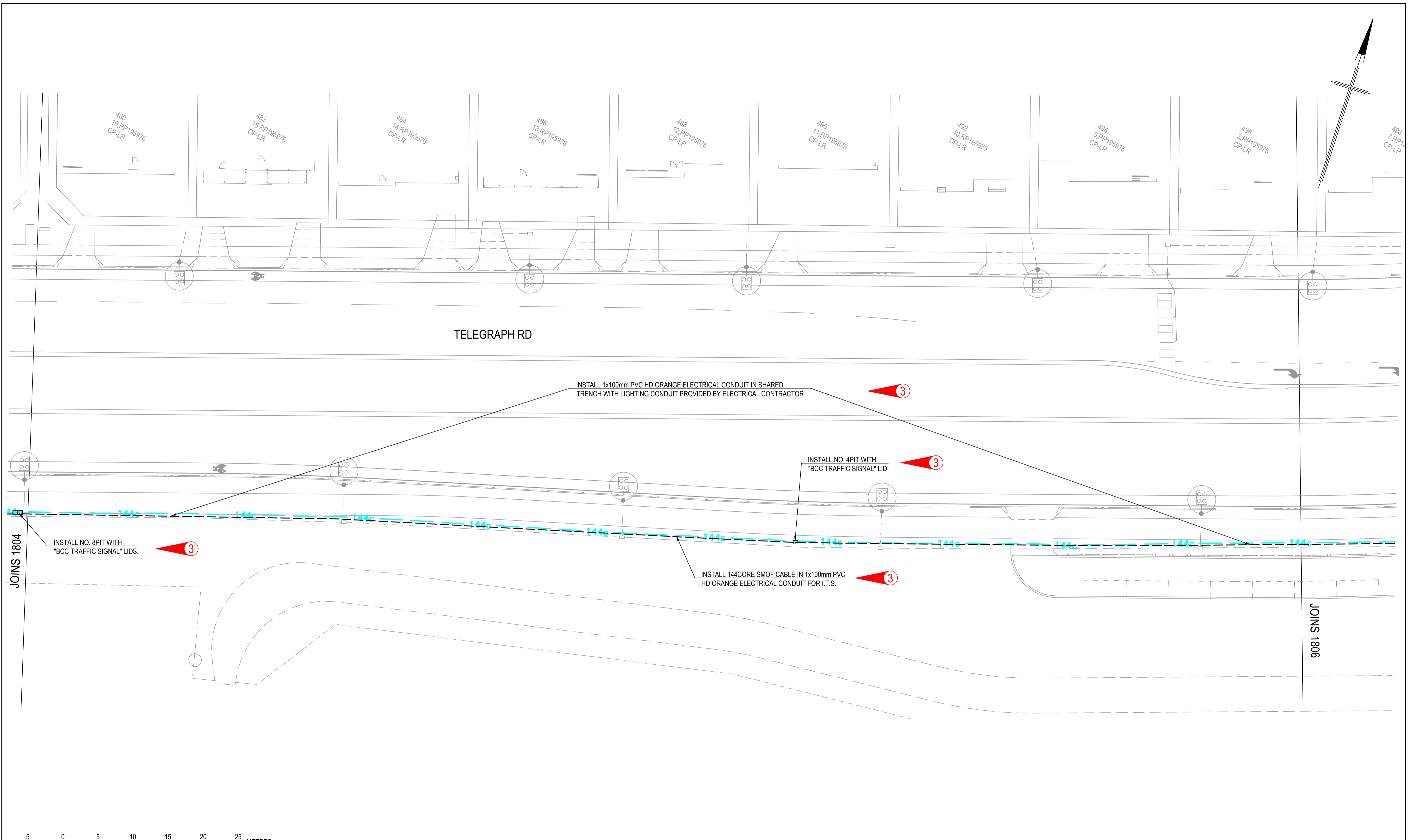
<b>SECURITY LABEL: FOR OFFICIAL USE ONLY</b>			
DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT16	SS	OCT16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT16	SS	OCT16
AUTHORISED FOR ISSUE	REFERENCE NO.		ORIG. SIZE
<i>Skroy</i>	D-KRONING RPEQ 8552		A1
PROJECT NUMBER / SHEET	SCALE	ISSUE	
160311 / 1803	1:250	3	





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<b>City Projects Office</b> Brisbane City Council Green Square South Tower 505 St. Paul's Terrace Fortitude Valley, Q 4006 Telephone: 07-3027 4749 Facsimile: 07-3334 0225 e-mail: cityprojects@brisbane.qld.gov.au	ISSUE 1	DESCRIPTION TENDER ISSUE	DATE 26/10/16	DRAWN TA	AUTH DK 28/10/16	DESCRIPTION	DATE	DRAWN TA	AUTH	IMAGERY AND CADASTRAL DATA DISCLAIMER While every care is taken by Brisbane City Council (BCC) and the Department of Environment and Resource Management (DERM) to ensure the accuracy of the data supplied by BCC and DERM, BCC and DERM jointly and severally make no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaim all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which may be incurred as a result of data being inaccurate or incomplete in any way and for any reason. Based on Data provided with permission of the Department of Environment and Resource Management (DERM) - Cadastral Data. DIGITAL GLOBE, QASCO, FUERO, webmap	PROJECT	TITLE	DESIGN DATE: OCT16 DESIGN CHECK DATE: OCT16 DRAWN DATE: OCT16 DRAWING CHECK DATE: OCT16 AUTHORIZED FOR ISSUE: <i>[Signature]</i> REFERENCE NO.: D. KRONING RPEQ 8532 CALE 1:250 ORG. SIZE A1 PROJECT NUMBER / SHEET: 160311 / 1804 ISSUE: 3
	ISSUE 2	FOR CONSTRUCTION	21/02/17	TA	DK 10/03/17					TELEGRAPH RD CORRIDOR UPGRADE STAGE 2 MUSTANG ST TO GATEWAY RAMPS & LEMKE RD	ITS LAYOUT SHEET 3 OF 12	Site No: ----	
	ISSUE 3	CHANGED NOTES	08/08/17	TA	<i>[Signature]</i>					DESIGN ACCEPTED			



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 Mailing Address: GPO Box 1434, Brisbane Qld 4001  
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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION
1	TENDER ISSUE	26/10/16	TA	DK 26/10/16		
2	FOR CONSTRUCTION	21/02/17	TA	DK 10/03/17		
3	CHANGED NOTES	08/08/17	TA	<i>SPK</i>		

DATE	DRAWN	AUTH.

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DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

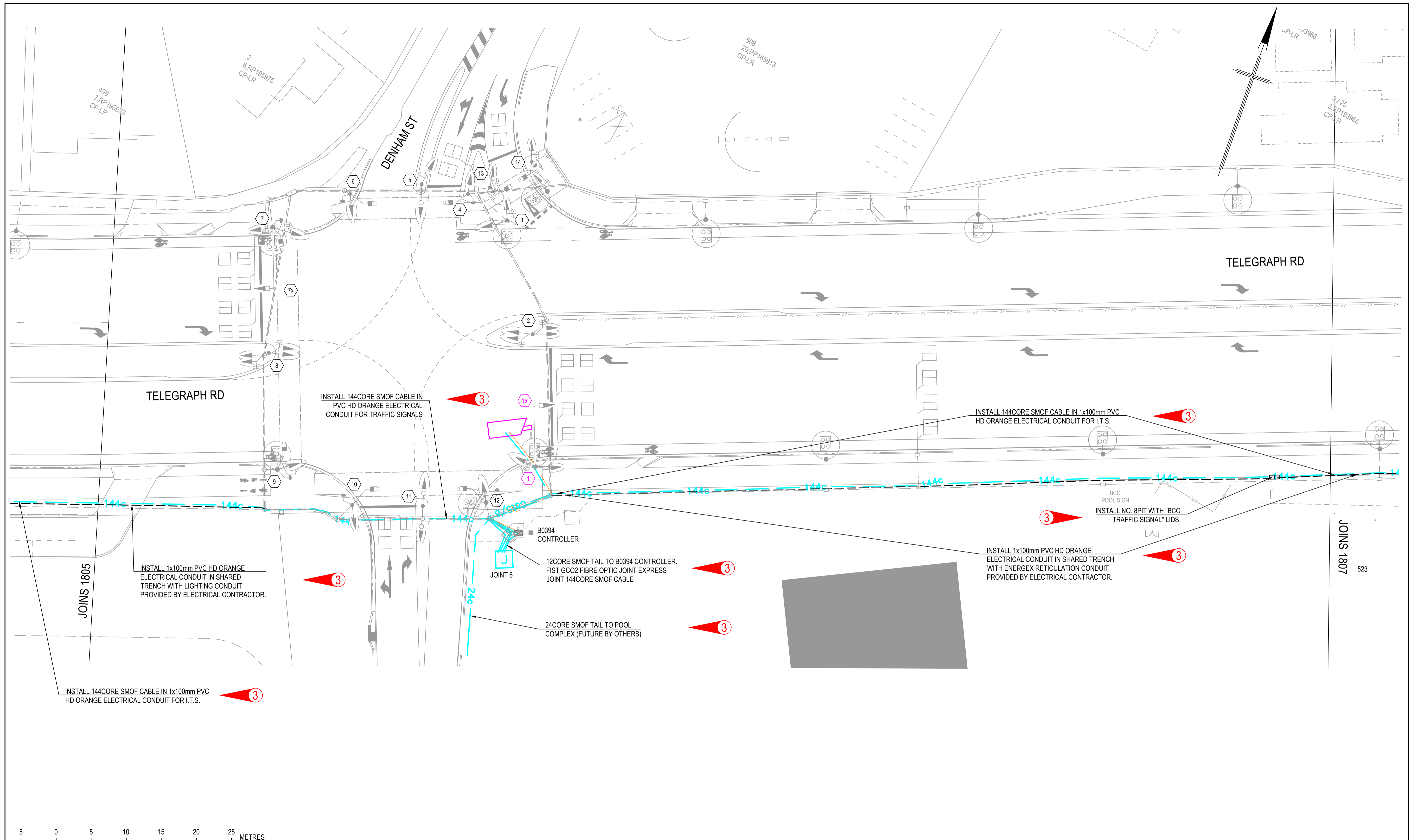
TITLE  
**ITS LAYOUT  
 SHEET 4 OF 12**

Site No: ----

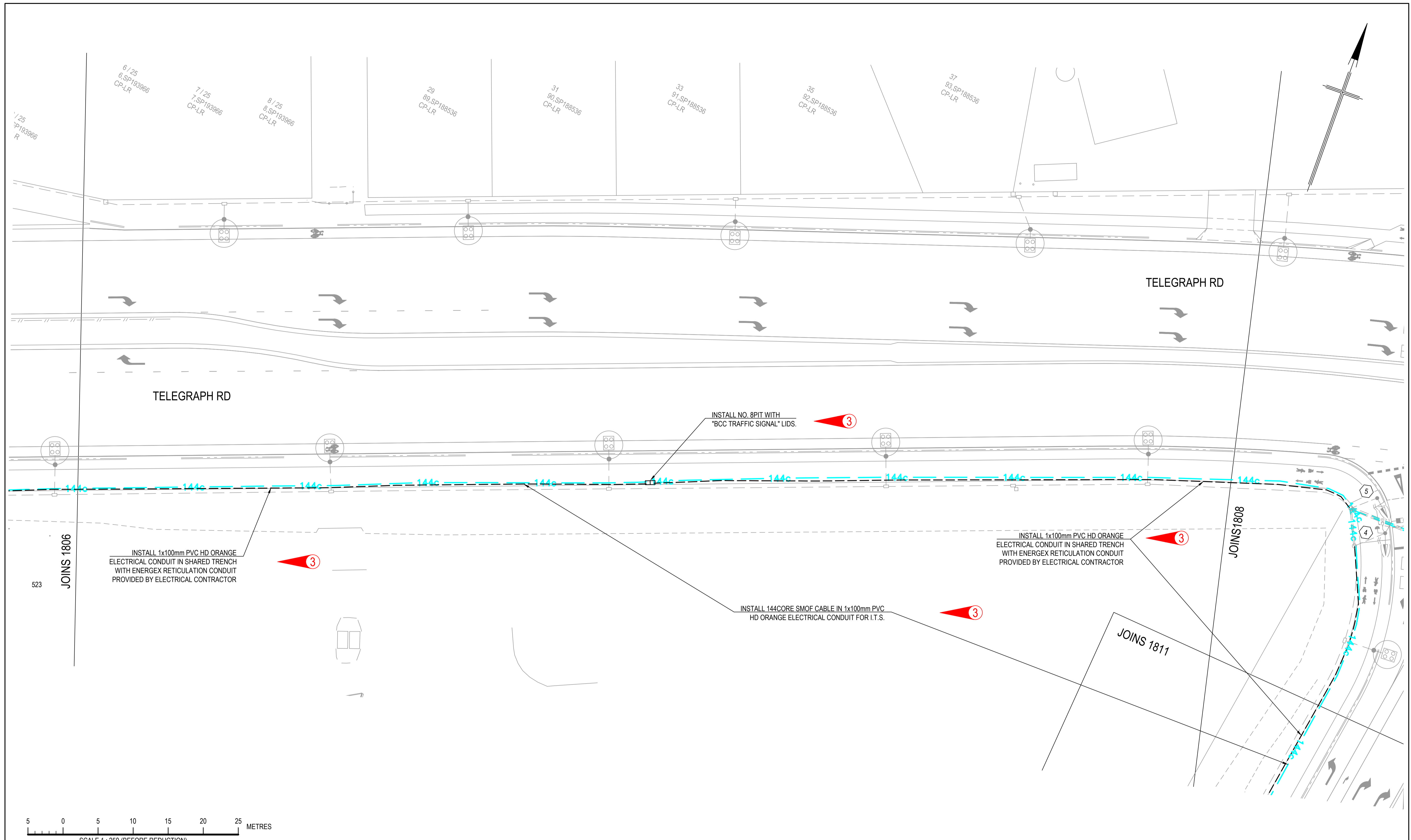
**SECURITY LABEL: FOR OFFICIAL USE ONLY**

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT16	SS	OCT16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT16	SS	OCT16
AUTHORISED FOR ISSUE	REFERENCE NO.	SCALE	ORIG. SIZE
<i>[Signature]</i>	160311 / 1805	1:250	A1
PROJECT NUMBER / SHEET	ISSUE		
160311 / 1805	3		





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<b>DESIGN</b> DATE OCT16 SS DATE OCT16		<b>DESIGN CHECK</b> DATE OCT16 SS DATE OCT16		<b>DRAWN</b> DATE OCT16 SS DATE OCT16		<b>DRAWING CHECK</b> DATE OCT16 SS DATE OCT16	
AUTH D. KRONING RPEQ 8552		REFERENCE NO. 200436294		SCALE 1:250		ORG. SIZE A1	
PROJ 160311 / 1806		ISSUE 3					

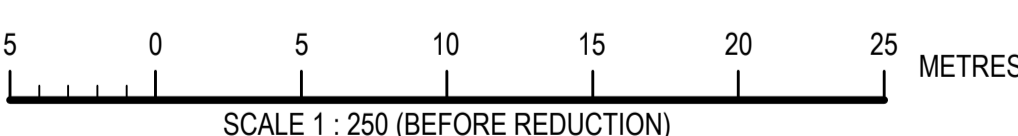
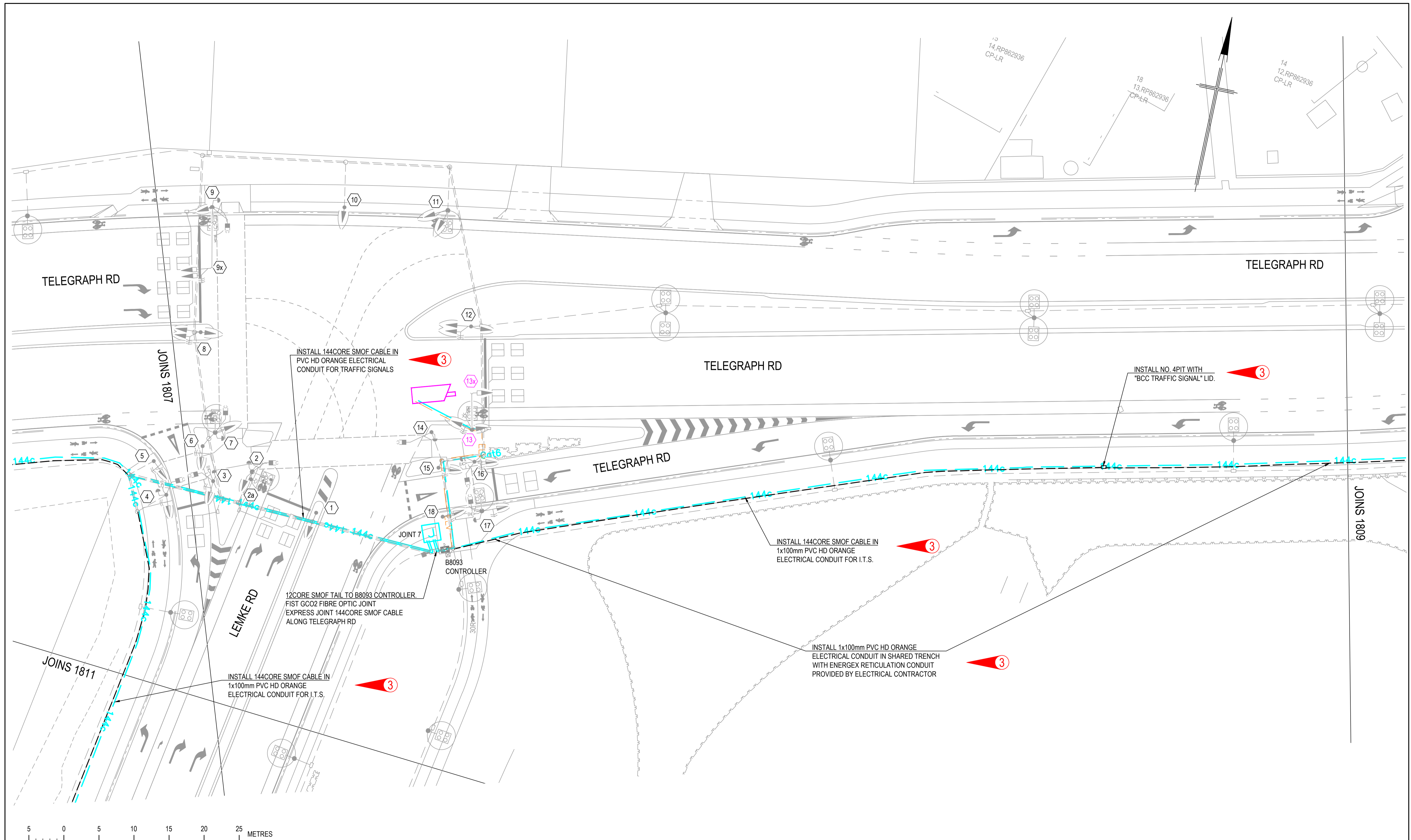


5 0 5 10 15 20 25 METRES  
SCALE 1 : 250 (BEFORE REDUCTION)

SECURITY LABEL: FOR OFFICIAL USE ONLY

<b>City Projects Office</b> Brisbane City Council Green Square South Tower 505 St. Paul's Terrace Fortitude Valley, Q 4006 Telephone: 07-3027 4749 Facsimile: 07-3334 0225 e-mail: cityprojects@brisbane.qld.gov.au	ISSUE 1	DESCRIPTION TENDER ISSUE	DATE 26/10/16	DRAWN TA	AUTH DK 26/10/16	DESCRIPTION	DATE	DRAWN	AUTH	<small>MANAGEMENT AND CADASTRAL DATA DISCLAIMER</small> <small>While every care is taken by Brisbane City Council (BCC) and the Department of Environment and Resource Management (DERM) to ensure the accuracy of the data supplied by BCC and NRM, BCC and NRM jointly and severally make no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaim all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which may be incurred as a result of data being inaccurate or incomplete in any way and for any reason.</small> <small>Based on Data provided with permission of the Department of Environment and Resource Management (DERM), Cadastal Data.</small> <small>DESIGN ACCEPTED</small>		PROJECT	TITLE	DESIGN DATE: OCT16 DESIGN CHECK DATE: SS OCT16 DRAWN DATE: OCT16 DRAWING CHECK DATE: SS OCT16 AUTHORISE: <i>[Signature]</i> REFERENCE NO.: D. KRONING RPEO 8532 PROJECT NUMBER / SHEET: 160311 / 1807	DESIGN DATE: OCT16 DESIGN CHECK DATE: SS OCT16 DRAWN DATE: OCT16 DRAWING CHECK DATE: SS OCT16 AUTHORISE: <i>[Signature]</i> REFERENCE NO.: D. KRONING RPEO 8532 PROJECT NUMBER / SHEET: 160311 / 1807	TITLE ITS LAYOUT SHEET 6 OF 12 Site No.: ----	SCALE 1:250 ORG. SIZE A1 ISSUE 3
	ISSUE 2	FOR CONSTRUCTION	21/02/17	TA	DK 10/03/17												
	ISSUE 3	CHANGED NOTES	08/08/17	TA	<i>[Signature]</i>												





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 South Tower  
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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH	ISSUE	DESCRIPTION
1	TENDER ISSUE	26/10/16	TA	DK	28/10/16	
2	FOR CONSTRUCTION	21/02/17	TA	DK	10/03/17	
3	UPDATED TRAFFIC SIGNALS. CHANGED NOTES.	08/08/17	TA	BK		

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 DIGITAL GLOBE, QASCO, FUGRO, webmap, nearmap, Brisway

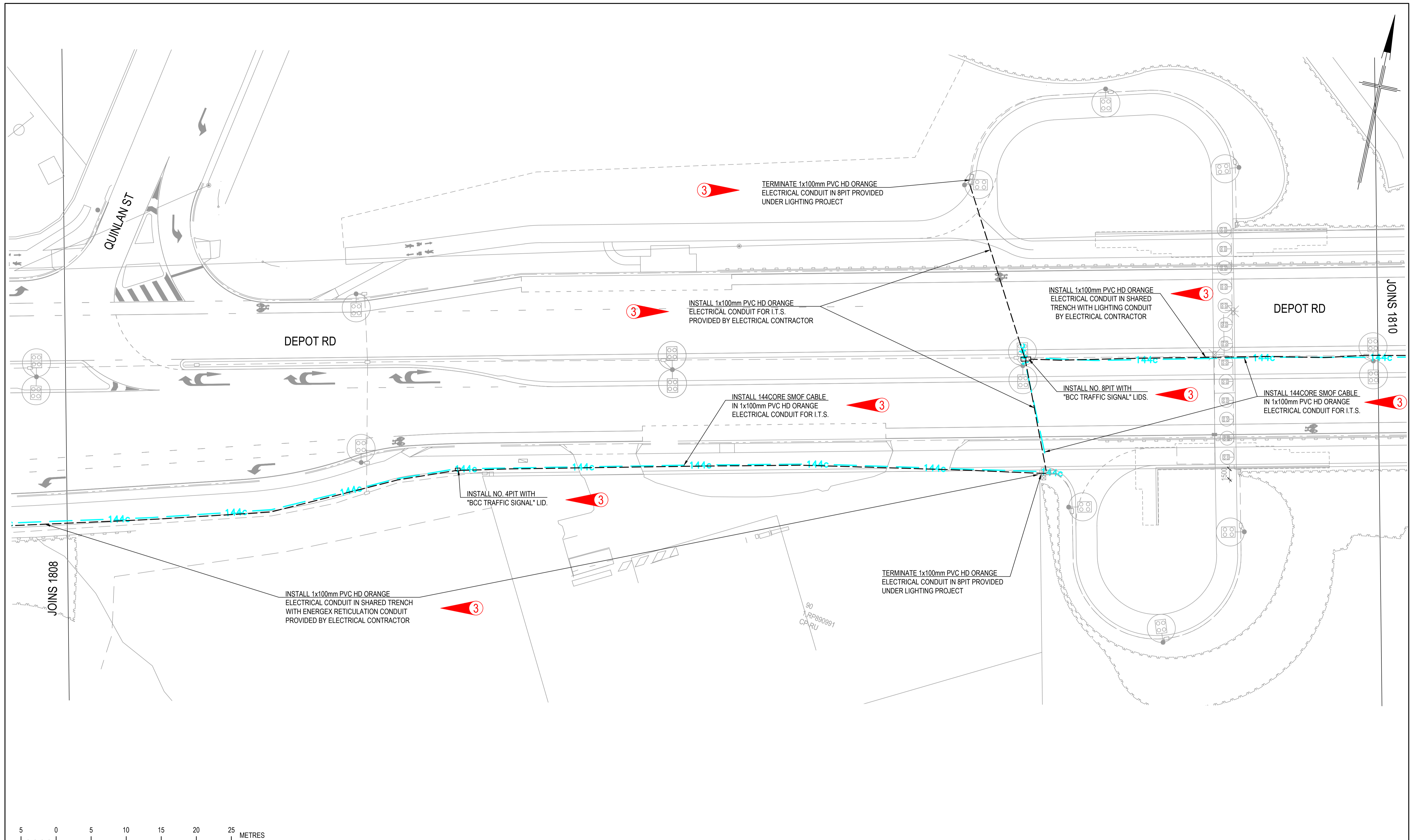
DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

TITLE  
**ITS LAYOUT  
 SHEET 7 OF 12**  
 Site No: B8093

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT16	SS	OCT16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT16	SS	OCT16
AUTHOR	REFERENCE NO.	SCALE	ORIG. SIZE
<i>BK</i>	200436295	1:250	A1
PROJECT NUMBER / SHEET	ISSUE		
160311 / 1808	3		





