

SCHEDULE OF PROJECT DRAWINGS

DRAWING No.	TITLE
170737-C01	GENERAL NOTES & LOCALITY PLAN
170737-C02	SECTIONS AND DETAILS
170737-C03	DEMOLITION PLAN
170737-C04	DETAILED WORKS PLAN
170737-C05	FINISHED SURFACES PLAN
170737-C06	LINEMARKING AND SIGNS INSTALLATION PLAN
170737-C07	LIGHTPOLE FOOTING DETAILS

SCHEDULE OF STANDARD DRAWINGS

DRAWING No.	TITLE
CITY OF DARWIN	
DCC-102	KERBING DETAILS
DCC-103	DRIVEWAYS
DCC-104	FOOTPATHS AND PRAM CROSSINGS
DEPARTMENT OF INFRASTRUCTURE, PLANNING & LOGISTICS	
CS3400	LINEMARKING

SURVEY DATA

1. COORDINATES ARE TO MGA94 AND LEVELS ARE TO A.H.D.
2. SURVEY UNDERTAKEN BY TRUENORTH SURVEYING ON 11 DECEMBER 2017 REFER TO SURVEY DRGs. TNS601-2107_SU01_B & SU02_B..
3. LOCATION OF CADASTRAL (PROPERTY) BOUNDARIES ARE APPROXIMATE ONLY.
4. SURVEY CONTROL STATIONS

STATION	EASTING	NORTHING	LEVEL	DESCRIPTION
S93270025	705223.364	8630198.397	30.596	BRASS PLAQUE IN CONCRETE
S93270026	705279.518	8630242.101	30.322	BRASS PLAQUE IN CONCRETE
S94163044	705312.786	8630153.530	30.439	BRASS PLAQUE IN CONCRETE

GENERAL NOTES

1. GIVE SEVEN (7) DAYS NOTICE TO CITY OF DARWIN (C.o.D.) PRIOR TO UNDERTAKING ANY WORKS IN AREAS DEEMED TO BE "PUBLIC SPACE". LODGE THE APPROPRIATE FEE AND OBTAIN THE NECESSARY PERMITS.
2. ALL SET OUT TO CIVIL DRAWINGS.
3. CONSTRUCT FINISHED SURFACE LEVELS SHOWN. ADOPT UNIFORM SLOPE BETWEEN SPECIFIED LEVELS.

EROSION & SEDIMENT CONTROL

1. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR PROVIDING ADEQUATE EROSION & SEDIMENT CONTROL AND DUST SUPPRESSION MEASURES DURING THE CONSTRUCTION PHASE AND UNTIL SUCH TIME AS THE SITE IS STABILISED.
2. DISCHARGE OF CONTAMINATED STORMWATER OR AIR POLLUTANTS FROM THE SITE IS AN OFFENCE.

PAVEMENT

1. PAVEMENT CONFIGURATION TO BE IN ACCORDANCE WITH DETAILS ON THE DRAWINGS
2. HOLD POINTS :

PROOF ROLL TESTING TO PREPARED SUBGRADE & GRAVEL BASE LAYERS;

PRE-POUR INSPECTIONS FOR ALL CONCRETE POURS;

ALL INSPECTIONS TO BE PERFORMED BY A REGISTERED ENGINEER.
3. BASE MATERIAL SHALL CONFORM TO THE FOLLOWING:

AS SIEVE (mm)	PERCENTAGE PASSING
	F.C.R. BASE / SUBBASE
75.0	-
37.5	100
19.0	90 - 100
13.2	75 - 90
9.5	60 - 80
4.75	38 - 60
2.36	25 - 45
0.425	12 - 26
0.075	6 - 14

SPECIFIC PROPERTIES	F.C.R. BASE / SUBBASE
1. LIQUID LIMIT (LL)	25% MAX.
2. PLASTICITY INDEX (PI)	1 - 6%
3. LINEAR SHRINKAGE (LS)	3%
4. PI x % PASSING 0.425mm SIEVE	180 MAX.
5. CALIFORNIA BEARING RATIO (CBR)	
4 DAY SOAKED AT 2.5mm PENETRATION AT A RELATIVE DENSITY OF	100 MIN.
6. DUST (SIEVE) RATIO (0.075/0.425 x 100)	100% MMDD
7. LOS ANGELES ABRASION (LAA) LOSS	25 - 50
COURSE GRAINED ROCK	35 MAX.
FINE GRAINED ROCK	25 MAX.

