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| TROJAN FIRE PROTECTION PTY LTD  84 WELLAND AVENUE WELLAND SA 5007 | **INSPECTION & TEST PLAN**  **FOR SPRINKLER PIPEWORK**  **PRESSURE TESTING** | | TEST CERTIFICATE NO:  **CWMS-15/ITP/4539/1355**  **REVISION: 0** | |
| PROJECT: **ADELAIDE BRAGGS CENTRE** | CLIENT: **LEND LEASE** | | DATE: **28.02.2023** | |
| CONSULTANT:  **AURECON** | QUALITY PLAN: YES NO | | INSPECTED BY: BUILDER | |
| LOCATION/SECTION OF PIPEWORK TESTED:  RELEVANT DRAWING No(s): | | | TROJAN CONSULTANT | |
| APPLICABLE STANDARDS: B.C.A. CONSULTANTS SPECIFICATIONS AUSTRALIAN STANDARDS  TROJAN FIRE Q.A. PLAN CLIENTS Q.A. PLAN | | | | |
| INSPECTION DETAILS 1. PIPEWORK INSTALLED IN ACCORDANCE WITH APPLICABLE STANDARDS, SEISMIC FIXINGS AND SPECIFICATION AND APPLICABLE TFP APPROVED DRAWINGS. **(W)** | | | | YES NO N/A |
| 2. SPRINKLER PIPEWORK, HANGERS, SIESMIC FIXINGS, GUARDS, VALVE SETS AND REMOTE TEST/AIR BLEED VALVES FITTED IN ACCORDANCE WITH AS 2118.    FIRE PENETRATIONS TO BE SEALED IN ACCORDANCE WITH MANUFACTURERS TESTED SYSTEM TO THE LOCATIONS AS INDICATED ON AS BUILT DRAWINGS COMPLETE WITH LABELS AND ACCOMPANYING SUPPORTING PHOTOGRAPHS. **(W)**  ACOUSTIC PENETRATIONS TO BE SEALED IN ACCORDANCE WITH APPROVED SAMPLE WALL AND MANUFACTURERS TESTED SYSTEM TO THE LOCATIONS AS INDICATED ON AS BUILT DRAWINGS. **(W)** | | | | YES NO N/A |
| 3. SPRINKLER HEAD SPACINGS AND TEMPERATURE RATINGS CHECKED TO COMPLY WITH AS2118. | | | | YES NO N/A |
| 4. SPRINKLER PIPEWORK PLUGGED OFF AND ISOLATING VALVES CLOSED. | | | | YES NO N/A |
| 5. COMMENT/NOTES RELEVANT TO INSPECTION:  ....................................................................................................................................................................  ..................................................................................................................................................................... | | | | YES NO N/A |
| 6. DETAIL AND CORRECTIVE ACTION FOR ANY NON-CONFORMANCE INSPECTIONS:  .....................................................................................................................................................................  ..................................................................................................................................................................... | | | | YES NO N/A |