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 Brisbane City Council

Mailing Address:  
 GPO Box 1434  
 Brisbane Qld 4001

Green Square  
 South Tower  
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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	TENDER ISSUE	26/10/16	TA	DK 26/10/16					
2	FOR CONSTRUCTION	21/02/17	TA	DK 10/03/17					
3	CHANGED NOTES	08/08/17	TA	<i>SK</i>					

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DESIGN ACCEPTED

PROJECT

**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

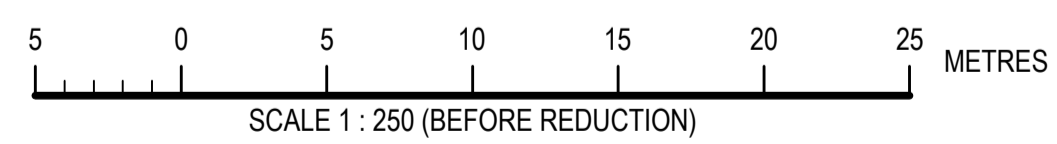
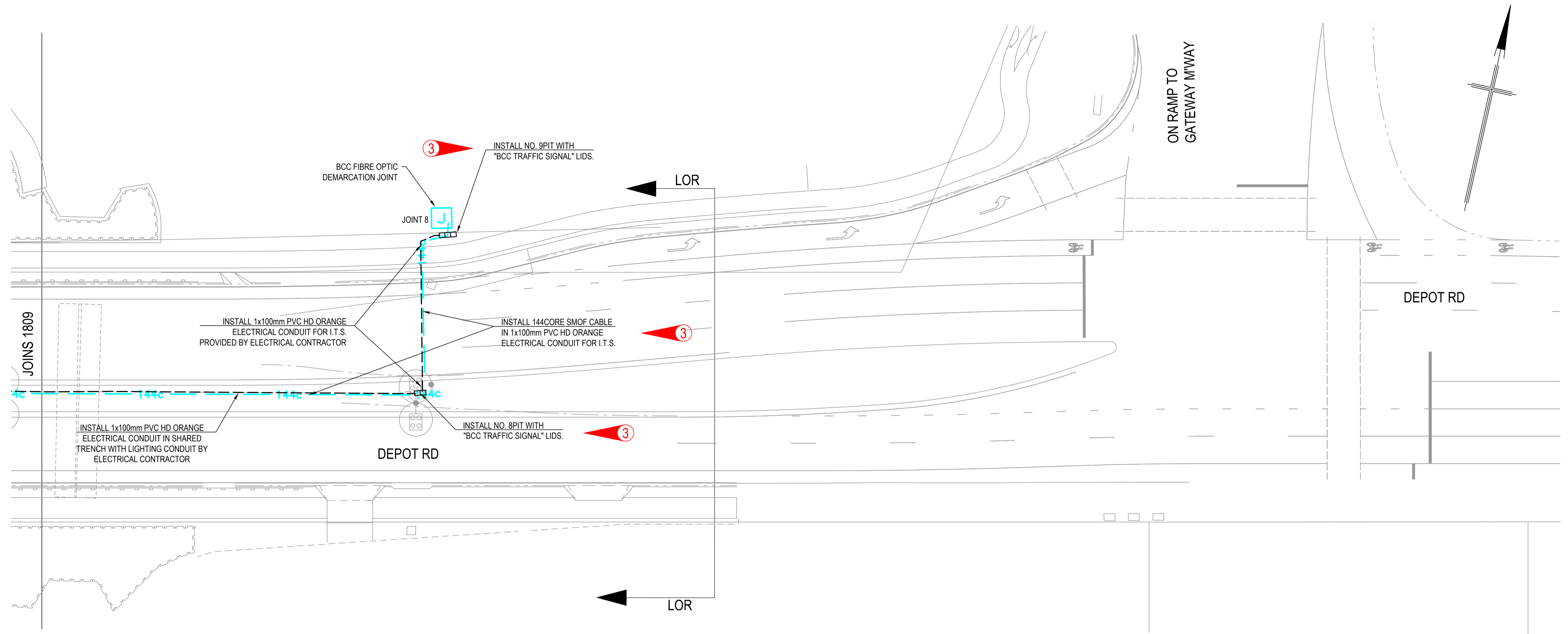
TITLE

**ITS LAYOUT  
 SHEET 8 OF 12**

Site No: ----

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT16	SS	OCT16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT16	SS	OCT16
AUTHORISED FOR ISSUE		REFERENCE NO.	
<i>SK</i>		---	
D. KRONING RPEQ 8552		SCALE	ORIG. SIZE
PROJECT NUMBER / SHEET		1:250	A1
160311 / 1809		ISSUE	3





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 Green Square  
 South Tower  
 505 St. Paul's Terrace  
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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	TENDER ISSUE	26/10/16	TA	DK 26/10/16					
2	FOR CONSTRUCTION	21/02/17	TA	DK 10/03/17					
3	CHANGED NOTES	08/08/17	TA	<i>SPK</i>					

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DESIGN ACCEPTED

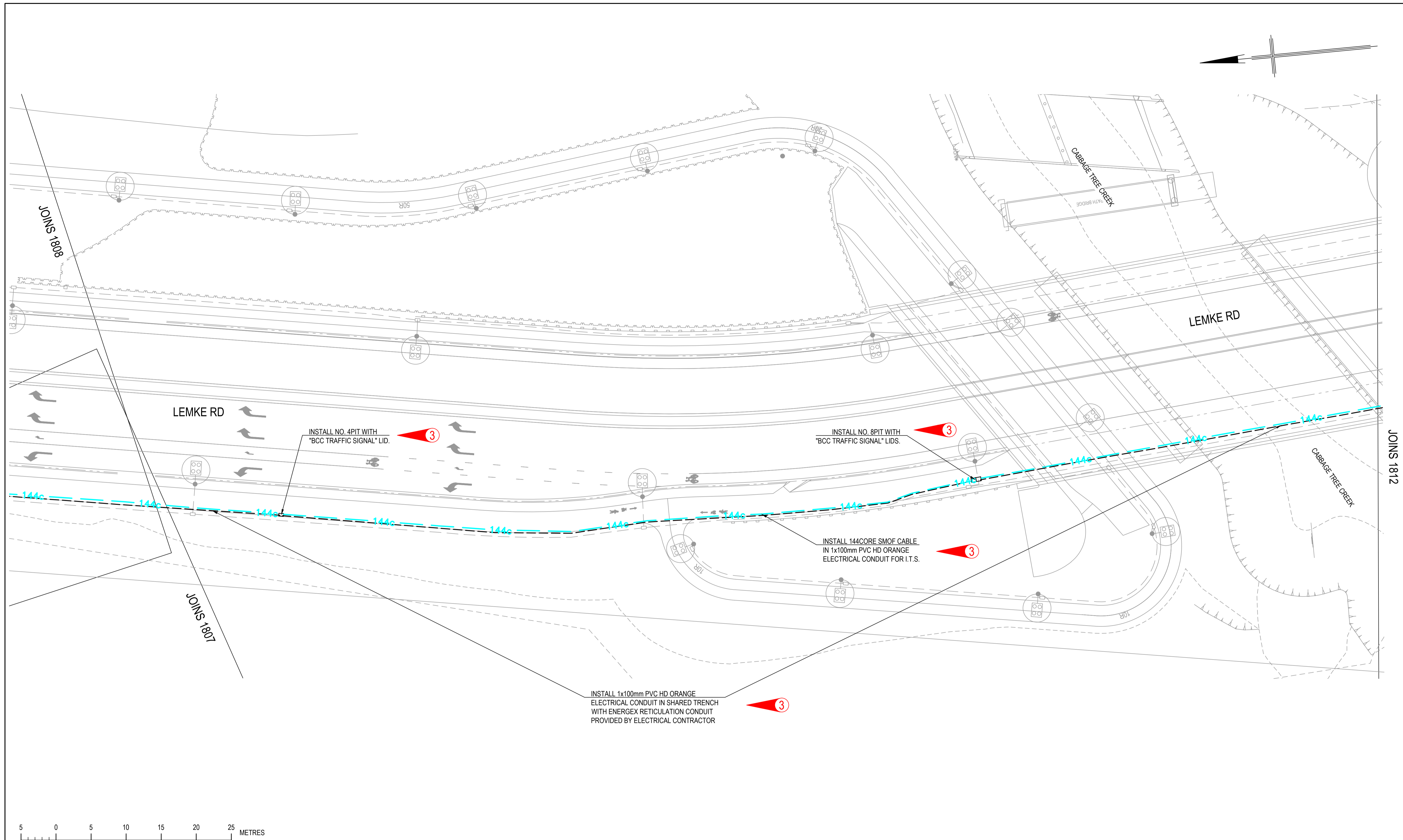
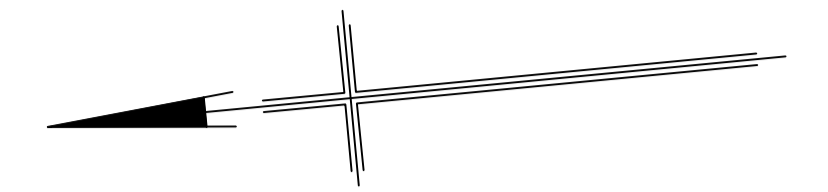
PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

TITLE  
**ITS LAYOUT  
 SHEET 9 OF 12**

Site No: ----

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DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT16	SS	OCT16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT16	SS	OCT16
AUTHO	REFERENCE NO.	SCALE	ORIG. SIZE
<i>D. Kronig</i>	----	1:250	A1
PROJECT NUMBER / SHEET	ISSUE		
160311 / 1810	3		

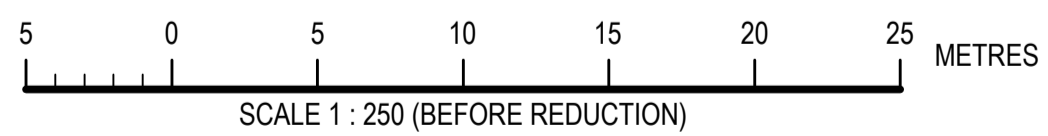
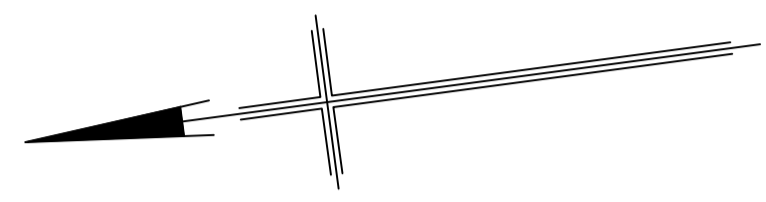
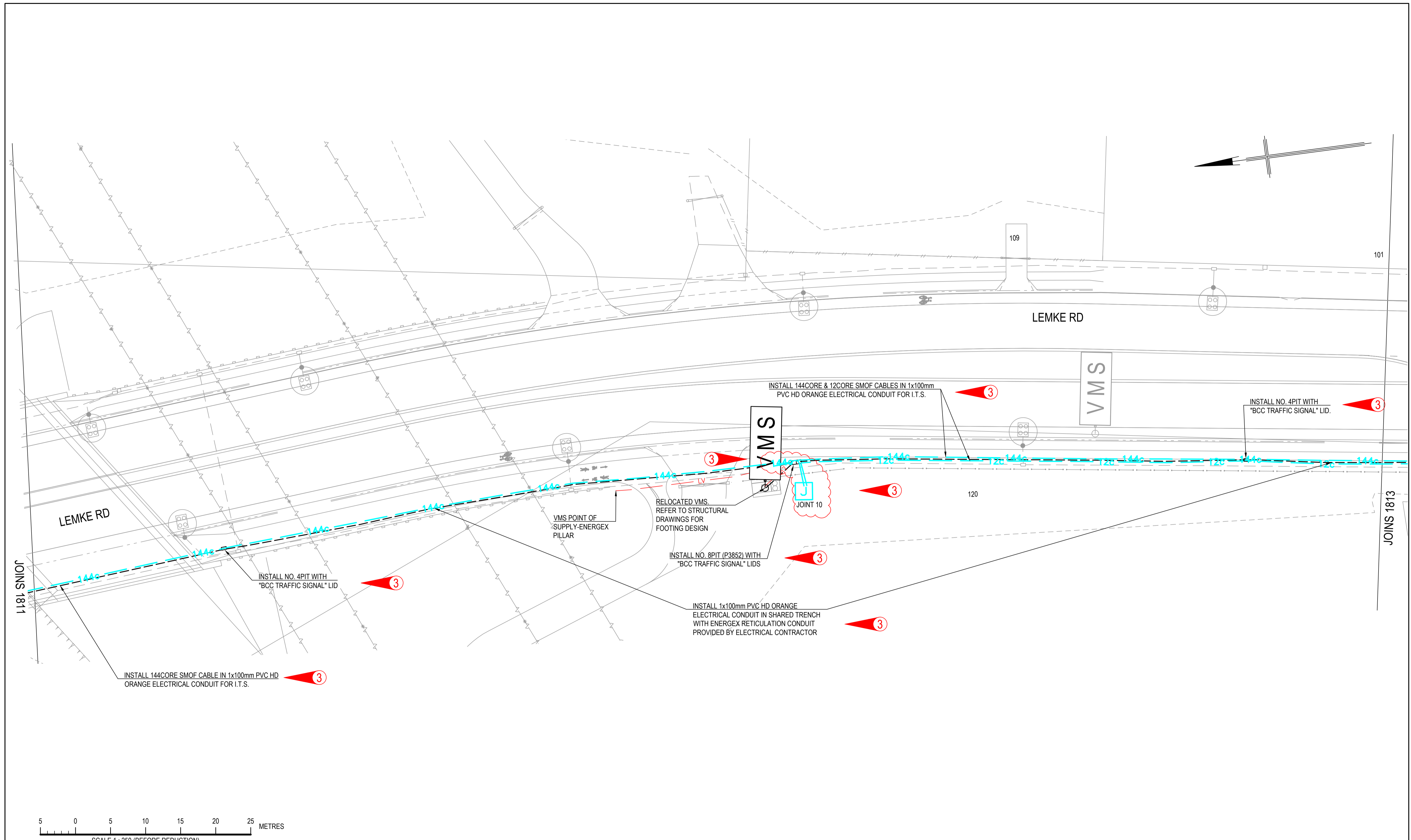


5 0 5 10 15 20 25 METRES  
SCALE 1 : 250 (BEFORE REDUCTION)

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<b>City Projects Office</b> Brisbane City Council Green Square South Tower 505 St. Paul's Terrace Fortitude Valley, Q 4006 Telephone: 07-3027 4749 Facsimile: 07-3334 0225 e-mail: cityprojects@brisbane.qld.gov.au	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	<small>IMAGERY AND CADASTRAL DATA DISCLAIMER</small> While every care is taken by Brisbane City Council (BCC) and the Department of Environment and Resource Management (DERM) to ensure the accuracy of the data supplied by BCC and DERM, BCC and DERM accept no responsibility or liability for any particular purpose and disclaim all responsibility and liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which may be incurred as a result of data being inaccurate or incomplete in any way and for any reason. <small>Based on Data provided with permission of the Department of Environment and Resource Management (DERM) - Cadastral Data.</small> DESIGN ACCEPTED	PROJECT <b>TELEGRAPH RD CORRIDOR UPGRADE - STAGE 2 MUSTANG ST TO GATEWAY RAMPS &amp; LEMKE RD</b>	TITLE <b>ITS LAYOUT SHEET 10 OF 12</b>	DESIGN	DATE	DESIGN CHECK	DATE
	1	TENDER ISSUE	26/10/16	TA	DK	28/10/16	SS	OCT16									
	2	FOR CONSTRUCTION	21/02/17	TA	DK	10/03/17	SS	OCT16									
3	CHANGED NOTES	08/08/17	TA	DK	08/08/17	SS	OCT16	AUTHOR: <i>D. Kroning</i> D. KRONING RPEQ 8532 PROJECT NUMBER / SHEET: 160311 / 1811 SCALE: 1:250 ORG. SIZE: A1 ISSUE: 3									





**City Projects Office**  
 Brisbane City Council  
 Green Square  
 South Tower  
 505 St. Paul's Terrace  
 Fortitude Valley, Q 4006  
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 Facsimile: 07-3334 0225  
 e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	TENDER ISSUE	26/10/16	TA	DK 28/10/16
2	FOR CONSTRUCTION	21/02/17	TA	DK 10/03/17
3	REMOVED CCTV FROM VMS. ADDED NOTES & J11	08/08/17	TA	SK

DATE  
 DRAWN  
 AUTH.

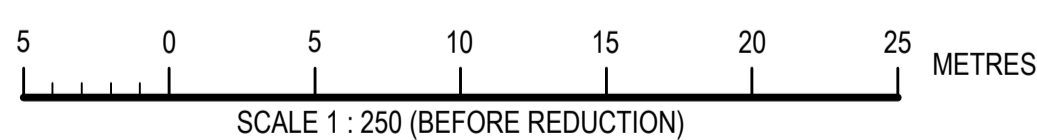
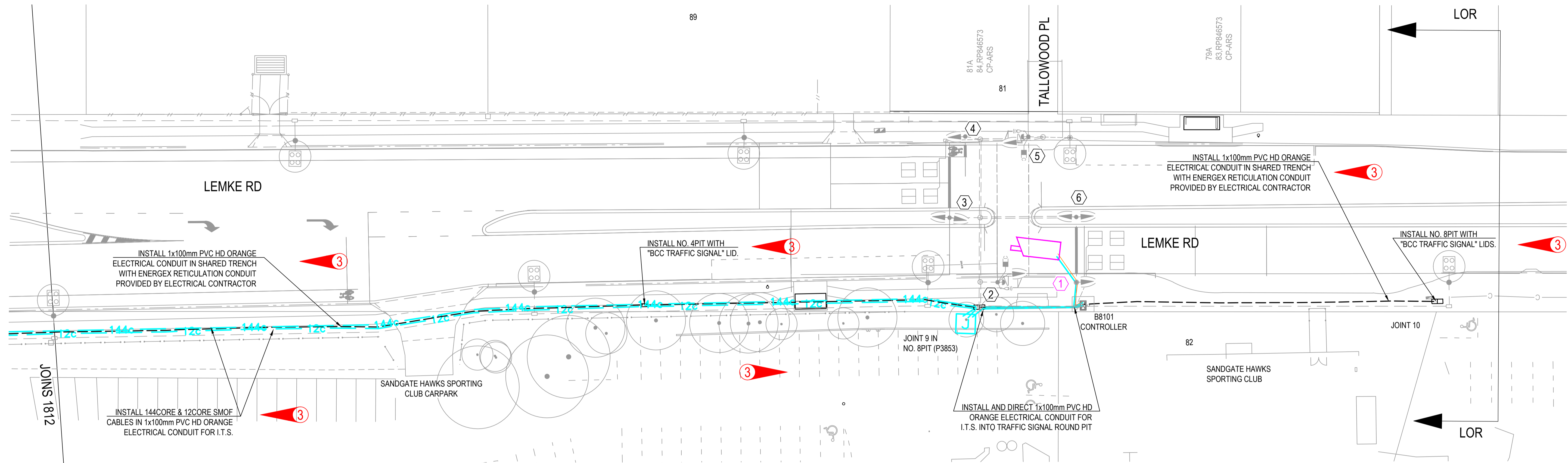
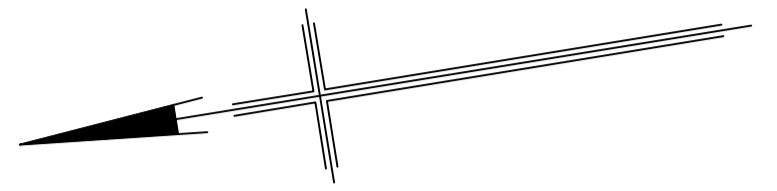
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 Based on Data provided with permission of the Department of Environment and Resource Management (DERM) - Cadastral Data.  
 DIGITAL GLOBE, QASCO, FUERO, webmap

DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

TITLE  
**ITS LAYOUT  
 SHEET 11 OF 12**  
 Site No: ----

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DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT'16	SS	OCT'16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT'16	SS	OCT'16
AUTHORISED FC	REFERENCE NO.		SCALE
<i>SK</i>	---		1:250
PROJECT NUMBER / SHEET			ISSUE
160311 / 1812			3



**City Projects Office**  
 Brisbane City Council  
 Mailing Address: GPO Box 1434 Brisbane Qld 4001  
 Green Square South Tower 505 St. Paul's Terrace Fortitude Valley, Q 4006  
 Telephone: 07-3027 4749  
 Facsimile: 07-3334 0225  
 e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION
1	TENDER ISSUE	26/10/16	TA	DK	10/03/17	
2	FOR CONSTRUCTION	21/02/17	TA	TA		
3	UPDATED WITH NEW TRAFFIC SIGNALS. ADDED NOTES.	08/08/17	TA	JK		

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Based on Data provided with permission of the Department of Environment and Resource Management (DERM) - Cadastral Data.

DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR UPGRADE STAGE 2 MUSTANG ST TO GATEWAY RAMPS & LEMKE RD**

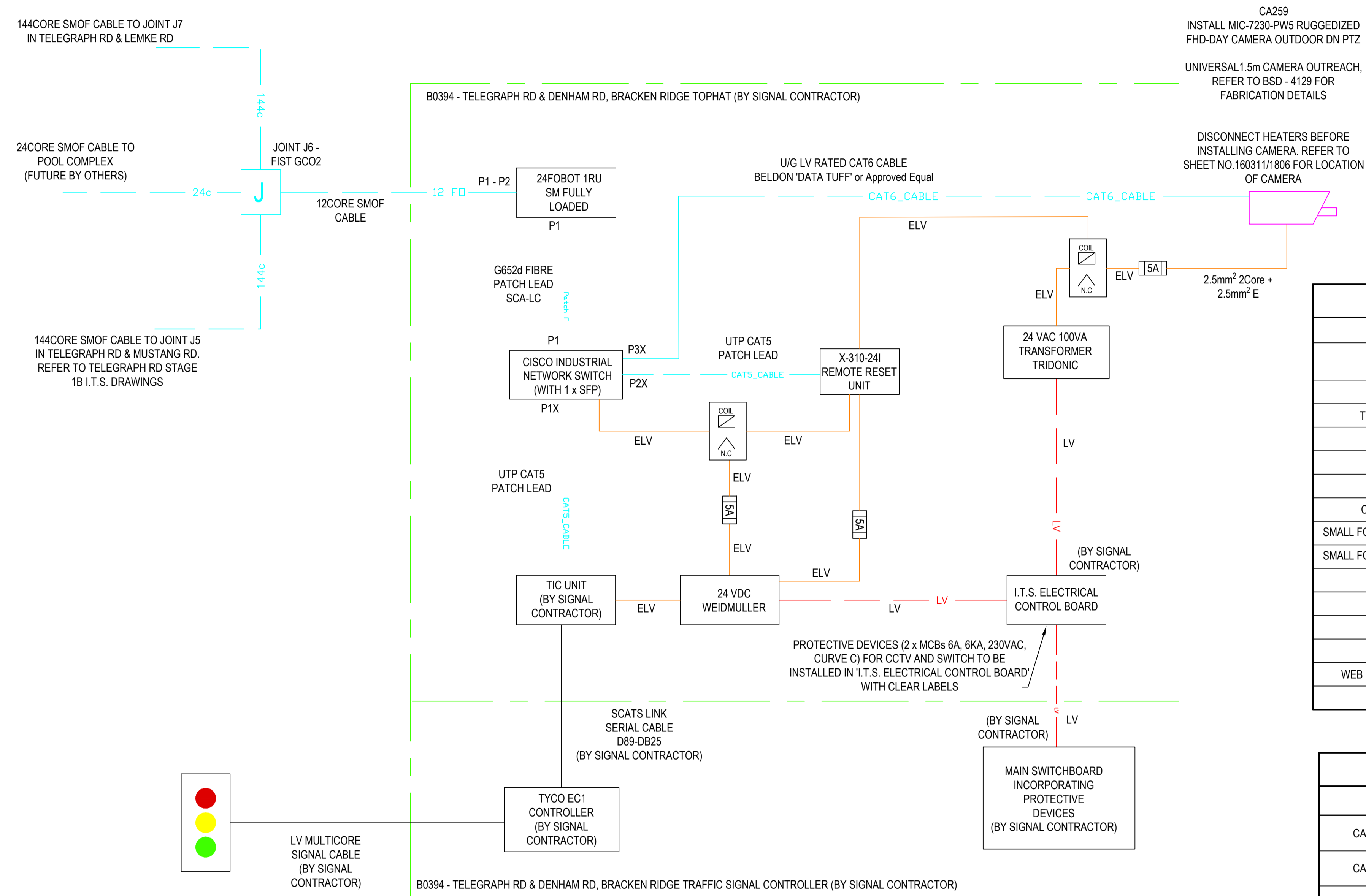
TITLE  
**ITS LAYOUT SHEET 12 OF 12**  
 Site No: B8101

**SECURITY LABEL: FOR OFFICIAL USE ONLY**

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT16	SS	OCT16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT16	SS	OCT16
AUTHORISED		REFERENCE NO.	DATE
		200436296	
D. KRONING RPEQ 8532		SCALE	ORIG. SIZE
		1:250	A1
PROJECT NUMBER / SHEET			ISSUE
160311 / 1813			3



Sheet List Table	
Sheet Number	Sheet Title
1814	ITS SYSTEM SCHEMATIC DENHAM RD SHEET 1 OF 4
1815	ITS SYSTEM SCHEMATIC LEMKE RD SHEET 2 OF 4
1816	ITS SYSTEM SCHEMATIC VMS LEMKE RD SHEET 3 OF 4
1826	ITS SYSTEM SCHEMATIC CCTV LEMKE RD SHEET 4 OF 4



