

LEGEND:

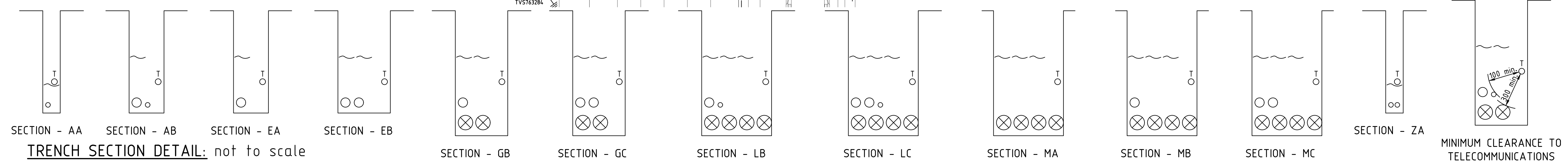
- TF EXISTING PADMOUNTED TRANSFORMER.
- TF NEW PADMOUNTED TRANSFORMER
- PILLAR
- LINK PILLAR
- EXISTING PILLAR
- SERVICE CONDUITS TO LOTS
- EARTH - PLACED AS SHOWN ON DRAWING
- STATION NUMBER
- STREET LIGHT
- EXISTING STREET LIGHT
- TRENCH/UNDERGROUND CONDUIT ROUTE WHERE 'XX' INDICATES SECTION DETAIL
- EXISTING UNDERGROUND CONDUITS
- EXISTING SWITCH
- NEW SWITCH
- NEW FUSE SWITCH
- CIRCUIT FAULT INDICATOR

CONSTRUCTION NOTES:

