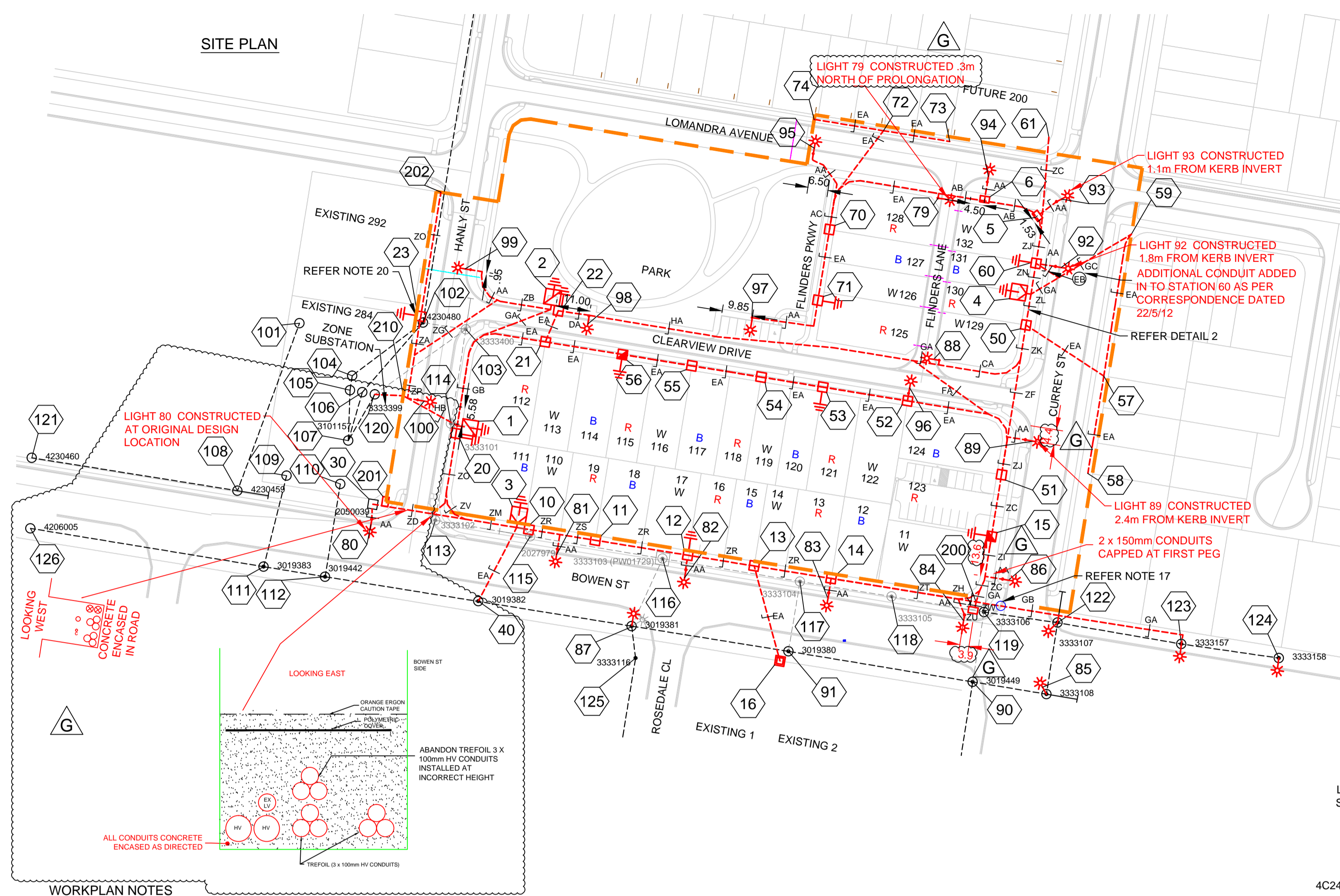
