

UNDERGROUND CABLE CERTIFICATION
 All cables detailed on this drawing have been checked using the cable locator described below and are, according to measurements taken, on the correct alignment and at correct depths below the finished level, except as marked up. Alignments are subject to the accuracy of survey pages present at the time of measurement.

Make: METKORCH Model: 2009105376
 Serial No: 2009105376 Date Cable Checked: 3/12/14
 Name of Person Who Conducted Checks: Harry Bowler
 Certified (signature of checker): *[Signature]*

FOR CONSTRUCTION

ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER

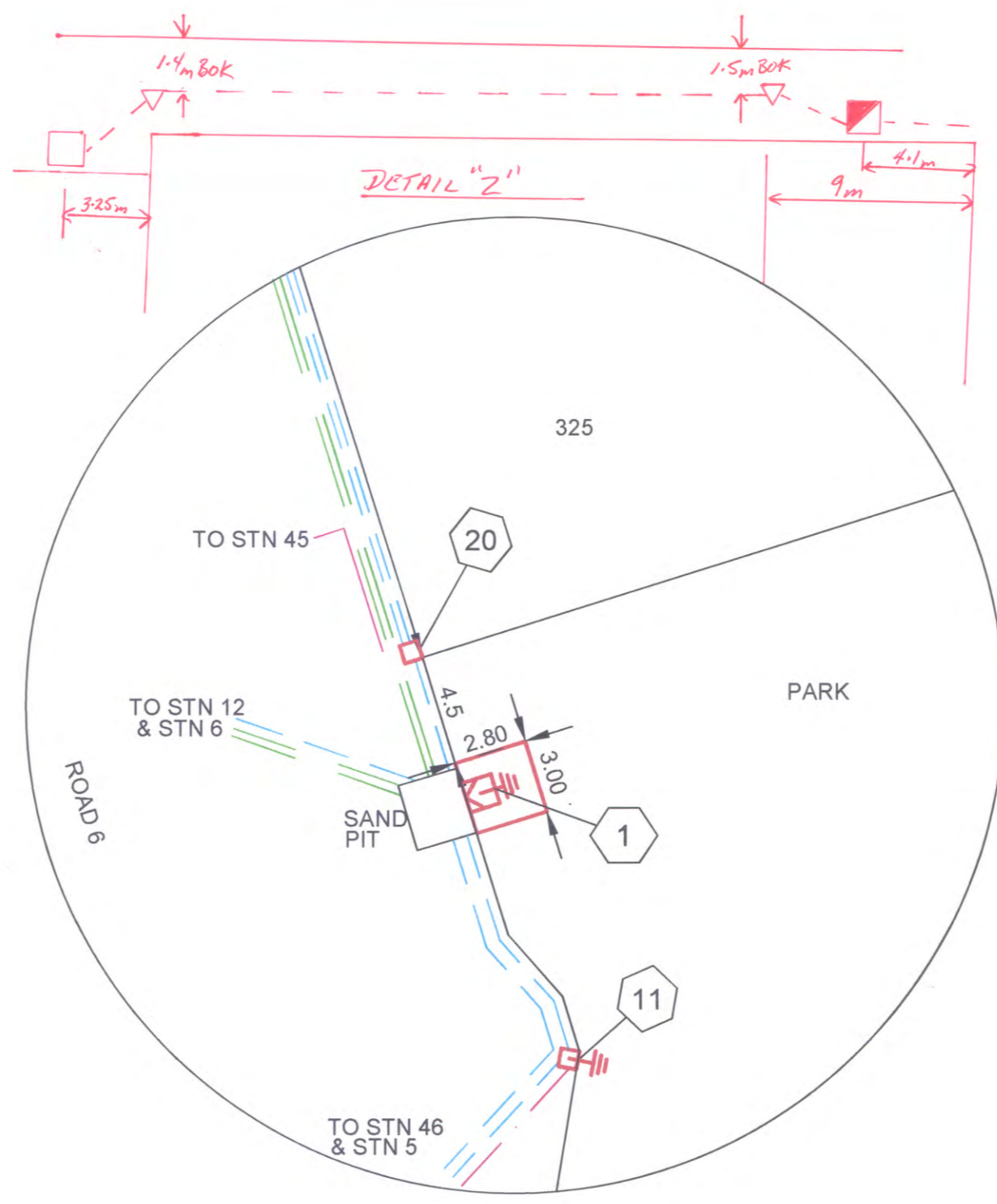
CHANGES: YES/NO

ELECTRICAL CONTRACTOR
 NAME: _____
 SIGNATURE: _____
 DATE: _____

CIVIL CONTRACTOR
 NAME: _____
 SIGNATURE: _____
 DATE: _____

WORKPLAN NOTES

- FOR STANDARD UNDERGROUND DUCT SECTIONS REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5168.
- STANDARD TRENCH ALIGNMENT IS 0.3 TO 0.9 METRES OFF PROPERTY ALIGNMENT SUBJECT TO LOCATION OF OTHER SERVICES. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5167 SHEET 1 TO 6. POLYMERIC COVER IS REQUIRED ON ALL OUT OF ALIGNMENT SECTIONS. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5022, 5167 SHEET 2 AND 4 FOR DETAILS. CABLE WARNING PLAQUES ARE REQUIRED TO BE INSTALLED IN OUT OF ALIGNMENT SECTION BESIDE THE RETAINING WALL OUT SIDE LOT 292. REFER TO DRAWINGS 5063 SHEET 1 TO 2. FOR TRENCHES WITH NBNC CONDUITS REFER TO DRAWINGS 5228 AND 5249.
- STREETLIGHT POLE FOOTINGS SHALL BE LOCATED PERPENDICULAR TO THE KERB, AT THE PROLONGATION OF THE SIDE PROPERTY BOUNDARY, UNLESS DETAILED OTHERWISE. WHERE DIMENSIONS ARE SHOWN THEY TAKE PRECEDENCE OVER GRID COORDINATES.
- ALL CONDUITS SHALL BE CONTINUOUS UNLESS DETAILS OTHERWISE.
- FOR STANDARD UDC CONSTRUCTION PRACTICES REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWINGS 5022, 5085 AND 5124.
- COIL HV CABLE AT STATION 2 FOR FINAL CONNECTION AT STN 71 BY ERGON ENERGY.
- INSTALLATION OF PADMOUNT SUBSTATION REQUIRED IN ROAD RESERVE ADJACENT TO THE PARK, STATION 1. PADMOUNT SITE 2.8 m x 3.0 m.
- DEVELOPER SHALL INSTALL PLINTH AND CONCRETE SURROUND. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWINGS 5004 & 5005 FOR THE PADMOUNT.
- INSTALL PADMOUNT SUBSTATION EARTHING - COMMON EARTH ARRANGEMENT. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5013.
- THERE ARE 7x70W HPS MAXI URBAN MINOR ROAD STREETLIGHTS ON RATE 2.
- STREETLIGHT DESIGN TO AS1158 CATEGORY P4.
- MINOR STREETLIGHTS - THE DEVELOPER SHALL SUPPLY AND INSTALL STREETLIGHT BASES. FOUNDATION DEPTH IS 1200mm FOR MINOR STREETLIGHTS. REFER TO LIGHTING CONSTRUCTION MANUAL DRAWING 1-6-4-1 & 2. CENTRELINE OF STREETLIGHT POLE SHALL BE 1m FROM THE BACK OF KERB.
- THE LIGHTING DESIGN HAS NO ALLOWANCE FOR CONSTRUCTION TOLERANCE OF LIGHT POLES. SPA MUST BE ADVISED OF ANY CHANGES TO DESIGN LOCATION AS COMPLIANCE WILL NEED TO BE VERIFIED AND APPROVALS SOUGHT FROM COUNCIL AND ERGON ENERGY.
- CONFIRM ALL CONDUIT AND CABLE LENGTHS PRIOR TO INSTALLATION.
- IN ACCORDANCE WITH ELECTRICAL SAFETY ACT, A SAFETY OBSERVER MUST BE PRESENT AT ALL TIMES WHEN WORKING IN THE VICINITY OF ENERGIZED CABLES. CONTACT ERGON ENERGY ON 131046.
- ALL CONTRACTORS MUST CARRY OUT A DIAL BEFORE YOU DIG ENQUIRY BEFORE COMMENCING ANY EXCAVATION.
- ELECTRICAL CABLE MARKERS (ECM) ARE TO BE SUPPLIED AND INSTALLED AT ENDS OF SPARE CONDUITS INCLUDING (SPARE ROAD CROSSINGS, CONDUIT STUBS FOR FUTURE STAGES, SPARE CONDUITS FOR FUTURE HV, ETC) AND AT ALL CABLE JOINTS. REFER TO ERGON STANDARD SPECIFICATIONS RSC07, RSC08, RSM01 & RSM02.
- WHERE PREVIOUSLY AGREED BY ERGON, SUPPLY AND INSTALL CONCRETE COVER ABOVE CONDUIT, WHERE CONDUIT BURIAL DEPTH IS LESS THAN THAT SPECIFIED IN UNDERGROUND CONSTRUCTION MANUAL DRAWING 5167. FOR FOOTPATHS REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5016. FOR ROAD CROSSINGS REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5017.
- SUPPLY AND INSTALL EXTRA CONDUIT BENDS TO ACHIEVE INCREASED BURIAL DEPTH AT ROAD CROSSINGS. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5022.
- INSTALL BEDDING SAND WITH A RESISTIVITY OF 0.8 ABOVE ALL HV CONDUITS ACROSS ENTIRE TRENCH WIDTH AS PER DWG 5167 BEDDING SAND MAY BE SOURCED FROM RAVENSBORNE SAND & SOIL 96 PHILIP RD RAVENSBORNE Ph 0428748125 / 0408022489 OR FROM BOLZAN AT ALLORA.