MAJOR MATERIAL		
ITEM	MODEL NUMBER	TOTAL
BOSCH MIC IP SPOTLIGHT 7000 HD	MIC-7230-PW5 RUGGEDIZED FHD-DAY CAMERA OUTDOOR DN PTZ (ORDER NUMBER: MIC-7230-PW5)	1
CCTV ADAPTER BRACKET	(BOSCH) MIC-DCA-HW WHITE HINGED DCA BRACKET	1
TRAFFIC CAMERA MOUNTING OPTIONS	UNIVERSAL 1.5m CAMERA OUTREACH, REFER TO BSD - 4129 FOR FABRICATION DETAILS	1
24 VAC TRANSFORMER TRIDONIC	AT 24 100VA DINRAIL MOUNT	1
G652d FIBRE PATCH LEAD	LC to SCA, 1m	1
UTP CAT5 PATCH LEADS	RJ45 - RJ45	1
CISCO INDUSTRIAL NETWORK SWITCH	CISCO IE-2000U-4TS-G-B	1
SMALL FORM PLUGGABLE TRANCEIVER MODULE (SFP)	CISCO COMPATIBLE 1000BASE-BX-U SINGLE FIBRE GIGABIT ETHERNET	1
SMALL FORM PLUGGABLE TRANCEIVER MODULE (SFP)	CISCO COMPATIBLE 1000BASE-BX-D SINGLE FIBRE GIGABIT ETHERNET	1
PROTECTIVE DEVICE	MCB 6A, 6KA, 230VAC, TYPE C	2
FOBOT 1RU SM FULLY LOADED	TYCO RTCIGS-SCA-24-FS-A24-1RU	1
24 VDC POWER SUPPLY UNIT (PSU)	WEIDMULLER CP M SNT 120W 24VDC 5A	1
FUSE LINK	5A, 230VAC, HRC CARTRIDGE SK TYPE OR EQUIVALENT	3
WEB ENABLED PROGRAMMABLE CONTROLLER	X-310-241 REMOTE RESET UNIT	1
RELAY	FINDER RELAY & BASE 24VDC	2

CABLE SCHEDULE				
LOCATION	CABLE SIZE	CABLE TYPE	LENGTH	REMARKS
CAMERA TO TOPHAT	CAT6	DATA CONTROL	60m	U/G LV RATED CAT6 CABLE BELDON 'DATA TUFF' OR APPROVED EQUAL
CAMERA TO TOPHAT	MINIMUM 2.5mm <sup>2</sup> 2C + 2.5mm <sup>2</sup> EARTH	POWER	60m	FAULT LOOP IMPEDANCE & VOLTAGE DROP PASSED
TOPHAT	MINIMUM 2.5mm <sup>2</sup> 2C + 2.5mm <sup>2</sup> EARTH	POWER	2m	FAULT LOOP IMPEDANCE & VOLTAGE DROP PASSED
FIST GC02 TO TOPHAT	12CORE SMOF CABLE, OS2 G652d LOOSE TUBE	AFL OR APPROVED EQUAL	40m	NA

IP NETWORK ADDRESSING			
ITEM	IP ADDRESS	SUBNET MASK	GATEWAY
B0394 TIC UNIT	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES
B0394 CISCO INDUSTRIAL NETWORK SWITCH	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES
CA259 CCTV CAMERA	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES
B0394 X-310 REMOTE RESET UNIT	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES

BCC- FIELD SERVICES (F.S.) TO PROVIDE AND COMMISSION BCC I.T.S. NETWORK EQUIPMENT (E.G. ALL NETWORK SWITCHES SFPs, FIBRE OPTIC PATCH LEADS).  
 THE PRINCIPAL CONTRACTOR SHALL ENGAGE, CO-ORDINATE WITH AND MANAGE BRISBANE CITY COUNCIL'S FILED SERVICES (F.S.), CONTACT MANAGER TRAFFIC NETWORK SERVICES (T.N.S.) ON 07 3403 8888 TO CONFIGURE, SET TO WORK AND COMMISSION THE I.T.S. NETWORK. THE PRINCIPAL CONTRACTOR SHALL PROVIDE AN UPDATE TO THE PROGRAM OF WORKS (AT REGULAR INTERVALS), AND PROVIDE 10 WEEKS NOTICE TO F.S. OF WHEN THE I.T.S. NETWORK WILL BE COMMISSIONED.

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**City Projects Office**  
 Brisbane City Council  
 Green Square South Tower  
 505 St. Paul's Terrace  
 Fortitude Valley, Q 4006  
 Telephone: 07-3027 4749  
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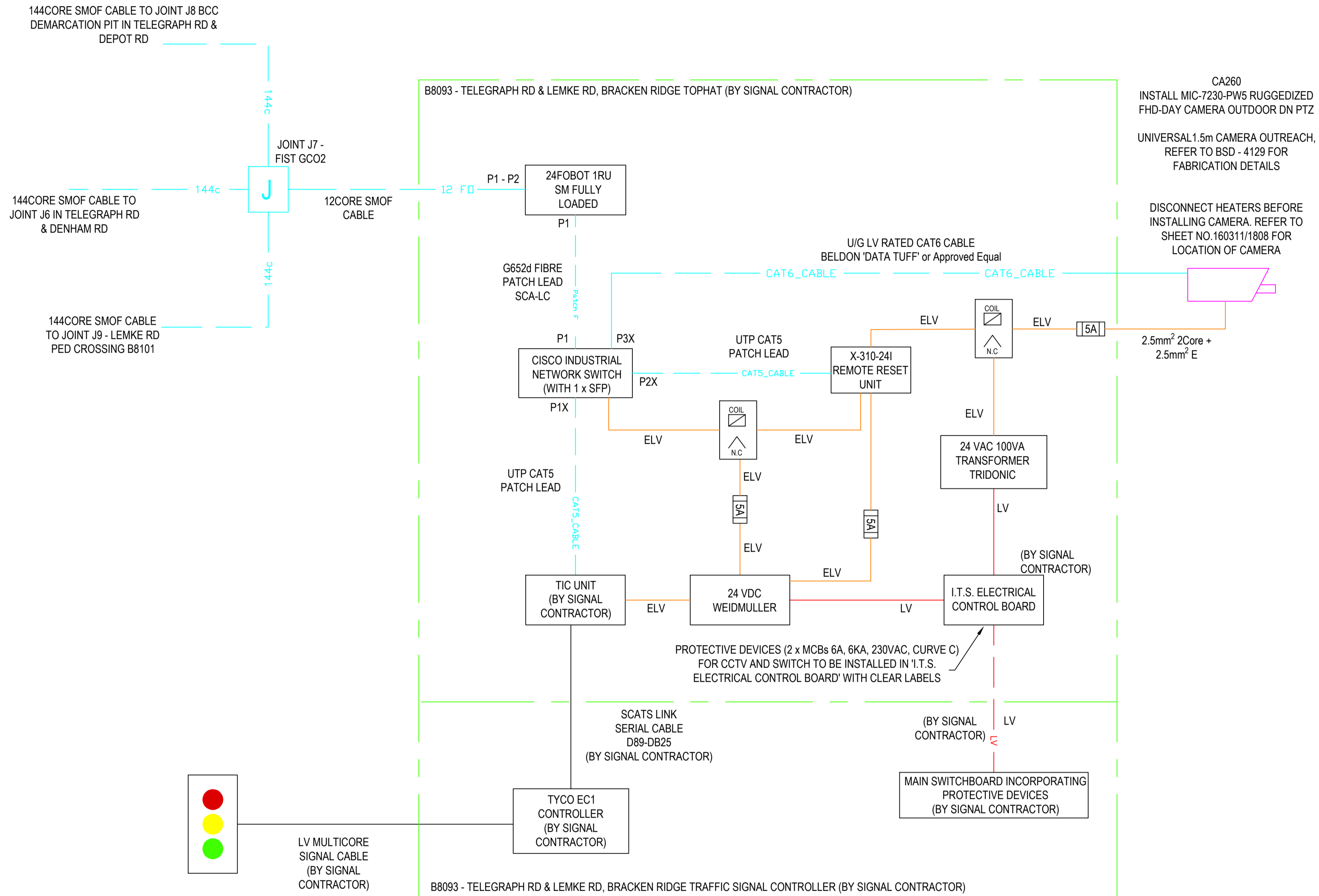
ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	TENDER ISSUE	28/10/16	TA	DK	28/10/16				
2	FOR CONSTRUCTION	21/02/17	TA	DK	10/03/17				
3	VARIOUS CHANGES	08/08/17	TA	DK					

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 DIGITAL GLOBE, QASCO, FUERO, WEBMAP  
 DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

TITLE  
**ITS SYSTEM  
 SCHEMATIC  
 DENHAM RD  
 SHEET 1 OF 4**  
 Site No: B0394

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT16	SS	OCT16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT16	SS	OCT16
AUTHORIS	DATE	REFERENCE NO.	SCALE
<i>[Signature]</i>		200436294	NA
PROJECT NUMBER / SHEET	ISSUE	SCALE	ORIG. SIZE
160311 / 1814	3	NA	A1



MAJOR MATERIAL		
ITEM	MODEL NUMBER	TOTAL
BOSCH MIC IP STARLIGHT 7000 HD	MIC-7230-PW5 RUGGEDIZED FHD-DAY CAMERA OUTDOOR DN PTZ (ORDER NUMBER: MIC-7230-PW5)	1
CCTV ADAPTER BRACKET	(BOSCH) MIC-DCA-HW WHITE HINGED DCA BRACKET	1
TRAFFIC CAMERA MOUNTING OPTIONS	UNIVERSAL 1.5m CAMERA OUTREACH, REFER TO BSD - 4129 FOR FABRICATION DETAILS	1
24 VAC TRANSFORMER TRIDONIC	AT 24 100VA DINRAIL MOUNT	1
G652d FIBRE PATCH LEAD	LC to SCA, 1m	1
UTP CAT5 PATCH LEADS	RJ45 - RJ45	1
CISCO INDUSTRIAL NETWORK SWITCH	CISCO IE-2000U-4TS-G-B	1
SMALL FORM PLUGGABLE TRANCEIVER MODULE (SFP)	CISCO COMPATIBLE 1000BASE-BX-U SINGLE FIBRE GIGABIT ETHERNET	1
SMALL FORM PLUGGABLE TRANCEIVER MODULE (SFP)	CISCO COMPATIBLE 1000BASE-BX-D SINGLE FIBRE GIGABIT ETHERNET	1
PROTECTIVE DEVICE	MCB 6A, 6KA, 230VAC, TYPE C	2
FOBOT 1RU SM FULLY LOADED	TYCO RTCIGS-SCA-24-FS-A24-1RU	1
24 VDC POWER SUPPLY UNIT (PSU)	WEIDMULLER CP M SNT 120W 24VDC 5A	1
FUSE LINK	5A, 230VAC, HRC CARTRIDGE SK TYPE OR EQUIVALENT	3
WEB ENABLED PROGRAMMABLE CONTROLLER	X-310-241 REMOTE RESET UNIT	1
RELAY	FINDER RELAY & BASE 24VDC	2

CABLE SCHEDULE				
LOCATION	CABLE SIZE	CABLE TYPE	LENGTH	REMARKS
CAMERA TO TOPHAT	CAT6	DATA CONTROL	60m	U/G LV RATED CAT6 CABLE BELDON 'DATA TUFF' OR APPROVED EQUAL
CAMERA TO TOPHAT	MINIMUM 2.5mm <sup>2</sup> 2C + 2.5mm <sup>2</sup> EARTH	POWER	60m	FAULT LOOP IMPEDANCE & VOLTAGE DROP PASSED
TOPHAT	MINIMUM 2.5mm <sup>2</sup> 2C + 2.5mm <sup>2</sup> EARTH	POWER	2m	FAULT LOOP IMPEDANCE & VOLTAGE DROP PASSED
FIST GCO2 TO TOPHAT	12CORE SMOF CABLE, OS2 G652d LOOSE TUBE	AFL OR APPROVED EQUAL	40m	NA

IP NETWORK ADDRESSING			
ITEM	IP ADDRESS	SUBNET MASK	GATEWAY
B8093 TIC UNIT	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES
B8093 CISCO INDUSTRIAL NETWORK SWITCH	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES
CA260 CCTV CAMERA	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES
B8093 X-310 REMOTE RESET UNIT	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES

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 THE PRINCIPAL CONTRACTOR SHALL ENGAGE, CO-ORDINATE WITH AND MANAGE BRISBANE CITY COUNCIL'S FILED SERVICES (F.S.). CONTACT MANAGER TRAFFIC NETWORK SERVICES (T.N.S.) ON 07 3403 8888 TO CONFIGURE, SET TO WORK AND COMMISSION THE I.T.S. NETWORK. THE PRINCIPAL CONTRACTOR SHALL PROVIDE AN UPDATE TO THE PROGRAM OF WORKS (AT REGULAR INTERVALS), AND PROVIDE 10 WEEKS NOTICE TO F.S. OF WHEN THE I.T.S. NETWORK WILL BE COMMISSIONED.

**City Projects Office**  
 Brisbane City Council  
 Green Square South Tower  
 505 St. Paul's Terrace  
 Fortitude Valley, Q 4006  
 Telephone: 07-3027 4749  
 Facsimile: 07-3334 0225  
 e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	DESCRIPTION	DATE	DRAWN	AUTH.
1	TENDER ISSUE	28/10/16	TA	DK	DK 28/10/16			
2	FOR CONSTRUCTION	21/02/17	TA	DK	DK 10/03/17			
3	VARIOUS CHANGES	08/08/17	TA	BRK				

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 DIGITAL GLOBE, QASCO, FURRO, WEBMAP  
 DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

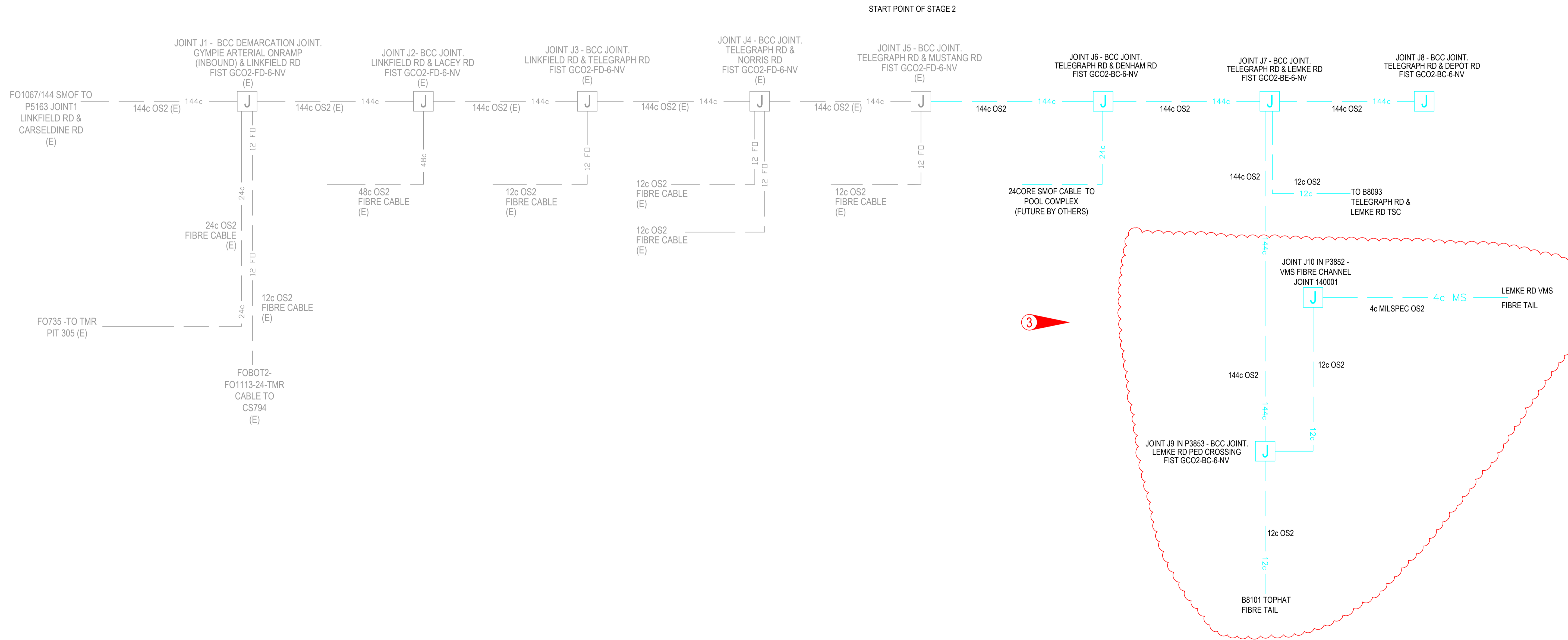
TITLE  
**ITS SYSTEM  
 SCHEMATIC  
 LEMKE RD  
 SHEET 2 OF 4**  
 Site No: B8093

<b>SECURITY LABEL: FOR OFFICIAL USE ONLY</b>			
DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT '16	SS	OCT '16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT '16	SS	OCT '16
AUTHORISED	REFERENCE NO.		
<i>SK</i>	200436295		
D. KRONING RPEQ 853	SCALE	ORIG. SIZE	
	NA	A1	
PROJECT NUMBER / SHEET	ISSUE		
160311 / 1815	3		





Sheet List Table	
Sheet Number	Sheet Title
1817	ITS TELECOMMUNICATION SCHEMATIC SHEET 1 OF 9
1818	ITS SPLICING TELEGRAPH RD GA SHEET 2 OF 9
1819	ITS SPLICING LINKFIELD LACEY JOINT J2 SHEET 3 OF 9
1820	ITS SPLICING MUSTANG RD JOINT J5 SHEET 4 OF 9
1821	ITS SPLICING DENHAM RD JOINT J6 SHEET 5 OF 9
1822	ITS SPLICING LEMKE JOINT J7 SHEET 6 OF 9
1823	ITS SPLICING DEPOT RD JOINT J8 SHEET 7 OF 9
1824	ITS SPLICING LEMKE VMS JOINT J10 SHEET 8 OF 9
1825	ITS SPLICING LEMKE RD JOINT J9 SHEET 9 OF 9



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**City Projects Office**  
 Brisbane City Council  
 Green Square  
 South Tower  
 505 St. Paul's Terrace  
 Fortitude Valley, Q 4006  
 Telephone: 07-3027 4749  
 Facsimile: 07-3334 0225  
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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	TENDER ISSUE	26/10/16	TA	DK 28/10/16					
2	FOR CONSTRUCTION	21/02/17	TA	DK 10/03/17					
3	CHANGED OS1 TO OS2 & GC02-FD TO GC02-BC, NEW FIBRE	08/08/17	TA	<i>BRK</i>					

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 DIGITAL GLOBE, QASCO, FURRO, webmap

DESIGN ACCEPTED

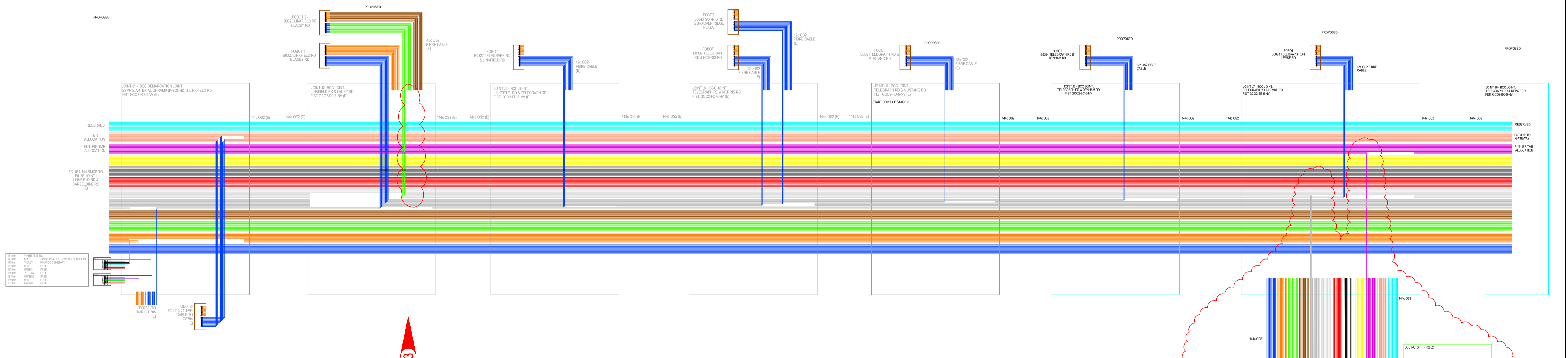
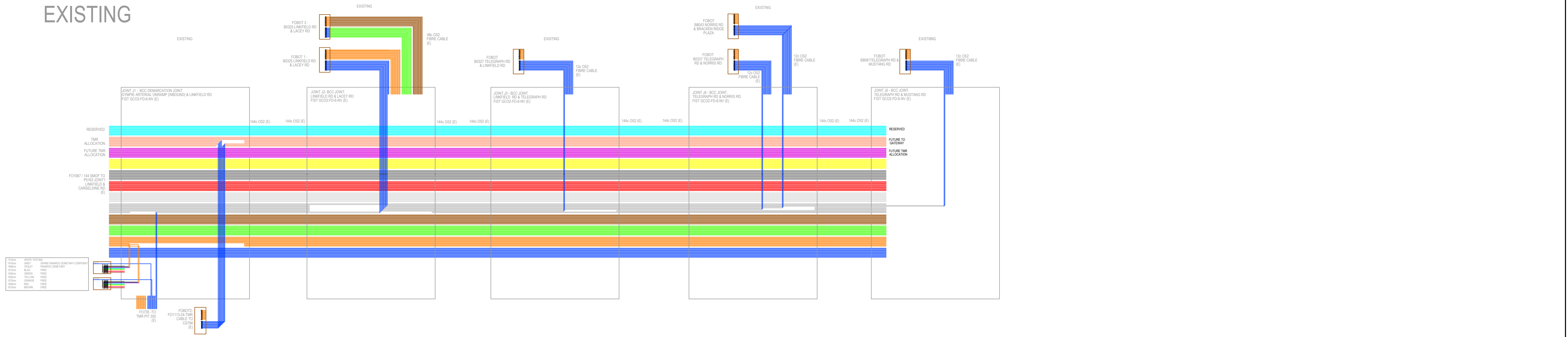
PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

TITLE  
**ITS  
 TELECOMMUNICATION  
 SCHEMATIC  
 SHEET 1 OF 9**  
 Site No: ----

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT '16	SS	OCT '16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT '16	SS	OCT '16
AUTHORISED FOR ISSUE		REFERENCE NO.	
<i>SKroy</i>		NA	
D. KRONING, BPEO, R552		SCALE	ORIG. SIZE
PROJECT NUMBER / SHEET		NA	A1
160311 / 1817		ISSUE	3

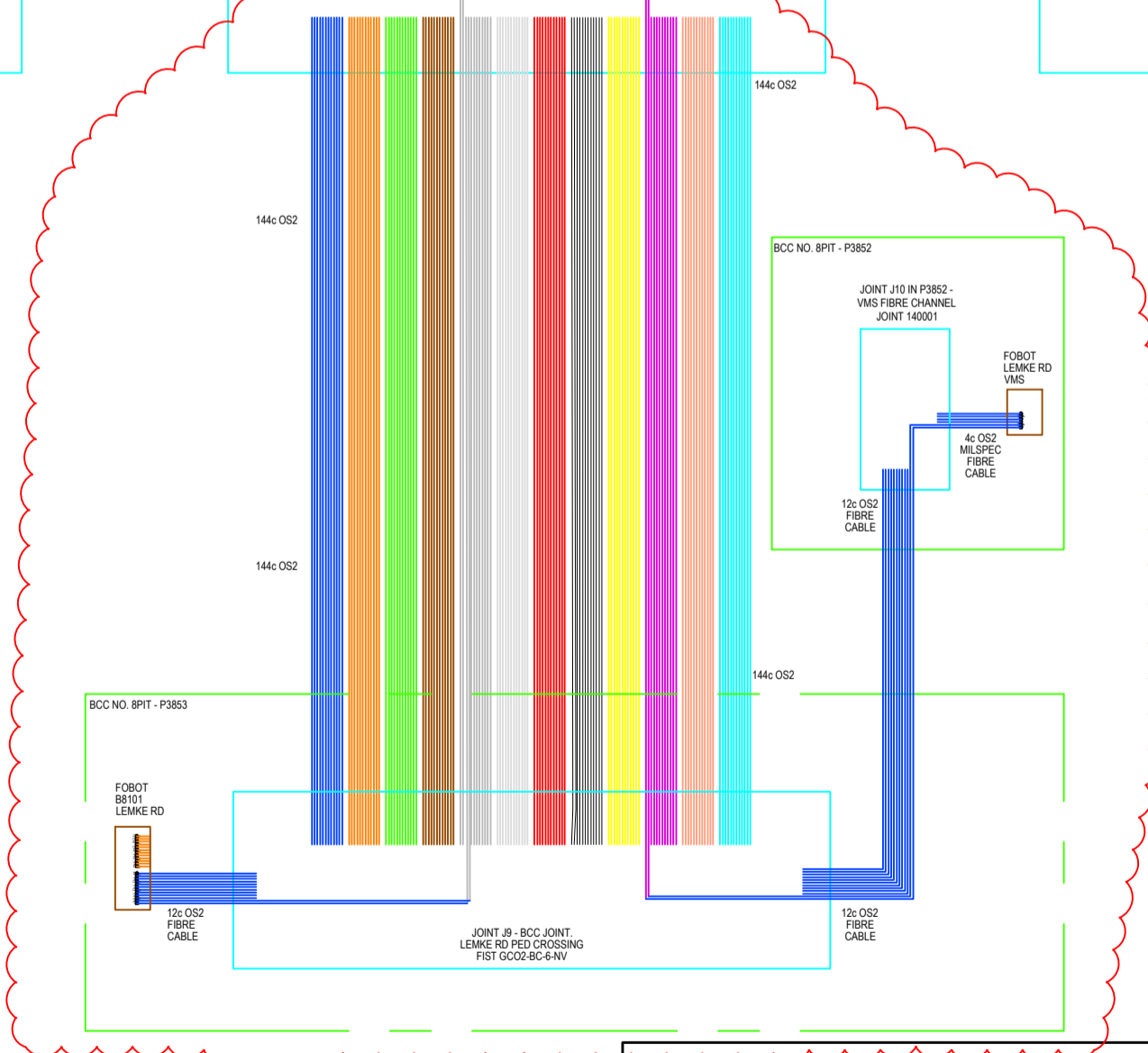


# EXISTING



### FIBRE SPLICING NOTES:

1. FIBRE SPLICING SHALL BE COMPLETED USING A QUALIFIED FIBRE SPLICING CONTRACTOR. WHERE A TRAINEE IS BEING USED, THE TRAINEE SHALL BE DIRECTLY SUPERVISED BY THE QUALIFIED FIBRE SPLICING CONTRACTOR. A COPY OF THE FIBRE SPLICER'S QUALIFICATION SHALL BE PROVIDED WITH THE FIBRE TEST RESULTS. FAILURE TO USE A QUALIFIED FIBRE SPLICING CONTRACTOR MAY RESULT IN THE CONTRACTOR HAVING TO RE-SPLICE THE FIBRE OPTIC JOINTS USING A QUALIFIED FIBRE SPLICING CONTRACTOR (AT THE CONTRACTOR'S EXPENSE).
2. WHERE FIBRE OPTIC CABLING IS PRESENT WITHIN THE TRAFFIC SIGNAL CONTROLLER OR TOPHAT, THIS CABLE CARRIES LIVE TRAFFIC. CONTACT ASSET MANAGEMENT BRANCH, D.F.I.M. - DUCT AND FIBRE INFRASTRUCTURE (CONTACT PRINCIPAL ENGINEER ON 07 3403 8888) PRIOR TO THE INSTALLATION OF THE 144CORE FIBRE TO PRODUCE A RISK AND CHANGE MANAGEMENT PLAN UNDER D.F.I.M. ADVICE FOR THE CUTOVER OF THE SERVICES TO THE NEW BACKBONE FIBRE CABLE. THE CONTRACTOR NEEDS TO GIVE A 6 WEEKS WINDOW FOR CHANGES SO THAT SERVICES CAN BE ACCOMMODATED. REFER TO PSS 9400 ITEM 9404.02S FOR FURTHER INFORMATION.