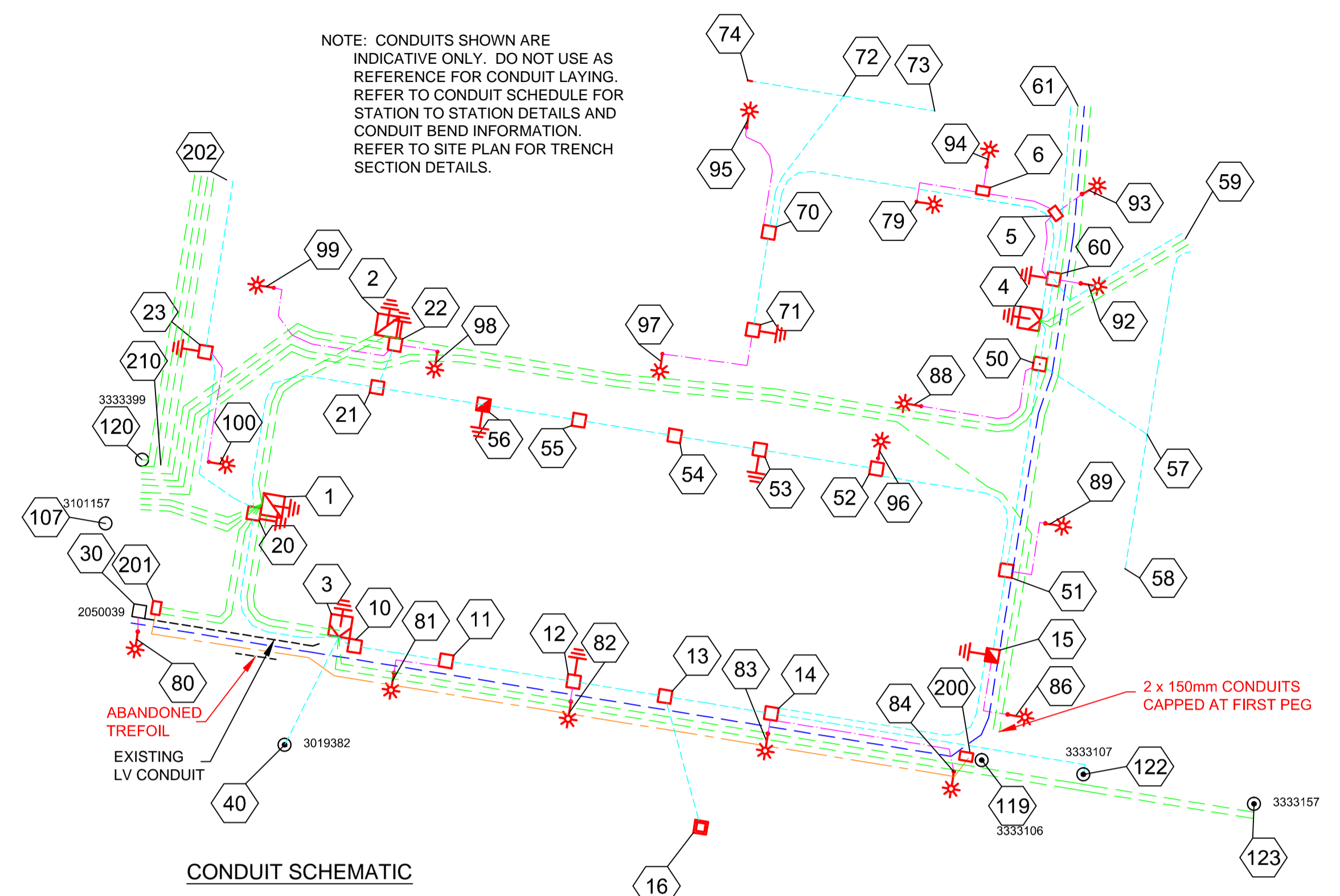