HV PULLING TENSION CALCULATED AND RECORDED

STATION FROM	STATION TO	CALCULATED	RECORDED
2	1	7411.23 N	5985 N

AS CONSTRUCTED BY
 COASTAL ENERGY (07 5456 1800)
 PRINT Harry Bowler
 SIGNED *[Signature]*
 DATE 15/12/14

Code	Date	Description	Revised	Code	Date	Description	Approved
C	28/8/14	RMU REMOVED STN 2		IDW			
B	17/7/14	EARTHING AMENDED & SITE LABELS		IDW			
A	2/7/14	FOR CONSTRUCTION & STN 11 MOVED		IDW			
4	5/6/14	NOTES ADDED & CABLE INSTALLED		IDW			
3	10/4/14	NEW LV CONDUIT & CABLE REMOVED		IDW			
2	12/2/14	FOR APPROVAL		IDW			
1	4/2/14	PRELIMINARY FOR APPROVAL		IDW			

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 consulting engineers
 Simon Perkins & Associates
 Tel: (07) 4032 3311 Fax: (07) 4032 5633
 PO Box 664 North Cairns QLD 4870
 Email Address: adm@spaconslting.com.au
 A business unit of SPA Consulting Engineers (QLD) Pty Ltd. a/n.o. 019844416

LEGEND

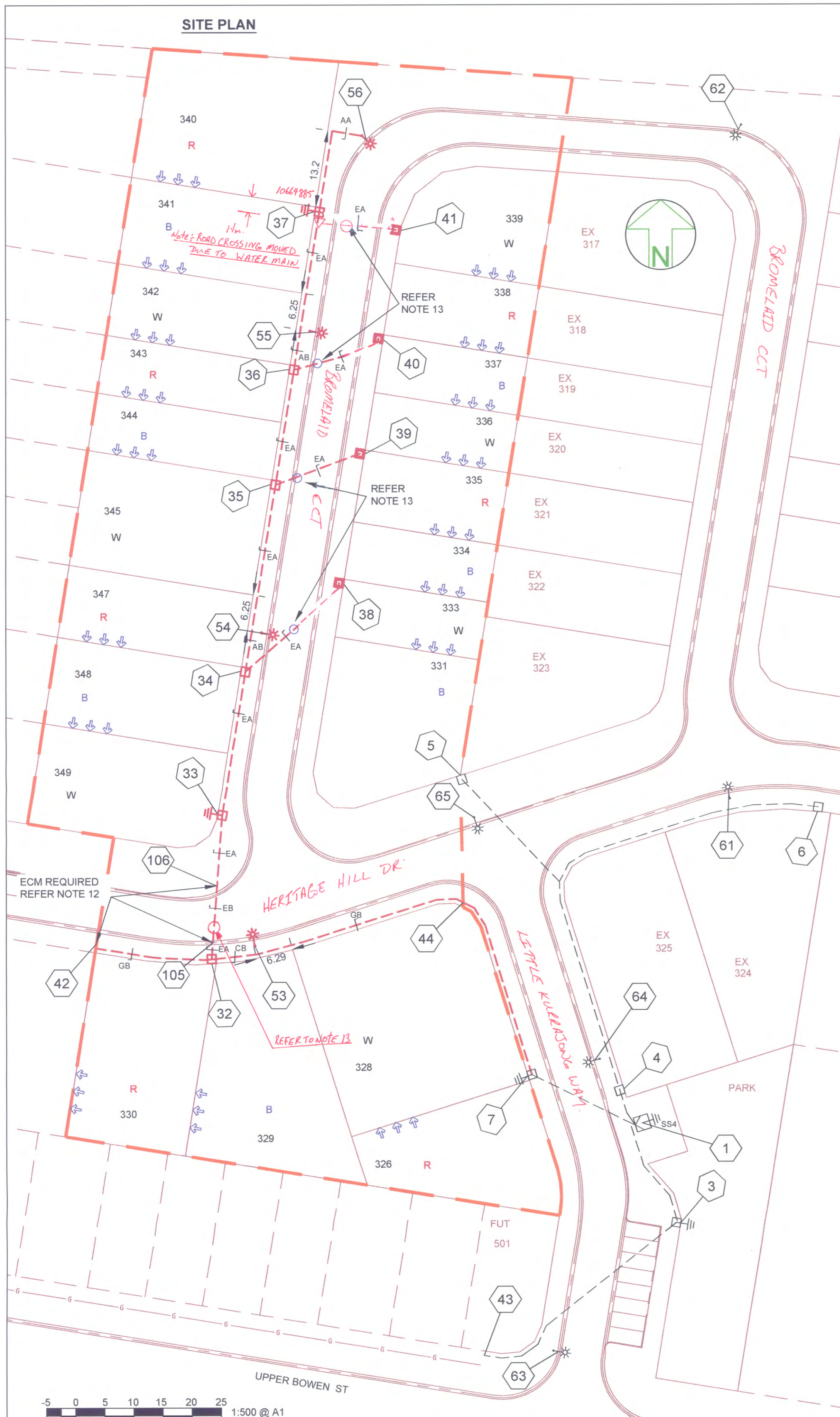
- CABLE EXISTING
- CABLE PLANNED
- CABLE RECOVER
- EQUIPMENT EXISTING
- EQUIPMENT RECOVER
- EQUIPMENT PLANNED
- HV DUCT
- LV DUCT
- LIGHTING DUCT
- 35mm sq ANNEALED BARE COPPER EARTH
- SUBSTATION
- ∨ HV ISOLATING DEVICE
- | LV ISOLATING DEVICE
- NORMAL PILLAR
- CROSS ROAD PILLAR
- LINKING PILLAR
- COMMERCIAL/ INDUSTRIAL PILLAR
- DISTRIBUTION CABINET
- * STREETLIGHT
- ⊥ EARTH
- POLE

Drawing Title
**CLEARVIEW RISE, ROMA, STAGE 3A
 UDC UG ELECTRICAL RETICULATION
 SITE PLAN
 AND DETAILS**

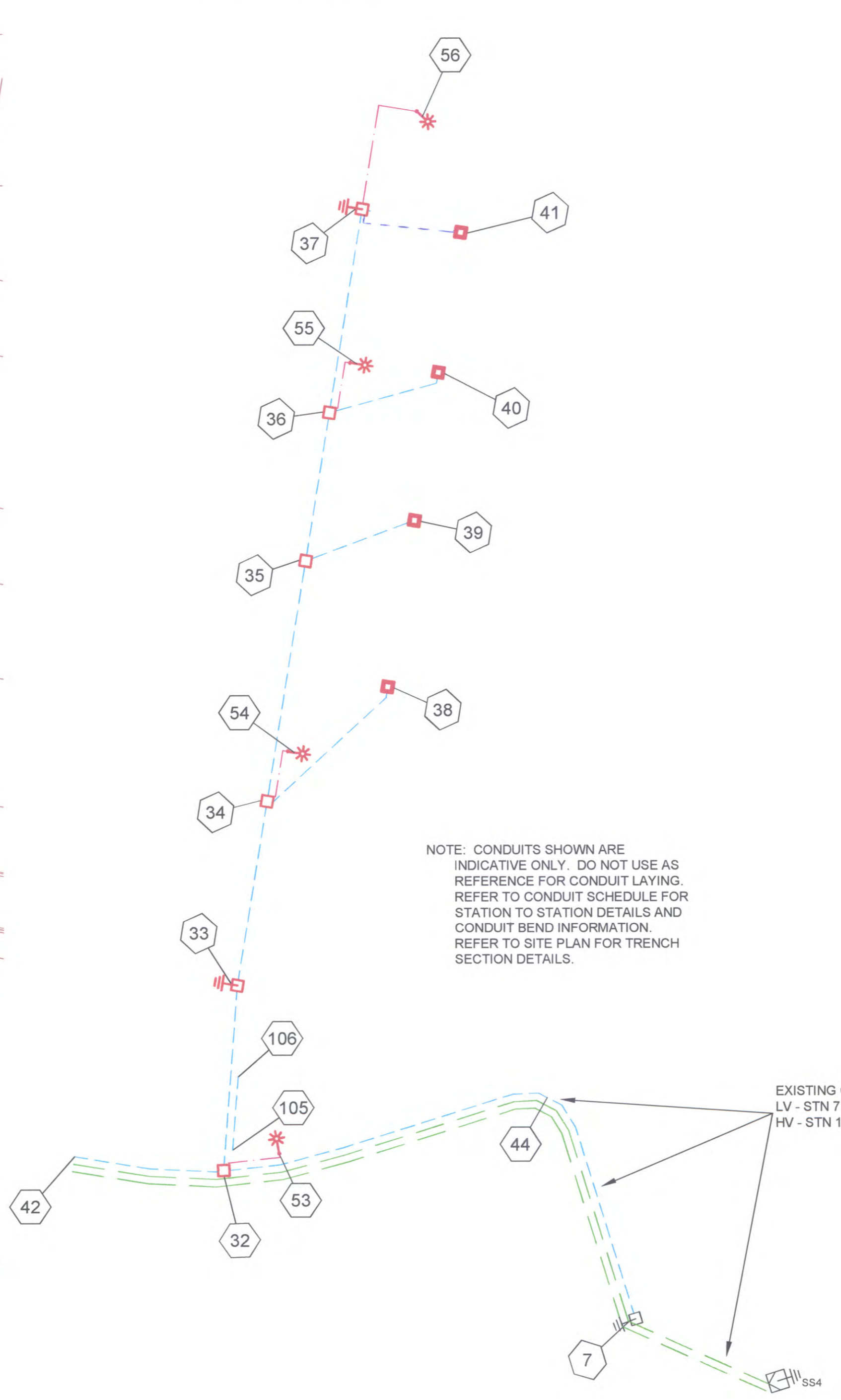
Project Description
**CLEARVIEW RISE, ROMA, STAGE 3A
 BOWEN STREET, ROMA**