- STANDARD NOTES**
- CONDUIT DEPTHS, ALIGNMENTS AND TRENCHING DETAILS REFER UNDERGROUND CONSTRUCTION MANUAL TRENCHING DRAWING 5163, PROVIDE POLYMERIC CABLE PROTECTION COVER IN ACCORDANCE WITH CONSTRUCTION PRACTICES DRAWING 5124.
 - DEVELOPER TO SUPPLY AND INSTALL CONDUITS, LIGHTING FOUNDATIONS, MARKERS AND SITE FINISH.
 - DEVELOPER TO CONTACT ERGON FOR SITE AUDITS IN ACCORDANCE WITH RSC07.
 - LOCAL COUNCIL TO ACCEPT STREETLIGHTS AND POSITIONS.
 - ALTERATION TO DESIGN - ERGON ENERGY MUST BE CONTACTED ON BEFORE PROCEEDING.
 - SPECIFICATIONS
THIS WORKS PLAN IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING ERGON ENERGY MANUALS AND SPECIFICATIONS.
- RSC06 URD MAIN SPECIFICATION
- RSC07 URD CIVIL WORKS
- U/G CONSTRUCTION MANUAL
- LIGHTING CONSTRUCTION MANUAL
CONSUMERS INSTALLATION SHALL COMPLY WITH AS3000 2007 - SAA WIRING RULES
 - CIVIL WORKS CONSIST OF
- ALL TRENCHING
- ALL CONDUIT INSTALLATION
- OPENING UP AND BACKFILLING OF TRANSFORMER, PILLARS AND THE LIKE TO ALLOW FOR THE ELECTRICAL INSTALLATION.
- OPENING UP AND BACKFILLING OF REQUESTED LOCATIONS TO ENABLE ERGON INSPECTIONS.
 - ELECTRICAL WORKS CONSIST OF
- TRANSFORMER CONCRETE SURROUNDS
- ALL CABLING INSTALLATION
- LIGHT POLES, TRANSFORMERS, PILLARS AND THE LIKE
- SPECIAL NOTES**
- LIVE RETICULATION (CABLES, PILLARS AND TRANSFORMER) EXIST IN THE VICINITY OF STATIONS 1, 23, 43 AND 44, CONFIRM LOCATION OF ALL EXISTING INFRASTRUCTURE BEFORE DIGGING. CONNECTION TO THESE STATION NUMBER IS ERGON WORKS.
 - STREET LIGHT CABLES IN LV SCHEMATIC ARE NOT SHOWN. FOR MINOR STREET LIGHTS USE 4sqmm 2 CORE COPPER NEUTRAL SCREENED.
 - PROVIDE ELECTRONIC CABLE MARKERS AT HV SPARE CONDUIT ENDS AS PER ERGON'S STANDARD SPECIFICATION. ALSO PROVIDE ADDITIONAL ELECTRONIC CABLE MARKERS AS DIRECTED BY ERGON AT PRESTART.
 - WHEN REQUIRED CONCRETE ENCASE CONDUITS IN ACCORDANCE WITH ERGON STANDARDS PER DRAWINGS 5017 & 5163
 - WHEN REQUIRED CONCRETE COVER CONDUITS IN ACCORDANCE WITH ERGON STANDARDS AS PER DRAWING 5016.
 - LINK PILLAR AT STATION 21 NOMINALLY OPEN TO STATION 23.
 - LINK PILLAR AT STATION 31 IS NOMINALLY OPEN TO STATION 41
 - LINK PILLAR AT STATION 29 IS NOMINALLY OPEN TO STATION 42
 - STREET LIGHTING IS TO AS1158 CATEGORY P4.
 - ALL LIGHT POLES TO BE OFFSET 1.05m FROM THE BACK OF KERB TO CENTRE OF POLE FOUNDATION UNLESS OTHERWISE NOTED.
 - HARD MAT COVER SHALL BE PROVIDED OVER ALL CONDUITS ON NON STANDARD ALIGNMENT OR IN LANEWAYS
 - ENSURE CAUTION TAPE DEPTH IS STRICTLY IN ACCORDANCE WITH ERGON STANDARD DRAWING 5163: 350±50 BELOW FINISHED SURFACE FOR FOOTPATHS AND 500±50 FOR ROADWAYS.
 - ENSURE LIGHTING CIRCUITS ARE INSTALLED IN ACCORDANCE WITH ERGON OPERATIONAL UPDATE 20120221
 - ALL MEASUREMENTS ARE TAKEN FROM CAD DRAWINGS ENSURE SITE MEASUREMENTS OF ALL CABLE AND CONDUIT LENGTHS PRIOR TO ORDERING MATERIALS.
 - PILLARS SHALL BE OFFSET IN ACCORDANCE WITH ERGON STANDARD UNDERGROUND CONSTRUCTION MANUAL DRAWING 5196 SH 2 TO AVOID DRIVEWAY FRONTAGE OF LOTS 1100, 1105, 1106, 1108, 1110.

ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO ASHBURNER FRANCIS	
CHANGES	Yes/No
CIVIL CONTRACTOR	
COMPLETION DATE:	12/06/2019
NAME:	ANTHONY REID
SIGNATURE:	
DATE:	12/06/2019
ELECTRICAL CONTRACTOR	
COMPLETION DATE:	14/06/2019
NAME:	PAUL LANGTREE
SIGNATURE:	
DATE:	14/06/2019

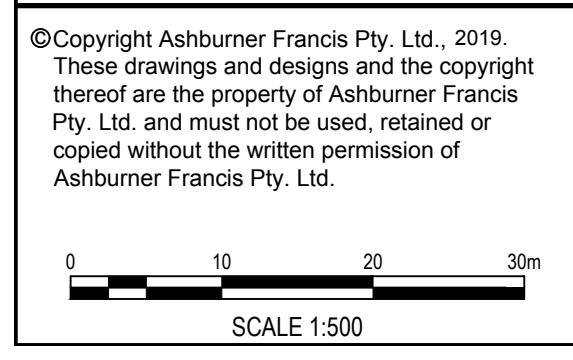
SITE PLAN: scale 1:500 @A1



LEGEND:

- CAUTION TAPE ORANGE
- TELECOMMUNICATIONS CONDUIT
- PUBLIC LIGHTING CONDUIT
- LV CONDUIT
- HV CONDUIT

FOR CONSTRUCTION



ELECTRONIC TRANSFER
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no.	date	issue/amendment	init.
D	19-03-18	REVISED ISSUE FOR CONSTRUCTION	KH
C	04-03-18	REVISED ISSUE FOR CONSTRUCTION	KH
B	25-02-18	FOR CONSTRUCTION	KH
A	17-08-18	ORIGINAL ISSUE	KH

client
ECONOMIC DEVELOPMENT QUEENSLAND

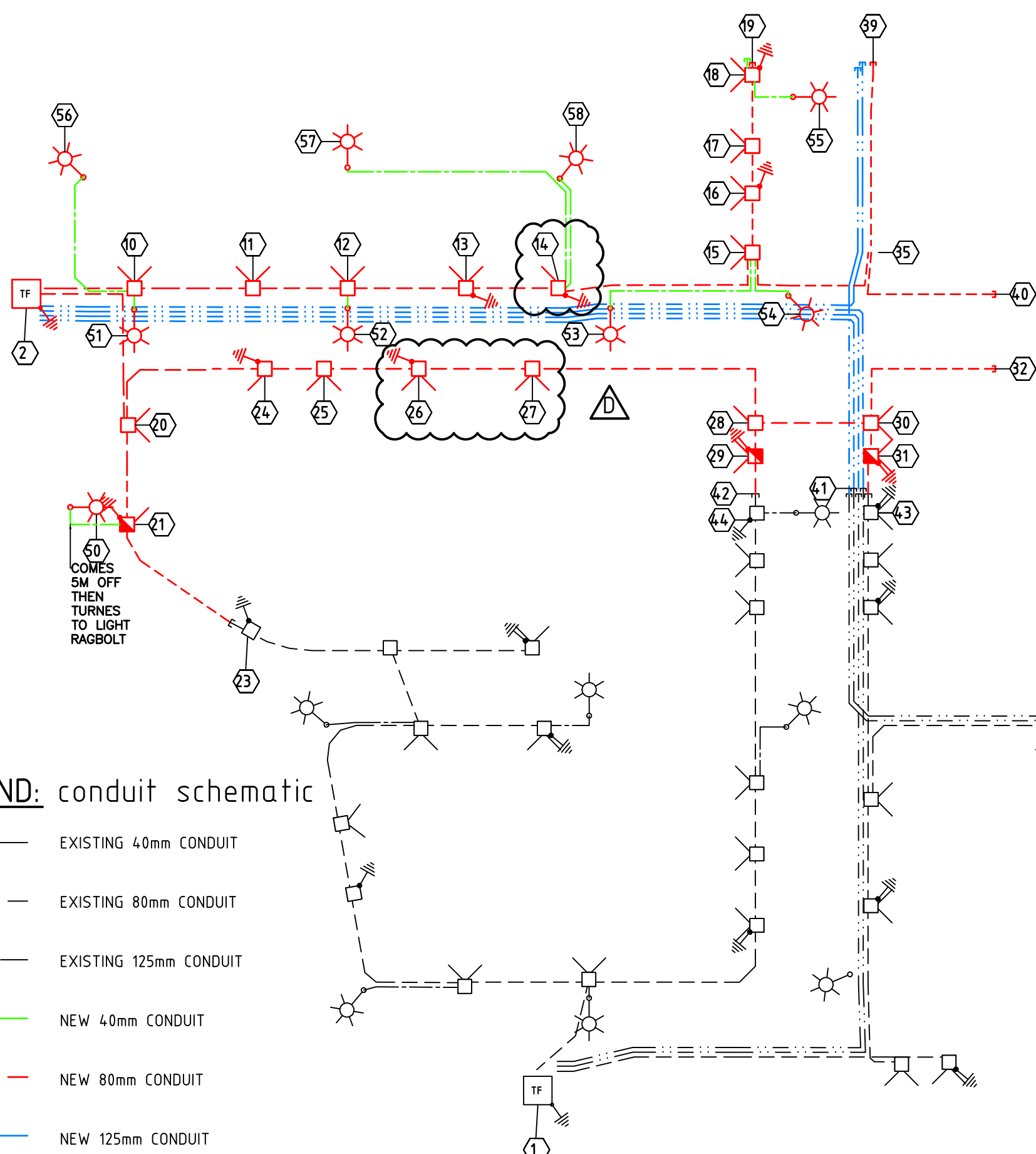
TRENCH SECTION DETAILS:
AA, AB, EA, EB, GB, GC, LC, LB, MA, MB, MC, ZA

Ashburner Francis consulting engineers
ASHBURNER FRANCIS PTY LTD (A.B.N. 48 009 975 197)
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project
THE VILLAGE STAGE 11
location
OONOONBA, TOWNSVILLE

ELECTRICAL SERVICES
title
URD AND STREET LIGHTING LAYOUT PLAN

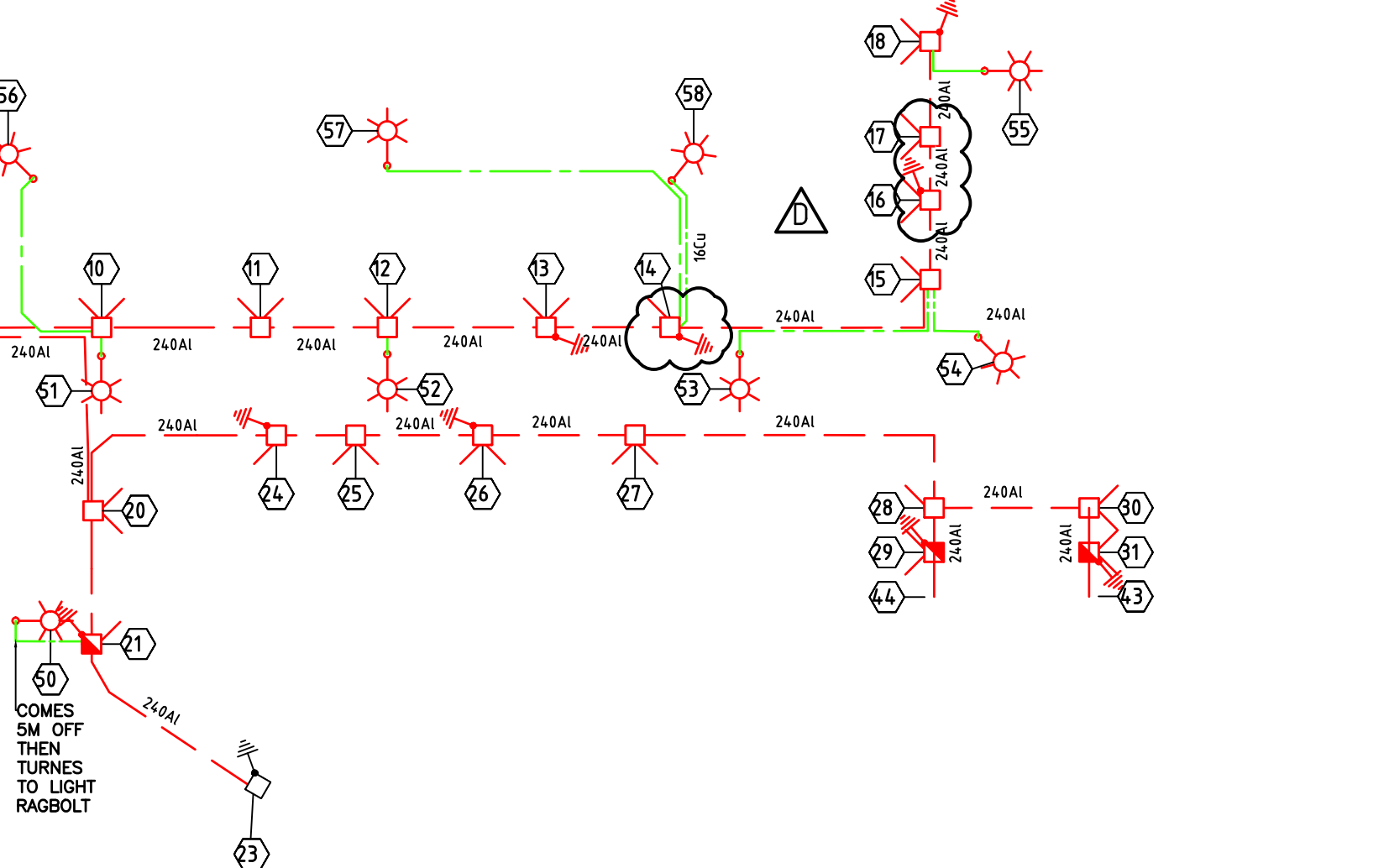
date:	AUG'2018	scale:	AS SHOWN @A1
designed:	KH	drawn:	KH
checked:	MM	CAD file name:	18-0127 E01 11 ASC
job no.	1169302	sheet no.	E01
		issue.	D