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**City Projects Office**  
 Brisbane City Council  
 Green Square South Tower  
 505 St. Paul's Terrace  
 Fortitude Valley, Q 4006  
 Telephone: 07-3027 4749  
 Facsimile: 07-3334 0225  
 e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	TENDER ISSUE	26/10/16	TA	DK	28/10/16				
2	FOR CONSTRUCTION	21/02/17	TA	DK	10/03/17				
3	CHANGES IN JOINT J2 & J7 & J9, UPDATED NOTES CHANGED OS1 TO OS2 & GC02-FD TO GC02-BC	08/08/17	TA	BRK					

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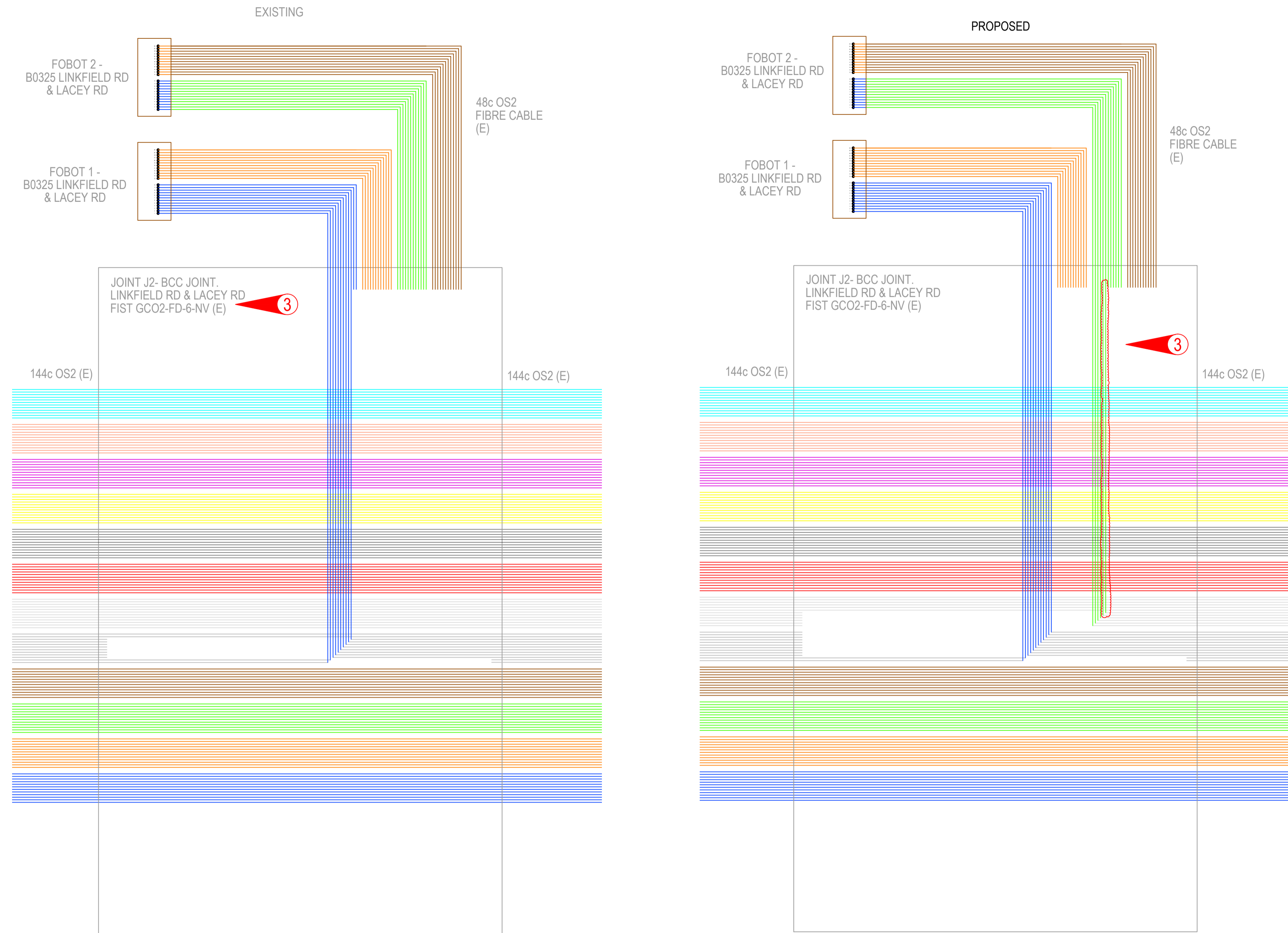
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 DESIGN ACCEPTED

**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

**ITS SPLICING  
 TELEGRAPH RD GA  
 SHEET 2 OF 9**

Site No: ----

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT '16	SS	OCT '16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT '16	SS	OCT '16
AUTHORISED FOR ISSUE	REFERENCE NO.	SCALE	ORIG. SIZE
<i>Skroy</i>		NA	A1
PROJECT NUMBER / SHEET	ISSUE		
160311 / 1818	3		



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**City Projects Office**  
 Brisbane City Council

Mailing Address:  
 GPO Box 1434  
 Brisbane Qld 4001

Green Square  
 South Tower  
 505 St. Paul's Terrace  
 Fortitude Valley, Q 4006

Telephone: 07-3027 4749  
 Facsimile: 07-3334 0225

e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	TENDER ISSUE	26/10/16	TA	DK 28/10/16					
2	FOR CONSTRUCTION	21/02/17	TA	TA					
3	CHANGES IN PROPOSED JOINT J2 CHANGED OS1 TO OS2 & GC02 TO GC02	08/08/17	TA	SK					

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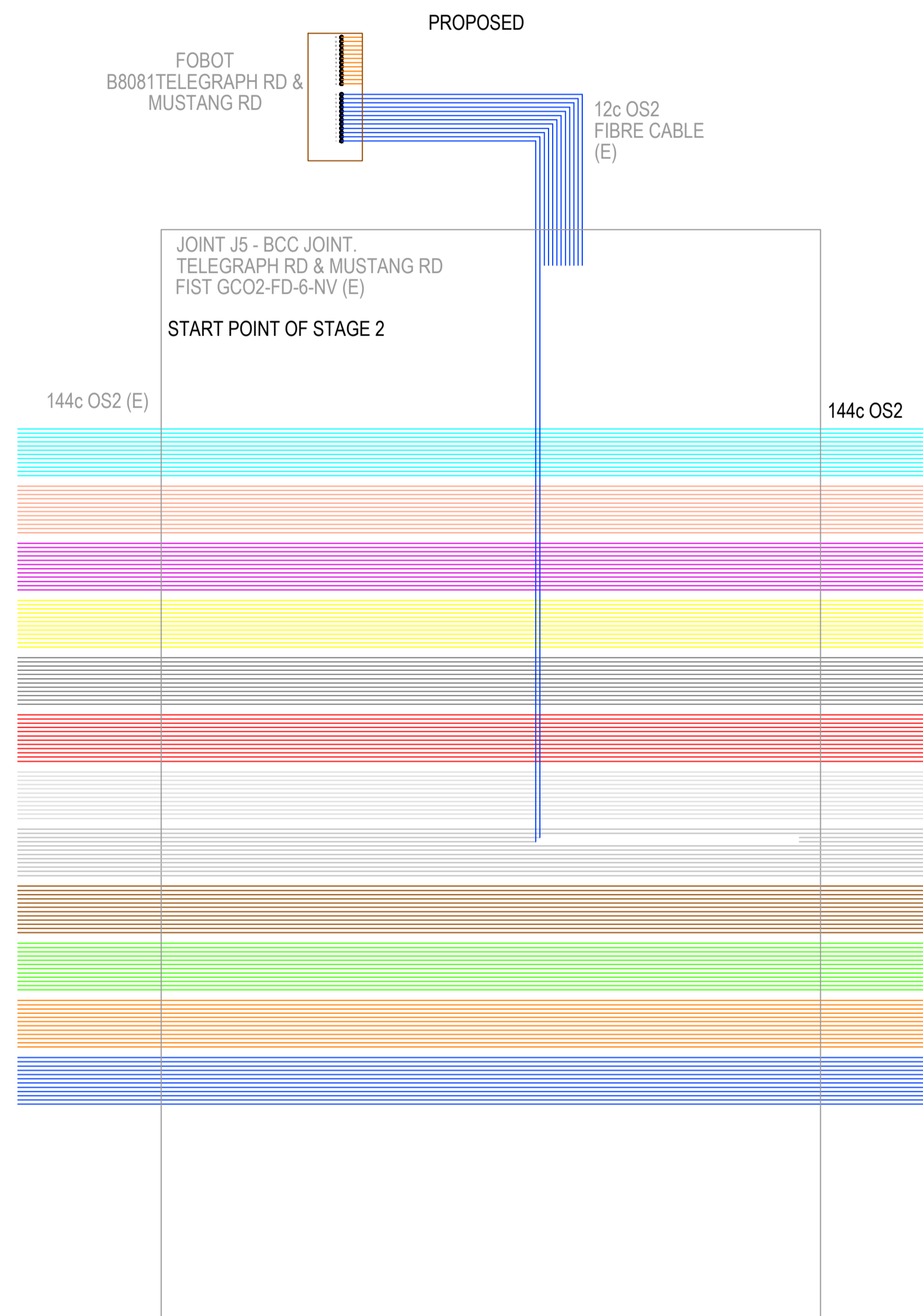
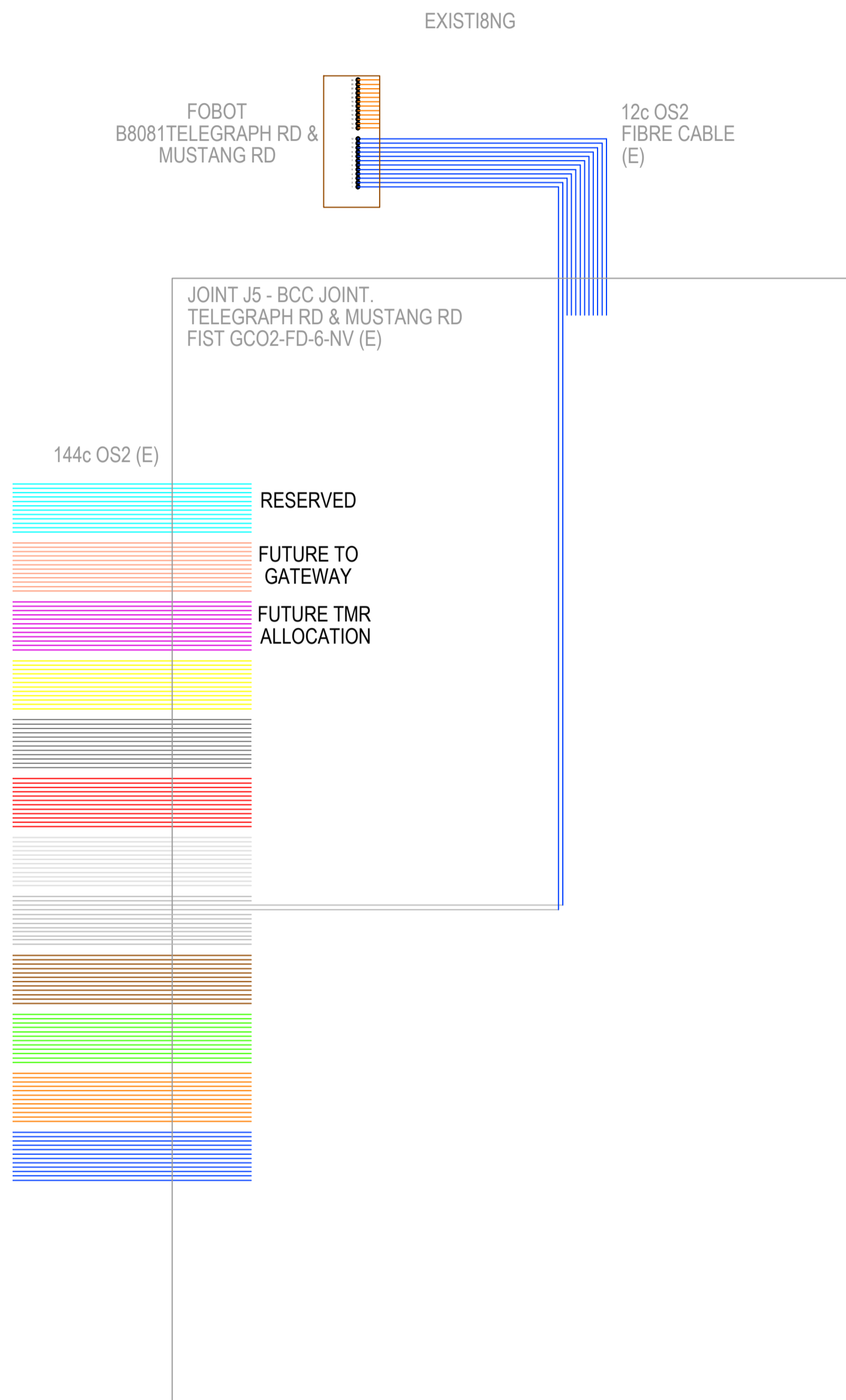
DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

TITLE  
**ITS SPLICING  
 LINKFIELD LACEY  
 JOINT J2 SHEET 3 OF 9**

Site No: ----

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT '16	S	OCT '16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT '16	SS	OCT '16
AUTHORIS	REFERENCE NO.	SCALE	ORIG. SIZE
<i>D. Kroning</i>		NA	A1
PROJECT NUMBER / SHEET			ISSUE
160311 / 1819			3



<b>SECURITY LABEL: FOR OFFICIAL USE ONLY</b>			
DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT '16	SS	OCT '16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT '16	SS	OCT '16
AUTHORISED FOR ISSUANCE		REFERENCE NO.	
<i>[Signature]</i>		E NA	
PROJECT NUMBER / SHEET		ISSUE	
160311 / 1820		3	

**City Projects Office**  
 Brisbane City Council

Mailing Address:  
 GPO Box 1434  
 Brisbane Qld 4001

Green Square  
 South Tower  
 505 St. Paul's Terrace  
 Fortitude Valley, Q 4006

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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	TENDER ISSUE	26/10/16	TA	TA					
2	FOR CONSTRUCTION	21/02/17	TA	DK 28/10/16					
3	CHANGED OS1 TO OS2 & GCO2 TO GCO2	08/08/17	TA	DK 10/03/17 <i>[Signature]</i>					

DATE	DRAWN	AUTH.

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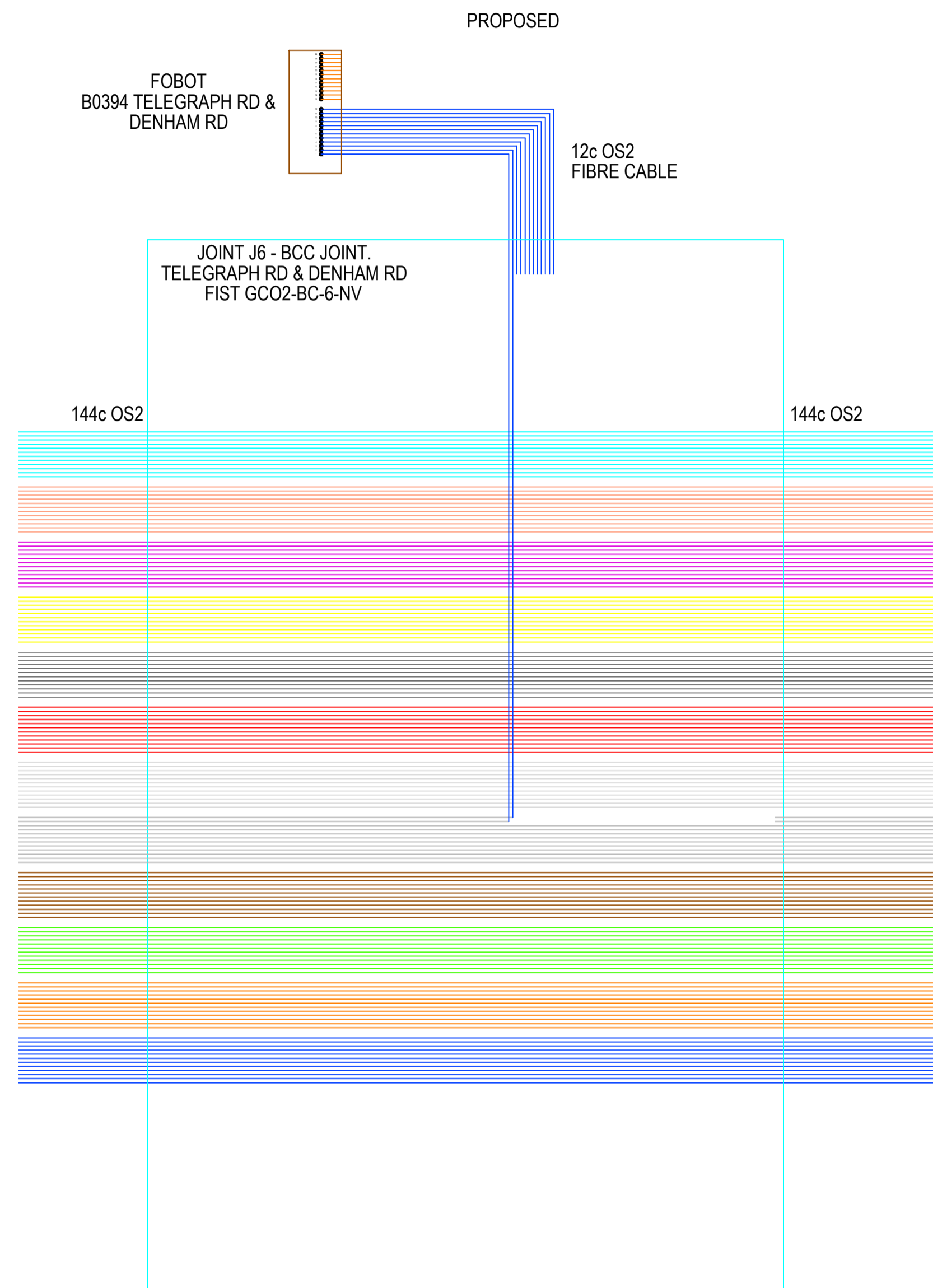
DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE - STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

TITLE  
**ITS SPLICING MUSTANG RD  
 JOINT J5 SHEET 4 OF 9**

Site No: ----





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**City Projects Office**  
 Brisbane City Council  
 Green Square  
 South Tower  
 505 St. Paul's Terrace  
 Fortitude Valley, Q 4006  
 Telephone: 07-3027 4749  
 Facsimile: 07-3334 0225  
 e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION
1	TENDER ISSUE	26/10/16	TA	DK	26/10/16	
2	FOR CONSTRUCTION	21/02/17	TA	DK	10/03/17	
3	CHANGED OS1 TO OS2 & GCO2-FD TO GCO2-BC	08/08/17	TA	SK		

DATE	DRAWN	AUTH.

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 DIGITAL GLOBE, Qasco, Fuero, webmap, nearmap, Brisway

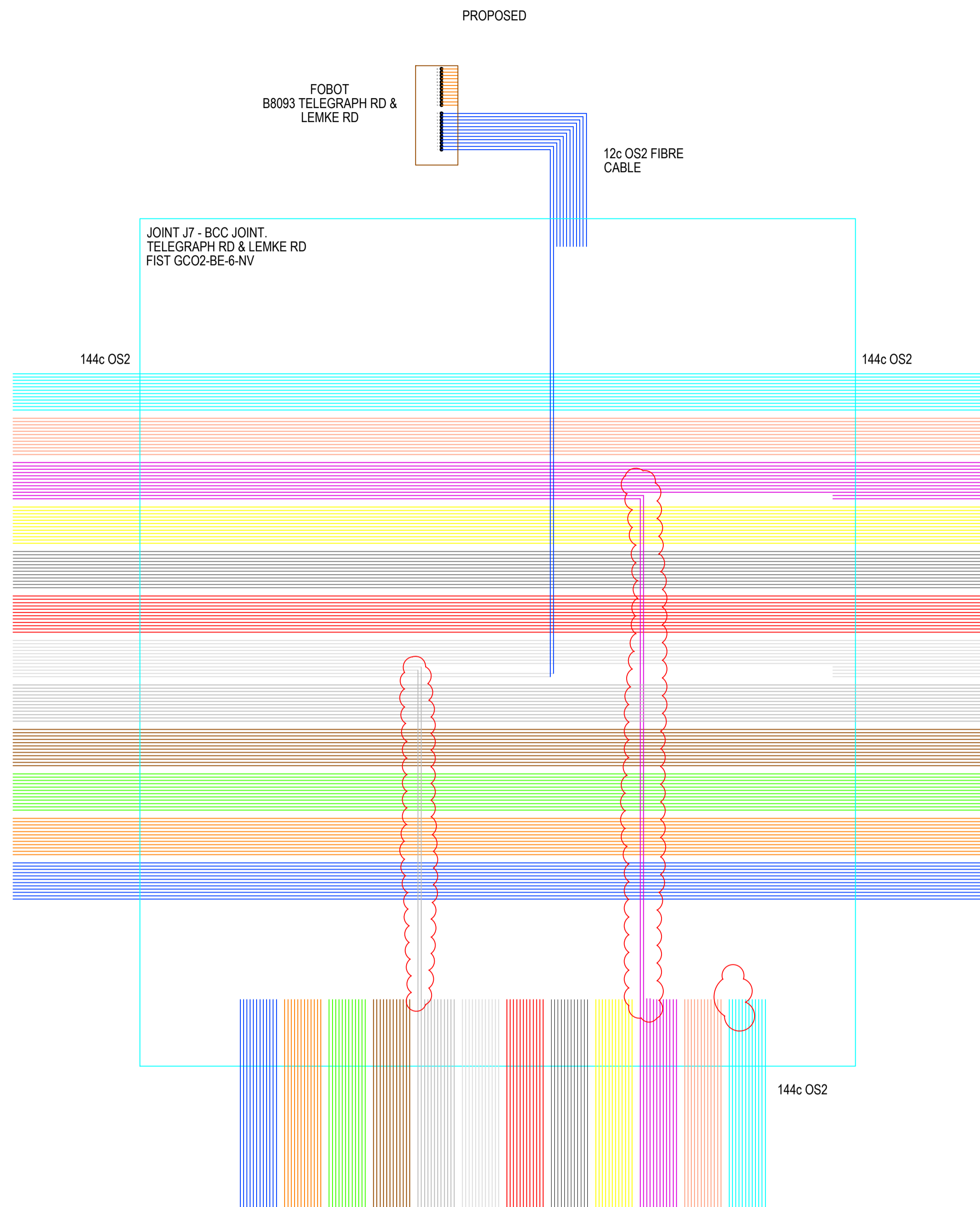
DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