Date: JAN 2014
 Scale: 1:500@A1
 Drawn: IDW
 Approved: JE
 Sheet: 1 OF 3

ERGON Project Number: 858787
 SPA Drawing Number: 2205-E01
 Revision: C



CONDUIT SCHEMATIC



WORKPLAN NOTES

- FOR STANDARD UNDERGROUND DUCT SECTIONS REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5168.
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- THERE ARE 4x70W HPS MAXI URBAN MINOR ROAD STREETLIGHTS ON RATE 2.
- STREETLIGHT DESIGN TO AS1158 CATEGORY P4.
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- ALL CONTRACTORS MUST CARRY OUT A DIAL BEFORE YOU DIG ENQUIRY BEFORE COMMENCING ANY EXCAVATION.
- INSTALL BEDDING SAND WITH A RESISTIVITY OF 0.8 ABOVE ALL HV CONDUITS ACROSS ENTIRE TRENCH WIDTH AS PER DWG 5167 BEDDING SAND MAY BE SOURCED FROM RAVENSBORNE SAND & SOIL 96 PHILIP RD RAVENSBORNE Ph 0428748125 / 0408022489 OR FROM BOLZAN AT ALLORA.

STATION: 1 AT:- LITTLE KURRAJONG WAY

CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
TFMR ISOLATOR	80X35	WB	6	TRANSFORMER ISOLATOR
1	60X20	WB	5	EXISTING
1	80X35	WB	5	EXISTING
2	60X20	WB	5	TO BROMELAID CCT 10664885 & SERVICES
2	80X35	WB	5	TO BROMELAID CCT 10664885 & SERVICES
3	60X20	WB	5	EXISTING
3	80X35	WB	5	EXISTING
4	60X20	WB	5	
4	80X35	WB	5	

UNDERGROUND CABLE CERTIFICATION

All cables detailed on this drawing have been checked using the cable locator described below and are, according to measurements taken, on the correct alignment and at correct depths below the finished level, except as marked up. Alignments are subject to the accuracy of survey pegs present at the time of measurement.

Make: NEKORICH Model: 33225-2
 Serial No: 1009103576 Date Cable Checked: 26/1/14
 Name of Person Who Conducted Check: Adam Barke
 Certified (signature of checker): [Signature]

AS CONSTRUCTED BY
 COASTAL ENERGY (07 5456 1800)
 PRINT Harry Bowtell
 SIGNED [Signature]
 DATE 18/12/14

FOR CONSTRUCTION

ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER

CHANGES: YES/NO

ELECTRICAL CONTRACTOR
 NAME: _____
 SIGNATURE: _____
 DATE: _____

CIVIL CONTRACTOR
 NAME: _____
 SIGNATURE: _____
 DATE: _____

B	29/7/14	SITE LABELS ADDED TO SHEET 2	IDW
A	3/7/14	FOR CONSTRUCTION	IDW
2	12/2/14	FOR APPROVAL	IDW
1	4/2/14	PRELIMINARY FOR APPROVAL	IDW

CLIENT: ECONOMIC DEVELOPMENT QUEENSLAND
 GPO BOX 2202 BRISBANE, QLD, 4001 Ph: 07 3174 0205 Fax
 CIVIL ENGINEER BRADLEES CIVIL CONSULTING
 PO BOX 2293 SOUTHPORT, QLD, 4215 Ph: 07 5528 8411 Fax

spa
 consulting engineers
 Simon Perkins & Associates
 Tel: (07) 4032 3311 Fax: (07) 4032 5633
 PO Box 664 North Cairns QLD 4870
 Email Address - admin@spaconsulting.com.au
 A business unit of SPA Consulting Engineers (QLD) Pty Ltd A.C.N. 010844410

LEGEND

--- CABLE EXISTING	□ SUBSTATION	□ COMMERCIAL/ INDUSTRIAL PILLAR
--- CABLE PLANNED	✓ HV ISOLATING DEVICE	□ DISTRIBUTION CABINET
--- CABLE RECOVER	□ LV ISOLATING DEVICE	□ STREETLIGHT
--- EQUIPMENT EXISTING	□ NORMAL PILLAR	□ EARTH
--- EQUIPMENT RECOVER	□ CROSS ROAD PILLAR	□ POLE
--- EQUIPMENT PLANNED	□ LINKING PILLAR	

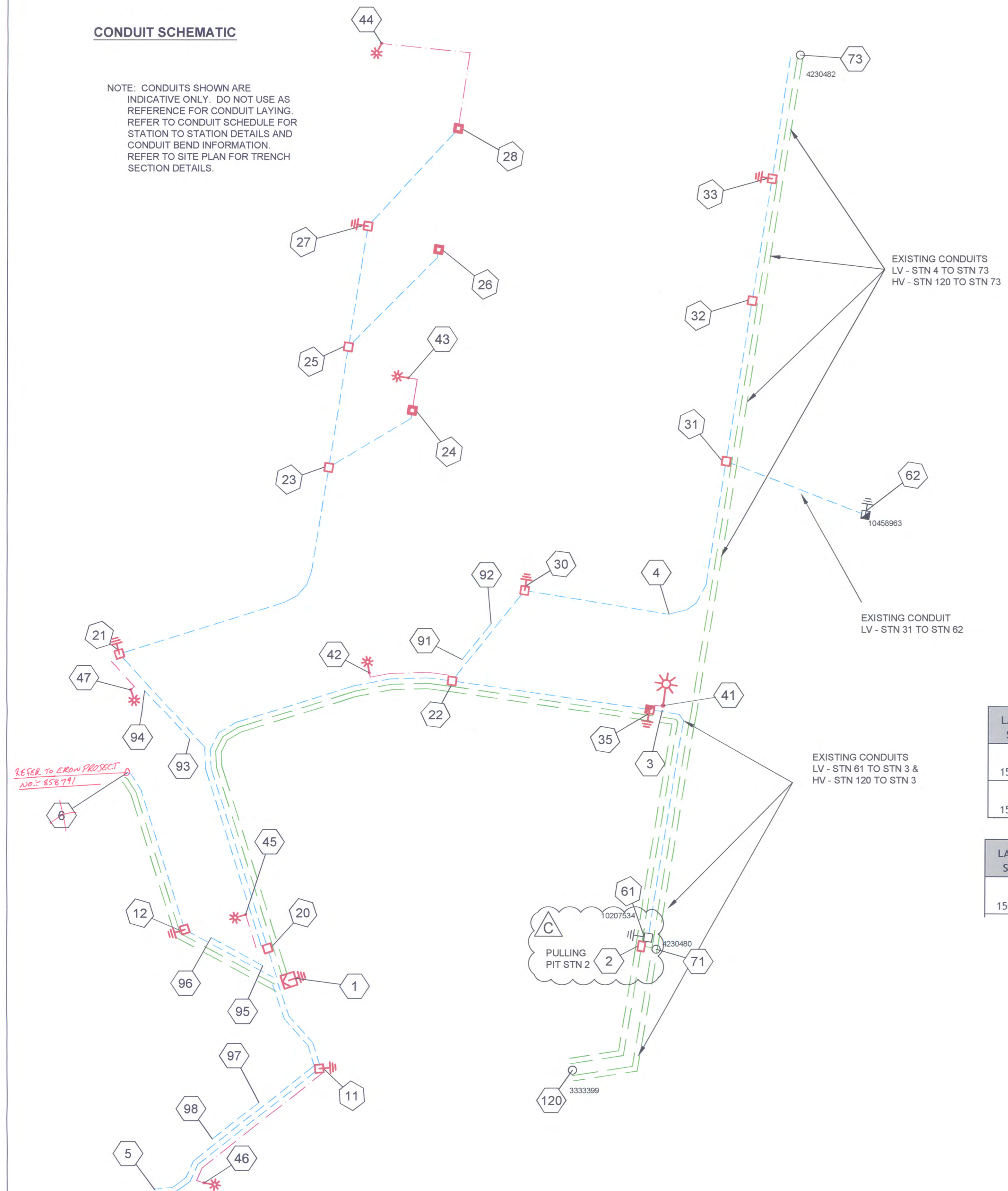
Drawing Title
 CLEARVIEW RISE, ROMA, STAGE 3B
 UDC UG ELECTRICAL RETICULATION
 SITE PLAN, & CONDUIT SCHEMATIC
 & WORKPLAN NOTES