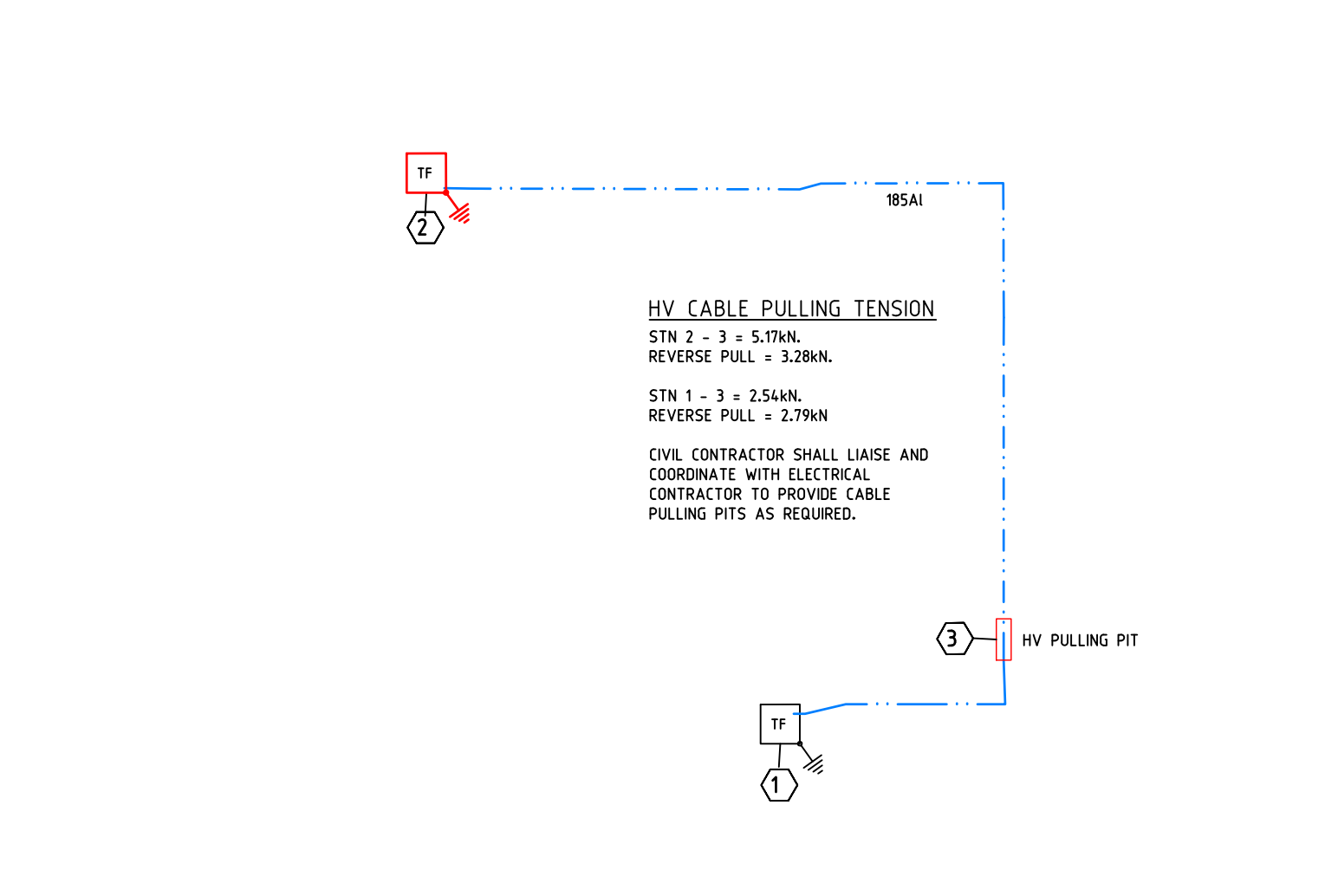
CONDUIT DUCTING SCHEDULE

STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	BENDS	REMARKS
2	10	INSTALL	C80L	20	45/1830x1	
2	20	INSTALL	C80L	50	45/1830x4	
2	39	INSTALL	C125L	230	45/1830x2, 30/1830x1	SPARE CONDUIT
2	41	INSTALL	C125L	230	45/1830x2, 30/1830x2	EXTEND EXISTING CONDUIT
2	41	INSTALL	C125L	230	45/1830x2, 30/1830x2, 15/1830x2	EXTEND EXISTING CONDUIT
2	41	INSTALL	C125L	230	45/1830x2, 30/1830x2, 15/1830x2	EXTEND EXISTING CONDUIT
10	51	INSTALL	C80L	25	45/1200x2	
10	51	INSTALL	C40H	5	90/300x2	
10	56	INSTALL	C40H	40	90/300x2, 90/600x3	
11	12	INSTALL	C80L	20	45/1200x2	
12	13	INSTALL	C80L	25	45/1200x2	
12	52	INSTALL	C40H	5	90/300x2	
13	14	INSTALL	C80L	20	45/1200x2	
14	15	INSTALL	C80L	50	45/1830x2, 45/1200x2	
14	57	INSTALL	C40H	80	90/300x2, 90/600x4	
14	58	INSTALL	C40H	30	90/300x2, 90/600x3	
15	16	INSTALL	C80L	15	45/1200x2	