BITUMINOUS SEALING

1. IN ACCORDANCE WITH THE SPECIFICATIONS.
2. THE FOLLOWING APPLICATION RATES HAVE BEEN ADOPTED:

PRIME COAT : 1.3 LITRES PER SQUARE METRE
3. HOLD POINT : PREPARE SURFACE TO BE WITNESSED BY ENGINEER PRIOR TO SEALING

ASPHALT SURFACING

1. IN ACCORDANCE WITH THE SPECIFICATIONS.
2. DESIGN MIX DENSE GRADED TYPE 5 ASPHALT WITH A15E BINDER IN ACCORDANCE WITH DEPARTMENT OF INFRASTRUCTURE, PLANNING & LOGISTICS SPECIFICATIONS.

DENSE GRADED ASPHALT - DESIGN MIX

AS SIEVE (mm)	% PASSING (DRY MASS)
	14mm
19.0	100
13.2	85 - 100
9.5	70 - 85
6.7	62 - 75
4.75	53 - 70
2.36	35 - 52
1.18	24 - 40
0.60	15 - 30
0.30	10 - 24
0.15	7 - 16
0.075	4 - 7

VOIDS AS PER D.I.P.L. SPECIFICATIONS.

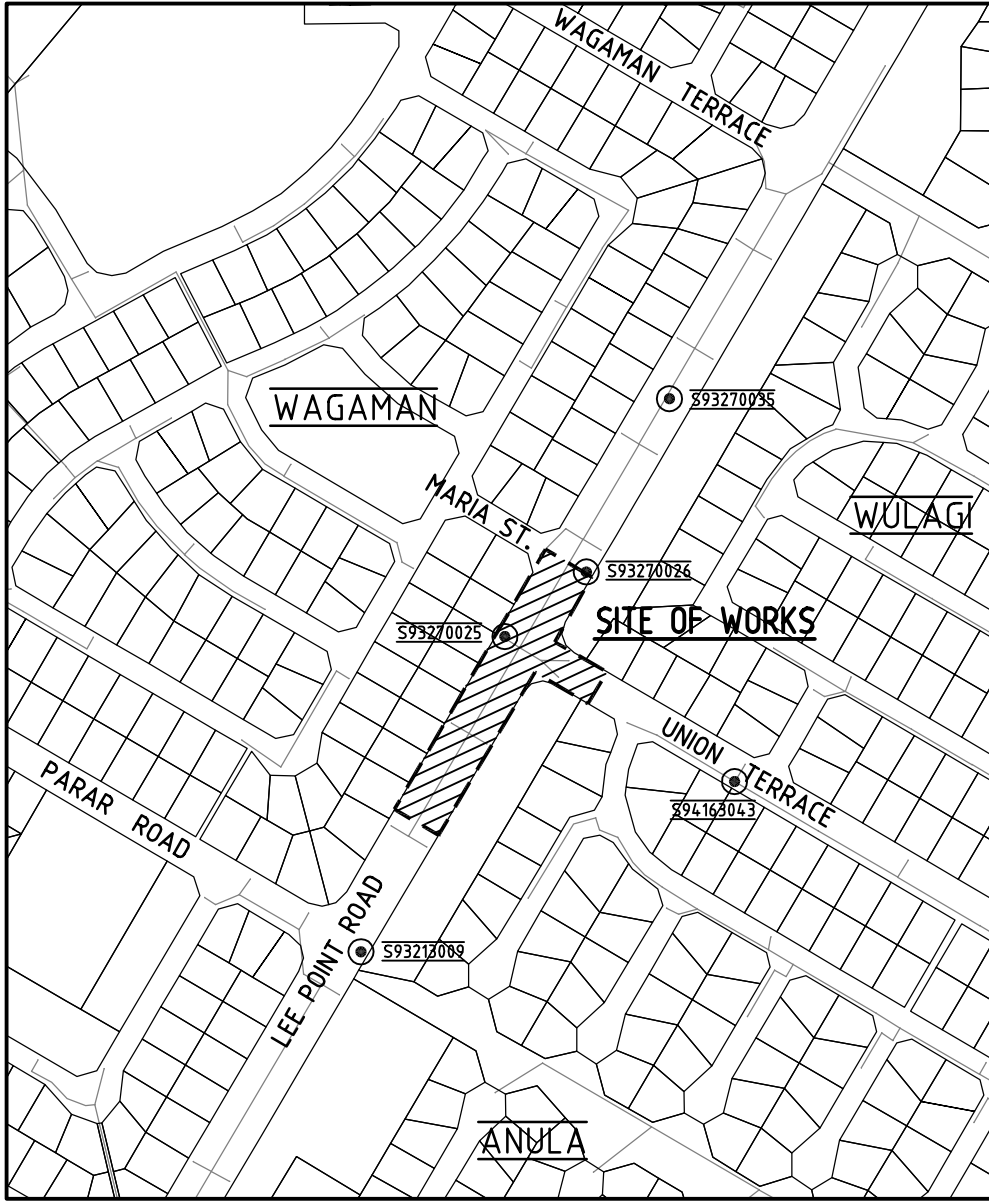
BITUMEN BINDER (% BY MASS)	4.6 - 6.4
BITUMEN FILM INDEX (MIN. MICRON)	8.0
VOIDS IN LABORATORY COMPACTED ASPHALT MIX (% VOIDS OF THE VOLUME) FOR FOLLOWING TRAFFIC CATEGORIES AND GYRATORY CYCLES:	
MEDIUM (80 CYCLES)	4 %
COMPACTED THICKNESS (mm)	40 MIN.