| TEST PROCEDURES REVIEW INSPECTION DETAILS ABOVE TO VERIFY THAT ALL INSPECTIONS ARE SATISFACTORY AND TEST  PROCEDURES CAN NOW FOLLOWS. ENSURE TFP CHARGEHAND CARRIES OUT/SUPERVISES THE PRESSURE  TESTING AND REMAINS WITH THE TFP PRESSURE TEST PUMP WHILE TESTS ARE IN PROGRESS. DO NOT ALLOW  TFP APPRENTICES TO CARRY OUT PRESSURE TESTING WITHOUT CLOSE SUPERVISION.  **NOTE;** AIR TESTING IS ONLY REQUIRED TO BE PERFORMED WHEN THERE IS A RISK OF WATER DAMAGE TO FINISHED FLOORS OR FURNISHED BUILDINGS.  **NOTE:** LL REQUIRE 24HOURS NOTICE FOR WATER AND 48HOUR NOTICE FOR AIR, THIS WILL BE COMMUNICATED IN THE BUILDER’S BRIEF. THIS HAS BEEN ADDED TO SWMS. PROVIDE SCHEMATICS, PRESSURE SOURCE LOCATION, PRESSURE RELIEF DEVICE, EQUIPMENT USED, CALIBRATION CERTIFICATES THAT WILL BE USED ARE TO BE INCLUDED IN THE ITP SUBMISSION TO THE BUILDER'S BRIEF, REFER ATTACHED EXAMPLE.  **NOTE**: ENSURE SUITABLE WARNING SIGNAGE IS DISPLAYED AT ALL ENTRANCES AND EXITS TO AREA OF PRESSURE TESTING BEING CARRIED OUT STATING “WARNING TFP PRESSURE TESTING PIPE WORK”. NOTIFY BUILDERS FOREMAN AND SUPERVISORS THAT THE RELEVANT LEVELS, RISERS OR AREAS ARE BEING PRESSURE TESTED. | | | | YES NO N/A |
| **NOTE:** CONFIRMATION AIR TESTING IS NOT A PART OF THE TESTING PROCEDURE BEING CARRIED OUT AT THIS EARLY POINT OF THE PROJECT.   1. CONNECT AIR COMPRESSOR TO ABOVE/DOWN STREAM OF THE MAIN STOP VALVE ON THE SYSTEM TO BE TESTED. ENSURE MAIN STOP VALVE IS CLOSED. FILL PIPEWORK WITH COMPRESSED AIR TO 100KPA. INSPECT PIPEWORK UNDER TEST FOR OBVIOUS LEAKAGE. RE-CHECK PRESSURE GAUGE AND IF NO MAJOR PRESSURE LOSS, PUMP TO 200KPA. HOLD AT 200KPA FOR 10 MINUTES. IF NO OBVIOUS AIR LEAKAGE FROM PIPEWORK BEING TESTED, RELEASE AIR PRESSURE VIA DRAIN VALVE/REMOTE TEST VALVE. DISCONNECT AIR COMPRESSOR FROM SYSTEM. | | | | YES NO N/A |
| (B) PRIOR TO USING TFP MOBILE PRESSURE TEST PUMP OR THE CONSTRUCTION SITES FIRE WATER PRESSURE TEST PUMP, ENSURE THAT THE PRESSURE SWITCH IS CUTTING OUT AT ITS SET PRESSURE AND NO MORE THAN A MAXIMUM OF 2200KPA. VISUALLY INSPECT THE TFP PRESSURE PUMP BEING USED FOR THE TEST TO ENSURE NO DAMAGE TO PUMP ASSEMBLY AND HOSES. CHECK TO ENSURE PRESSURE GAUGE FITTED TO TFP PRESSURE PUMP IS OPERATIONAL. NOTE, ANY TESTING ABOVE 2200KPA REQUIRES TEST PLAN APPROVED BY LL REGIONAL EHS MANAGER, | | | | YES NO N/A |
| (C) INSTALL TFP’S CERTIFIED PRESSURE GAUGE WITH TEST CERTIFICATE THAT IS VALID AND IN DATE TO THE SYSTEM/AREA OF PIPE WORK BEING TESTED | | | | YES NO N/A |
| (D) ENSURE TFP’S MOBILE PRESSURE TEST PUMP SUPPLY/INLET WATER CONNECTION IS CONNECTED TO A SUITABLE DOMESTIC/FIRE WATER SUPPLY USING STANDARD LOW PRESSURE HOSE FITTINGS. | | | | YES NO N/A |
| (E) ENSURE TFP’S MOBILE PRESSURE TEST PUMP DISCHARGE/OUTLET WATER CONNECTOR IS CONNECTED TO THE PIPE WORK TO BE TESTED ABOVE/DOWN STREAM OF THE MAIN STOP VALVE EITHER USING ROLL GROVE, GAL MAL SCREWED OR HIGH-PRESSURE HOSES. | | | | YES NO N/A |