15	35	INSTALL	C40H	40	45/1830x4	
15	53	INSTALL	C40H	45	90/300x2, 90/600x2	
15	54	INSTALL	C40H	26	90/300x2, 90/600x2	
16	17	INSTALL	C80L	10	45/1200x2	
17	18	INSTALL	C80L	15	45/1200x2	
18	19	INSTALL	C80L	3	45/1200x1	
18	55	INSTALL	C80L	15	90/300x2, 90/600x1	
20	21	INSTALL	C80L	21	45/1200x2	
21	22	INSTALL	C80L	35	45/1830x2, 45/1200x2	
20	24	INSTALL	C80L	45	45/1830x2, 45/1200x2	
21	50	INSTALL	C40H	15	90/300x2	
24	25	INSTALL	C80L	10	45/1200x2	
25	26	INSTALL	C80L	20	45/1200x2	
26	27	INSTALL	C80L	24	45/1200x2	
27	28	INSTALL	C80L	60	45/1830x2, 45/1200x2	
28	29	INSTALL	C80L	7	45/1200x2	
29	42	INSTALL	C80L	8	45/1200x1	
28	30	INSTALL	C80L	24	45/1200x2	
30	31	INSTALL	C80L	7	45/1200x2	
30	32	INSTALL	C80L	45	45/1200x2	
31	41	INSTALL	C80L	8	45/1200x1	
35	39	INSTALL	C80L	40	45/1830x4	
35	40	INSTALL	C80L	40	45/1830x4	
39	41	INSTALL	C125L	100	15/1830x2	EXTEND EXISTING CONDUIT