TITLE  
**ITS SPLICING DENHAM RD  
 JOINT J6 SHEET 5 OF 9**

Site No: ----

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT '16	SS	OCT '16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT '16	SS	OCT '16
AUTHOR	REFERENCE NO.	SCALE	ORIG. SIZE
<i>SK</i>		NA	A1
PROJECT NUMBER / SHEET			ISSUE
160311 / 1821			3



3

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 Facsimile: 07-3334 0225  
 e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH
1	TENDER ISSUE	26/10/16	TA	DK 26/10/16					
2	FOR CONSTRUCTION	21/02/17	TA	10/03/17					
3	VARIOUS CHANGES	08/08/17	TA	SK					

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DESIGN ACCEPTED

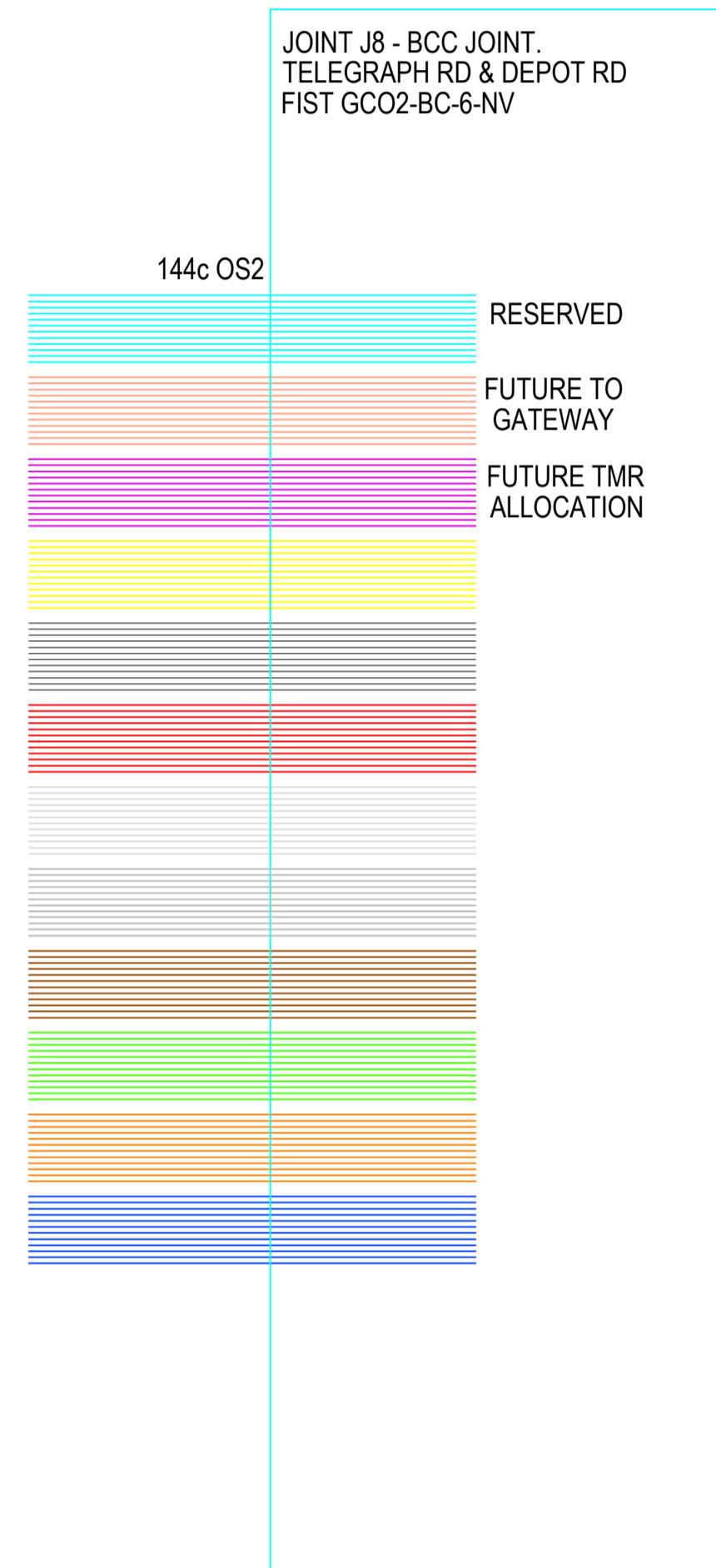
PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

TITLE  
**ITS SPLICING LEMKE  
 JOINT J7 SHEET 6 OF 9**

Site No: ----

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT '16	SS	OCT '16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT '16	SS	OCT '16
AUTHOR	REFERENCE NO.	SCALE	ORIG. SIZE
<i>SK</i>		NA	A1
PROJECT NUMBER / SHEET	ISSUE		
160311 / 1822	3		

PROPOSED



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Telephone: 07-3027 4749  
 Facsimile: 07-3334 0225  
 e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION
1	TENDER ISSUE	26/10/16	TA	DK	26/10/16	
2	FOR CONSTRUCTION	21/02/17	TA	DK	10/03/17	
3	CHANGED OS1 TO OS2 & GCO2-FD TO GCO2-BC	08/08/17	TA	DK		

DATE	DRAWN	AUTH.

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DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

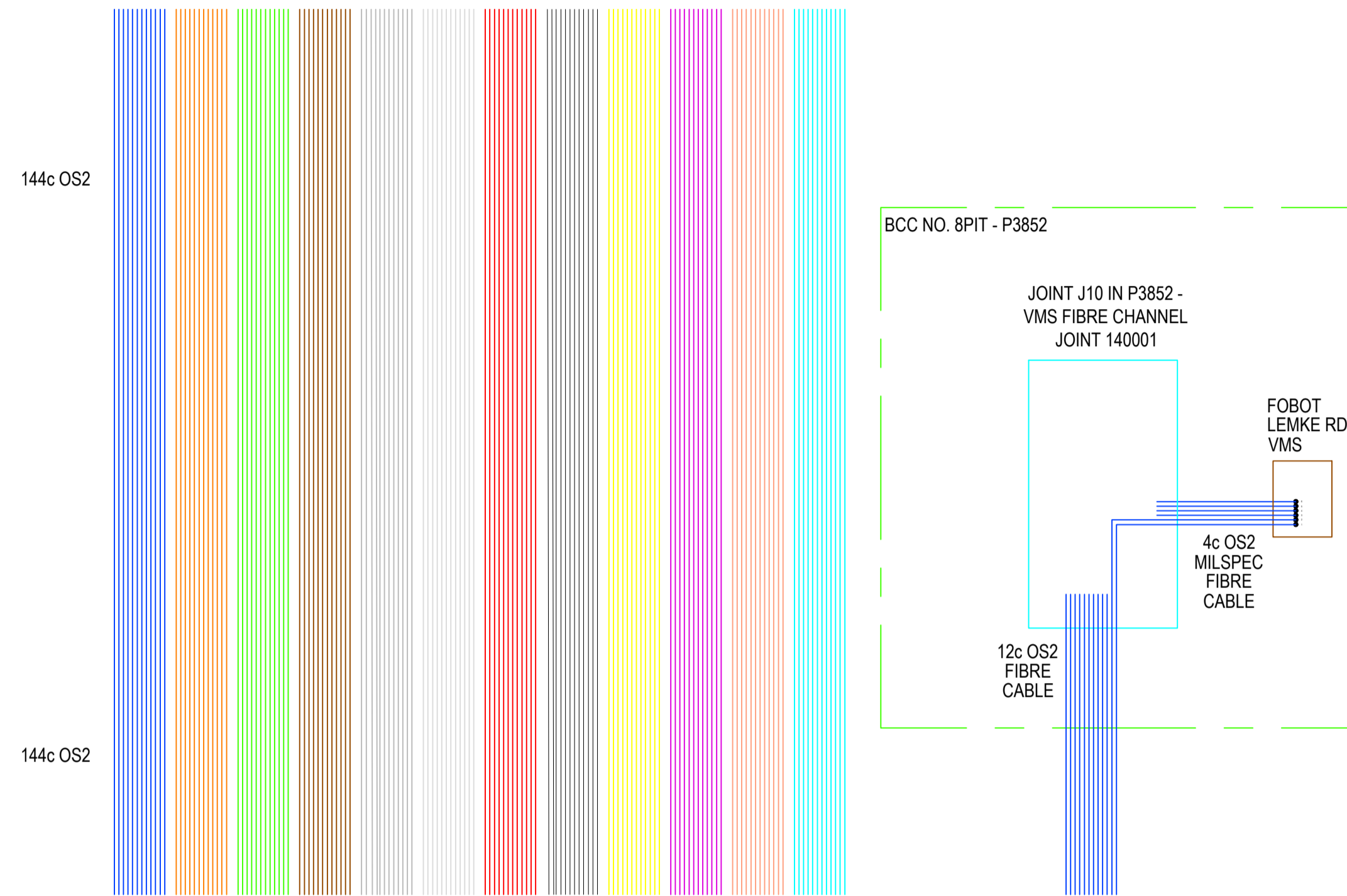
TITLE  
**ITS SPLICING DEPOT RD  
 JOINT J8 SHEET 7 OF 9**

Site No.: ----

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT '16	SS	OCT '16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT '16	SS	OCT '16
AUTHOR	REFERENCE NO.	LE	ORIG. SIZE
<i>D. Kroning</i>		NA	A1
PROJECT NUMBER / SHEET			ISSUE
160311 / 1823			3



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 e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION
1	TENDER ISSUE	26/10/16	TA	DK	26/10/16	
2	FOR CONSTRUCTION	21/02/17	TA	TA	10/03/17	
3	VARIOUS CHANGES	08/08/17	TA	SK		

DATE	DRAWN	AUTH.

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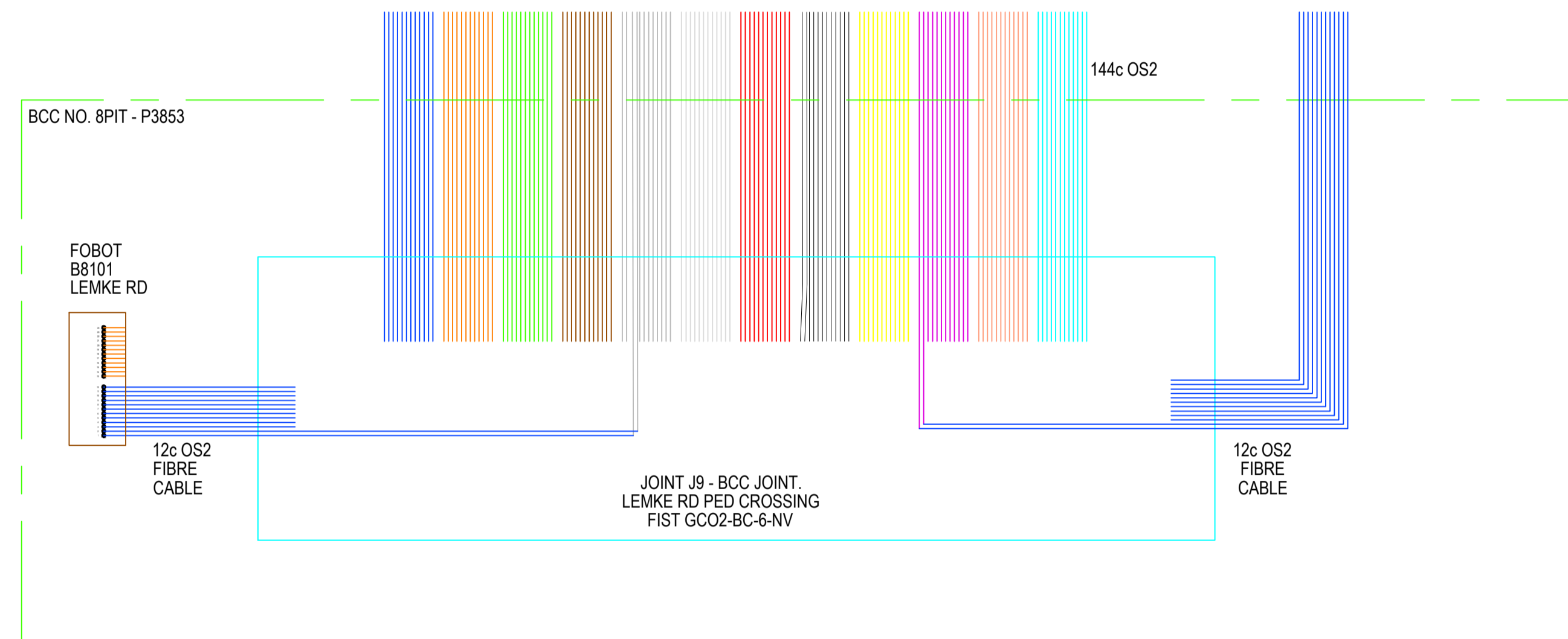
DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

TITLE  
**ITS SPLICING LEMKE VMS  
 JOINT J10 SHEET 8 OF 9**  
 Site No: ----

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT '16	SS	OCT '16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT '16	SS	OCT '16
AUTHORISED FOR ISSUE		REFERENCE NO.	
 D. KRONING RPEQ 8552		SCALE	ORIG. SIZE
PROJECT NUMBER / SHEET		NA	A1
160311 / 1824		ISSUE	3

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 e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION
1	TENDER ISSUE	26/10/16	TA	DK	26/10/16	
2	FOR CONSTRUCTION	21/02/17	TA	DK	10/03/17	
3	CHANGED OS1 TO OS2 & GC02-FD TO GC02-BC	08/08/17	TA	DK		

DATE	DRAWN	AUTH.

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 DIGITAL GLOBE, QASCO, FUERO, WEBMAP, NEARMAP, BRISWAY

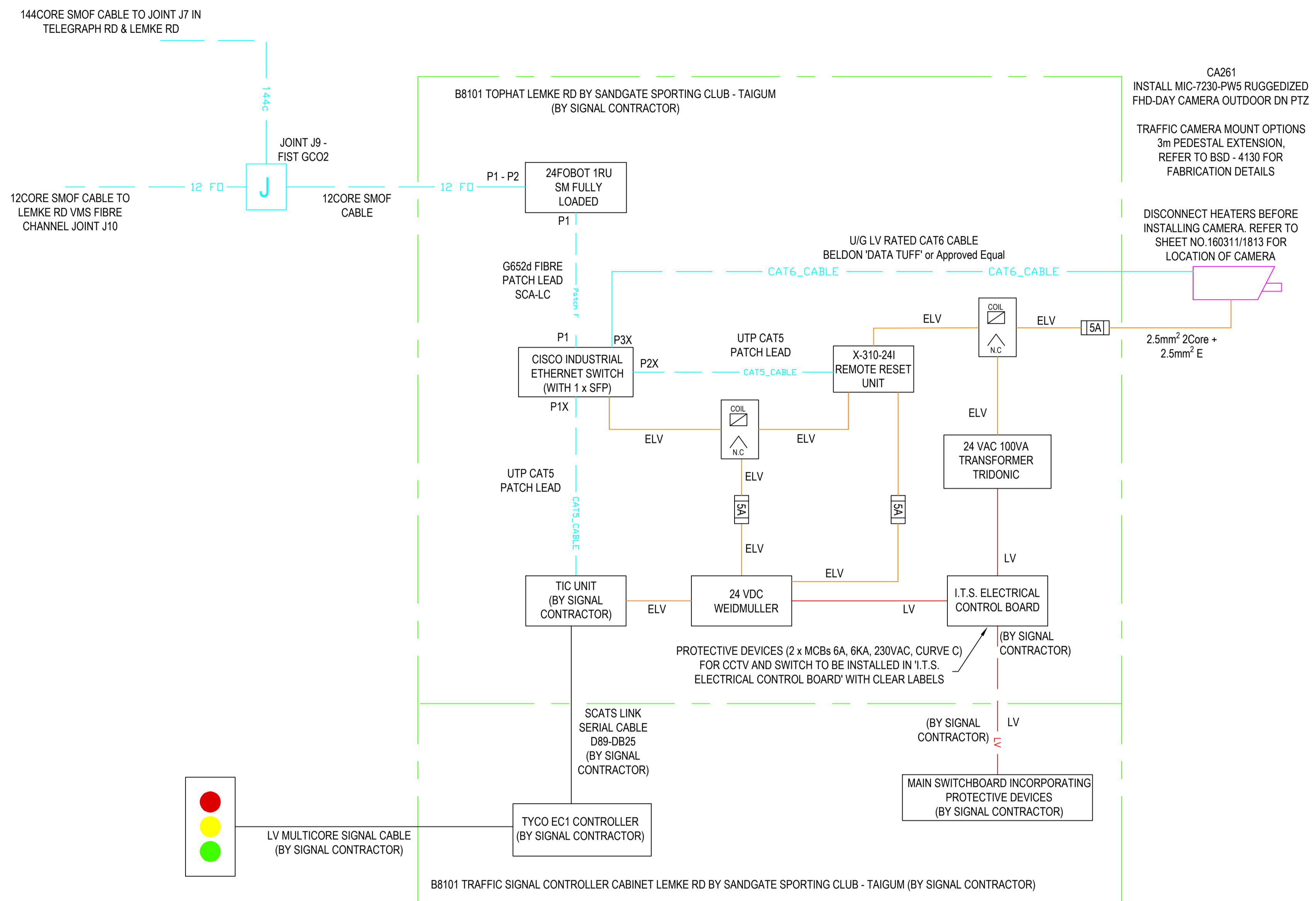
DESIGN ACCEPTED

PROJECT  
**TELEGRAPH RD CORRIDOR  
 UPGRADE STAGE 2  
 MUSTANG ST TO GATEWAY  
 RAMPS & LEMKE RD**

TITLE  
**ITS SPLICING LEMKE RD  
 JOINT J9 SHEET 9 OF 9**  
 Site No: ----

DESIGN	DATE	DESIGN CHECK	DATE
DK	OCT '16	SS	OCT '16
DRAWN	DATE	DRAWING CHECK	DATE
TA	OCT '16	SS	OCT '16
AUTHORISED FOR ISSUE	REFERENCE NO.	SCALE	ORIG. SIZE
<i>D. Kroning</i> D. KRONING RPEQ.8552		NA	A1
PROJECT NUMBER / SHEET	ISSUE		
160311 / 1825	3		





CA261  
INSTALL MIC-7230-PW5 RUGGEDIZED  
FHD-DAY CAMERA OUTDOOR DN PTZ

TRAFFIC CAMERA MOUNT OPTIONS  
3m PEDESTAL EXTENSION,  
REFER TO BSD - 4130 FOR  
FABRICATION DETAILS

DISCONNECT HEATERS BEFORE  
INSTALLING CAMERA. REFER TO  
SHEET NO.160311/1813 FOR  
LOCATION OF CAMERA

MAJOR MATERIAL		
ITEM	MODEL NUMBER	TOTAL
BOSCH MIC IP STARLIGHT 7000 HD	MIC-7230-PW5 RUGGEDIZED FHD-DAY CAMERA OUTDOOR DN PTZ (ORDER NUMBER: MIC-7230-PW5)	1
CCTV ADAPTER BRACKET	(BOSCH) MIC-DCA-HW WHITE HINGED DCA BRACKET	1
TRAFFIC CAMERA MOUNT OPTIONS	3m PEDESTAL EXTENSION, REFER TO BSD - 4130 FOR FABRICATION DETAILS	1
24 VAC TRANSFORMER TRIDONIC	AT 24 100VA DINRAIL MOUNT	1
G652d FIBRE PATCH LEAD	LC to SCA, 1m	1
UTP CAT5 PATCH LEADS	RJ45 - RJ45	1
CISCO INDUSTRIAL NETWORK SWITCH	CISCO IE-2000U-4TS-G-B	1
SMALL FORM PLUGGABLE TRANCEIVER MODULE (SFP)	CISCO COMPATIBLE 1000BASE-BX-U SINGLE FIBRE GIGABIT ETHERNET	1
SMALL FORM PLUGGABLE TRANCEIVER MODULE (SFP)	CISCO COMPATIBLE 1000BASE-BX-D SINGLE FIBRE GIGABIT ETHERNET	1
PROTECTIVE DEVICE	MCB 6A, 6KA, 230VAC, TYPE C	2
FOBOT 1RU SM FULLY LOADED	TYCO RTCIGS-SCA-24-FS-A24-1RU	1
24 VDC POWER SUPPLY UNIT (PSU)	WEIDMULLER CP M SNT 120W 24VDC 5A	1
FUSE LINK	5A, 230VAC, HRC CARTRIDGE SK TYPE OR EQUIVALENT	3
WEB ENABLED PROGRAMMABLE CONTROLLER	X-310-24I REMOTE RESET UNIT	1
RELAY	FINDER RELAY & BASE 24VDC	2

CABLE SCHEDULE				
LOCATION	CABLE SIZE	CABLE TYPE	LENGTH	REMARKS
CAMERA TO TOPHAT	CAT6	DATA CONTROL	60m	U/G LV RATED CAT6 CABLE BELDON 'DATA TUFF' OR APPROVED EQUAL
CAMERA TO TOPHAT	MINIMUM 2.5mm <sup>2</sup> 2C + 2.5mm <sup>2</sup> EARTH	POWER	60m	FAULT LOOP IMPEDANCE & VOLTAGE DROP PASSED
TOPHAT	MINIMUM 2.5mm <sup>2</sup> 2C + 2.5mm <sup>2</sup> EARTH	POWER	2m	FAULT LOOP IMPEDANCE & VOLTAGE DROP PASSED
FIST GCO2 TO TOPHAT	12CORE SMOF CABLE, OS2 G652d LOOSE TUBE	AFL OR APPROVED EQUAL	40m	NA

IP NETWORK ADDRESSING			
ITEM	IP ADDRESS	SUBNET MASK	GATEWAY
B8101 TIC UNIT	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES
B8101 CISCO INDUSTRIAL NETWORK SWITCH	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES
CA261 CCTV CAMERA	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES
B8101 X-310 REMOTE RESET UNIT	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES	BY BCC FIELD SERVICES

BCC- FIELD SERVICES (F.S.) TO PROVIDE AND COMMISSION BCC I.T.S. NETWORK EQUIPMENT (E.G. ALL NETWORK SWITCHES SFPs, FIBRE OPTIC PATCH LEADS).  
THE PRINCIPAL CONTRACTOR SHALL ENGAGE, CO-ORDINATE WITH AND MANAGE BRISBANE CITY COUNCIL'S FILED SERVICES (F.S.), CONTACT MANAGER TRAFFIC NETWORK SERVICES (T.N.S.) ON 07 3403 8888 TO CONFIGURE, SET TO WORK AND COMMISSION THE I.T.S. NETWORK. THE PRINCIPAL CONTRACTOR SHALL PROVIDE AN UPDATE TO THE PROGRAM OF WORKS (AT REGULAR INTERVALS), AND PROVIDE 10 WEEKS NOTICE TO F.S. OF WHEN THE I.T.S. NETWORK WILL BE COMMISSIONED.

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<b>City Projects Office</b> Brisbane City Council Green Square South Tower 505 St. Paul's Terrace Fortitude Valley, Q 4006 Telephone: 07-3027 4749 Facsimile: 07-3334 0225 e-mail: cityprojects@brisbane.qld.gov.au	ISSUE 1	DESCRIPTION FOR CONSTRUCTION	DATE 08/08/17	DRAWN TA	AUTH. <i>SK</i>	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	IMAGERY AND CADASTRAL DATA DISCLAIMER While every care is taken by Brisbane City Council (BCC) and the Department of Environment and Resource Management (DERM) to ensure the accuracy of the data supplied by BCC and DERM, BCC and DERM accept no liability for any particular purpose and disclaim all responsibility and liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damages) and costs which may be incurred as a result of data being inaccurate or incomplete in any way and for any reason. Based on Data provided with permission of the Department of Environment and Resource Management (DERM) - Cadastral Data. DESIGN ACCEPTED		PROJECT	TELEGRAPH RD CORRIDOR UPGRADE STAGE 2 MUSTANG ST TO GATEWAY RAMPS & LEMKE RD	TITLE	ITS SYSTEM SCHEMATIC CCTV LEMKE RD SHEET 4 OF 4	DESIGN DATE AUG '17 AS DRAWN DATE AUG '17 AS AUTHORISE <i>SK</i> REFERENCE NO. 200436296 SCALE NA ORG. SIZE A1 PROJECT NUMBER / SHEET 160311 / 1826 ISSUE 1
	TITLE TELEGRAPH RD CORRIDOR UPGRADE STAGE 2 MUSTANG ST TO GATEWAY RAMPS & LEMKE RD																
	TITLE ITS SYSTEM SCHEMATIC CCTV LEMKE RD SHEET 4 OF 4																
	Site No: B8101																

**Colin W Otto**

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Tuesday, 2 April 2019 8:46 AM  
**Subject:** Mi Electric [redacted]

Hi All,

[redacted]

For any current projects or future works, contact [projects@mielectric.com.au](mailto:projects@mielectric.com.au)

[redacted]

Regards

Regards,

[redacted] ITS Project Manager

[redacted] [redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



**Colin W Otto**

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Thursday, 21 February 2019 11:14 AM  
**To:** Colin W Otto  
**Subject:** Lemke VMS

Hey Colin,

FYI, we have updated the as cons as per defect B. These have been placed in the cabinet. The pits have also been cleaned and sealed as per defect C.

Let me know If there is anything else I can help with.

Regards

Regards,

[redacted] **ITS Project Manager**  
[redacted] [redacted] [mielectric.com.au](mailto:[redacted]@mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



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**Colin W Otto**

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Wednesday, 20 February 2019 1:10 PM  
**To:** Colin W Otto  
**Subject:** Joint Flash Testing  
**Attachments:** TE Closure Flash Test Guidelines V1.0.pdf

Hey Colin,

Thought you might have use for the attached. This is the pressure testing procedure from Tyco for all joints.