CONCRETE WORKS

1. CONSTRUCT KERBS IN ACCORDANCE WITH D.C.C. STD. DRG. DCC-102.
2. ALL CRACKED OR BROKEN KERBS SHALL BE RECONSTRUCTED IN FULL. PATCHING OF KERBS SHALL NOT BE PERMITTED.
3. ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH AS3600 & AS2870.
4. THE MIN. LAP LENGTH WHERE MESH HAS BEEN SPLICED SHALL BE ONE FULL MESH PANEL + 25mm.
5. SAWCUT JOINTS AT 5m MAX. SPACINGS. REFER TO DETAIL ON DRG. C02.
6. DOWELLED JOINTS AT 15m MAX. SPACINGS. REFER TO DETAIL ON DRG. C02.
7. CONCRETE SHALL BE N32 U.N.O.
8. CURE CONCRETE WITH WATER FOR A MIN. 7 DAYS POST POURING.

SIGNS & LINEMARKING

1. REMOVE ALL REDUNDANT LINEMARKING BY SAND BLASTING.
2. ALL ROAD LINEMARKING MARKING IN ACCORDANCE WITH AS1742 & STD. DRG. CS1500.
3. ALL ROAD SIGNS IN ACCORDANCE WITH AS1742.



LOCALITY PLAN
N.T.S.

● SURVEY REFERENCE MARKERS

BASIS OF DESIGN

DESIGN LIFE	: 25 YEARS
DESIGN SPEED	: LEE POINT ROAD = 80 km/h (POSTED SPEED 70 km/h)
DESIGN VEHICLE	: RIGHT TURN LANE - 19.0m LONG AUSTRROADS SEMI-TRAILER (MINIMUM TURNING RADIUS = 12.5m)
INTERSECTION DESIGN	: RIGHT TURN LANE - IN ACCORDANCE WITH AUSTRROADS ROAD DESIGN MANUAL PART 4A - CHR TREATMENT
STORMWATER DRAINAGE	: RIGHT TURN LANE - TRAFFICABLE AT Q100 STORM EVENT
PAVEMENT DESIGN	: RIGHT TURN LANE - AUSTRROADS PAVEMENT DESIGN - DESIGN TRAFFIC 1.4 x 10 ⁶ ESA's (SUBGRADE CBR 10+)
SEALING DESIGN	: RIGHT TURN LANE = 40mm ASPHALT SURFACING OVER PRIME COAT

AMENDMENTS			
No.	DESCRIPTION	DATE	INITIAL
0	ISSUED FOR TENDER	23-07-18	B.T.
1	SURVEY STATION DATA ADDED	13-08-18	B.T.
2	STANDARD DRAWINGS ADDED	19-10-18	B.T.