Project Description
 CLEARVIEW RISE, ROMA, STAGE 3B
 BOWEN STREET, ROMA

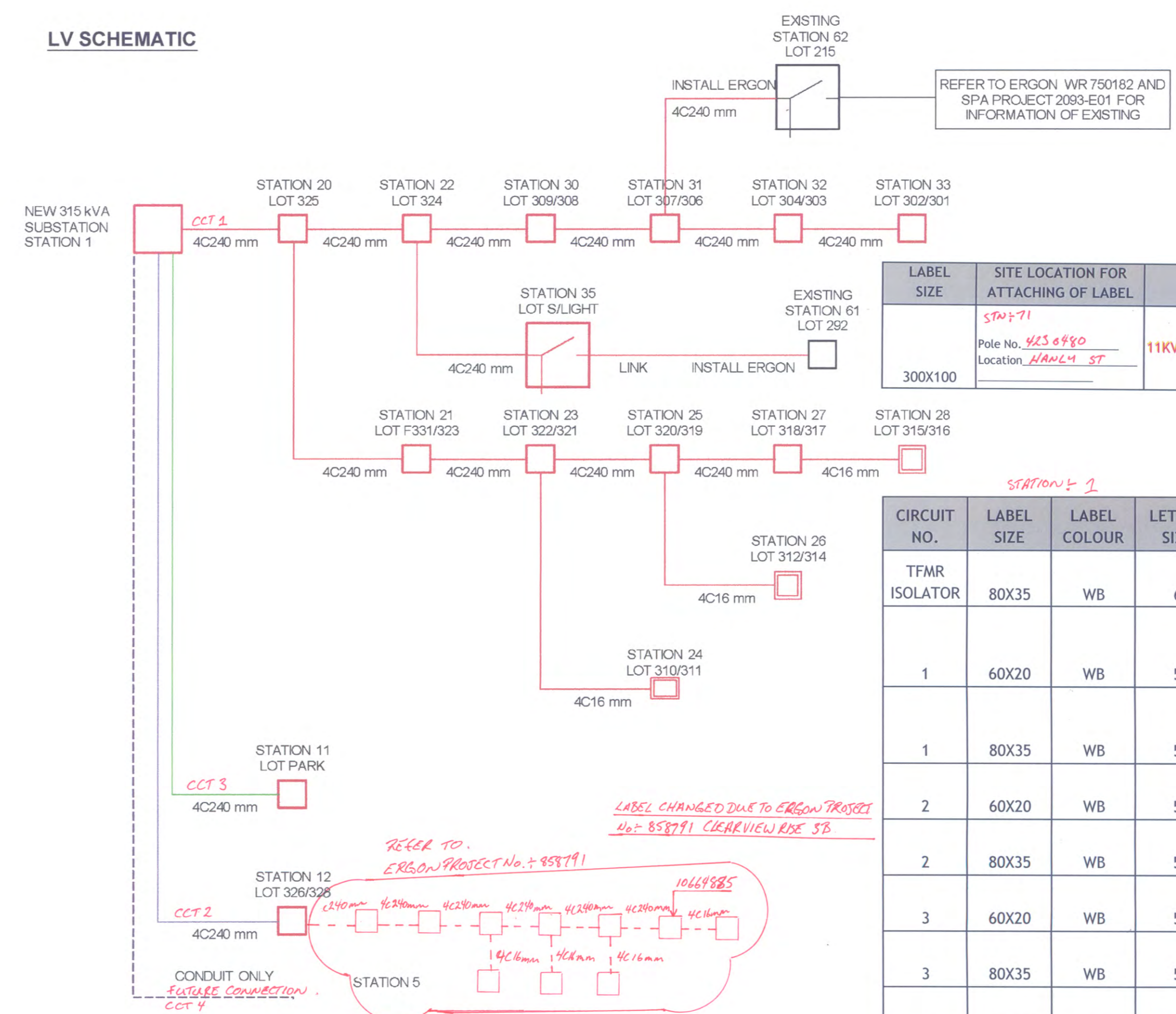
Date	JAN 2014
Scale	1:500@A1
Drawn	IDW
Approved	JE
Sheet	1 of 2
ERGON Project Number	SPA Drawing Number
858791	2206-E01
Revision	B

CONDUIT SCHEMATIC

NOTE: CONDUITS SHOWN ARE INDICATIVE ONLY. DO NOT USE AS REFERENCE FOR CONDUIT LAYING. REFER TO CONDUIT SCHEDULE FOR STATION TO STATION DETAILS AND CONDUIT BEND INFORMATION. REFER TO SITE PLAN FOR TRENCH SECTION DETAILS.



LV SCHEMATIC



STATION: 35

LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
150X50	WB	5	TO LOMANDRA AVE LP 10458963/ LITTLE KURRAJONG WAY GW611095/ BROMELAID CCT 10656170 & SERVICES
150X50	WB	5	TO BOWEN ST GW594524 & SERVICES

STATION: 62

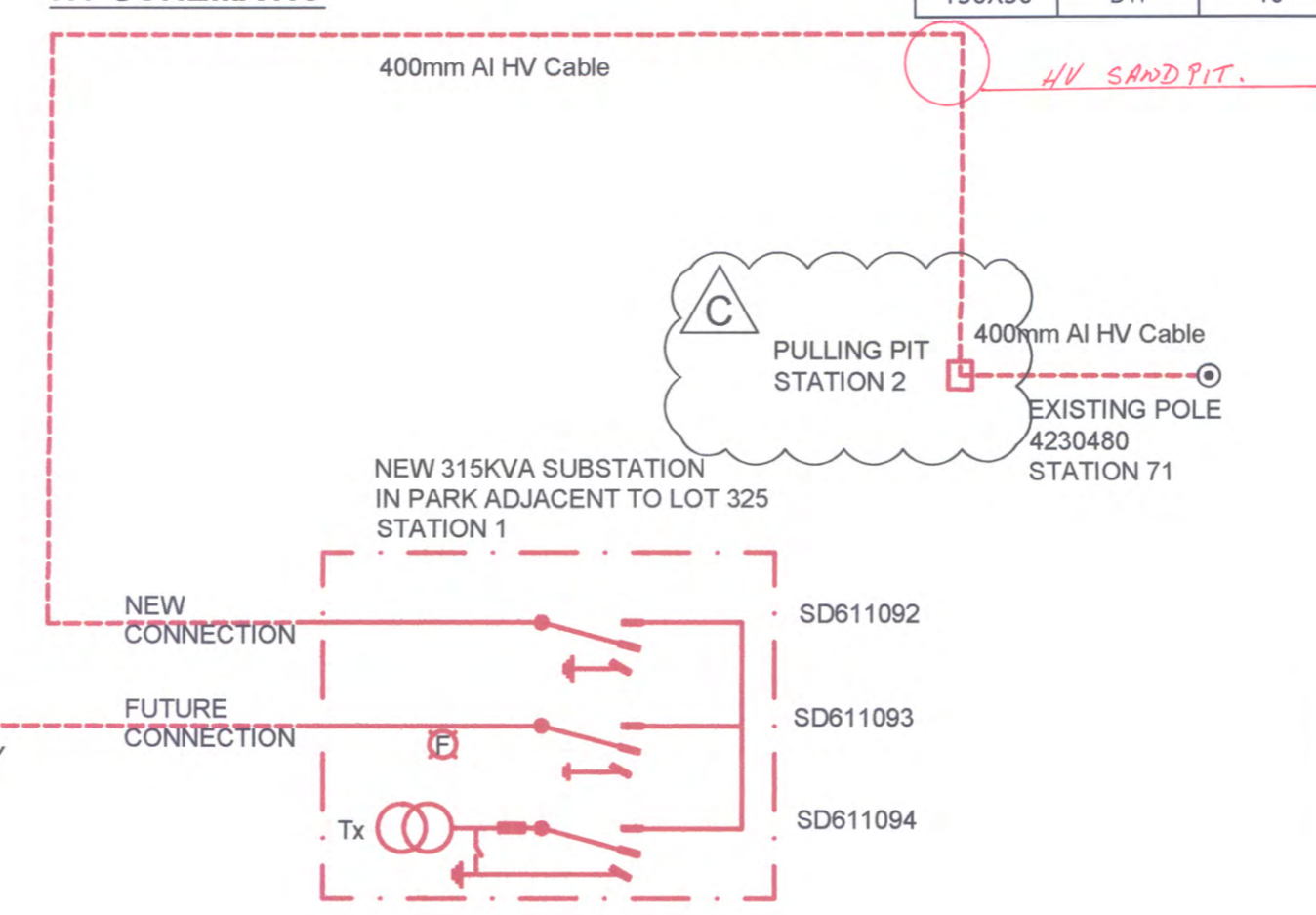
LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
150X50	WB	5	TO HERITAGE HILL DR LP 10656176/ LITTLE KURRAJONG WAY GW611095/ BROMELAID CCT 10656170 & SERVICES