Regards

Regards,

[redacted] ITS Project Manager

[redacted] [redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670





## Colin W Otto

---

**From:** [redacted] Part Refuse Sch.4 Part 4 s.6 Personal information  
**Sent:** Monday, 18 February 2019 3:27 PM  
**To:** Osman Sivac; Colin W Otto  
**Cc:** Chris L Mason  
**Subject:** Re: Lemke VMS

Thanks Guys,

Regards,

[redacted] ITS Project Manager

[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>  
**Sent:** Monday, 18 February 2019 3:00 PM  
**To:** [redacted] Colin W Otto  
**Cc:** Chris L Mason  
**Subject:** RE: Lemke VMS

Comms established today ,VMS operational on STREAMS.

---

**From:** [redacted] @mielectric.com.au>  
**Sent:** Monday, 18 February 2019 1:59 PM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Cc:** Chris L Mason <Chris.L.Mason@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>  
**Subject:** Re: Lemke VMS

Hey Colin,

Let me know if you need any help.

Regards

Regards,

[redacted] ITS Project Manager

[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Sent:** Monday, 18 February 2019 1:48 PM  
**To:** [redacted]  
**Cc:** Chris L Mason; Osman Sivac  
**Subject:** RE: Lemke VMS

[redacted]  
We haven't connected the VMS to STREAMS yet. Looking at the link loss results you sent me, I need 2 x 5db attenuators installed at one end of the link. Osman is chasing some up now. Once installed, I will let you know that we are ready to commission the VMS.

Cheers,

Col

**From:** [redacted] Sch.4 Part 4 s.6 Personal [redacted]@mielectric.com.au>  
**Sent:** Monday, 18 February 2019 12:01 PM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** Lemke VMS

Hey Colin,

Are we able to meet onsite sometime this week to go through the paper work for the VMS?

Regards

Regards,

**Chris Valle | ITS Project Manager**

[redacted] [redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



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## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Monday, 18 February 2019 1:59 PM  
**To:** Colin W Otto  
**Cc:** Chris L Mason; Osman Sivic  
**Subject:** Re: Lemke VMS

Hey Colin,

Let me know if you need any help.

Regards

Regards,

[redacted] ITS Project Manager

[redacted] [redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Sent:** Monday, 18 February 2019 1:48 PM  
**To:** [redacted]  
**Cc:** Chris L Mason; Osman Sivic  
**Subject:** RE: Lemke VMS

[redacted]  
We haven't connected the VMS to STREAMS yet. Looking at the link loss results you sent me, I need 2 x 5db attenuators installed at one end of the link. Osman is chasing some up now. Once installed, I will let you know that we are ready to commission the VMS.

Cheers,  
Col

---

**From:** [redacted] @mielectric.com.au>  
**Sent:** Monday, 18 February 2019 12:01 PM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** Lemke VMS

Hey Colin,

Are we able to meet onsite sometime this week to go through the paper work for the VMS?

Regards

Regards,

[redacted] ITS Project Manager

[redacted] [redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
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## Colin W Otto

---

**From:** [redacted] se Sch.4 Part 4 s.6 Personal info@mielectric.com.au >  
**Sent:** Monday, 18 February 2019 12:03 PM  
**To:** Colin W Otto  
**Subject:** Re: Lemke VMS  
**Attachments:** PDF Results Cores 1 to 4.pdf; VMSVMSM21930011310.sor;  
VMSVMSM21930011550.sor; VMSVMSM21930021310.sor;  
VMSVMSM21930021550.sor; VMSVMSM21930031310.sor;  
VMSVMSM21930031550.sor; VMSVMSM21930041310.sor;  
VMSVMSM21930041550.sor

Hey Colin,

Please see remaining results OTDR.

Regards

Regards,

[redacted] ITS Project Manager

[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** [redacted]  
**Sent:** Friday, 15 February 2019 1:15 PM  
**To:** Colin W Otto  
**Subject:** Re: Lemke VMS

Hi Colin,

Sorry i forgot to include the report.

See attached.

Regards

Regards,

[redacted] ITS Project Manager

[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** [redacted]  
**Sent:** Friday, 15 February 2019 11:45 AM  
**To:** Colin W Otto  
**Subject:** Re: Lemke VMS

Hey Colin,

Please see attached LSPM and VIP results from yesterday. I am awaiting OTDR results still from Stowe.

Regards,



4 Part 4 s.6 Pers ITS Project Manager

   @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

**Sent:** Thursday, 14 February 2019 4:04 PM

**To:** Chris Valle

**Subject:** RE: Lemke VMS

Thanks, that's great. Appreciate your help.

Kind regards,

**Col Otto**

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office

Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 

E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)

W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:**  mielectric.com.au>

**Sent:** Thursday, 14 February 2019 4:04 PM

**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

**Subject:** Re: Lemke VMS

Hey Colin,

Yes, we plugged in just at the VMS only. As M2193 is looped back still.

Regards,

 ITS Project Manager

   @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>

**Sent:** Thursday, 14 February 2019 3:43 PM

**To:** 

**Subject:** RE: Lemke VMS

Thanks mate. Are you saying you connected the patch leads between FOBOT and TMR switch at VMS?

Kind regards,


**Col Otto**

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office

Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 

E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)

W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:**  @mielectric.com.au>

**Sent:** Thursday, 14 February 2019 3:42 PM

**To:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>

**Subject:** Lemke VMS

Hey Colin,

Fibre connectivity has been completed today and all 4 cores tested. The patch at the VMS was plugged into the cores to line up with M2193. I will have the results to you by COB Monday.

Please let me know if you require anything else.

Regards,

4 Part 4 s.6 Person ITS Project Manager

[Redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



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\*\*\*\*\*

Released under RTI - DTMR



## Colin W Otto

---

**From:** [redacted] e Sch.4 Part 4 s.6 Personal i@mielectric.com.au>  
**Sent:** Monday, 18 February 2019 12:01 PM  
**To:** Colin W Otto  
**Subject:** Lemke VMS

Hey Colin,

Are we able to meet onsite sometime this week to go through the paper work for the VMS?

Regards

Regards,

[redacted] ITS Project Manager

[redacted] [redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Friday, 15 February 2019 1:15 PM  
**To:** Colin W Otto  
**Subject:** Re: Lemke VMS  
**Attachments:** Lemke VMS to M2193 Loss Report.pdf

Hi Colin,

Sorry i forgot to include the report.

See attached.

Regards

Regards,

[redacted] ITS Project Manager

[redacted] [redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** [redacted]  
**Sent:** Friday, 15 February 2019 11:45 AM  
**To:** Colin W Otto  
**Subject:** Re: Lemke VMS

Hey Colin,

Please see attached LSPM and VIP results from yesterday. I am awaiting OTDR results still from Stowe.

Regards,

[redacted] ITS Project Manager

[redacted] [redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Sent:** Thursday, 14 February 2019 4:04 PM  
**To:** [redacted]  
**Subject:** RE: Lemke VMS

Thanks, that's great. Appreciate your help.

Kind regards,

**Col Otto**

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted]@mielectric.com.au  
**Sent:** Thursday, 14 February 2019 4:04 PM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** Re: Lemke VMS

Hey Colin,

Yes, we plugged in just at the VMS only. As M2193 is looped back still.

Regards,  
**Chris Valle** | ITS Project Manager  
[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Sent:** Thursday, 14 February 2019 3:43 PM  
**To:** [redacted]  
**Subject:** RE: Lemke VMS

Thanks mate. Are you saying you connected the patch leads between FOBOT and TMR switch at VMS?

Kind regards,

**Col Otto**  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
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W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted]@mielectric.com.au  
**Sent:** Thursday, 14 February 2019 3:42 PM  
**To:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Subject:** Lemke VMS

Hey Colin,

Fibre connectivity has been completed today and all 4 cores tested. The patch at the VMS was plugged into the cores to line up with M2193. I will have the results to you by COB Monday.

Please let me know if you require anything else.

Regards,  
[redacted] ITS Project Manager  
[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670





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## Colin W Otto

---

**From:** e Sch.4 Part 4 s.6 Personal <[redacted]@mielectric.com.au>  
**Sent:** Friday, 15 February 2019 11:46 AM  
**To:** Colin W Otto  
**Subject:** Re: Lemke VMS  
**Attachments:** \_M2193 to LEMKE VMS\_PORT9-10.pdf; \_M2193 to LEMKE VMS\_PORT9.olts; \_M2193 to LEMKE VMS\_PORT11-12.pdf; M2193 to LEMKE VMS\_PORT9.cmax2; M2193 to LEMKE VMS\_PORT9.pdf; M2193 to LEMKE VMS\_PORT10.cmax2; M2193 to LEMKE VMS\_PORT10.pdf; M2193 to LEMKE VMS\_PORT11.cmax2; M2193 to LEMKE VMS\_PORT11.pdf; M2193 to LEMKE VMS\_PORT12.cmax2; M2193 to LEMKE VMS\_PORT12.pdf

Hey Colin,

Please see attached LSPM and VIP results from yesterday. I am awaiting OTDR results still from Stowe.

Regards,

[redacted] ITS Project Manager

[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

**Sent:** Thursday, 14 February 2019 4:04 PM

**To:** [redacted]

**Subject:** RE: Lemke VMS

Thanks, that's great. Appreciate your help.

Kind regards,

**Col Otto**

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [redacted]

E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)

W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted]@mielectric.com.au>

**Sent:** Thursday, 14 February 2019 4:04 PM

**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

**Subject:** Re: Lemke VMS

Hey Colin,

Yes, we plugged in just at the VMS only. As M2193 is looped back still.

Regards,

[redacted] ITS Project Manager

[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



**From:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Sent:** Thursday, 14 February 2019 3:43 PM  
**To:** 4 Part 4 s.6 Pers  
**Subject:** RE: Lemke VMS

Thanks mate. Are you saying you connected the patch leads between FOBOT and TMR switch at VMS?

Kind regards,

**Col Otto**  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted] <[\[redacted\]@mielectric.com.au](mailto:[redacted]@mielectric.com.au)>  
**Sent:** Thursday, 14 February 2019 3:42 PM  
**To:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Subject:** Lemke VMS

Hey Colin,

Fibre connectivity has been completed today and all 4 cores tested. The patch at the VMS was plugged into the cores to line up with M2193. I will have the results to you by COB Monday.

Please let me know if you require anything else.

Regards,

[redacted] ITS Project Manager  
[redacted] <[\[redacted\]@mielectric.com.au](mailto:[redacted]@mielectric.com.au)> | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 138 Enterprise Street, Norville QLD 4670



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\*\*\*\*\*

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## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Thursday, 14 February 2019 4:04 PM  
**To:** Colin W Otto  
**Subject:** Re: Lemke VMS

Hey Colin,

Yes, we plugged in just at the VMS only. As M2193 is looped back still.

Regards,

[redacted] ITS Project Manager

[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Sent:** Thursday, 14 February 2019 3:43 PM  
**To:** Chris Valle  
**Subject:** RE: Lemke VMS

Thanks mate. Are you saying you connected the patch leads between FOBOT and TMR switch at VMS?

Kind regards,

**Col Otto**

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted] @mielectric.com.au>  
**Sent:** Thursday, 14 February 2019 3:42 PM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** Lemke VMS

Hey Colin,

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Please let me know if you require anything else.

Regards,

[redacted] ITS Project Manager

[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670





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## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Thursday, 14 February 2019 3:42 PM  
**To:** Colin W Otto  
**Subject:** Lemke VMS

Hey Colin,

Fibre connectivity has been completed today and all 4 cores tested. The patch at the VMS was plugged into the cores to line up with M2193. I will have the results to you by COB Monday.

Please let me know if you require anything else.

Regards,

[redacted] ITS Project Manager

☎ 0439 920 127 [redacted] [mielectric.com.au](mailto:[redacted]@mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Tuesday, 5 February 2019 5:21 PM  
**To:** Colin W Otto  
**Subject:** Re: Lemke VMS

Sounds good Colin,

See you onsite.

Regards,

[redacted] ITS Project Manager

[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Date:** Tuesday, 5 February 2019 at 5:14 pm  
**To:** [redacted]@mielectric.com.au>  
**Subject:** RE: Lemke VMS

[redacted]  
I wont have switches ready by then, but as long as you prove connectivity, we will take care of the rest.

Kind regards,

Col Otto  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: colin.w.otto@tmr.qld.gov.au  
W: www.tmr.qld.gov.au

---

**From:** [redacted]  
**Sent:** 5/02/2019 4:57 PM  
**To:** [Colin W Otto](mailto:Colin.W.Otto@tmr.qld.gov.au)  
**Subject:** Re: Lemke VMS

Hey Colin,

Can do, lets make it 1pm?? BCC has confirmed the connectivity for the fibre cables.

Regards



Regards,

4 Part 4 s.6 Pers [redacted] ITS Project Manager

[redacted] [chris.valle@mielectric.com.au](mailto:chris.valle@mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

**Date:** Tuesday, 5 February 2019 at 4:51 pm

**To:** [redacted]@mielectric.com.au>

**Subject:** RE: Lemke VMS

[redacted]  
Cash we do it after lunch? I have something booked in the morning.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: [redacted]

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

---

**From:** [redacted]

**Sent:** 5/02/2019 11:37 AM

**To:** [Colin W Otto](mailto:Colin.W.Otto@tmr.qld.gov.au)

**Subject:** Lemke VMS

Hey Colin,

Can we book in fibre testing for next week Tuesday 12<sup>th</sup> Feb.

I will have my team onsite or Netcom.

Regards

Regards,

[redacted] ITS Project Manager

[redacted] [\[redacted\]@mielectric.com.au](mailto:[redacted]@mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)

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\*\*\*\*\*

Released under RTI - DTMR



## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Tuesday, 5 February 2019 4:58 PM  
**To:** Colin W Otto  
**Subject:** Re: Lemke VMS

Hey Colin,

Can do, lets make it 1pm?? BCC has confirmed the connectivity for the fibre cables.

Regards

Regards,

[redacted] ITS Project Manager  
[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Date:** Tuesday, 5 February 2019 at 4:51 pm  
**To:** [redacted]@mielectric.com.au  
**Subject:** RE: Lemke VMS

[redacted]  
Cash we do it after lunch? I have something booked in the morning.

Kind regards,

Col Otto  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: colin.w.otto@tmr.qld.gov.au  
W: www.tmr.qld.gov.au

---

**From:** [redacted]  
**Sent:** 5/02/2019 11:37 AM  
**To:** Colin W Otto  
**Subject:** Lemke VMS

Hey Colin,

Can we book in fibre testing for next week Tuesday 12<sup>th</sup> Feb.

I will have my team onsite or Netcom.

Regards

Regards,

[Redacted] ITS Project Manager

[Redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



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\*\*\*\*\*

## Colin W Otto

---

**From:** [redacted]@mielectric.com.au>  
**Sent:** Tuesday, 5 February 2019 11:37 AM  
**To:** Colin W Otto  
**Subject:** Lemke VMS

Hey Colin,

Can we book in fibre testing for next week Tuesday 12<sup>th</sup> Feb.

I will have my team onsite or Netcom.

Regards

Regards,

[redacted] ITS Project Manager

[redacted] [redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670





## Colin W Otto

---

**From:** [redacted] mielectric.com.au>  
**Sent:** Wednesday, 30 January 2019 12:43 PM  
**To:** Colin W Otto  
**Subject:** RE: Wireless NTU VMS Lemke Rd  
**Attachments:** RE: Lemke Rd - VMS QA

Hey Colin,

Please see email sent to Adrian the other day. We are waiting BCC to provide patching details for us to commission the permanent link. The VMS is currently as per original configuration prior to it being dropped and re stood. FP and group controller is still plugged in ready to go. Ill get the sheets provided filled out and sent back.

Regards

Regards,

**Chris Valle | ITS Project Manager**

[redacted] mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Sent:** Wednesday, 30 January 2019 12:39 PM  
**To:** [redacted] mielectric.com.au>  
**Subject:** RE: Wireless NTU VMS Lemke Rd

[redacted]  
Did Adrian reply?

Assuming all the gear in the VMS is as per existing prior to the project, it will be plug and play? Both the FP and VMS are still configured in STREAMS, so once the FP is connected to the NTU, they will come up. We will require commissioning sheets to be completed for the site, as per the attached.

Let me know about when you are ready for fibre, and I will meet you on site.

Kind regards,

**Col Otto**

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted] mielectric.com.au>  
**Sent:** Monday, 21 January 2019 3:05 PM  
**To:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>; Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>  
**Subject:** RE: Wireless NTU VMS Lemke Rd

Hey Colin,

It is all done and dusted. Unfortunately we don't know where the other end terminates and was pushed back to the project multiple times. Our quick resolution until BCC confirms what cores are required, was to install a NTU for commissioning purposes.

Let me know if you need help on my end.

Regards

Regards,

1.4 Part 4 s.6 Pers ITS Project Manager

 [redacted] [redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>

**Sent:** Monday, 21 January 2019 3:02 PM

**To:** [redacted] @mielectric.com.au>; Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>

**Subject:** RE: Wireless NTU VMS Lemke Rd

What is the status of the fibre?

Kind regards,

**Col Otto**

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [redacted]

E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)

W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted] @mielectric.com.au>

**Sent:** Monday, 21 January 2019 2:48 PM

**To:** Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>

**Cc:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>

**Subject:** Wireless NTU VMS Lemke Rd

Hey Adrian,

I am finally in possession of a wireless NTU taken from the GUN project. What specific details will you need to get it working at the Lemke Rd VMS??

Let me know happy to help out.

Regards

Regards,

[redacted] ITS Project Manager

 [redacted] [redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



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## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Monday, 21 January 2019 3:34 PM  
**To:** Colin W Otto; Adrian Villas  
**Subject:** RE: Wireless NTU VMS Lemke Rd

Thanks Colin,

I will confirm this lines up with the project drawings and advise on when we will test these cores as we only tested single direction. I have a DTMR cyber key if that makes it easier?

Regards,

[redacted] ITS Project Manager  
[redacted] [redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Sent:** Monday, 21 January 2019 3:14 PM  
**To:** [redacted] @mielectric.com.au>; Adrian Villas <adrian.villas@tmr.qld.gov.au>  
**Subject:** RE: Wireless NTU VMS Lemke Rd

[redacted]  
It is supposed to appear at M2193 Linkfield and Carseldine on cores 9-12 at the FOBOT. I would assume that there is to be testing to demonstrate compliance. When you need access, let me know and I can assist. Couldn't do tomorrow or Wednesday, but could do Thursday after lunch if needed.

Kind regards,

**Col Otto**  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted] @mielectric.com.au>  
**Sent:** Monday, 21 January 2019 3:05 PM  
**To:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>; Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>  
**Subject:** RE: Wireless NTU VMS Lemke Rd

Hey Colin,

It is all done and dusted. Unfortunately we don't know where the other end terminates and was pushed back to the project multiple times. Our quick resolution until BCC confirms what cores are required, was to install a NTU for commissioning purposes.

Let me know if you need help on my end.

Regards

Regards,

4 Part 4 s.6 Pers ITS Project Manager

[redacted]@mielectric.com.au | www.mielectric.com.au  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Sent:** Monday, 21 January 2019 3:02 PM  
**To:** [redacted]@mielectric.com.au; Adrian Villas <adrian.villas@tmr.qld.gov.au>  
**Subject:** RE: Wireless NTU VMS Lemke Rd

What is the status of the fibre?

Kind regards,

**Col Otto**  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: colin.w.otto@tmr.qld.gov.au  
W: www.tmr.qld.gov.au

**From:** [redacted]@mielectric.com.au  
**Sent:** Monday, 21 January 2019 2:48 PM  
**To:** Adrian Villas <adrian.villas@tmr.qld.gov.au>  
**Cc:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** Wireless NTU VMS Lemke Rd

Hey Adrian,

I am finally in possession of a wireless NTU taken from the GUN project. What specific details will you need to get it working at the Lemke Rd VMS??

Let me know happy to help out.

Regards

Regards,

**Chris Valle | ITS Project Manager**

[redacted]@mielectric.com.au | www.mielectric.com.au  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



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## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Monday, 21 January 2019 3:05 PM  
**To:** Colin W Otto; Adrian Villas  
**Subject:** RE: Wireless NTU VMS Lemke Rd

Hey Colin,

It is all done and dusted. Unfortunately we don't know where the other end terminates and was pushed back to the project multiple times. Our quick resolution until BCC confirms what cores are required, was to install a NTU for commissioning purposes.

Let me know if you need help on my end.

Regards

Regards,

[redacted] **ITS Project Manager**

[redacted] <[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)>  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Sent:** Monday, 21 January 2019 3:02 PM  
**To:** [redacted] <[redacted]@mielectric.com.au>; Adrian Villas <adrian.villas@tmr.qld.gov.au>  
**Subject:** RE: Wireless NTU VMS Lemke Rd

What is the status of the fibre?

Kind regards,

**Col Otto**

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street | Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Monday, 21 January 2019 2:48 PM  
**To:** Adrian Villas <adrian.villas@tmr.qld.gov.au>  
**Cc:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** Wireless NTU VMS Lemke Rd

Hey Adrian,

I am finally in possession of a wireless NTU taken from the GUN project. What specific details will you need to get it working at the Lemke Rd VMS??

Let me know happy to help out.

Regards

Regards,

1.4 Part 4 s.6 Pers ITS Project Manager

mielectric.com.au | www.mielectric.com.au  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



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## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Monday, 12 February 2018 5:06 PM  
**To:** Colin W Otto  
**Cc:** Adrian Villas; Kym T Eldridge; Richard Bassingthwaighte  
**Subject:** Re: LEMKE RD VMS Sign

Thanks Colin,

We are installing the GUN fibre also so either all suits.

Regards

Sent from my iPhone

On 12 Feb 2018, at 4:52 pm, Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)> wrote:

Adrian,  
Please work with Chris and BCC to get this VMS connected to either GUN fibre or Gympie Road.

Kind regards,

Col Otto  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted]  
**Sent:** 12/02/2018 8:41 AM  
**To:** [Colin W Otto](mailto:Colin W Otto)  
**Subject:** LEMKE RD VMS Sign

Hi Colin,

Hope you are well mate.

I noticed on the new fibre drawings for Lemke Rd VMS that they have no final termination point past the project Boundary. I will be sending an RFI to Georgiou regarding this.

The connection for the VMS would come from the layer 3 near the highway?? David Millar from BCC Refer to 1816 in drawing attached.

Regards



\*\*\*\*\*

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\*\*\*\*\*

Released under RTI DTMR



## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Monday, 12 February 2018 8:40 AM  
**To:** Colin W Otto  
**Subject:** LEMKE RD VMS Sign  
**Attachments:** TELEGRAPH ITS COMBINED.PDF

Hi Colin,

Hope you are well mate.

I noticed on the new fibre drawings for Lemke Rd VMS that they have no final termination point past the project Boundary. I will be sending an RFI to Georgiou regarding this.

The connection for the VMS would come from the layer 3 near the highway?? David Millar from BCC Refer to 1816 in drawing attached.

Regards

[redacted] ITS Project Manager

[redacted] [redacted] [mielectric.com.au](mailto:[redacted]@mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



## Colin W Otto

---

**From:** [redacted] Sch.4 Part 4 s.6 Personal [redacted]@mielectric.com.au>  
**Sent:** Tuesday, 12 December 2017 4:26 PM  
**To:** Adrian Villas  
**Cc:** Albert D Martin; Colin W Otto; Gerson S Ida; [redacted]@georgiou.com.au; Rick T Robinson; Aaron Hattin  
**Subject:** RE: VMS Storage - Lemke Rd VMS Decommission 20th Nov

Hi Adrian,

We have moved the VMS take down and transport to next Monday the 18<sup>th</sup>. We will be starting works after peak times and anticipate the VMS to be delivered at the Deagon depot around Middyay.

Please contact myself if required.

Regards

[redacted] ITS Project Manager

[redacted] [redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



---

**From** [redacted]  
**Sent:** Tuesday, 31 October 2017 3:15 PM  
**To:** Adrian Villas <adrian.villas@tmr.qld.gov.au>  
**Cc:** Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Gerson S Ida <Gerson.S.Ida@tmr.qld.gov.au> [redacted]@georgiou.com.au; Rick T Robinson <Rick.T.ROBINSON@tmr.qld.gov.au>  
**Subject:** RE: VMS Storage - Lemke Rd VMS Decommission 20th Nov

Hi Adrian,

The date for the removal of the VMS has been pushed back to the 11<sup>th</sup> of December. I will advise closer to the date if it is still to happen.

We will however return the cabinet to the RoadTek depot.

Please feel free to contact myself anytime.

Regards

[redacted] ITS Project Manager

[redacted] [redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



**From:** Adrian Villas [<mailto:adrian.villas@tmr.qld.gov.au>]  
**Sent:** Thursday, 26 October 2017 9:16 AM  
**To:** [redacted] Sch.4 Part 4 s.6 Personal in [mielectric.com.au](mailto:mielectric.com.au)  
**Cc:** Albert D Martin <[Albert.D.Martin@tmr.qld.gov.au](mailto:Albert.D.Martin@tmr.qld.gov.au)>; Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>; Gerson S Ida <[Gerson.S.Ida@tmr.qld.gov.au](mailto:Gerson.S.Ida@tmr.qld.gov.au)>; [redacted] <[\[redacted\]@georgiou.com.au](mailto:[redacted]@georgiou.com.au)>; Rick T Robinson <[Rick.T.ROBINSON@tmr.qld.gov.au](mailto:Rick.T.ROBINSON@tmr.qld.gov.au)>  
**Subject:** VMS Storage - Lemke Rd VMS Decommission 20th Nov

Hi [redacted]

As discussed on the phone, I have organised an alternative storage for the VMS. It will now be at RoadTek yard at Deagon Depot at 7 Depot Rd., Deagon Qld 4017. I have contacted Gerson Ida (RoadTek) and Rick Robinson (TMR) and was advised that it should be ok for now but they require the dimension and storage space requirement for the VMS. Can you please send this information. The contact at Deagon Depot for now is Rick Robinson and his contact details are below. Please advise if you need further information. Thanks.