WARNING

ALL REASONABLE CARE HAS BEEN TAKEN TO ACCURATELY SHOW THE POSITION OF EXISTING SERVICES. HOWEVER, THE POSITION OF SUCH SERVICES SHOULD BE PROVEN ON SITE AND NO GUARANTEE CAN BE GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

W&G

WALLBRIDGE & GILBERT RFP

Consulting Engineers

7/9 Keith Lane, Fannie Bay

GPO Box 563 Darwin NT 0801

Tel : 08 8941 1678

Fax : 08 8941 5060

Email: rfp @ rfpeng.com

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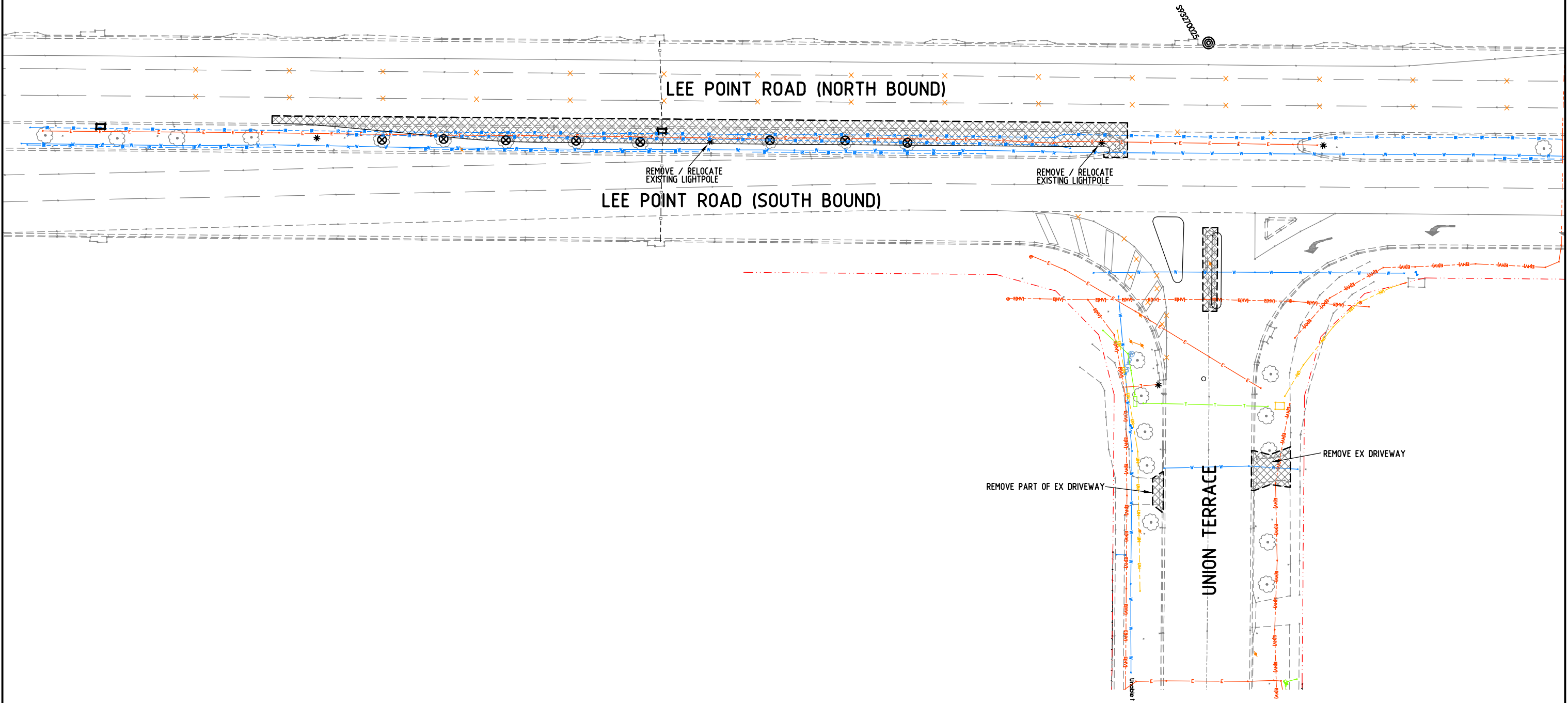
Wallbridge & Gilbert RFP

W&G PROJECT No. 170737

DRAWN B.TANG	DESIGNED S.SMITH
SCALE AS SHOWN	CHECKED W.ORILLE
APPROVED	DATE 29-01-18
	SHEET 1 OF 7

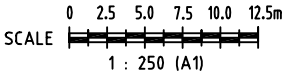
INTERSECTION UPGRADING WORKS LEE POINT ROAD / UNION TERRACE, WULAGI	
GENERAL NOTES & LOCALITY PLAN	
SHEET SIZE A1	DRAWING No. 170737-C01 AMENDT. 2





WARNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown.

