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| **DN1211-CHK-001 STORMWATER DRAINAGE QUALITY CHECK SHEET** | | | | | |  |
| Job No: **DN1211** | Contract Name: **Wellesley St Bus Interchange** | | | | Date: |
| Subcontractor / Supplier: | | | | | Manager: Glen Maria | |
| Work Area: | | | | | Inspection No: | |
| Drawings Ref: | | | | | Chainage Locations: | |
| **Item Description** | | **Inspection OK** | | **Comments** | | |
| **S/C** | **DNZ** |
| * Materials available and comply with specs (all materials) | |  |  | * Sent to design engineer for review | | |
| **Excavation** | | | | | | |
| * Has the permit to excavate been completed | |  |  | * Services clearly identified (Both KR and DNZ) * NUO standover on site if required | | |
| * Set out complete | |  |  | * As per IFC Civil Drawings | | |
| * Protection of existing pipelines / utilities | |  |  |  | | |
| * Trench excavation to line, level and grade | |  |  | * Every 10m * To lines, levels, gradient as shown on drawings * Sufficient width to permit installation, pipes minimum 100mm from trench wall * Width ,<600mm greater than pipe diameter | | |
| * Trench excavation open length | |  |  | * Not to exceed manhole length or 30m | | |
| * Materials removed and stock piled | |  |  |  | | |
| * Bottom of trench foundation condition | |  |  | * Water ingress kept below bedding level * Subgrade suitable for pipe laying | | |
| * Over excavation required?   **Hold point** | |  |  | * **Engineer to be notified and approval received prior to undercut.** | | |
| **Pipe Installation** | | | | | | |
| **Hold point** | |  |  | * **Engineer to be notified 24hrs prior to pipe laying** | | |
| * Pipes transported to site , stored and lifted correctly to prevent damage | |  |  |  | | |
| * Trench shield/Benched/battered | |  |  | * If the trench is deeper than 1.5m | | |
| * Line and level | |  |  | * Design: * Achieved: | | |
| * Cleanliness and condition | |  |  | * Internal pipe and joints clean and free of dirt/debris * Pipe condition inspected prior to backfilling | | |
| * Bedding and Haunching | |  |  | * AP<12 granular bedding material * Clegg hammer tests (every 10m, min CIV 12) * Clegg Results: | | |
| * Temporary capping of end of pipes | |  |  |  | | |
| * Backfill Placement | |  |  | * AP>40 granular bedding material * Clegg hammer tests (every 10m, min CIV 25) * Compacted in 200mm layers * Clegg Results: | | |
| **Manhole Installation** | | | | | | |
| * Alignment | |  |  | * Correct position (<50mm) * Vertical | | |
| * Bedding | |  |  | * Bedding material – min 150mm * Clegg hammer tests (min CIV 12) * Clegg Results: | | |
| * Backfill Placement | |  |  | * AP>40 granular bedding material * Clegg hammer tests (min CIV 25) * Compacted in 200mm layers * Clegg Results: | | |
| * Penetrations | |  |  | * Formed by cutting or drilling prior to knocking section out | | |
| * Pipe Ends | |  |  | * Finished approx. 50mm beyond inside wall * Plastered with cement mortar or encased in benching concrete | | |
| * Corbels | |  |  | * Pipes haunched and surrounded by concrete by >200mm from manhole | | |
| * Benching | |  |  | * Smooth finish, graded to channel, in accordance with drawings | | |
| Works completed as per design requirements and work area is ready to be handed over for sign-off.  Signed by Sub contractor Representative: | | | | | | |
| Comments: | | | | | | |

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| Final Approvals : | DNZ Check & Sign-Off: Name and Sign Date | : |
| Engineer / Consultant: Name and Sign Date | | : |