SITE PLAN



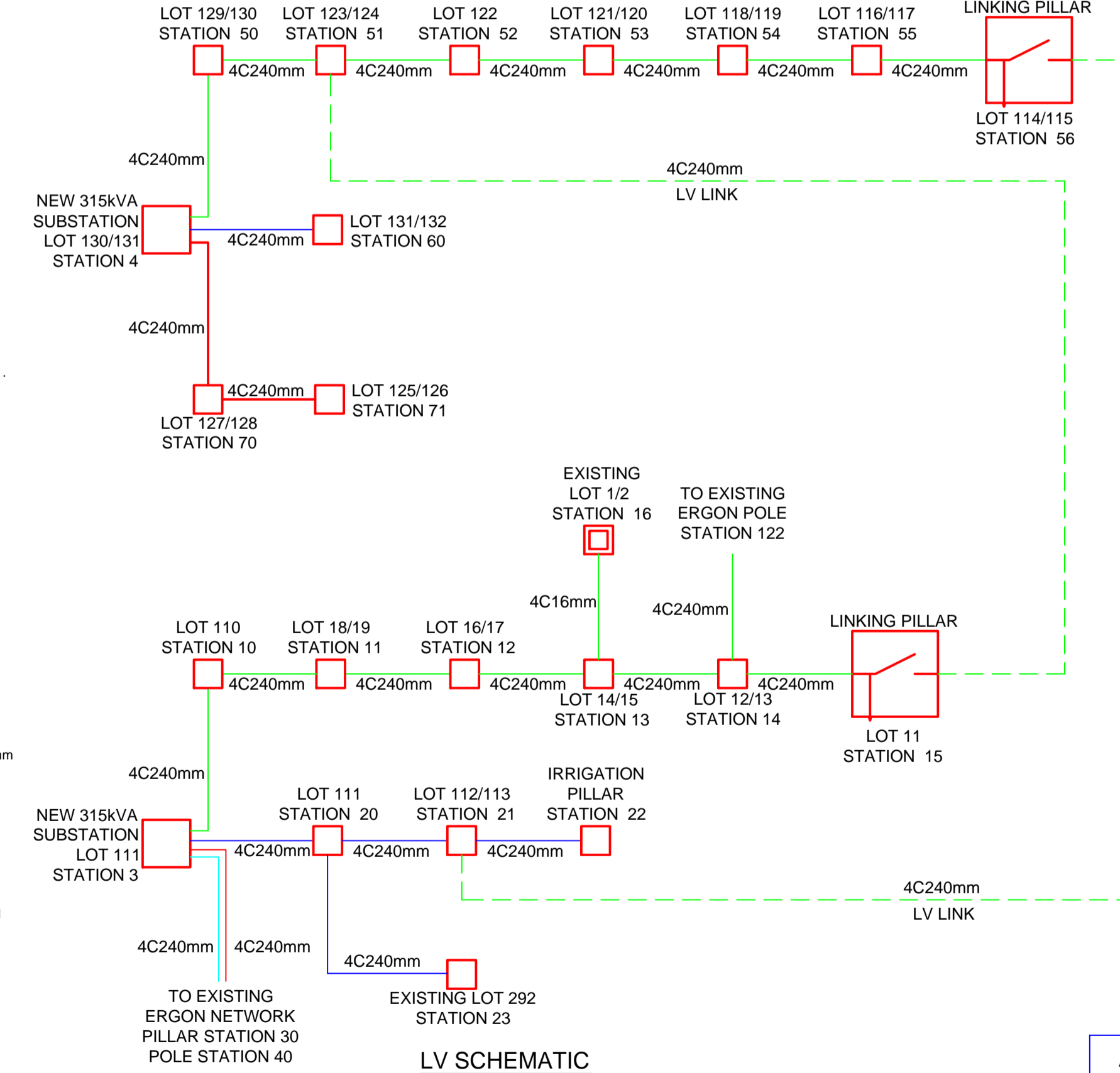
NOTE: CONDUITS SHOWN ARE INDICATIVE ONLY. DO NOT USE AS REFERENCE FOR CONDUIT LAYING. REFER TO CONDUIT SCHEDULE FOR STATION TO STATION DETAILS AND CONDUIT BEND INFORMATION. REFER TO SITE PLAN FOR TRENCH SECTION DETAILS.