- LEGEND**
- EXISTING LINEMARKING (RETAINED)
 - X — REMOVE LINEMARKING
 - [Hatched Box] REMOVE KERBING & CENTRAL MEDIAN
 - ⊗ REMOVE TREE



AMENDMENTS			
No.	DESCRIPTION	DATE	INITIAL
0	ISSUED FOR TENDER	23-07-18	B.T.
1	REMOVAL OF EX DRIVEWAYS	19-10-18	B.T.

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Consulting Engineers

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Tel : 08 8941 1678
Fax : 08 8941 5060
Email: rfp @ rfpeng.com

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Wallbridge & Gilbert RFP

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APPROVED	DATE 29-01-18
	SHEET 3 OF 7

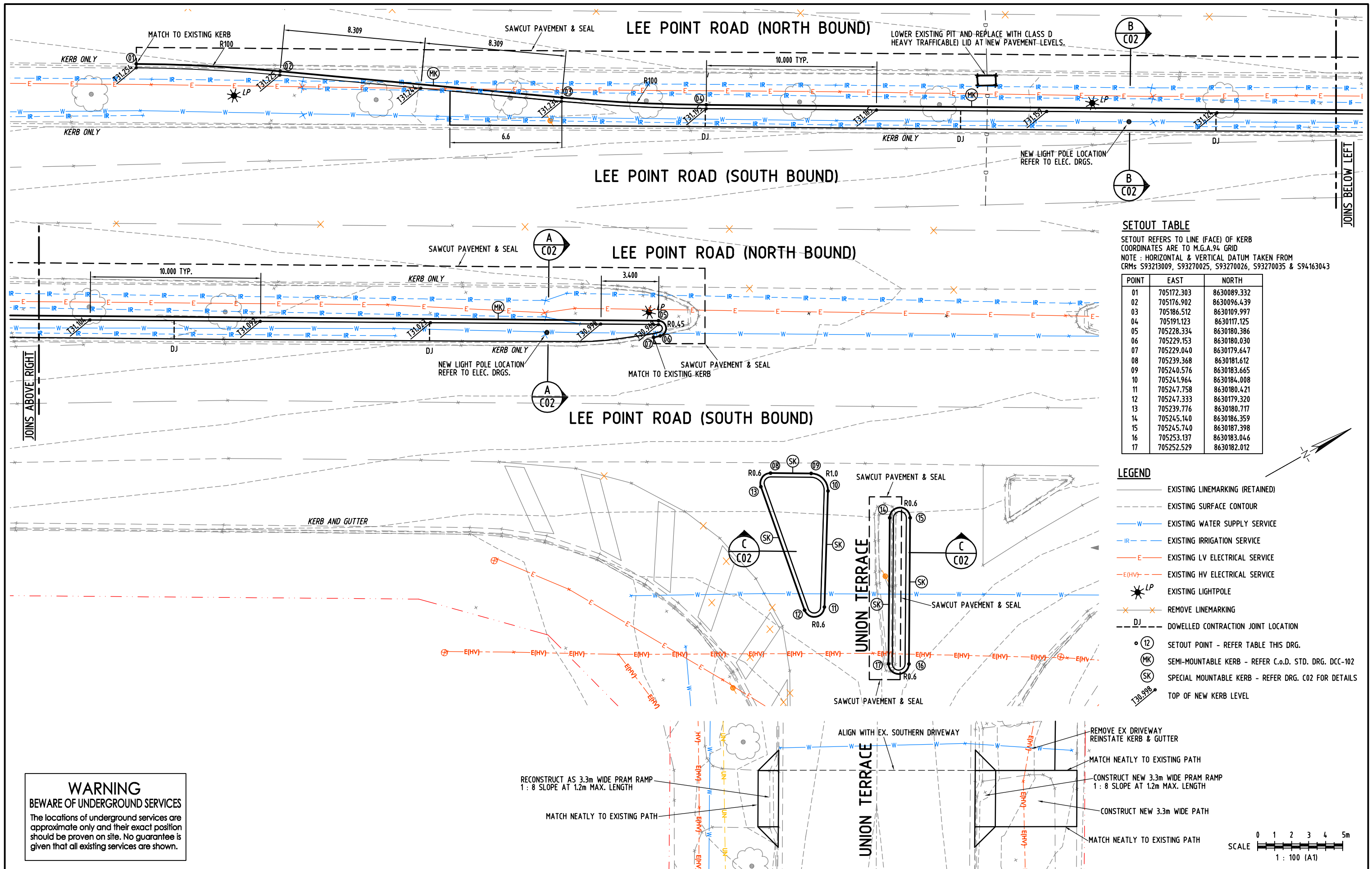
INTERSECTION UPGRADING WORKS
LEE POINT ROAD / UNION TERRACE, WULAGI

DEMOLITION PLAN

SHEET SIZE A1

DRAWING No. 170737-C03 AMENDT. 1





SETOUT TABLE

SETOUT REFERS TO LINE (FACE) OF KERB
COORDINATES ARE TO M.G.A.94 GRID
NOTE : HORIZONTAL & VERTICAL DATUM TAKEN FROM
CRMs S93213009, S93270025, S93270026, S93270035 & S94163043

POINT	EAST	NORTH
01	705172.303	8630089.332