LABEL SIZE	SITE LOCATION FOR ATTACHING OF LABEL	LABEL INFORMATION
300X100	STATION 71 Pole No. 4230480 Location HANLEY ST	11KV CABLE TO LITTLE KURRAJONG WAY GW611095 SD611092

CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
TFMR ISOLATOR	80X35	WB	6	TRANSFORMER ISOLATOR
1	60X20	WB	5	TO LOMANDRA AVE LP 10458963/ HERITAGE HILL DR LP 10656176/ BROMELAID CCT 10656170 & SERVICES
1	80X35	WB	5	TO LOMANDRA AVE LP 10458963/ HERITAGE HILL DR LP 10656176/ BROMELAID CCT 10656170 & SERVICES
2	60X20	WB	5	TO BROMELAID CCT 10664885 & SERVICES
2	80X35	WB	5	TO BROMELAID CCT 10664885 & SERVICES
3	60X20	WB	5	TO LITTLE KURRAJONG WAY 10656161 DIRECT
3	80X35	WB	5	TO LITTLE KURRAJONG WAY 10656161 DIRECT
4	60X20	WB	5	
4	80X35	WB	5	

STATION: 1

LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION	LABEL LOCATION	LABEL DESCRIPTION
100X40	WB	15	SD611092	SD611093	F5611094
				NEAR ISOLATOR	ISOLATOR IDENTIFICATION
150X50	BW	10	11KV CABLE TO HANLEY ST POLE 4230480 - DL611794	SPARE	TO TRANSFORMER (GW611095)
				CABLE BOX	CABLE DESTINATION
150X50	BW	10	11KV CABLE TO HANLEY ST POLE 4230480 - DL611794	SPARE	TO TRANSFORMER (GW611095)
				INSIDE SIDE WALL	CABLE DESTINATION



AS CONSTRUCTED BY COASTAL ENERGY (07 5456 1800)
PRINT Harry Beutell
SIGNED [Signature]
DATE 15/12/14

FOR CONSTRUCTION

ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER

CHANGES: YES/NO

ELECTRICAL CONTRACTOR

NAME: _____
SIGNATURE: _____
DATE: _____

CIVIL CONTRACTOR

NAME: _____
SIGNATURE: _____
DATE: _____

Code	Date	Description	Revised	Code	Date	Description	Approved
C	28/8/14	RMU REMOVED STN 2		IDW			
B	17/7/14	AMENDED FOR SITE LABELS		IDW			
A	2/7/14	FOR CONSTRUCTION & STN 11 MOVED		IDW			
4	5/6/14	CABLE INSTALLED		IDW			
3	10/4/14	NEW LV CONDUIT & CABLE REMOVED		IDW			
2	12/2/14	FOR APPROVAL		IDW			
1	4/2/14	PRELIMINARY FOR APPROVAL		IDW			

CLIENT: ECONOMIC DEVELOPMENT QUEENSLAND

GPO BOX 2202 BRISBANE, QLD, 4001 Ph: 07 3174 0205 Fax:

CIVIL ENGINEER BRADLEES CIVIL CONSULTING

PO BOX 2293 SOUTHPORT, QLD, 4215 Ph: 07 5528 6411 Fax:

spa
consulting engineers

Tel: (07) 4032 3311 Fax: (07) 4032 5633
PO Box 664 North Cairns QLD 4870
Email Address - admin@spaconsulting.com.au
A business unit of SPA Consulting Engineers (CSI) Pty Ltd a.s. 019844418

LEGEND

--- CABLE EXISTING	□ SUBSTATION	□ COMMERCIAL/ INDUSTRIAL PILLAR
--- CABLE PLANNED	∨ HV ISOLATING DEVICE	□ DISTRIBUTION CABINET
--- CABLE RECOVER	LV ISOLATING DEVICE	* STREETLIGHT
--- EQUIPMENT EXISTING	□ NORMAL PILLAR	⊥ EARTH
--- EQUIPMENT RECOVER	□ CROSS ROAD PILLAR	○ POLE
--- LIGHTING DUCT	□ LINKING PILLAR	
--- 35mm sq ANNEALED BARE COPPER EARTH		

Drawing Title

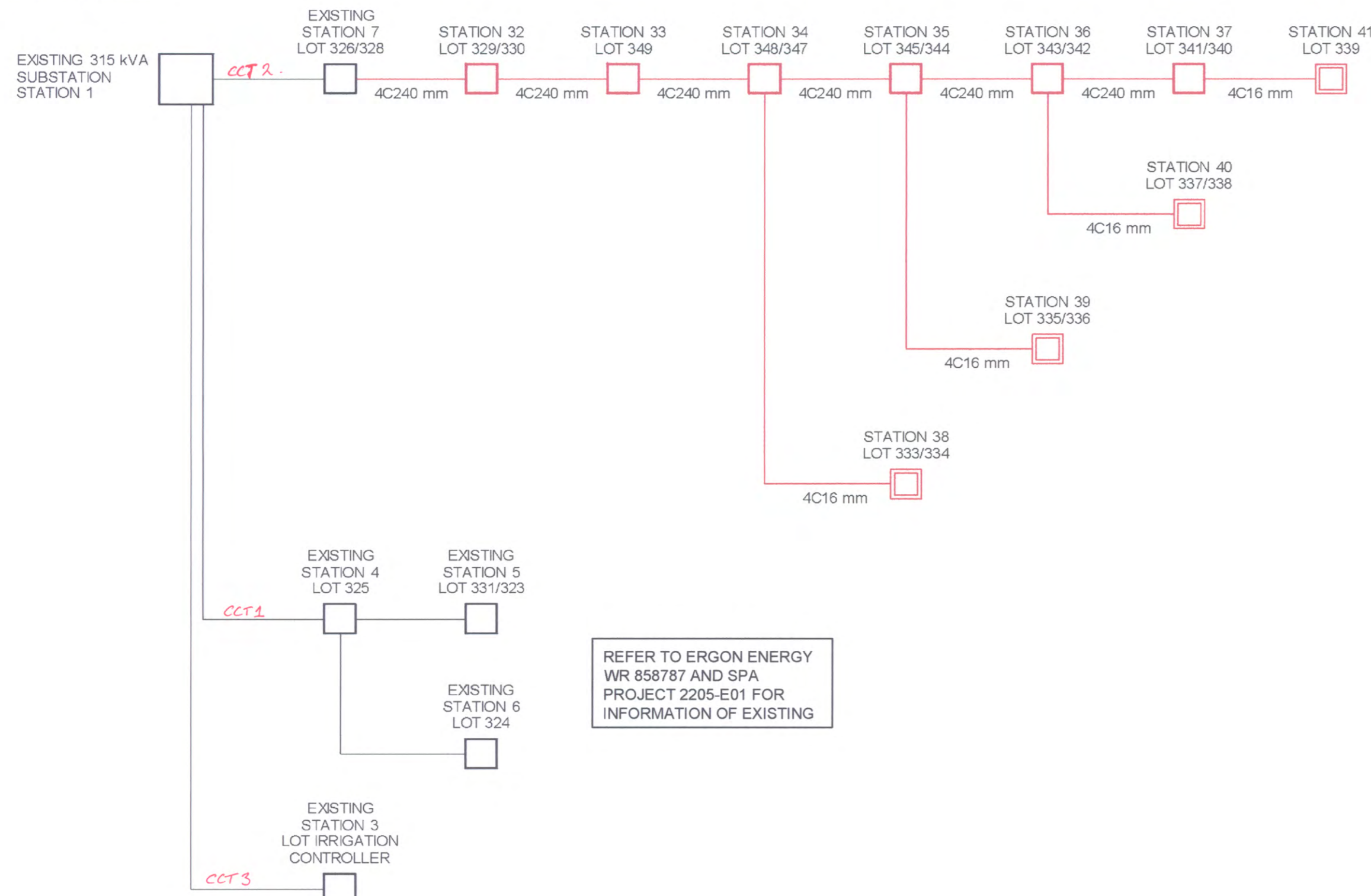
CLEARVIEW RISE, ROMA, STAGE 3A UDC UG ELECTRICAL RETICULATION SCHEMATIC DIAGRAMS