**Rick Robinson**  
South Wing | 7 Depot Rd. | Deagon Qld 4017  
PO Box 70 | Spring Hill Qld. 4004  
P: (07) 3631 9517 | M: [redacted] F: (07) 3220 6071  
E: [Rick.T.Robinson@tmr.qld.gov.au](mailto:Rick.T.Robinson@tmr.qld.gov.au)

Kind regards,

**Adrian Villas**  
Senior Engineer (Electrical) | RPEQ 16620 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | Brisbane City - 313 Adelaide Street | Brisbane City Qld 4000  
GPO Box 1412 | Brisbane Qld 4001  
P: (07) 3066 5894 | F: (07) 3220 6071  
M: [redacted]  
E: [adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)



**From:** [redacted] [mielectric.com.au](mailto:mielectric.com.au)  
**Sent:** Wednesday, 25 October 2017 12:16 PM  
**To:** Albert D Martin <[Albert.D.Martin@tmr.qld.gov.au](mailto:Albert.D.Martin@tmr.qld.gov.au)>  
**Cc:** [mielectric.com.au](mailto:mielectric.com.au); [redacted] [mielectric.com.au](mailto:mielectric.com.au);  
**Subject:** Lemke Rd VMS Decommission 20th Nov

Hi Albert,

As discussed MIE will be decommissioning the VMS at Lemke Rd on the 20<sup>th</sup> of November. MIE have been advised to transport the VMS to the Pritchard St Depot. This will take place in the afternoon of the 20<sup>th</sup>.

MIE have currently isolated power and removed the cabinet to the VMS. As advised by yourself, MIE will transport this to 10 Oregon St Hemmant depot at earliest convenience.

I will advise if anything deviates from the current arrangement.

Regards

[Redacted] ITS Project Manager  
[Redacted] @mielectric.com.au | www.mielectric.com.au  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



\*\*\*\*\*

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\*\*\*\*\*



## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Wednesday, 1 November 2017 1:42 PM  
**To:** Adrian Villas  
**Cc:** Albert D Martin; Colin W Otto; Gerson S Ida; [redacted] Rick T Robinson; [redacted]  
**Subject:** RE: VMS Storage - Lemke Rd VMS Decommission 20th Nov  
**Attachments:** JT-C-1044-MA-020-035-120 VMS B\_2 - signed.pdf

Hi Adrian,

Please see attached dimensions for the VMS.

Let me know if you require anything else.

Regards

[redacted] ITS Project Manager  
[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



---

**From:** [redacted]  
**Sent:** Tuesday, 31 October 2017 3:14 PM  
**To:** 'Adrian Villas' <adrian.villas@tmr.qld.gov.au>  
**Cc:** Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Gerson S Ida <Gerson.S.Ida@tmr.qld.gov.au> [redacted] @georgiou.com.au; Rick T Robinson <Rick.T.ROBINSON@tmr.qld.gov.au>  
**Subject:** RE: VMS Storage - Lemke Rd VMS Decommission 20th Nov

Hi Adrian,

The date for the removal of the VMS has been pushed back to the 11<sup>th</sup> of December. I will advise closer to the date if it is still to happen.

We will however return the cabinet to the RoadTek depot.

Please feel free to contact myself anytime.

Regards

[redacted] ITS Project Manager  
[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



**From:** Adrian Villas [<mailto:adrian.villas@tmr.qld.gov.au>]  
**Sent:** Thursday, 26 October 2017 9:16 AM  
**To:** [redacted] <[\[redacted\]@mielectric.com.au](mailto:[redacted]@mielectric.com.au)>  
**Cc:** Albert D Martin <[Albert.D.Martin@tmr.qld.gov.au](mailto:Albert.D.Martin@tmr.qld.gov.au)>; Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>; Gerson S Ida <[Gerson.S.Ida@tmr.qld.gov.au](mailto:Gerson.S.Ida@tmr.qld.gov.au)> [redacted] <[\[redacted\]@georgiou.com.au](mailto:[redacted]@georgiou.com.au)>; Rick T Robinson <[Rick.T.ROBINSON@tmr.qld.gov.au](mailto:Rick.T.ROBINSON@tmr.qld.gov.au)>  
**Subject:** VMS Storage - Lemke Rd VMS Decommission 20th Nov

Hi [redacted]

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*Rick Robinson*  
South Wing | 7 Depot Rd. | Deagon Qld 4017  
PO Box 70 | Spring Hill Qld. 4004  
P: (07) 3631 9517 | M: [redacted] | F: (07) 3220 6071  
E: [Rick.T.Robinson@tmr.qld.gov.au](mailto:Rick.T.Robinson@tmr.qld.gov.au)

Kind regards,

**Adrian Villas**  
Senior Engineer (Electrical) | RPEQ 16620 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | Brisbane City - 313 Adelaide Street | Brisbane City Qld 4000  
GPO Box 1412 | Brisbane Qld 4001  
P: (07) 3066 5894 | F: (07) 3220 6071  
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E: [adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

Released under RTI/TMR



**From:** [redacted] <[\[redacted\]@mielectric.com.au](mailto:[redacted]@mielectric.com.au)>  
**Sent:** Wednesday, 25 October 2017 12:16 PM  
**To:** Albert D Martin <[Albert.D.Martin@tmr.qld.gov.au](mailto:Albert.D.Martin@tmr.qld.gov.au)>  
**Cc:** [redacted] <[\[redacted\]@mielectric.com.au](mailto:[redacted]@mielectric.com.au)> [redacted] <[\[redacted\]@mielectric.com.au](mailto:[redacted]@mielectric.com.au)> [redacted] <[\[redacted\]@georgiou.com.au](mailto:[redacted]@georgiou.com.au)>  
**Subject:** Lemke Rd VMS Decommission 20th Nov

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Regards

.4 Part 4 s.6 Pers ITS Project Manager

   @mielectric.com.au | www.mielectric.com.au  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



\*\*\*\*\*

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\*\*\*\*\*

## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Tuesday, 31 October 2017 3:15 PM  
**To:** Adrian Villas  
**Cc:** Albert D Martin; Colin W Otto; Gerson S Ida; [redacted]@georgiou.com.au; Rick T Robinson  
**Subject:** RE: VMS Storage - Lemke Rd VMS Decommission 20th Nov

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Please feel free to contact myself anytime.

Regards

[redacted] ITS Project Manager  
[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



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**From:** Adrian Villas [mailto:adrian.villas@tmr.qld.gov.au]  
**Sent:** Thursday, 26 October 2017 9:16 AM  
**To:** [redacted]@mielectric.com.au  
**Cc:** Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Gerson S Ida <Gerson.S.Ida@tmr.qld.gov.au>; [redacted]@georgiou.com.au; Rick T Robinson <Rick.T.ROBINSON@tmr.qld.gov.au>  
**Subject:** VMS Storage - Lemke Rd VMS Decommission 20th Nov

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*Rick Robinson*

South Wing | 7 Depot Rd. | Deagon Qld 4017  
PO Box 70 | Spring Hill Qld. 4004  
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Kind regards,

**Adrian Villas**

Senior Engineer (Electrical) | RPEQ 16620 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | Brisbane City - 313 Adelaide Street | Brisbane City Qld 4000  
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W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)



From: [redacted]@mielectric.com.au]

Sent: Wednesday, 25 October 2017 12:16 PM

To: Albert D Martin <[Albert.D.Martin@tmr.qld.gov.au](mailto:Albert.D.Martin@tmr.qld.gov.au)>

Cc: [redacted]@mielectric.com.au>; [redacted]@mielectric.com.au>; [redacted]@georgiou.com.au>

Subject: Lemke Rd VMS Decommission 20th Nov

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I will advise if anything deviates from the current arrangement.

Regards

**Chris Valle | ITS Project Manager**

[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



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\*\*\*\*\*

Released under RTI - DTMR

## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Thursday, 26 October 2017 12:04 PM  
**To:** Adrian Villas  
**Cc:** Albert D Martin; Colin W Otto; Gerson S Ida; [redacted]@georgiou.com.au; Rick T Robinson; [redacted]  
**Subject:** RE: VMS Storage - Lemke Rd VMS Decommission 20th Nov

Thanks Adrian,

This will also minimise the risk during transport.

I will look into the dimensions and advise.

Regards

[redacted] ITS Project Manager

[redacted] [redacted] <[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)>  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



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**From:** Adrian Villas [mailto:adrian.villas@tmr.qld.gov.au]  
**Sent:** Thursday, 26 October 2017 9:16 AM  
**To:** [redacted] <[redacted]@mielectric.com.au>  
**Cc:** Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Gerson S Ida <Gerson.S.Ida@tmr.qld.gov.au>; [redacted] <[redacted]@georgiou.com.au>; Rick T Robinson <Rick.T.ROBINSON@tmr.qld.gov.au>  
**Subject:** VMS Storage - Lemke Rd VMS Decommission 20th Nov

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E: [Rick.T.Robinson@tmr.qld.gov.au](mailto:Rick.T.Robinson@tmr.qld.gov.au)

Kind regards,

**Adrian Villas**

Senior Engineer (Electrical) | RPEQ 16620 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | Brisbane City - 313 Adelaide Street | Brisbane City Qld 4000  
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W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)



From: [redacted]@mielectric.com.au]  
Sent: Wednesday, 25 October 2017 12:16 PM  
To: Albert D Martin <[Albert.D.Martin@tmr.qld.gov.au](mailto:Albert.D.Martin@tmr.qld.gov.au)>  
Cc: [redacted]commission@mielectric.com.au> [redacted]@mielectric.com.au>; [redacted]  
[redacted]@georgiou.com.au>  
Subject: Lemke Rd VMS Decommission 20th Nov

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I will advise if anything deviates from the current arrangement.

Regards

[redacted] ITS Project Manager  
[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



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**Colin W Otto**

---

**From:** [redacted] e Sch.4 Part 4 s.6 Personal <[redacted]@mielectric.com.au>  
**Sent:** Tuesday, 19 September 2017 1:00 PM  
**To:** Colin W Otto  
**Subject:** Touch Base and MRTS 245 July Rev

Hi Colin,

Just thought I would touch base with you and include my contact details.

I'm also after the updated MRTS245 as the email on the website is no longer valid as I receive mail errors.  
ITS\_&\_Electrical\_Technology@tmr.qld.gov.au

Hope you are doing well and please feel free to flick my details to Neil as well.

Regards

[redacted] ITS Project Manager  
[redacted] [redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Monday, 18 February 2019 1:48 PM  
**To:** [redacted]  
**Cc:** Chris L Mason; Osman Sivac  
**Subject:** RE: Lemke VMS

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

[redacted]  
We haven't connected the VMS to STREAMS yet. Looking at the link loss results you sent me, I need 2 x 5db attenuators installed at one end of the link. Osman is chasing some up now. Once installed, I will let you know that we are ready to commission the VMS.

Cheers,  
Col

---

**From:** [redacted] mielectric.com.au>  
**Sent:** Monday, 18 February 2019 12:01 PM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** Lemke VMS

Hey Colin,

Are we able to meet onsite sometime this week to go through the paper work for the VMS?

Regards

Regards,

[redacted] ITS Project Manager

[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Thursday, 14 February 2019 4:04 PM  
**To:** 4 Part 4 s.6 Per  
**Subject:** RE: Lemke VMS

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Thanks, that's great. Appreciate your help.

Kind regards,

**Col Otto**  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: 4 Part 4 s.6 Per  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted] mielectric.com.au>  
**Sent:** Thursday, 14 February 2019 4:04 PM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** Re: Lemke VMS

Hey Colin,

Yes, we plugged in just at the VMS only. As M2193 is looped back still.

Regards,

[redacted] ITS Project Manager  
[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Sent:** Thursday, 14 February 2019 3:43 PM  
**To:** [redacted]  
**Subject:** RE: Lemke VMS

Thanks mate. Are you saying you connected the patch leads between FOBOT and TMR switch at VMS?

Kind regards,

**Col Otto**  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)



**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Thursday, 14 February 2019 3:42 PM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** Lemke VMS

Hey Colin,

Fibre connectivity has been completed today and all 4 cores tested. The patch at the VMS was plugged into the cores to line up with M2193. I will have the results to you by COB Monday.

Please let me know if you require anything else.

Regards,

[redacted] ITS Project Manager  
[redacted]@mielectric.com.au | www.mielectric.com.au  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



\*\*\*\*\*

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\*\*\*\*\*

## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Thursday, 14 February 2019 3:44 PM  
**To:** [redacted] 4 Part 4 s.6 Per  
**Subject:** RE: Lemke VMS

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

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Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
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Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
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39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Thursday, 7 February 2019 10:16 AM  
**To:** Osman Sivac  
**Cc:** Rudy Budianto  
**Subject:** RE: Lemke VMS

Great. We will need this plus 2 SFPs for next week.

Kind regards,

Col Otto  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000  
P: (07) 30665638  
M: [4 Part 4 s.6 Pers](#)  
E: colin.w.otto@tmr.qld.gov.au  
W: www.tmr.qld.gov.au

---

**From:** [Osman Sivac](#)  
**Sent:** 7/02/2019 9:55 AM  
**To:** [Colin W Otto](#)  
**Cc:**  
**Subject:** RE: Lemke VMS

Yes, we do! Moxa EDS-P510.

---

**From:** Colin W Otto  
**Sent:** Wednesday, 6 February 2019 5:37 PM  
**To:** Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>  
**Subject:** RE: Lemke VMS

Do you have any Moxa with 3 SFP ports?

Kind regards,

Col Otto  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000  
P: (07) 30665638  
M:

E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [Osman Sivac](#)  
**Sent:** 6/02/2019 11:06 AM  
**To:** [Colin W Otto](#)  
**Subject:** Re: Lemke VMS

Hi Colin  
We got none.  
We can give you two Moxa 508 A (left over from Gympie road).  
Will do same job.

Sent from my Samsung Mobile on the Telstra Mobile Network

----- Original message -----

**From:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Date:** 5/2/19 5:19 pm (GMT+10:00)  
**To:** Osman Sivac <[Osman.Z.Sivac@tmr.qld.gov.au](mailto:Osman.Z.Sivac@tmr.qld.gov.au)>  
**Subject:** RE: Lemke VMS

Need 2. Don't order any, just do you have any we can use temporarily?

Kind regards,

Col Otto  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000  
P: (07) 30665638  
M: 1.4 Part 4 s.6 Pers  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [Colin W Otto](#)  
**Sent:** 5/02/2019 5:18 PM  
**To:** [Osman Sivac](#)  
**Subject:** FW: Lemke VMS

Osman,  
Do we have any Ethernet fibre media convertors? Moxa IMC101.

Kind regards,

Col Otto  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office



Floor 11 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: [redacted] 4 Part 4 s.6 Pers

E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)

W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted]  
**Sent:** 5/02/2019 4:57 PM  
**To:** [Colin W Otto](mailto:Colin W Otto)  
**Subject:** Re: Lemke VMS

Hey Colin,

Can do, lets make it 1pm?? BCC has confirmed the connectivity for the fibre cables.

Regards

Regards,

[redacted] ITS Project Manager

[redacted] h.4 Part 4 s.6 Perso [redacted] [@mielectric.com.au](mailto:[redacted]@mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Date:** Tuesday, 5 February 2019 at 4:51 pm  
**To:** [redacted] [mielectric.com.au](mailto:[redacted]@mielectric.com.au)>  
**Subject:** RE: Lemke VMS

[redacted]  
Cash we do it after lunch? I have something booked in the morning.

Kind regards,

Col Otto  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: [redacted]

E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)

W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted]  
**Sent:** 5/02/2019 11:37 AM  
**To:** [Colin W Otto](mailto:Colin W Otto)  
**Subject:** Lemke VMS

Hey Colin,

Can we book in fibre testing for next week Tuesday 12<sup>th</sup> Feb.

I will have my team onsite or Netcom.

Regards

Regards,

1.4 Part 4 s.6 Pers ITS Project Manager

   [mielectric.com.au](http://mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



\*\*\*\*\*

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\*\*\*\*\*

## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Tuesday, 5 February 2019 5:15 PM  
**To:** [redacted] 4 Part 4 s.6 Per  
**Subject:** RE: Lemke VMS

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

[redacted]  
I wont have switches ready by then, but as long as you prove connectivity, we will take care of the rest.

Kind regards,

Col Otto  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: colin.w.otto@tmr.qld.gov.au  
W: www.tmr.qld.gov.au

---

**From:** [redacted]  
**Sent:** 5/02/2019 4:57 PM  
**To:** [Colin W Otto](#)  
**Subject:** Re: Lemke VMS

Hey Colin,

Can do, lets make it 1pm?? BCC has confirmed the connectivity for the fibre cables.

Regards

Regards,

[redacted] ITS Project Manager  
[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Date:** Tuesday, 5 February 2019 at 4:51 pm  
**To:** [redacted]@mielectric.com.au>  
**Subject:** RE: Lemke VMS

[redacted]  
Cash we do it after lunch? I have something booked in the morning.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: [REDACTED] Part 4 s.6 Pers

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

---

**From** [REDACTED]

**Sent:** 5/02/2019 11:37 AM

**To:** [Colin W Otto](#)

**Subject:** Lemke VMS

Hey Colin,

Can we book in fibre testing for next week Tuesday 12<sup>th</sup> Feb.

I will have my team onsite or Netcom.

Regards

Regards,

[REDACTED] ITS Project Manager

 [REDACTED] [REDACTED] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7, 138 Enterprise Street, Norville QLD 4670



\*\*\*\*\*

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\*\*\*\*\*

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## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Tuesday, 5 February 2019 4:52 PM  
**To:** [REDACTED]  
**Subject:** RE: Lemke VMS

[REDACTED]  
Cash we do it after lunch? I have something booked in the morning.

Kind regards,

Col Otto  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000  
P: (07) 30665638  
M: [REDACTED]  
E: colin.w.otto@tmr.qld.gov.au  
W: www.tmr.qld.gov.au

---

**From:** [REDACTED]  
**Sent:** 5/02/2019 11:37 AM  
**To:** [Colin W Otto](#)  
**Subject:** Lemke VMS

Hey Colin,

Can we book in fibre testing for next week Tuesday 12<sup>th</sup> Feb.

I will have my team onsite or Netcom.

Regards

Regards,

[REDACTED] ITS Project Manager  
[REDACTED]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Wednesday, 30 January 2019 12:39 PM  
**To:** [redacted] 4 Part 4 s.6 Per  
**Subject:** RE: Wireless NTU VMS Lemke Rd  
**Attachments:** Field Processor R2\_0.doc; VMS Commissioning Sheet R3\_0.doc.docx

[redacted]  
Did Adrian reply?

Assuming all the gear in the VMS is as per existing prior to the project, it will be plug and play? Both the FP and VMS are still configured in STREAMS, so once the FP is connected to the NTU, they will come up. We will require commissioning sheets to be completed for the site, as per the attached.

Let me know about when you are ready for fibre, and I will meet you on site.

Kind regards,

### Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
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W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Monday, 21 January 2019 3:05 PM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Adrian Villas <adrian.villas@tmr.qld.gov.au>  
**Subject:** RE: Wireless NTU VMS Lemke Rd

Hey Colin,

It is all done and dusted. Unfortunately we don't know where the other end terminates and was pushed back to the project multiple times. Our quick resolution until BCC confirms what cores are required, was to install a NTU for commissioning purposes.

Let me know if you need help on my end.

Regards

Regards,

[redacted] ITS Project Manager  
[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Sent:** Monday, 21 January 2019 3:02 PM  
**To:** [redacted] <[redacted]@mielectric.com.au>; Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>  
**Subject:** RE: Wireless NTU VMS Lemke Rd

What is the status of the fibre?

Kind regards,

**Col Otto**

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)

W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

From [redacted] [mielectric.com.au](mailto:mielectric.com.au)>

Sent: Monday, 21 January 2019 2:48 PM

To: Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>

Cc: Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>

Subject: Wireless NTU VMS Lemke Rd

Hey Adrian,

I am finally in possession of a wireless NTU taken from the GUN project. What specific details will you need to get it working at the Lemke Rd VMS??

Let me know happy to help out.

Regards

Regards,

[redacted] ITS Project Manager

[redacted] [@mielectric.com.au](mailto:[redacted]@mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



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## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Monday, 21 January 2019 3:14 PM  
**To:** [redacted] 4 Part 4 s.6 Per Adrian Villas  
**Subject:** RE: Wireless NTU VMS Lemke Rd

[redacted]

It is supposed to appear at M2193 Linkfield and Carseldine on cores 9-12 at the FOBOT. I would assume that there is to be testing to demonstrate compliance. When you need access, let me know and I can assist. Couldn't do tomorrow or Wednesday, but could do Thursday after lunch if needed.

Kind regards,

**Col Otto**  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted]@mielectric.com.au>  
**Sent:** Monday, 21 January 2019 3:05 PM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Adrian Villas <adrian.villas@tmr.qld.gov.au>  
**Subject:** RE: Wireless NTU VMS Lemke Rd

Hey Colin,

It is all done and dusted. Unfortunately we don't know where the other end terminates and was pushed back to the project multiple times. Our quick resolution until BCC confirms what cores are required, was to install a NTU for commissioning purposes.

Let me know if you need help on my end.

Regards

Regards,

[redacted] ITS Project Manager  
[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Sent:** Monday, 21 January 2019 3:02 PM  
**To:** [redacted]@mielectric.com.au>; Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>  
**Subject:** RE: Wireless NTU VMS Lemke Rd

What is the status of the fibre?

Kind regards,

**Col Otto**  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
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W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted] <[\[redacted\]@mielectric.com.au](mailto:[redacted]@mielectric.com.au)>  
**Sent:** Monday, 21 January 2019 2:48 PM  
**To:** Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>  
**Cc:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Subject:** Wireless NTU VMS Lemke Rd

Hey Adrian,

I am finally in possession of a wireless NTU taken from the GUN project. What specific details will you need to get it working at the Lemke Rd VMS??

Let me know happy to help out.

Regards

Regards,

[redacted] ITS Project Manager

[redacted] <[\[redacted\]@mielectric.com.au](mailto:[redacted]@mielectric.com.au)> | [www.mielectric.com.au](http://www.mielectric.com.au)  
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## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Monday, 21 January 2019 3:02 PM  
**To:** [redacted] Part 4 s.6 Pe Adrian Villas  
**Subject:** RE: Wireless NTU VMS Lemke Rd

What is the status of the fibre?

Kind regards,

**Col Otto**  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted]@mielectric.com.au>  
**Sent:** Monday, 21 January 2019 2:48 PM  
**To:** Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>  
**Cc:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Subject:** Wireless NTU VMS Lemke Rd

Hey Adrian,

I am finally in possession of a wireless NTU taken from the GUN project. What specific details will you need to get it working at the Lemke Rd VMS??

Let me know happy to help out.

Regards

Regards,

[redacted] ITS Project Manager  
[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Monday, 28 May 2018 1:02 PM  
**To:** [redacted] 4 Part 4 s.6 Per  
**Subject:** RE: LEMKE RD VMS Sign  
**Attachments:** Linkfield Road Fibre Cable Drawings 2017\_05\_26 Signed.pdf

[redacted]  
The Violet tube that has been allocated to connect the VMS does not connect to CS794. Cores 1-4 of the Rose tube do.

Kind regards,

**Col Otto**  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
**Program Delivery & Operations** | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From** [redacted]@mielectric.com.au]  
**Sent:** Monday, 28 May 2018 9:44 AM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** RE: LEMKE RD VMS Sign

Hey Colin,

Do you have a copy of the current fibre design?? If not please see attached.

BCC has changed cores to be directed towards CS-794 as GUN will not be ready. We have requested DFIM confirm via the project channels. Let me know if you require further information.

Regards

[redacted] ITS Project Manager  
[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



---

**From:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Sent:** Monday, 28 May 2018 8:01 AM  
**To:** [redacted]@mielectric.com.au>  
**Subject:** RE: LEMKE RD VMS Sign

[redacted]  
What ended up happening here with Adrian? Where is our VMS connected to?

Kind regards,

**Col Otto**

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M:  4 Part 4 s.6 Pers

E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)

W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** @mielectric.com.au]

**Sent:** Monday, 12 February 2018 5:06 PM

**To:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>

**Cc:** Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>; Kym T Eldridge <[Kym.T.Eldridge@tmr.qld.gov.au](mailto:Kym.T.Eldridge@tmr.qld.gov.au)>; Richard Bassingthwaighte <[richard.z.bassingthwaighte@tmr.qld.gov.au](mailto:richard.z.bassingthwaighte@tmr.qld.gov.au)>

**Subject:** Re: LEMKE RD VMS Sign

Thanks Colin,

We are installing the GUN fibre also so either all suits.

Regards

Sent from my iPhone

On 12 Feb 2018, at 4:52 pm, Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)> wrote:

Adrian,

Please work with  and BCC to get this VMS connected to either GUN fibre or Gympie Road.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M:

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W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From**

**Sent:** 12/02/2018 8:41 AM

**To:** [Colin W Otto](#)

**Subject:** LEMKE RD VMS Sign

Hi Colin,

Hope you are well mate.

I noticed on the new fibre drawings for Lemke Rd VMS that they have no final termination point past the project Boundary. I will be sending an RFI to Georgiou regarding this.

The connection for the VMS would come from the layer 3 near the highway?? David Millar from BCC Refer to 1816 in drawing attached.