02	705176.902	8630096.439
03	705186.512	8630109.997
04	705191.123	8630117.125
05	705228.334	8630180.386
06	705229.153	8630180.030
07	705229.040	8630179.647
08	705239.368	8630181.612
09	705240.576	8630183.665
10	705241.964	8630184.008
11	705247.758	8630180.421
12	705247.333	8630179.320
13	705239.776	8630180.717
14	705245.140	8630186.359
15	705245.740	8630187.398
16	705253.137	8630183.046
17	705252.529	8630182.012

LEGEND

---	EXISTING LINEMARKING (RETAINED)
---	EXISTING SURFACE CONTOUR
W	EXISTING WATER SUPPLY SERVICE
IR	EXISTING IRRIGATION SERVICE
E	EXISTING LV ELECTRICAL SERVICE
E(HV)	EXISTING HV ELECTRICAL SERVICE
LP	EXISTING LIGHTPOLE
X	REMOVE LINEMARKING
DJ	DOWELLED CONTRACTION JOINT LOCATION
12	SETOUT POINT - REFER TABLE THIS DRG.
MK	SEMI-MOUNTABLE KERB - REFER C.O.D. STD. DRG. DCC-102
SK	SPECIAL MOUNTABLE KERB - REFER DRG. C02 FOR DETAILS
T30.998	TOP OF NEW KERB LEVEL

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No.	DESCRIPTION	DATE	INITIAL
0	ISSUED FOR TENDER	23-07-18	B.T.
1	PRAM RAMPS AND PATHWAY ADDED	19-10-18	B.T.

