Traffic Signals Installation Process

This procedure is in reference to the installation of a set of new traffic signals in Ipswich City Council. It is assumed that OP Works approval has been granted by ICC prior to beginning this process.

STEP 1. CONDUCT ON-SITE AUDIT OF EXISITING INFRASTRUCTURE
Audit to include (but not limited to):
- As Cons accuracy of conduit, pit, pole and signal arrangement.
- As Con accuracy of cabling, wiring and controller including Comms
- Conduits that do not meet TMR standard depths (electronically check buried conduits)
- Conduits that do not meet AS3000
- Conduits that's are blocked (Rod and Rope Existing)
- Conduit Entry to pit condition and length
- Pit condition including damage, broken lid, uneven with surface, debris or spoil in base, water in pit
- Pole Condition including non-compliant locations (distance from kerb etc), grout and compliant height from FSL
- Exisiting civil infrastcutuure such as kerb ramps, kerb and channel, pavement etc

Contractor / Electrical Sub Contractor

STEP 2. AUDIT REPORT SUBMISSION
Submit identified issues and condition assessment report to ICC and confirm direction to resolve with ICC.

Contractor

STEP 3. WORKS NOTIFICATION
Notify ICC of proposed signals projects and confirm:
- commissioning dates
- ICC will submit their Connect application to Energex for Unmetered Supply.
- ICC will arrange Comms provider to arrange connection.
- ICC audit to be conducted two weeks prior commission with report issued within 2 days and a follow up meeting one week after audit.

Contractor

STEP 4. PRE START MEETING
Consultant/Contractor to organise a pre-start for the signals of which Council officers are to be invite).Meeting to discuss expectations, traffic signals process, raise concerns and touch base as to who is involved in the process.

Consultant / Contractor

STEP 5. UNDERTAKE INSTALLATION WORKS
Install controller plinth and conduits and pits back to the proposed Energex and Comms points of supply.

Contractor / Electrical Sub Contractor

STEP 6. ELECTRICAL RECTICULATION SUBMISSION
Unmetered Supply EWR.
ICC arrange their Comms provider if landline connection proposed. Set an agreed date that if Comms not supplied, ICC to provide temporary 4G modem to avoid delaying commissioning. The Date should be one month before the date the signals need to be turned on, to give time for comms to be tested and configured.

Electrical Sub Contractor

STEP 7.
Confirm:
- Energex connection complete – this can be delayed if ICC have not submitted their application
- Comms connection booked via ICC
- Personality files for Signals approved for use by ICC

Contractor / Electrical Sub Contractor

STEP 8. INTERNAL AUDIT
Conduct internal audit and rectify defects.

Contractor / Electrical Sub Contractor

STEP 9. ICC AUDIT
Request ICC conduct audit

ICC

STEP 10. RECTIFICATION WORKS
Recommend an audit close out meeting with ICC representative direct. If commissioning of signals depends on closing the audit out this meeting is critical.

Contractor / Electrical Sub Contractor

STEP 11. SIGNAL COMMISSIONING
Signals commissioning and finalised line marking

Contractor / Electrical Sub Contractor

NOTES:
- ICC Audit takes 10 business days to prepare and review. It is also recommended that a minimum 2 weeks notice is provided for the audit date to be carried out. Regular communication on date of audit needs to be provided. Changes in dates due to delays of delivery do not guarantee that a an audit will occur at the requested time and may delay commissioning
- Costs associated with the Comms connection (where ADSL is used) are to be paid by the contractor and receipt provided to Coun cil as evidence of payment. All invoices are to be remitted prior to commissioning
- Notification of the intent to undertake signals works should be provided to Council a minimum of 2 weeks prior to prestart so that the Comms and Electrical applications can be conducted.
- Civil Contractor to provide Council weekly progress updates vie email on the signals progress
- Existing infrastructure (i.e kerb ramps) that are not compliant are to be rectified as part of the design and construction. E xisting infrastructure should not be considered a constraint on Brownfield sites.
- TN159 is only for Brownfield sites and should a case for its use be provided a Risk Analysis is to be submitted by a suitably qualified person and certified by an RPEQ. Demonstration of qualifications may be requested by Council.
- Any issues that result in design amendments, straying from standards or generally not in accordance with the approved OP Work s design are to be sent through to Council for approval prior to implementation. i.e. Guidance from external consultants as an approval are not to be considered as acceptance by Council.
- Telstra have a set process which can typically take up to two months. The first step is a site inspection to assess what is r equired and if the Communication pits, controller and conduits are not in place they walk away and advise that site is not ready. This will usually result in a minimum 2 week re-inspection.
- Council has at its disposal one roaming 4G NTU in circulation that can be used where delays are caused by Telstra. However please note that this is subject to availability and the allocation of this resource is prioritised to Council projects.
- Energex COnnect Reference approval is to be supplied to the contractor at pre-start meeting
- Notification of Telstra appointment dates to be passed on by Council to the Civil Contractor.
- Personality files should only be provided by Roadtek.
- The Telstra NTU is provided to Council and installed by Council's auditor as part of the Audit process. At this stage the com ms connection will be tested
- It is highly recommended that the Electrical Sub Contractor and Civil Contractor attend ICC Traffic signals audit as to potentially rectify or understand issues prior to finalisation of the report. This will assist in not delaying the commissioning date but does not guarantee it
- A written response to each item raised in the ICC traffic signals audit report and evidence of rectification (i.e. photos) is to be provided by the Civil Contractor.
- Stop bar line marking are only to be implemented on-site the day of commissioning. Removal of road barriers, signal covers etc are also to occur
- Council is attend signals commissioning to ensure final checks and communication is up and running
- Signals Turned On as directed by Council on-site once deemed satisfactory and safe to do so.