CONDUIT SCHEMATIC: not to scale



LV RETICULATION SCHEMATIC: not to scale



HV SCHEMATIC: not to scale

NOTE: HV CABLE IS TO BE PULLED FROM STATION TO STATION

UNDERGROUND CABLE SCHEDULE

STN FROM	STN TO	VOLTAGE	ACTION	CONSTRUCTION CODE	ROUTE LENGTH	CABLE LENGTH	REMARKS
1	2	11kV	INSTALL	11-185T/1720	400	420	TERMINATION AT STN 1 BY ERGON
2	10	415V	INSTALL	LVI-240C4/1611	20	23	
2	20	415V	INSTALL	LVI-240C4/1611	50	53	
10	11	415V	INSTALL	LVI-240C4/1611	25	28	
10	51	240V	INSTALL	LVI-4CU2NS/1671	4	8	
10	56	240V	INSTALL	LVI-4CU2NS/1671	37	41	
11	12	415V	INSTALL	LVI-240C4/1611	25	28	
12	13	415V	INSTALL	LVI-240C4/1611	20	23	
12	52	240V	INSTALL	LVI-4CU2NS/1671	4	8	
13	14	415V	INSTALL	LVI-240C4/1611	20	23	
14	15	415V	INSTALL	LVI-240C4/1611	50	53	
14	57	240V	INSTALL	LVI-4CU2NS/1671	72	76	
14	58	240V	INSTALL	LVI-4CU2NS/1671	26	30	
15	16	415V	INSTALL	LVI-240C4/1611	13	16	
15	53	240V	INSTALL	LVI-4CU2NS/1671	43	47	
15	54	240V	INSTALL	LVI-4CU2NS/1671	17	21	
16	17	415V	INSTALL	LVI-240C4/1611	10	13	
17	18	415V	INSTALL	LVI-240C4/1611	15	18	
18	55	240V	INSTALL	LVI-4CU2NS/1671	10	14	
20	21	415V	INSTALL	LVI-240C4/1611	21	24	
20	24	415V	INSTALL	LVI-240C4/1611	42	45	
21	23	415V	INSTALL	LVI-240C4/1611	35	38	TERMINATION AT STN 23 BY ERGON
21	50	240V	INSTALL	LVI-4CU2NS/1671	15	19	
24	25	415V	INSTALL	LVI-240C4/1611	10	13	
25	26	415V	INSTALL	LVI-240C4/1611	20	23	
26	27	415V	INSTALL	LVI-240C4/1611	24	27	
27	28	415V	INSTALL	LVI-240C4/1611	60	63	
28	29	415V	INSTALL	LVI-240C4/1611	7	10	
28	30	415V	INSTALL	LVI-240C4/1611	24	27	
29	44	415V	INSTALL	LVI-240C4/1611	10	13	TERMINATION AT STN 44 BY ERGON
30	31	415V	INSTALL	LVI-240C4/1611	7	10	
31	43	415V	INSTALL	LVI-240C4/1611	8	11	TERMINATION AT STN 43 BY ERGON