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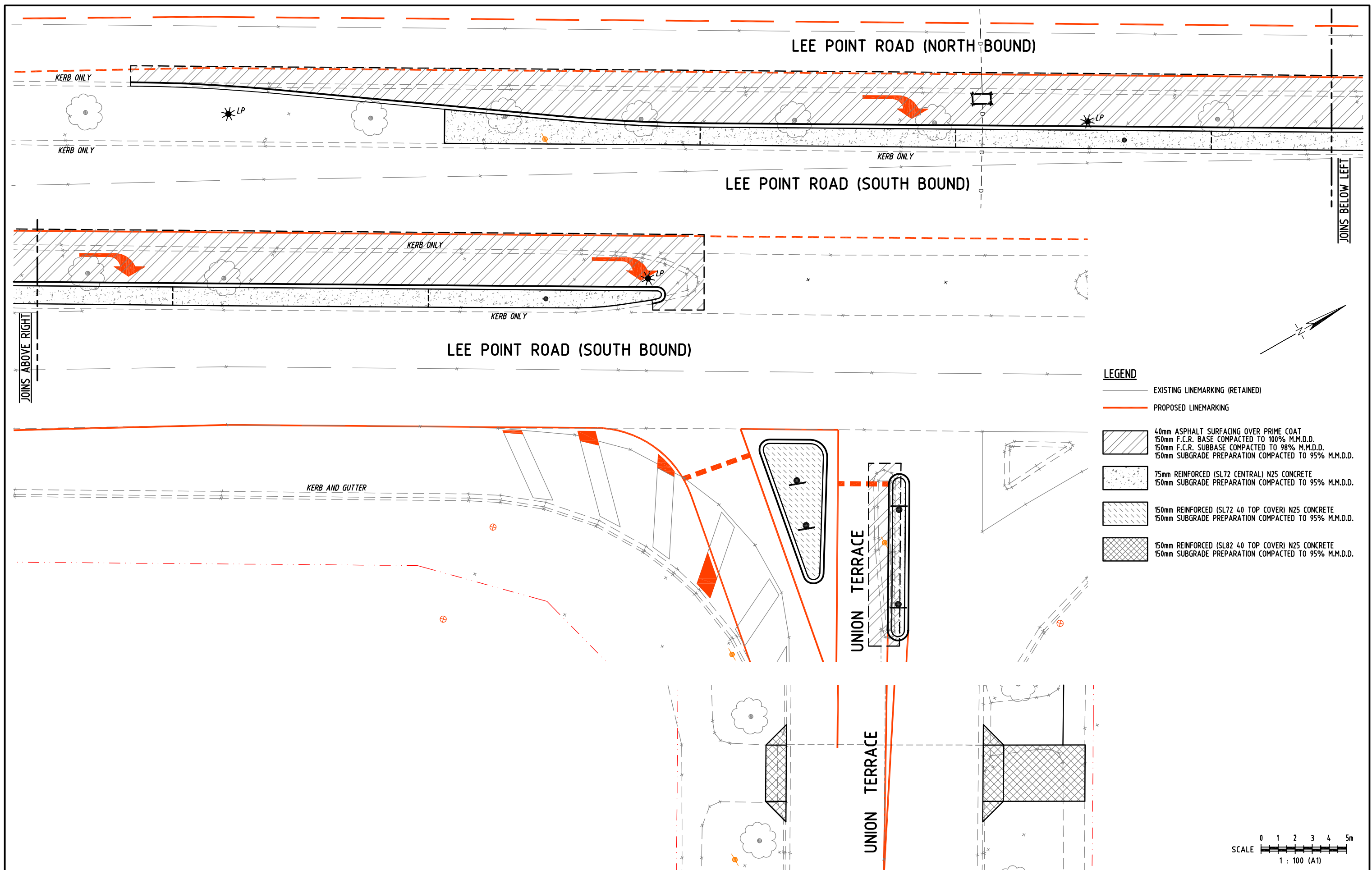
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SCALE AS SHOWN	CHECKED W.ORILLE
APPROVED	DATE 29-01-18
	SHEET 4 OF 7

INTERSECTION UPGRADING WORKS LEE POINT ROAD / UNION TERRACE, WULAGI	
DETAILED WORKS PLAN	
SHEET SIZE A1	DRAWING No. 170737-C04 AMENDT. 1