Regards

4 Part 4 s.6 Pers ITS Project Manager

   @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670  
<image001.jpg>

\*\*\*\*\*

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\*\*\*\*\*

Released under RTI - DTMR

## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Monday, 28 May 2018 8:01 AM  
**To:** [redacted] 4 Part 4 s.6 Pers  
**Subject:** RE: LEMKE RD VMS Sign

[redacted]  
What ended up happening here with Adrian? Where is our VMS connected to?

Kind regards,

**Col Otto**  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
**Program Delivery & Operations** | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted] mielectric.com.au]  
**Sent:** Monday, 12 February 2018 5:06 PM  
**To:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Cc:** Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>; Kym T Eldridge <[Kym.T.Eldridge@tmr.qld.gov.au](mailto:Kym.T.Eldridge@tmr.qld.gov.au)>; Richard Bassingthwaighte <[richard.z.bassingthwaighte@tmr.qld.gov.au](mailto:richard.z.bassingthwaighte@tmr.qld.gov.au)>  
**Subject:** Re: LEMKE RD VMS Sign

Thanks Colin,

We are installing the GUN fibre also so either all suits.

Regards

Sent from my iPhone

On 12 Feb 2018, at 4:52 pm, Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)> wrote:

Adrian,  
Please work with [redacted] and BCC to get this VMS connected to either GUN fibre or Gympie Road.

Kind regards,

Col Otto  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]

E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted] 4 Part 4 s.6 Per  
**Sent:** 12/02/2018 8:41 AM  
**To:** [Colin W Otto](#)  
**Subject:** LEMKE RD VMS Sign

Hi Colin,

Hope you are well mate.

I noticed on the new fibre drawings for Lemke Rd VMS that they have no final termination point past the project Boundary. I will be sending an RFI to Georgiou regarding this.

The connection for the VMS would come from the layer 3 near the highway?? David Millar from BCC Refer to 1816 in drawing attached.

Regards

[redacted] **ITS Project Manager**  
[redacted] [@mielectric.com.au](mailto:[redacted]@mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670  
<image001.jpg>

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\*\*\*\*\*

## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Monday, 28 May 2018 7:23 AM  
**To:** h.4 Part 4 s.6 Perso  
**Subject:** RE: GUN Cyber  
**Attachments:** TMR Electronic Key Application Form Final.pdf

[REDACTED]  
As this is part of GUN, your request will need to come through the GUN project staff. Phil Turnbull normally makes the requests. Form attached. Please submit through Phil.

Kind regards,

**Col Otto**  
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
**Program Delivery & Operations** | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [REDACTED]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [REDACTED] mielectric.com.au]  
**Sent:** Friday, 25 May 2018 2:20 PM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** GUN Cyber

Hey Colin,

I'll be taking over GUN ITS now and we are starting to install ITS devices.

I will need to gain access to the ITS Cabinet CS801. Could you please send me the form to fill out for access.

Let me know if you would like me to follow correct process to gain this access.

Hope you are well.

Regards

[REDACTED] ITS Project Manager  
[REDACTED] [chris.vaite@mielectric.com.au](mailto:chris.vaite@mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670





## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Tuesday, 8 May 2018 7:23 AM  
**To:**  4 Part 4 s.6 Per  
**Cc:** Adrian Villas; Peter N Calligeros; Annette Klein  
**Subject:** RE: Cyber Key Update

Correction on below information.

M0143 – Depot and Sandgate High Ped – Under Lend Lease Maintenance. Not in CyberLock System  
M1229 – Sandgate and Holroyd - Intersection not active in STREAMS or CyberLock System  
M1240 – Nudgee Service Centre/gateway On Ramp - Intersection not active in STREAMS or CyberLock System

Kind regards,

### Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
**Program Delivery & Operations** | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M:   
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** Colin W Otto  
**Sent:** Tuesday, 8 May 2018 7:07 AM  
**To:**  <commission@mielectric.com.au>  
**Cc:** Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>; Peter N Calligeros <[peter.n.calligeros@tmr.qld.gov.au](mailto:peter.n.calligeros@tmr.qld.gov.au)>; Annette Klein <[Annette.Z.Klein@tmr.qld.gov.au](mailto:Annette.Z.Klein@tmr.qld.gov.au)>  
**Subject:** RE: Cyber Key Update

What is the nature of your works? The 2 of the 5 sites you are requesting appear to be under the control of Lend Lease for the GUN Project. The other 3 currently do not exist in our system. If the works are GUN Project related, you will need to submit the form through Adrian Villas, the TMR ITS&E Project Representative, with appropriate authorisation from the GUN project

M0143 – Unknown Intersection not configured in STREAMS or CyberLock System  
M1229 – Unknown Intersection not configured in STREAMS or CyberLock System  
M1240 – Unknown Intersection not configured in STREAMS or CyberLock System  
M1231 – Braun and Board/Depot/Deagon Deviation – Under Lend Lease Maintenance  
M1290 – Gateway and Depot – Under Lend Lease Maintenance

Kind regards,

### Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
**Program Delivery & Operations** | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
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E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

**From:** [redacted] 4 Part 4 s.6 Pers [mailto:commission@mielectric.com.au]  
**Sent:** Friday, 4 May 2018 8:17 AM  
**To:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** Cyber Key Update

Hi Colin,

I have been given your name by Mally at SC TMR and hoping you can point me in the right direction.

Im looking to have my cyber key get some sites added to it.

Mally has updated the 5 sites that fall under South Coast but I have 5 sites that fall under Metro.

Any chance you could get them onto our key for us?

M0143  
M1229  
M1240  
M1231  
M1290

CYBER KEY NUMBER: K600EC3F1

Thanks

[redacted]

Regards,

[redacted] **Project Foreman**  
[redacted] [commission@mielectric.com.au](mailto:commission@mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



## Colin W Otto

---

**From:** Colin W Otto  
**Sent:** Tuesday, 8 May 2018 7:07 AM  
**To:** [redacted] n.4 Part 4 s.6 Perso  
**Cc:** Adrian Villas; Peter N Calligeros; Annette Klein  
**Subject:** RE: Cyber Key Update  
**Attachments:** TMR Electronic Key Application Form Final.pdf

[redacted]

What is the nature of your works? The 2 of the 5 sites you are requesting appear to be under the control of Lend Lease for the GUN Project. The other 3 currently do not exist in our system. If the works are GUN Project related, you will need to submit the form through Adrian Villas, the TMR ITS&E Project Representative, with appropriate authorisation from the GUN project.

M0143 – Unknown Intersection not configured in STREAMS or CyberLock System  
M1229 – Unknown Intersection not configured in STREAMS or CyberLock System  
M1240 – Unknown Intersection not configured in STREAMS or CyberLock System  
M1231 – Braun and Board/Depot/Deagon Deviation – Under Lend Lease Maintenance  
M1290 – Gateway and Depot – Under Lend Lease Maintenance

Kind regards,

### Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office  
**Program Delivery & Operations** | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000  
P: (07) 30665638  
M: [redacted]  
E: [colin.w.otto@tmr.qld.gov.au](mailto:colin.w.otto@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** [redacted] <mailto:commission@mielectric.com.au>  
**Sent:** Friday, 4 May 2018 8:17 AM  
**To:** Colin W Otto <[Colin.W.Otto@tmr.qld.gov.au](mailto:Colin.W.Otto@tmr.qld.gov.au)>  
**Subject:** Cyber Key Update

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Im looking to have my cyber key get some sites added to it.

Mally has updated the 5 sites that fall under South Coast but I have 5 sites that fall under Metro.

Any chance you could get them onto our key for us?

M0143  
M1229  
M1240  
M1231  
M1290

CYBER KEY NUMBER: K600EC3F1

Thanks

art 4 s.6 f

Regards,

**Project Foreman**

 [commission@mielectric.com.au](mailto:commission@mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670





## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Wednesday, 6 February 2019 10:13 AM  
**To:** Neil D Wilson  
**Cc:** Adrian Villas; Colin W Otto  
**Subject:** RE: MI Electric Cyber Key Access

Hi Neil,

The site was commissioned about 2 weeks ago, I will try to get the lock number for you.

Regards,

[redacted] Project Supervisor

[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** Neil D Wilson <Neil.D.Wilson@tmr.qld.gov.au>  
**Sent:** Wednesday, 6 February 2019 10:08 AM  
**To:** [redacted] @mielectric.com.au  
**Cc:** Adrian Villas <adrian.villas@tmr.qld.gov.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>  
**Subject:** RE: MI Electric Cyber Key Access

Hi [redacted]  
I think I told Adrian or Colin before that M1240 is not on the cyber key database. Doing a search on Nudgee in the database list the following sites:- CS560;M0372;M1209;M1241;M1242;MAL192;MAL193. So if you can check the cabinet name it could be one of those sites or it is a new lock site that has not been entered in the database.

Kind regards,

**Neil Wilson**  
Technologist (ITS) | Metropolitan Region / Brisbane Office  
**Program Delivery and Operations Branch** | Infrastructure Management & Delivery Division | Department of Transport and Main Roads

10th Flr | 313 Adelaide Street | Brisbane Qld 4000  
PO Box 70 | Spring Hill Qld 4004  
P: (07) 30665632 | F: (07) 32206071  
M: [redacted]

---

**From:** [redacted] @mielectric.com.au>  
**Sent:** Wednesday, 6 February 2019 9:59 AM  
**To:** Neil D Wilson <Neil.D.Wilson@tmr.qld.gov.au>  
**Subject:** RE: MI Electric Cyber Key Access

Sorry mate,  
The site I actually meant is M1240. Nudgee & Gateway.

Regards,

[redacted] Project Supervisor

[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

**From:** Neil D Wilson <[Neil.D.Wilson@tmr.qld.gov.au](mailto:Neil.D.Wilson@tmr.qld.gov.au)>  
**Sent:** Wednesday, 6 February 2019 9:55 AM  
**To:** [redacted] use Sch.4 Part 4 s.6 Personal info <[mielectric.com.au](mailto:mielectric.com.au)>  
**Subject:** RE: MI Electric Cyber Key Access

Hi [redacted]  
M1229 is on the list I sent you.

Kind regards,

**Neil Wilson**  
Technologist (ITS) | Metropolitan Region / Brisbane Office  
**Program Delivery and Operations Branch** | Infrastructure Management & Delivery Division | Department of Transport and Main Roads

10th Flr | 313 Adelaide Street | Brisbane Qld 4000  
PO Box 70 | Spring Hill Qld 4004  
P: (07) 30665632 | F: (07) 32206071  
M [redacted]

---

**From:** [redacted] <[\[redacted\]@mielectric.com.au](mailto:[redacted]@mielectric.com.au)>  
**Sent:** Wednesday, 6 February 2019 9:35 AM  
**To:** Neil D Wilson <[Neil.D.Wilson@tmr.qld.gov.au](mailto:Neil.D.Wilson@tmr.qld.gov.au)>  
**Cc:** Adrian Villas <[adrian.villas@tmr.qld.gov.au](mailto:adrian.villas@tmr.qld.gov.au)>; Denis S Floyd <[denis.s.floyd@tmr.qld.gov.au](mailto:denis.s.floyd@tmr.qld.gov.au)>  
**Subject:** RE: MI Electric Cyber Key Access

Thanks Neil,

I'm chasing access to M1229 also please. Sandgate & Holroyd.  
This will be access to all 8 sites on GUN.  
If you could let me no once it is added, I will go and dock the key.

Thanks

Regards,

[redacted] Project Supervisor  
[redacted] <[\[redacted\]@mielectric.com.au](mailto:[redacted]@mielectric.com.au)> | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



---

**From:** Neil D Wilson <[Neil.D.Wilson@tmr.qld.gov.au](mailto:Neil.D.Wilson@tmr.qld.gov.au)>  
**Sent:** Wednesday, 6 February 2019 8:51 AM  
**To:** [redacted] <[\[redacted\]@mielectric.com.au](mailto:[redacted]@mielectric.com.au)>

Locks Accessible to Key - CyberAudit-Web - Google Chrome

Not secure | https://10.95.0.20/CyberAuditWeb/keys/keyAccess.do?keyID=K600BBEBD

**Locks Accessible to Key: Mi Electri -** se Sch.4 Part 4 s.6 Personal in **(K600**  
**6/2/2019 8:48:46 AM**  
 Brisbane  
 22 locks

Lock	Type of Access	Details
CS801	Scheduled Access by 'Full Access'	Schedule Type: Stanc
CS801	Scheduled Access by 'Full Access'	Schedule Type: Stanc
CS801_1	Scheduled Access by 'Full Access'	Schedule Type: Stanc
CS801_2	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M0143	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M0143_1	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1229	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1229_1	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1231	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1231	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1231	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1231_1	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1234_1	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1234_2	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1238_2	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1241	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1241_1	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1242	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1242_1	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1290	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1290_1	Scheduled Access by 'Full Access'	Schedule Type: Stanc
M1290_1	Scheduled Access by 'Full Access'	Schedule Type: Stanc

Released under RTI/ATIA

expiry the GUN project key has set to for key K600A65F6  
 Next Expiration 1/6/2019 11:59 PM

Kind regards,

**Neil Wilson**

Technologist (ITS) | Metropolitan Region / Brisbane Office

**Program Delivery and Operations Branch** | Infrastructure Management & Delivery Division | Department of Transport and Main Roads

10th Flr | 313 Adelaide Street | Brisbane Qld 4000

PO Box 70 | Spring Hill Qld 4004

P: (07) 30665632 | F: (07) 32206071

M: 4 Part 4 s.6 Pers

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\*\*\*\*\*

Released under RTI - DTMR

## Colin W Otto

**From:** [redacted] use Sch.4 Part 4 s.6 Personal info@mielectric.com.au >  
**Sent:** Thursday, 17 January 2019 5:31 PM  
**To:** Colin W Otto  
**Subject:** FW: Cyber Key

Hi Colin,

I believe you may be able to help out with the below request. [redacted] is currently on nightshift so unable to help me out.

Thanks

Regards,

[redacted] Project Supervisor  
[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670

---

**From:** [redacted] @mielectric.com.au >  
**Sent:** Thursday, 17 January 2019 4:03 PM  
**To:** Adrian Villas <adrian.villas@tmr.qld.gov.au>  
**Cc:** [redacted] lendlease.com >  
**Subject:** Cyber Key

Hi Adrian,

Turns out my DTMR Metro key did not get reset after the January 1<sup>st</sup> Expiration. Could you please extend the timeframe for me please and then I will go and re-dock it.

Cheers

Mi Electri [redacted] K600BBEBD

Regards,

[redacted] Project Supervisor  
[redacted] @mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



## Colin W Otto

---

**From:** [redacted] 4 Part 4 s.6 Pers[redacted]commission@mielectric.com.au>  
**Sent:** Friday, 4 May 2018 8:17 AM  
**To:** Colin W Otto  
**Subject:** Cyber Key Update

Hi Colin,

I have been given your name by Mally at SC TMR and hoping you can point me in the right direction.

Im looking to have my cyber key get some sites added to it.

Mally has updated the 5 sites that fall under South Coast but I have 5 sites that fall under Metro.

Any chance you could get them onto our key for us?

M0143  
M1229  
M1240  
M1231  
M1290

CYBER KEY NUMBER: K600EC3F1

Thanks

[redacted]

Regards,

[redacted]

**Project Foreman**

[redacted] [commission@mielectric.com.au](mailto:commission@mielectric.com.au) | [www.mielectric.com.au](http://www.mielectric.com.au)

39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



## Colin W Otto

---

**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Thursday, 25 July 2019 2:54 PM  
**To:** [redacted]; [redacted]  
**Cc:** Colin W Otto; Albert D Martin; [redacted]; [redacted]  
**Subject:** RE: LEP Fibre Patching to BMTMC

Hi [redacted]

What are TMR trying to achieve with the testing at this stage ? I think we are a bit too early to be testing the fibre.

As Kev mentioned 1 of the nodes does not have connectivity to the TMC due to damaged fibre and the second node may only have half the cores with connectivity to the TQ TMC by Monday as we have only just installed the last section of fibre along MC10 and are still splicing the last reel2reel ready for testing.

Happy to provide access for TMR to scope but if they wish to conduct testing on the LEP fibre backbone to the TMC all nodes won't be available until mid-August.

Regards,

[redacted] **Project Manager**  
[redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



---

**From:** [redacted] <[redacted]@cpbcon.com.au>  
**Sent:** 25 July 2019 14:46  
**To:** [redacted]@transurban.com>  
**Cc:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; [redacted]@mielectric.com.au>; [redacted]@transurban.com>  
**Subject:** RE: LEP Fibre Patching to BMTMC

[redacted]

Please find attached a PCBU transfer form for the TMR representative to sign off.

Thanks

[redacted]

---

**From:** Catling, Kevin  
**Sent:** Thursday, 25 July 2019 11:35 AM  
**To:** [redacted]@transurban.com>  
**Cc:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; [redacted]



e Sch.4 Part 4 s.6 Personal i [redacted] mielectric.com.au>; [redacted] transurban.com>

**Subject:** RE: LEP Fibre Patching to BMTMC

Hi [redacted]

TMR are welcome to attend site for these nodes. The key to the cabinets is a standard 190 key which they should have, but if not MiElectric can supply one. It might be worth one of the MiElectric guys going with them anyway since the cabinets have not been handed over yet. Aaron will arrange that.(have copied him into this email)

Note that the node in zone 1 at Mt Lindesay Highway does not have the 48 core fibre connected because it was one the cables that was destroyed by the pole footing auger a few weeks ago. It is not planned to get installed and reconnected for another couple of weeks.

I will do up some access sketches and send them across. I will also send across a transfer of PCBU form to complete so that they can work under their own safety regime rather than going through our induction process etc.

[redacted]

---

**From:** [redacted]@transurban.com]

**Sent:** Thursday, 25 July 2019 8:32 AM

**To:** [redacted]@cpbcon.com.au>

**Cc:** Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

**Subject:** FW: LEP Fibre Patching to BMTMC

Good Morning [redacted]

I believe [redacted] mentioned to you yesterday that TMR would like to access to their node cabinets (Anderson st and Mt Lindesay Highway) to perform testing of the fibre link back to the BMTMC.

They are aiming to conduct the testing next Monday (29<sup>th</sup> July). They anticipate that they will get to the TMR node cabinets Monday afternoon. I've copied a rough plan below.

Can you please advise if TMR can access the sites Monday afternoon and what the access requirements are? Also I'm assuming that they'll require keys to access the cabinets, can you please advise where they can be collected from?

Thanks

As discussed, we are relying on you to arrange the access and work permits for the sites within TQ boundary.

- Mt Lindesay Node Cabinet (within LCA for project)
- Anderson St Node Cabinet (within LCA for project)
- Brandl St
- Wecker Road
- Gateway Tech Shelter

The way I see this working is we would start at CC2 and test and patch to Wecker Road, then keep hopping sites to the city until we get to BMTMC. Once we are at BMTMC, the guy at CC2 moves to Brandl St, then Mt Lindesay and finally Anderson St. We will need a full day so would be keen to start around 6.30am and go as late as needed to finish in the day. Once we get past Gateway Tech Shelter, we wouldn't need you again until we were coming back to Brandl St and the 2 node cabinets, but that will likely be very late in the day.

---

[redacted]  
ITS Engineer

Technology  
7 Brandl Street  
Eight Mile Plains QLD 4113  
Mob: 4 Part 4 s.6 Perso  
Email: [redacted]@transurban.com



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**From:** [redacted]@transurban.com>  
**Sent:** Wednesday, 24 July 2019 4:21 PM  
**To:** [redacted]@transurban.com>  
**Cc:** [redacted]@transurban.com>; [redacted]@transurban.com>  
**Subject:** RE: LEP Fibre Patching to BMTMC

Hi [redacted]

I have spoken to [redacted] and he has agreed to organise CPB's side of things so that TMR can access the sites. I suggested to him the works would likely be taking place soon - late this week or early next week. Please ensure that TMR get in contact as soon as they can to let him know dates and organise with the rest of the LEP team and ensure no clashes of workzones.

[redacted] details below:

[redacted]  
[redacted]@cpbcon.com.au  
[redacted]

Thanks,

---

[redacted]  
Site Engineer – Logan Enhancement Project  
Project Delivery QLD  
7 Brandl Street  
Eight Mile Plains QLD 4113  
Phone: +61 7 3182 2274  
Mob: [redacted]  
Email: [redacted]@transurban.com



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**From:** [redacted]@transurban.com>  
**Sent:** Tuesday, 23 July 2019 3:51 PM  
**To:** [redacted]@transurban.com>  
**Subject:** FW: LEP Fibre Patching to BMTMC

Hi [redacted]

I mentioned this a little while ago but I don't fully remember the response.

What do TMR need to do to get access to the TMR Node Cabinets on Anderson st and Mt Lindsay Highway?

1.4 Part 4 s.6 Pers  
ITS Engineer  
Technology  
7 Brandl Street  
Eight Mile Plains QLD 4113  
Mob: [redacted]  
Ema [redacted]@transurban.com



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## Colin W Otto

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**From:** [redacted] fuse Sch.4 Part 4 s.6 Personal info@mielectric.com.au >  
**Sent:** Friday, 25 May 2018 1:45 PM  
**To:** Adrian Villas; Colin W Otto  
**Cc:** Chris Valle; Andrew Conroy  
**Subject:** Lemke Road VMS

Good afternoon Adrian, Collin,

We are currently working on the Telegraph Stage 2 Project and aim to reinstall a DTMR VMS that was recovered earlier in the project on Tuesday 29<sup>th</sup>.

Could you please advise if an inspector can be present during the lift and pass on any contact details.

I would also like to submit an EWR to Energex for connection and need to know if TMR will be submitting the connect reference, alternatively I can submit the connect reference if all the billing information can be provided eg. Time of use, max demand, total wattage etc.

If you have any questions please don't hesitate to contact me.

Regards,

[redacted] **Project Manager**  
[redacted] | [redacted]@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | 2/3 Inglis Court, Bundaberg QLD 4670



## Colin W Otto

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**From:** mielectric.com.au>  
**Sent:** Tuesday, 19 March 2019 10:20 AM  
**To:** Peter N Calligeros [Part Refuse Sch.4 Part 4 s.6 Personal information]  
**Cc:** [redacted] Colin W Otto; Albert D Martin  
**Subject:** RE: M1234 - Outstanding QA

Hi Pete,

This intersection was built by Pensar, we have fixed the defects through Lendlease though. I'll chase up the defect rectification and required QA and get it across to you

Regards,

**Director**  
@mielectric.com.au | [www.mielectric.com.au](http://www.mielectric.com.au)  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



---

**From:** Peter N Calligeros <peter.n.calligeros@tmr.qld.gov.au>  
**Sent:** Tuesday, 19 March 2019 10:11 AM  
**To:** [redacted] mielectric.com.au>; Jason Morris <jason.morris@mielectric.com.au>  
**Cc:** [redacted] @jerana.com.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>  
**Subject:** M1234 - Outstanding QA

Hi [redacted] Jason,

The only intersection which is still outstanding in relation to the QA is M1234, Bracken Ridge / Barfoot St. I believe there are defects outstanding re [redacted] defect list for this intersection. Please send through the QA documentation at your earliest convenience.

Kind regards,

Peter Calligeros  
Principal Works Officer (Traffic Signals) | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | Brisbane City - 313 Adelaide Street | 313 Adelaide Street | Brisbane City Qld 4000  
PO Box 70 | Spring Hill Qld 4004  
P: (07) 30665634 | F: (07) 30664390  
M: [redacted]  
E: [peter.n.calligeros@tmr.qld.gov.au](mailto:peter.n.calligeros@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)



**From:** [redacted] <[redacted]@mielectric.com.au>  
**Sent:** Monday, 18 March 2019 4:33 PM  
**To:** [redacted] <[redacted]@mielectric.com.au>  
**Cc:** [redacted] <[redacted]@jerana.com.au>; Peter N Calligeros <[redacted]@tmr.qld.gov.au>  
**Subject:** RE: M1229

Hi All, please find attached

Regards,

[redacted] **Project Supervisor**  
[redacted] <[redacted]@mielectric.com.au | [redacted]www.mielectric.com.au  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



**From:** Jason Morris <[redacted]@mielectric.com.au>  
**Sent:** Monday, 18 March 2019 1:03 PM  
**To:** [redacted] <[redacted]@mielectric.com.au>  
**Cc:** [redacted] <[redacted]@jerana.com.au>; [redacted] <[redacted]@tmr.qld.gov.au>  
**Subject:** FW: M1229

Can you action please [redacted]

Regards,

**Jason Morris | Director**  
[redacted] <[redacted]@mielectric.com.au | [redacted]www.mielectric.com.au  
39 Commerce Circuit, Yatala QLD 4207 | Shed 7 / 138 Enterprise Street, Norville QLD 4670



**From:** Peter N Calligeros <[redacted]@tmr.qld.gov.au>  
**Sent:** Monday, 18 March 2019 1:00 PM  
**To:** [redacted] <[redacted]@jerana.com.au>  
**Cc:** Jason Morris <[redacted]@mielectric.com.au>  
**Subject:** M1229

Hi [redacted]

Have you received the as con, the 994 & the certificate of test for M1229? Sandgate / Holroyd St. I don't seem to have it.

Kind regards,

Peter Calligeros  
Principal Works Officer (Traffic Signals) | Metropolitan Region / Brisbane Office  
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | Brisbane City - 313 Adelaide Street | 313 Adelaide Street | Brisbane City Qld 4000  
PO Box 70 | Spring Hill Qld 4004  
P: (07) 30665634 | F: (07) 30664390  
M: 4 Part 4 s.6 Pers  
E: [peter.n.calligeros@tmr.qld.gov.au](mailto:peter.n.calligeros@tmr.qld.gov.au)  
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