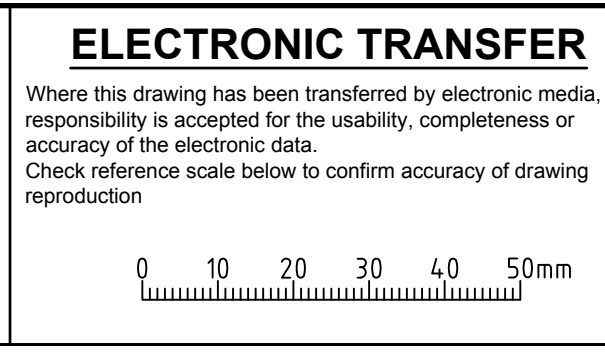
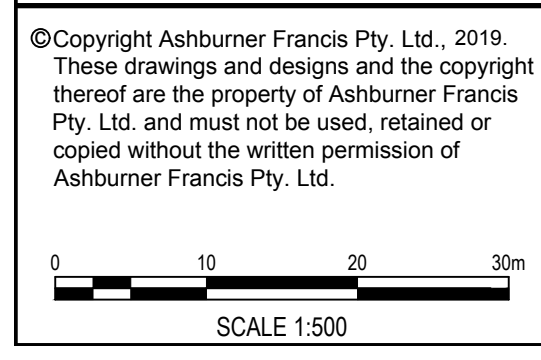
ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO ASHBURNER FRANCIS

CHANGES (Yes/No)
CIVIL CONTRACTOR
COMPLETION DATE: 12/06/2019
NAME: ANTHONY REID
SIGNATURE:
DATE: 12/06/2019
ELECTRICAL CONTRACTOR
COMPLETION DATE: 14/06/2019
NAME: PAUL LANGTREE
SIGNATURE:
DATE: 14/06/2019

STREET LIGHT SCHEDULE

STN No	ACTION (INSTALL)	STREETLIGHT TYPE	CONSTRUCTION CODE	RATE	OWNER	EASTING	NORTHING	MOUNTING HEIGHT	REMARK
50	INSTALL	18W STREET LIGHT LED (NORMAL)	SL LED 0034	RATE 2	Townsville City Council	479968.49	7867120.01	7.5m	MINOR BPM
51	INSTALL	18W STREET LIGHT LED (NORMAL)	SL LED 0034	RATE 2	Townsville City Council	479987.70	7867163.86	7.5m	MINOR BPM
52	INSTALL	18W STREET LIGHT LED (NORMAL)	SL LED 0034	RATE 2	Townsville City Council	480029.99	7867178.68	7.5m	MINOR BPM
53	INSTALL	18W STREET LIGHT LED (NORMAL)	SL LED 0034	RATE 2	Townsville City Council	480082.70	7867196.82	7.5m	MINOR BPM
54	INSTALL	18W STREET LIGHT LED (NORMAL)	SL LED 0034	RATE 2	Townsville City Council	480117.38	7867211.51	7.5m	MINOR BPM
55	INSTALL	18W STREET LIGHT LED (NORMAL)	SL LED 0034	RATE 2	Townsville City Council	480106.47	7867251.44	7.5m	MINOR BPM
56	INSTALL	32W COMPACT FLUORESCENT (NOSTALGIA)	SL N 1 CF32	RATE 2	Townsville City Council	479968.49	7867186.79	7.5m	MINOR BPM
57	INSTALL	32W COMPACT FLUORESCENT (NOSTALGIA)	SL N 1 CF32	RATE 2	Townsville City Council	480020.56	7867206.86	7.5m	MINOR BPM
58	INSTALL	32W COMPACT FLUORESCENT (NOSTALGIA)	SL N 1 CF32	RATE 2	Townsville City Council	480063.71	7867219.23	7.5m	MINOR BPM

FOR CONSTRUCTION



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no.	date	issue/amendment	init.

client

ECONOMIC DEVELOPMENT QUEENSLAND

Ashburner Francis consulting engineers

ASHBURNER FRANCIS PTY LTD (A.B.N. 48 009 975 197)

TOWNSVILLE

BRISBANE

TOOWOOMBA

DARWIN

project

THE VILLAGE STAGE 11

location

OONOONBA, TOWNSVILLE

ELECTRICAL SERVICES

title

URD AND STREET LIGHTING CONDUIT SCHEMATIC AND ELECTRICAL RETICULATION

date: AUG' 2018

scale: AS SHOWN @A1

designed: KH

drawn: KH

checked: MM

CAD file name: 18-0127 E01 11 ASC

north

1169302

job no.

E02

sheet no.

D

issue.

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