CONDUIT SCHEMATIC

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 AND DRAWING 5228 FOR TRENCHES WITH NBNC CONDUITS.
- 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.
- INSTALLATION OF PADMOUNT SUBSTATION REQUIRED IN LOT 111, STATION 3 AND LOT 130/131, STATION 4. STATION 3 PADMOUNT SITE 3.0m x 3.0m AND STATION 4 PADMOUNT SITE 3.0m x 3.0m. INSTALLATION OF GMS REQUIRED IN PARK, STATION 2 AND IN LOT 112, STATION 1. STATION 2 GMS SITE 3.0m x 3.0m AND STATION 1 GMS SITE 3.0m x 3.8m.
- DEVELOPER SHALL INSTALL PLINTH AND CONCRETE SURROUND. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWINGS 5004 & 5005 FOR PADMOUNTS AND DRAWINGS 5255, 5217 AND 5232 FOR THE GMS.
- INSTALL PADMOUNTED SUBSTATION AND GMS EARTHING - COMMON EARTH ARRANGEMENT. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5013 AND GMS DRAWING 5221.
- THERE ARE 7x70W HPS MAXI URBAN MINOR ROAD STREETLIGHTS, 2x70W HPS MAXI URBAN AEROSCREEN MINOR ROAD STREETLIGHTS, 9x150W HPS SYLVANIA ROADSTER MAJOR ROAD STREETLIGHTS ON NEW POLES AND 5x150W HPS SYLVANIA ROADSTER MAJOR ROAD STREETLIGHTS ON EXISTING ERGON POLES ON RATE 2.
- STREETLIGHT DESIGN TO AS1158 CATEGORY P4 ON THE NEW ROADS AND HANLEY ST AND V5 ON CURREY STREET AND BOWEN STREET.
- 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.
- MAJOR STREETLIGHTS - THE DEVELOPER SHALL SUPPLY AND INSTALL STREETLIGHT BASES. FOUNDATION DEPTH IS 2250mm FOR MAJOR STREETLIGHTS. REFER TO LIGHTING CONSTRUCTION MANUAL DRAWING 1-6-6-1 & 2 FOR BPM FOOTINGS. FOR ALL FOOTPATHS, CENTRELINE OF STREETLIGHT SHALL BE 1.2m FROM THE INVERT OF KERB AND CHANNEL, WHERE THE ROAD IS UNKERBED, CENTRELINE OF STREETLIGHT SHALL BE 1.5m FROM THE EDGE OF BITUMEN.
- 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.
- ELECTRONIC CABLE MARKERS (ECM'S) ARE TO BE SUPPLIED BY THE ELECTRICAL CONTRACTOR AND ARE REQUIRED AT ENDS OF ALL SPARE CONDUITS AND AT ALL CABLE JOINTS. ECM'S SHALL BE PLACED 150mm ABOVE THE LINE OF CONDUIT FOR CABLE JOINTS AND 100mm ABOVE THE LINE OF CONDUIT FOR SPARE CONDUITS. ECM'S ARE RECOVERABLE AND SHALL BE REMOVED AND RETURNED TO ERGON ENERGY WHEN ALL SPARE CONDUIT ENDS ARE REMOVED FROM A LOCATION.
- SUPPLY AND INSTALL CONCRETE COVER ABOVE CONDUIT, WHERE CONDUIT BURIAL DEPTH IS LESS THAN THAT SPECIFIED IN UNDERGROUND CONSTRUCTION MANUAL DRAWING 5163. 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.
- ALL CONTRACTORS MUST CARRY OUT A DIAL BEFORE YOU DIG ENQUIRY BEFORE COMMENCING ANY EXCAVATION.
- THE ELECTRICAL CONTRACTOR SHALL ALLOW TO INCLUDE THE DISCONNECTION FROM THE OVERHEAD SUPPLY AND RECONNECTION TO NEW PILLAR PILLAR AT STATION 23 (EXISTING LOT 292). ALLOW FOR NEW 16mm Cu MAINS FROM NEW PILLAR TO EXISTING HOUSE MAIN SWITCHBOARD, INCLUDING TRENCHING AND CONDUITING BETWEEN SWITCHBOARD AND PILLAR TO AS3000 STANDARDS. REFER TO THE SPECIFICATION FOR FURTHER DETAILS.
- 1x 90mm WHITE ERGON COMMS CONDUIT FOR RELOCATION OF OPTICAL FIBRE CABLE TO BE INSTALLED ABOVE ELECTRICAL CONDUITS FROM STATION 107 TO STATION 119 ALONG BOWEN ST. LOCATE PIT STATION 200 2m FROM POLE STATION 119. LOCATE PIT STATION 201 OUTSIDE OF ZONE SUBSTATION. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWINGS 5182 & 5183.
- INSTALL BEDDING SAND WITH A RESISTIVITY OF 0.8 ABOVE ALL 150mm HV CONDUITS ACROSS ENTIRE TRENCH WIDTH AS PER DWG 5167. BEDDING SAND MAY BE SOURCED FROM RAVENSBOROUGH SAND & SOIL, 96 PHILIP RD, RAVENSBOROUGH Ph: 0429746125 / 0429022489 OR FROM BOLZAN AT ALLORA.