Project Description

CLEARVIEW RISE, ROMA, STAGE 3A BOWEN STREET, ROMA

Date	Revision
JAN 2014	
NTS	
IDW	
JE	
2 OF 3	
ERGON Project Number	SPA Drawing Number
858787	2205-E02
	C

LV SCHEMATIC



REFER TO ERGON ENERGY WR 658787 AND SPA PROJECT 2205-E01 FOR INFORMATION OF EXISTING

STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	No. of LENGTHS / DRUM	BENDS (Degrees/ Radius(mm) x No.)	Remarks
32	33	INSTALL - CIVIL	C100L	26	4.3	45/1200x2 15/1830x4	
32	42	INSTALL - CIVIL	C100L	21	3.5	45/1200x1 15/1830x1	CAP CONDUIT AT STN 42
32	53	INSTALL - CIVIL	C40H	10	2.5	90/300x2 90/600x1	
33	34	INSTALL - CIVIL	C100L	27	4.5	45/1200x2	
34	35	INSTALL - CIVIL	C100L	33	5.5	45/1200x2	
34	38	INSTALL - CIVIL	C100L	21	3.5	90/450x2 45/1830x1 15/1830x2	ADDITIONAL BEND ADDED TO ROAD CROSSING TO AVOID NBN PIT. CONDUIT TO RUN 1M FROM L334 PROPERTY BOUNDARY BEFORE CROSSING THE ROAD
34	54	INSTALL - CIVIL	C40H	9	2.3	90/300x2 90/600x1	
35	36	INSTALL - CIVIL	C100L	20	3.3	45/1200x2	
35	39	INSTALL - CIVIL	C100L	18	3.0	90/450x2 15/1830x2	
36	37	INSTALL - CIVIL	C100L	28	4.7	45/1200x2	
37	41	INSTALL - CIVIL	C100L	17	2.8	90/450x2 45/1830x1 15/1830x2	ADDITIONAL BEND ADDED TO ROAD CROSSING TO AVOID WATER MAIN. CONDUIT TO RUN 1.1m FROM L341 PROPERTY BOUNDARY BEFORE CROSSING THE ROAD
36	55	INSTALL - CIVIL	C40H	9	2.3	90/300x2 90/600x1	
36	40	INSTALL - CIVIL	C100L	16	2.7	90/450x2 15/1830x2	
37	56	INSTALL - CIVIL	C40H	20	5.0	90/300x2 90/600x1	
44	32	INSTALL - CIVIL	C100L	44	7.3	45/1200x1 30/1830x2 15/1830x1	LOCATE EXISTING CAPPED CONDUIT AT STN 44 AND JOIN TO NEW
44	42	INSTALL - CIVIL	C150L	65	10.8	30/1830x2 15/1830x3	LOCATE EXISTING CAPPED CONDUIT AT STN 44 AND JOIN TO NEW. CAP CONDUIT AT STN 42
44	42	INSTALL - CIVIL	C150L	65	10.8	30/1830x2 15/1830x3	LOCATE EXISTING CAPPED CONDUIT AT STN 44 AND JOIN TO NEW. CAP CONDUIT AT STN 42
105	106	INSTALL - CIVIL	C100L	12	2.0	15/1830x4	ENSURE CONDUIT IS TAKEN PAST THE STORMWATER PIPE AND CAP CONDUIT AT STN 105 AND 106
1	44	EXISTING	C150L				EXISTING HV CONDUIT
1	44	EXISTING	C150L				EXISTING HV CONDUIT
7	44	EXISTING	C100L				EXISTING LV CONDUIT

STN FROM	STN TO	ACTION	VOLTAGE	CONSTRUCTION CODE	ROUTE LENGTH	CABLE LENGTH	REMARKS
7	32	INSTALL - ERGON	415V	LV-240C4/673	78	82	INSTALL COASTAL ENERGY
32	33	INSTALL	415V	LV-240C4/673	26	30	
32	53	INSTALL	240V	LVI-4CU2NS/1671	10	15	
33	34	INSTALL	415V	LV-240C4/673	27	31	
34	35	INSTALL	415V	LV-240C4/673	33	37	
34	38	INSTALL	415V	LV-16CUC4/614	21	25	
34	54	INSTALL	240V	LVI-4CU2NS/1671	9	14	
35	36	INSTALL	415V	LV-240C4/673	20	24	
35	39	INSTALL	415V	LV-16CUC4/614	18	22	
36	37	INSTALL	415V	LV-240C4/673	28	32	
36	40	INSTALL	415V	LV-16CUC4/614	17	21	
36	55	INSTALL	240V	LVI-4CU2NS/1671	9	14	
37	41	INSTALL	415V	LV-16CUC4/614	16	20	
37	56	INSTALL	240V	LVI-4CU2NS/1671	20	25	

STN NO	SITE LABEL	ACTION	CONSTRUCTION CODE	RATE	TARIFF OWNER	MOUNTING HEIGHT (m)	REMARKS
53	10664890	INSTALL	SL HPS 0001	RATE 2	MRC	7.5	
54	10664891	INSTALL	SL HPS 0001	RATE 2	MRC	7.5	
55	10664892	INSTALL	SL HPS 0001	RATE 2	MRC	7.5	
56	10664895	INSTALL	SL HPS 0001	RATE 2	MRC	7.5	
61		EXISTING					
62		EXISTING					
63		EXISTING					
64		EXISTING					
65		EXISTING					

STN NO	SITE LABEL	POLE ALIGNMENT	POLE SETTING DEPTH	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRAWING NUMBER	POSITION ON POLE	REMARKS
1				EXISTING	EARTH				
1				EXISTING	SUBSTATION INC HV SWITCHGEAR				
3				EXISTING	EARTH				
3				EXISTING	PILLAR				IRRIGATION CONTROLLER FOR PARK
4				EXISTING	PILLAR				
5				EXISTING	PILLAR				POS FOR LOT 331
6				EXISTING	PILLAR				
7				EXISTING	EARTH				
7	10651162			EXISTING	PILLAR				POS FOR LOTS 326 AND 328 INSTALLED IN STAGE 3A. TO BE UPGRADED TO A 2-WAY BY ERGON ENERGY
7				INSTALL - ERGON	PILLAR UPGRADE	LV PNU1-2/240	5074		PILLAR UPGRADE TO 2-WAY BY COASTAL ENERGY
32	10664880			INSTALL	PILLAR	LV PN2/6S/240	5026		TO BE UPGRADED TO A 3-WAY IN FUTURE STAGE
33				INSTALL	EARTH	E MENPIL	5085		
33	10664881			INSTALL	PILLAR	LV PN2/6/240	5026		LOCATE PILLAR AT TRUNCATION POINT AS PER EE DWG 5196 SHT 2
34	10664882			INSTALL	PILLAR	LV PN2/6S/240	5026		LOCATE PILLAR AS PER EE DWG 5196 SHT 2
35	10664883			INSTALL	PILLAR	LV PN2/6/240	5026		
36	10664884			INSTALL	PILLAR	LV PN2/6S/240	5026		
37				INSTALL	EARTH	E MENPIL	5085		
37	10664885			INSTALL	PILLAR	LV PN1/6S/240	5025		
38	10664886			INSTALL	PILLAR	LV PX/6/16CU	5041		
39	10664887			INSTALL	PILLAR	LV PX/6/16CU	5041		
40	10664888			INSTALL	PILLAR	LV PX/6/16CU	5041		
41	10664889			INSTALL	PILLAR	LV PX/6/16CU	5041		LOCATE PILLAR AT TRUNCATION POINT AS PER EE DWG 5196 SHT 2
53	10664890			INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE AS PER OFFSET AND PERPENDICULAR FROM TRUNCATION POINT LOT 329
54	10664891			INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE AS PER OFFSET FROM PROPERTY BOUNDARY LOTS 347/345
55	10664892			INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE AS PER OFFSET FROM PROPERTY BOUNDARY LOTS 342/341
56	10664893			INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE AS PER OFFSET FROM PROPERTY BOUNDARY LOTS 341/340
61				EXISTING	POLE				
62				EXISTING	POLE				
63				EXISTING	POLE				
64				EXISTING	POLE				
65				EXISTING	POLE				

AS CONSTRUCTED BY COASTAL ENERGY (07 5456 1800)
PRINT Harry Bartel!
SIGNED [Signature]
DATE 16/12/14