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0	ISSUED FOR TENDER	23-07-18	B.T.
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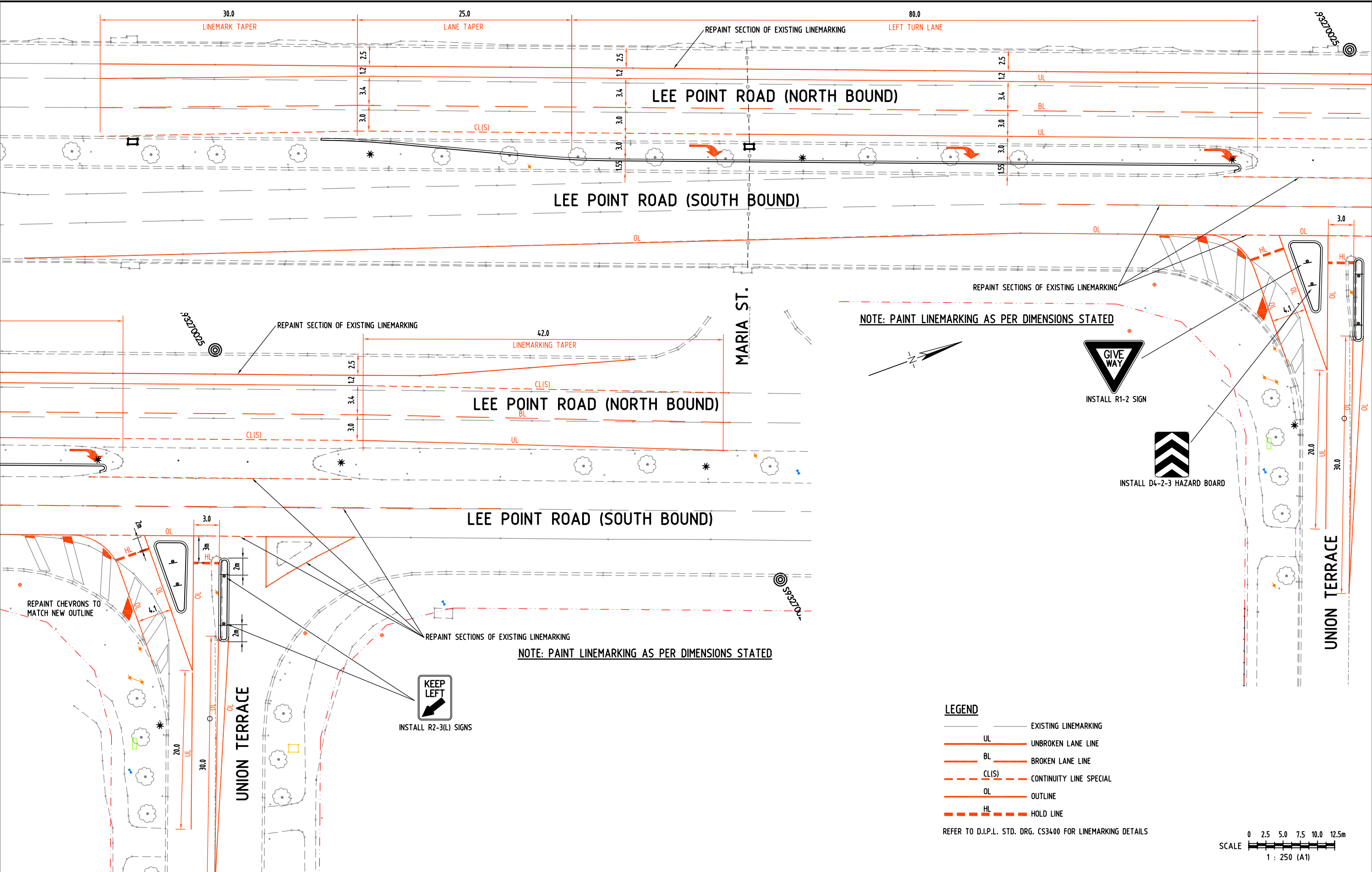
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W&G PROJECT No. 170737

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APPROVED	DATE 29-01-18
	SHEET 5 OF 7

INTERSECTION UPGRADING WORKS		
LEE POINT ROAD / UNION TERRACE, WULAGI		
FINISHED SURFACES PLAN		
SHEET SIZE	A1	DRAWING No. 170737-C05 AMENDT. 1





AMENDMENTS			
No.	DESCRIPTION	DATE	INITIAL
0	ISSUED FOR TENDER	23-07-18	B.T.
1	PAINTING OF EXISTING LINEMARKING ADDED	19-10-18	B.T.

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	SHEET 6 OF 7

INTERSECTION UPGRADING WORKS LEE POINT ROAD / UNION TERRACE, WULAGI	
LINEMARKING AND SIGNS INSTALLATION PLAN	
SHEET SIZE A1	DRAWING No. 170737-C06 AMENDT. 1





- NOTES :**
1. CONCRETE CONSTRUCTION TO COMPLY TO AS3600.
 2. CONCRETE GRADE TO BE N25.
 3. COVER TO REINFORCEMENT 75mm.

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DRAWN B.TANG	DESIGNED S.SMITH
SCALE AS SHOWN	CHECKED W.ORILLE
APPROVED	DATE 21-07-18
	SHEET 7 OF 7

INTERSECTION UPGRADING WORKS
LEE POINT ROAD / UNION TERRACE, WULAGI
LIGHT POLE FOOTING DETAILS

SHEET SIZE	A1	DRAWING No.	170737-C07	AMENDT.	0
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