LV SCHEMATIC

AS CONSTRUCTED

HV PULLING TENSION CALCULATED AND RECORDED			
STATION FROM	STATION TO	CALCULATED	RECORDED
1	120	1141.9 N	1971.8 N
4	2	5934.5 N	3433.5 N
2	1	1725.9 N	2256.3 N
1	3	1437.2 N	2364.2 N

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

CHANGES: YES/NO

ELECTRICAL CONTRACTOR
 NAME: HENDRIE BROS
 SIGNATURE: *[Signature]*
 DATE: 6-11-12

CIVIL CONTRACTOR
 JK CIVIL / HENDRIE BROS
 NAME: *[Signature]*
 SIGNATURE: *[Signature]*
 DATE: 6-11-12

Code	Date	Description	Revised	Code	Date	Description	Approved
B	22/12/11	50mm WHITE COMMS CONDUIT ADDED		G	6/11/12	AS CONSTRUCTED UPDATED	JE
		TRENCH SECTIONS & NOTES AMENDED		F	26/10/12	AS CONSTRUCTED CIVIL & ELECT.	JE
		NEW CONSTRUCTION STAMP ADDED	IDW			SITE PLAN RD-XING RE-INSTATED	
A	6/12/11	FOR CONSTRUCTION, NOTES, CONDUIT ROUTES & ATTRIBUTES AMENDED	IDW	E	16/02/12	ROAD NAMES & THERM SAND ADDED, COMMS, HV CONDUIT AND PIT MOVED	JE
		REMARK ADDED	IDW	D	23/01/12	NOTE 21 STN 170 CHANGED TO 107	JE
		FOR APPROVAL	JE	C	23/01/12	STN 201 CHANGED TO 210	JE

CLIENT: URBAN LAND DEVELOPMENT AUTHORITY

GPO BOX 2202 BRISBANE, QLD, 4001 Ph: (07) 3024 4101 Fax: (07) 3024 4199

CIVIL ENGINEER: BAKER ROSSOW CONSULTING ENGINEERS BRENDAN REID

PO BOX 1382 TOOWOOMBA, QLD, 4350 Ph: (07) 4638 5655 Fax:



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

Drawing Title		Date
ROMA UDA, STAGE 1 URD ELECTRICAL RETICULATION SITE PLAN AND SCHEMATIC DIAGRAMS		OCT 2011
Project Description		Scale: 1:1000 @ A1
ROMA UDA, STAGE 1 BOWEN STREET, ROMA		Drawn: JRE
ERGON Project Number: 589261		Approved: JE
SPA Drawing Number: 2026-E01		Revision: G