| (F) ONCE ALL INSPECTION/CHECKS HAVE BEEN COMPLETED AND TFP’ MOBILE PRESSURE TEST PUMP IS CONNECTED, ENSURE SPRINKLER MAIN STOP VALVE IS CLOSED, OPEN SUPPLY/INLET AND PROVE WATER IS AVAILABLE. OPEN DISCHARGE/OUTLET VALVE AND FILL SYSTEM TO TOWNS MAIN PRESSURE (500KPA) REMOVING THE AIR THROUGH REMOTE TEST/AIR BLEED VALVE AS YOU FILL PIPE WORK, THEN CLOSE DISCHARGE/OUTLET VALVE. IF USING THE HYDRANT RISER WATER SUPPLY TO FILL SYSTEM THROUGH VALVE SET, OPEN SPRINKLER MAIN STOP VALVE AND FILL SYSTEM TO 500KPA THEN CLOSE MAIN STOP VALVE AGAIN, REMOVING THE AIR THROUGH REMOTE TEST/AIR BLEED VALVE AS YOU FILL PIPE WORK. VISUALLY WALK THE AREA UNDER TEST TO CHECK FOR ANY WATER LEAKS. | | | | YES NO N/A |
| (G) IF NO OBVIOUS WATER LEAKS AND PRESSURE HOLDING AT 500KPA FOR A PERIOD OF 20 MINUTES, OPEN DISCHARGE/OUTLET VALVE ON TFP’S MOBILE PRESSURE TEST PUMP, TURN PUMP ON AND PRESSURISE TO 1600KPA FOR SPRINKLER SYSTEMS AND 1750KPA FOR HYDRANT/HOSE REEL SYSTEMS. CHECK AREA UNDER TEST FOR ANY WATER LEAKS THEN HOLD REQUIRED PRESSURE FOR TWO HOURS. IF USING THE HYDRANT RISER WATER SUPPLY IN CONJUNCTION WITH TFP CONSTRUCTION WATER PRESSURE PUMP, HAVE ONE PERSON AT ALL TIMES MANNING THE PUMP IN DIRECT PHONE OR RADIO LINK WITH THE PERSON STATIONED AT THE VALVE SET. OPEN SPRINKLER MAIN STOP VALVE AND FILL SYSTEM TO REQUIRED PRESSURE (1600KPA FOR SPRINKLERS AND 1750KPA FOR HYDRANT/HOSE REEL SYSTEMS) THEN CLOSE MAIN STOP VALVE. CHECK AREA UNDER TEST FOR ANY WATER LEAKS THEN HOLD REQUIRED PRESSURE FOR TWO HOURS.  A TFP EMPLOYEE IS TO REMAIN WATCHING THE TESTING FOR THE ENTIRE DURATION. | | | | YES NO N/A |
| (H) AFTER TEST COMPLETION ENSURE MAIN STOP VALVE IS PADLOCKED CLOSED. REDUCE PRESSURE TO 1000KPA WHICH WILL REMAIN AT ALL TIMES IN THE SPRINKLER SYSTEMS UNTIL HANDOVER OF THE PROJECT. | | | | YES NO N/A |
|  | | | | YES NO N/A |
| (J) ENSURE TFP CHARGEHAND IS SUPERVISING THE PRESSURE TEST AT ALL TIMES AND INSPECTS PIPEWORK WHILE IT IS UNDER TEST PRESSURE. ARRANGE FOR CLIENT TO WITNESS THE TWO-HOUR PRESSURE TEST. **(W)** | | | | YES NO N/A |
| **INSPECTION/TESTED BY TROJAN FIRE PROTECTION FIRE SERVICES SITE CHARGEHAND:**  PRINT NAME: ........................................................................  DATE: .................................................................................... | | **CLIENT’S REPRESENTATIVE:**  PRINT NAME:..…....................................  DATE: ...................................................... | | YES NO N/A |

H = HOLD POINT W = WITNESS POINT