FOR CONSTRUCTION

ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER

CHANGES: YES/NO

ELECTRICAL CONTRACTOR
NAME: _____
SIGNATURE: _____
DATE: _____

CIVIL CONTRACTOR
NAME: _____
SIGNATURE: _____
DATE: _____

Code	Date	Description	Revised	Code	Date	Description	Approved
B	29/7/14	SITE LABELS ADDED		IDW			
A	3/7/14	FOR CONSTRUCTION		IDW			
2	12/2/14	FOR APPROVAL		IDW			
1	4/2/14	PRELIMINARY FOR APPROVAL		IDW			

CLIENT: ECONOMIC DEVELOPMENT QUEENSLAND

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LEGEND

- CABLE EXISTING
- CABLE PLANNED
- CABLE RECOVER
- EQUIPMENT EXISTING
- EQUIPMENT RECOVER
- EQUIPMENT PLANNED
- HV DUCT
- LV DUCT
- LIGHTING DUCT
- 35mm sq ANNEALED BARE COPPER EARTH
- SUBSTATION
- ∇ HV ISOLATING DEVICE
- | LV ISOLATING DEVICE
- NORMAL PILLAR
- CROSS ROAD PILLAR
- LINKING PILLAR
- COMMERCIAL/ INDUSTRIAL PILLAR
- DISTRIBUTION CABINET
- * STREETLIGHT
- ⊥ EARTH
- POLE

Drawing Title	Date	JAN 2014
CLEARVIEW RISE, ROMA, STAGE 3B UDC UG ELECTRICAL RETICULATION LV SCHEMATIC & SCHEDULES	Scale	NTS
	Drawn	IDW
	Approved	JE
	Sheet	2 OF 2
Project Description	ERGON Project Number	SPA Drawing Number
CLEARVIEW RISE, ROMA, STAGE 3B BOWEN STREET, ROMA	858791	2206-E02
	Revision	B

STN NO	SITE LABEL	POLE ALIGNMENT	POLE SETTING DEPTH	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRAWING NUMBER	POSITION ON POLE	REMARKS
1				INSTALL	EARTH	E PM11/COM	5013		
1				INSTALL	HV CABLE TERMINATION	11 PM/CT/FBX/400T	5270		FOR CABLE FROM STN 71
1				INSTALL	LV CABLE TERMINATION	LV CT PM11/240	5087		FOR CABLE TO STN 11
1				INSTALL	LV CABLE TERMINATION	LV CT PM11/240	5087		FOR CABLE TO STN 20
1				INSTALL	LV CABLE TERMINATION	LV CT PM11/240	5087		FOR CABLE TO STN 12
1	10656160			INSTALL	SUBSTATION FOUNDATION	PMF 11 US	5005		
1	GW611095			INSTALL	SUBSTATION INC HV SWITCHGEAR	PM 11/315/FBX 2S1F	5191		
11				INSTALL	EARTH	E MEN/PIL	5085		
11	10656161			INSTALL	PILLAR	LV PN1/6S/240	5025		INSTALL AS PER EE DWG 5196 SHT 2 AT TRUNCATION. FOR IRRIGATION CONTROLLER. TO BE UPGRADED TO A 2-WAY IN FUTURE STAGE.
12				INSTALL	EARTH	E MEN/PIL	5085		
12	10656162			INSTALL	PILLAR	LV PN2/6S/240	5025		PILLAR IS OFFSET TO 2 WAY DUE TO ERGON PROPERTY BOUNDARY. 853741 BY COASTAL ENERGY.
20	10656163			INSTALL	PILLAR	LV PN3/6S/240	5027		INSTALL AS PER EE DWG 5196 SHT 2
21				INSTALL	EARTH	E MEN/PIL	5085		
21	10656164			INSTALL	PILLAR	LV PN2/6S/240	5026		
22	10656165			INSTALL	PILLAR	LV PN3/6S/240	5027		PILLAR IS TO BE OFFSET FROM PROPERTY BOUNDARY AND LOCATED 1M CLEAR OF RETAINING WALL
23	10656166			INSTALL	PILLAR	LV PN2/6S/240	5026		INSTALL AS PER EE DWG 5196 SHT 2
24	10656167			INSTALL	PILLAR	LV PX/6S/16CU	5041		INSTALL AS PER EE DWG 5196 SHT 2
25	10656168			INSTALL	PILLAR	LV PN2/6S/240	5026		INSTALL AS PER EE DWG 5196 SHT 2
26	10656169			INSTALL	PILLAR	LV PX/6S/16CU	5041		INSTALL AS PER EE DWG 5196 SHT 2
27				INSTALL	EARTH	E MEN/PIL	5085		
27	10656170			INSTALL	PILLAR	LV PN1/6S/240	5025		INSTALL AS PER EE DWG 5196 SHT 2
28	10656171			INSTALL	PILLAR	LV PX/6S/16CU	5041		INSTALL AS PER EE DWG 5196 SHT 2
30				INSTALL	EARTH	E MEN/PIL	5085		
30	10656172			INSTALL	PILLAR	LV PN2/6S/240	5026		
31	10656173			INSTALL	PILLAR	LV PN3/6S/240	5027		ERGON TO INSTALL LV CABLE TO LIVE PILLAR.
32	10656174			INSTALL	PILLAR	LV PN2/6S/240	5026		INSTALL AS PER EE DWG 5196 SHT 2
33				INSTALL	EARTH	E MEN/PIL	5085		
33	10656175			INSTALL	PILLAR	LV PN1/6S/240	5025		CAN BE UPGRADED TO A 2-WAY IF REQUIRED. INSTALL AS PER EE DWG 5196 SHT 2
35				INSTALL	EARTH	E MEN/PIL	5085		
35	10656176			INSTALL	PILLAR	LV PL2/6S/240	5042		FOR STREETLIGHT ONLY. LOCATE AT STAGE BOUNDARY 4M FROM PROPERTY BOUNDARY CORNER AND CLEAR OF THE RETAINING WALL FOOTING.
41	10656177	1m Bok		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE AS PER OFFSET FROM PROPERTY BOUNDARY CORNER LOT 292
42	10656178	1.05m Bok		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE AS PER OFFSET FROM TRUNCATION POINT LOT 324
43	10656179	1.05m Bok		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE AS PER OFFSET FROM BOUNDARY LOT 311/310
44	10656180	1m Bok		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE AS PER OFFSET FROM BOUNDARY LOT 316
45	10656181	1m Bok		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE AS PER OFFSET FROM BOUNDARY LOT 325
46	10656182	1m Bok		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE AS PER OFFSET FROM TRUNCATION POINT OF FUTURE LOT 501
47	10656183	1m Bok		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE PERPENDICULAR FROM BOUNDARY LOT 323/331 TO CLEAR STORMWATER & WATER PIPES
51	10207563			EXISTING	POLE				
52	10458971			EXISTING	POLE				
53	10458972			EXISTING	POLE				
54	10458977			EXISTING	POLE				
61				EXISTING	EARTH				
61	10207534			EXISTING	PILLAR				
62				EXISTING	EARTH				
62	10458963			EXISTING	PILLAR				
71				INSTALL - ERGON	HV CABLE TERMINATION	11 CT P/400T/P	5101		INSTALL ERGON ENERGY
71	4230480			EXISTING	POLE				
72	4230481			EXISTING	POLE				
73	4230482			EXISTING	POLE				
101				EXISTING	POLE				
104				EXISTING	POLE				
105				EXISTING	POLE				
106				EXISTING	POLE				
107	3101157			EXISTING	POLE				
108	4230459			EXISTING	POLE				
120	3333399			EXISTING	POLE				

STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	No. of LENGTHS / DRUM	BENDS (Degrees/ Radius(mm) x No.)	Remarks
1	5	INSTALL - CIVIL	C100L	57	9.5	45/1830x1 30/1830x6 15/1830x4	CAP CONDUIT AT STN 1 & STN 5
1	6	INSTALL - CIVIL	C150L	50	8.3	45/1830x1 30/1830x2 15/1830x1	SPARE CONDUIT. CAP CONDUIT AT STN 1 & STN 6
1	6	INSTALL - CIVIL	C150L	50	8.3	45/1830x1 30/1830x2 15/1830x1	CAP CONDUIT AT STN 1 & STN 6
1	11	INSTALL - CIVIL	C100L	17	2.8	45/1200x1 30/1830x2	
1	12	INSTALL - CIVIL	C100L	21	3.5	45/1200x1 45/1830x2 15/1830x4	
1	20	INSTALL - CIVIL	C100L	3	0.5	45/1200x1	
3	1	INSTALL - CIVIL	C150L	130	21.7	30/1830x2 15/1830x4	LOCATE EXISTING CAPPED CONDUIT AT STN 3 AND JOIN TO NEW
3	1	INSTALL - CIVIL	C150L	130	21.7	30/1830x2 15/1830x4	LOCATE EXISTING CAPPED CONDUIT AT STN 3 AND JOIN TO NEW
3	35	INSTALL - CIVIL	C100L			45/1200x1	LOCATE EXISTING CAPPED CONDUIT AT STN 3 AND FIT BEND
4	30	INSTALL - CIVIL	C100L	26	4.3	45/1200x1 15/1830x1	LOCATE EXISTING CAPPED CONDUIT AT STN 4 AND FIT BEND
11	5	INSTALL - CIVIL	C100L	40	6.7	45/1200x1 30/1830x3 15/1830x4	CAP CONDUIT AT STN 11 & STN 5
11	46	INSTALL - CIVIL	C40H	37	9.3	90/300x2 90/600x2	
12	6	INSTALL - CIVIL	C100L	31	5.2	45/1200x1 30/1830x1 15/1830x1	CAP CONDUIT AT STN 6 & 12
20	21	INSTALL - CIVIL	C100L	80	10.0	45/1200x2 30/1830x1 15/1830x5	
20	22	INSTALL - CIVIL	C100L	83	13.8	45/1200x2 30/1830x2 15/1830x3	
20	45	INSTALL - CIVIL	C40H	11	2.8	90/300x2 90/600x1	
21	23	INSTALL - CIVIL	C100L	59	9.8	45/1200x2 30/1830x2 15/1830x2	
21	47	INSTALL - CIVIL	C40H	10	2.5	90/300x2 90/600x1	
22	30	INSTALL - CIVIL	C100L	22	3.7	45/1200x2 15/1830x4	
22	35	INSTALL - CIVIL	C100L	35	5.8	45/1200x2 15/1830x4	ADDITIONAL 15 DEGREE BENDS ADDED TO CLEAR RETAINING WALL FOOTING
22	42	INSTALL - CIVIL	C40H	17	4.3	90/300x2 90/600x1	
23	24	INSTALL - CIVIL	C100L	20	3.3	90/450x2 45/1830x1 15/1830x2	ADDITIONAL BEND ADDED TO ROAD CROSSING TO AVOID NBN PIT. CONDUIT TO RUN 1M FROM L311 PROPERTY BOUNDARY BEFORE CROSSING THE ROAD
23	25	INSTALL - CIVIL	C100L	23	3.8	45/1200x2	
24	43	INSTALL - CIVIL	C40H	8	2.0	90/300x2 90/600x1	
25	26	INSTALL - CIVIL	C100L	24	4.0	90/450x2 45/1830x1 15/1830x2	ADDITIONAL BEND ADDED TO ROAD CROSSING TO AVOID NBN PIT & SW PIT. CONDUIT TO RUN 1M FROM L311 PROPERTY BOUNDARY BEFORE CROSSING THE ROAD
25	27	INSTALL - CIVIL	C100L	23	3.8	45/1200x2	
27	28	INSTALL - CIVIL	C100L	24	4.0	90/450x2 15/1830x2	
28	44	INSTALL - CIVIL	C40H	30	7.5	90/300x2 90/600x1	
31	31	INSTALL - CIVIL	C100L			45/1200x2	LOCATE EXISTING CONDUIT AT STN 31 AND CUT AND FIT BENDS
31	31	INSTALL - CIVIL	C100L			45/1200x1	LOCATE EXISTING CAPPED CONDUIT FROM STN 62 AT STN 31 AND FIT BEND
32	32	INSTALL - CIVIL	C100L			45/1200x2	LOCATE EXISTING CONDUIT AT STN 32 AND CUT AND FIT BENDS
33	33	INSTALL - CIVIL	C100L			45/1200x2	LOCATE EXISTING CONDUIT AT STN 33 AND CUT AND FIT BENDS
35	41	INSTALL - CIVIL	C40H	3	0.8	90/300x2 90/600x1	
71	2	INSTALL - CIVIL	C150L	3	0.5		CAP CONDUIT AT STN 2 & 71
91	92	INSTALL - CIVIL	C100L	9	1.5	15/1830x4	CAP CONDUIT AT STN 91 & 92
93	94	INSTALL - CIVIL	C100L	12	2.0	15/1830x4	CAP CONDUIT AT STN 93 & 94
95	96	INSTALL - CIVIL	C100L	14	2.3	15/1830x4	CAP CONDUIT AT STN 95 & 96
97	98	INSTALL - CIVIL	C100L	9	1.5	15/1830x4	CAP CONDUIT AT STN 97 & 98
105	106	INSTALL - CIVIL	C100L	9	1.5	15/1830x4	CAP CONDUIT AT STN 105 & 106
4	73	EXISTING	C100L				EXISTING LV CONDUIT
120	73	EXISTING	C150L				EXISTING HV CONDUIT
120	73	EXISTING	C150L				EXISTING HV CONDUIT
61	3	EXISTING	C100L				EXISTING LV CONDUIT
61	3	EXISTING	C150L				EXISTING HV CONDUIT
61	3	EXISTING	C150L				EXISTING HV CONDUIT
62	31	EXISTING	C100L				EXISTING LV CONDUIT

STN FROM	STN TO	ACTION	VOLTAGE	CONSTRUCTION CODE	ROUTE LENGTH	CABLE LENGTH	REMARKS
1	11	INSTALL	415V	LV-240C/673	17	24	
1	12	INSTALL	415V	LV-240C/673	21	28	
1	20	INSTALL	415V	LV-240C/673	3	10	
11	46	INSTALL	240V	LVI-4CU2NS/1671	37	42	
20	21	INSTALL	415V	LV-240C/673	60	64	
20	22	INSTALL	415V	LV-240C/673	83	87	
20	45	INSTALL	240V	LVI-4CU2NS/1671	11	16	
21	23	INSTALL	415V	LV-240C/673	59	63	
21	47	INSTALL	240V	LVI-4CU2NS/1671	10	15	
22	30	INSTALL	415V	LV-240C/673	22	26	
22	35	INSTALL	415V	LV-240C/673	35	39	
22	42	INSTALL	240V	LVI-4CU2NS/1671	17	22	
23	24	INSTALL	415V	LV-16CU/4614	20	24	
23	25	INSTALL	415V	LV-240C/673	23	27	
24	43	INSTALL	240V	LVI-4CU2NS/1671	8	13	
25	26	INSTALL	415V	LV-16CU/4614	24	28	
25	27	INSTALL	415V	LV-240C/673	23	27	
27	28	INSTALL	415V	LV-16CU/4614	24	28	
28	44	INSTALL	240V	LVI-4CU2NS/1671	30	35	
30	31	INSTALL	415V	LV-240C/673	58	62	
31	32	INSTALL	415V	LV-240C/673	30	34	
31	62	INSTALL - ERGON	415V	LV-240C/673	27	31	CABLE INSTALLATION BY ERGON ENERGY
32	33	INSTALL	415V	LV-240C/673	22	26	
35	41	INSTALL	240V	LVI-4CU2NS/1671	3	8	
61	35	INSTALL - ERGON	415V	LV-240C/673	46	50	CABLE INSTALLATION BY ERGON ENERGY
71	1	INSTALL	11kV	11-400T/1725	174	205 184	COIL CABLE AT STN2 FOR FINAL CONNECTION AT STN 71 BY ERGON ENERGY

STN NO	SITE LABEL	ACTION	CONSTRUCTION CODE	RATE	TARIFF OWNER	MOUNTING HEIGHT (m)	REMARKS
41	10656177	INSTALL	SL HPS 0001	RATE 2	MRC	7.5	
42	10656179	INSTALL	SL HPS 0001	RATE 2	MRC	7.5	
43	10656179	INSTALL	SL HPS 0001	RATE 2	MRC	7.5	
44	10656180	INSTALL	SL HPS 0001	RATE 2	MRC	7.5	
45	10656181	INSTALL	SL HPS 0001	RATE 2	MRC	7.5	
46	10656182	INSTALL	SL HPS 0001	RATE 2	MRC	7.5	
47	10656183	INSTALL	SL HPS 0001	RATE 2	MRC	7.5	
51	10207563	EXISTING					
52	10458971	EXISTING					
53	10458972	EXISTING					
54	10458977	EXISTING					

AS CONSTRUCTED BY COASTAL ENERGY (07 5456 1800) PRINT Harry Bowtel' SIGNED *[Signature]* DATE 15/12/14

FOR CONSTRUCTION

ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER

CHANGES: YES/NO

ELECTRICAL CONTRACTOR

NAME: _____
SIGNATURE: _____
DATE: _____

CIVIL CONTRACTOR

NAME: _____
SIGNATURE: _____
DATE: _____

Code	Date	Description	Revised	Code	Date	Description	Approved
C	28/8/14	RMU REMOVED STN 2	IDW				
B	17/7/14	AMENDED FOR SITE LABELS	IDW				
A	2/7/14	FOR CONSTRUCTION & STN 11 MOVED	IDW				
4	5/6/14	CABLE INSTALLED	IDW				
3	10/4/14	NEW LV CONDUIT & CABLE REMOVED	IDW				
2	12/2/14	FOR APPROVAL	IDW				
1	4/2/14	PRELIMINARY FOR APPROVAL	IDW				

CLIENT: ECONOMIC DEVELOPMENT QUEENSL