| **Client** | | Wollongong City Council | | | **ITP CHECKLIST FOR:**  **Subsoil and Formation Drains** | **Work Area:** | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Contract No. #** | |  | | | Pavement Moisture Control | |
| **Contract** | | West Dapto Road Upgrade (Stage 1) | | | ITC001 (ITP001) | |
| **Lot Details & No** | |  | | | **Underlying Lots:** | |
| Activity No.# | Description | | Requirements / Reference | Acceptance Criteria | | Inspection | Comments / Attachments |
| 1 | **Preparation Works** | | Project Safety Plan, Project Environment Plan | * All site personnel inducted, required SWMS completed and signed, Safety Plan approved * ERSED controls installed on site, air quality visually monitored for dust etc due to construction activities, Environment Plan approved * Contact DBYD and complete excavation permit, extent of works set out with survey pegs | |  |  |
| 2 | **Materials** | | 1172 Cl 2,  1172 Cl 6,  WCC 7000 C07 | * Subsoil agg line: 100mm sleeved subsoil drainage pipe, slotted uPVC or perforated, ribbed HDPE to AS2439.1. Minimum class for uPVC pipe and fittings shall be Class 12. * Fabric: Non-woven geotextile, Strength Class A. * Drainage aggregate: 10 or 20mm stone size drainage aggregate. * No Fines concrete: 20mm no fines concrete (without liner), 8:1 aggregate to cement ratio, f’c = 10 MPa, water / cement ratio = 0.41 | |  |  |
| 3 | **Excavation – Inspection of trench and bedding** | | 1172 Cl 3.2,  1172 Cl 3.3,  1172 Cl 3.4,  1172 Cl 3.7 | * Excavate trench as per drawings, backfill any over-excavation to the required level and compact to at least 95% relative compaction. * Place 50mm thick compacted filter material or no fines concrete as per the drawings to create a bedding layer * **HOLD POINT: Client will inspect trench alignment and compaction of bedding prior to pipe placement** | |  | * **HOLD POINT: \_\_\_\_\_\_\_** |
| 4 | **Installation – Survey of laid pipe** | | 1172 Cl 3.2,  1172 Cl 3.3,  1172 Cl 3.4,  1172 Cl 3.7 | * Place sock-wrapped subsoils centrally within the trench on top of the filter material bedding at the correct dept, line and grades * **HOLD POINT: Complete survey of laid pipe levels and location of centre of pipe, survey the top of the subsoil pipe every 10 metres. Provide this survey to the Client** | |  | * **HOLD POINT: \_\_\_\_\_\_\_** |
| 5 | **Backfill** | | 1172 Cl 3.5 | * Backfill with no fines concrete or filter material as per drawings. * For no fines concrete, minimise any segregation of the concrete mix * For filter material, compact in maximum 300mm layers, taking care not to damage the subsoil lines | |  | * Concrete Pour Docket (if pouring no fines) |
| 6 | **Testing** | | 1172 Cl 3.9 | * If over-excavation has occurred (refer Activity #3), provide test result(s) showing 95% relative compaction was achieved here * Completion tests: Pump clean water into the flush point at the start of each subsoil run until only clean water discharges at the outlet (Min. rate of water flow = 100 L / min at the flush point inlet) | |  |  |

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| **REVIEW** | | | | | | |
| Any non-conformances? | YES | NO | Nos: | Closed Out | YES | NO |
| All work has been satisfactorily completed | | | YES | | NO | |
| Name | | | Signature | | Date | |
| **QA ENGINEER / SPE / PE SIGN OFF** | | | | | | |
| Name | | | Signature | | Date | |