NOTES: A. GENERAL REQUIREMENTS 1. THE CANADIAN ELECTRICAL CODE (CSA 22.1), CAN/ULC-S524-06, AND SPECIFIC (CF-FACP-S1 REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION ARE MANDATORY IN CONDUIT CODE REQUIREMENTS FOR THE FIRE ALARM SYSTEM. THE CONTRACTOR IS ESTIMATED LENGTH: 160m RESPONSIBLE FOR COMPLYING WITH THE CODE REQUIREMENTS, REGARDLESS OF WHETHER THE CODE REQUIREMENT IS SPECIFICALLY SHOWN ON THE DRAWINGS OR SPECIFICATIONS. SHOULD ANY CONFLICTS BETWEEN THE CODE AND THE DRAWINGS OR SPECIFICATIONS ARISE, THE CONTRACTOR IS RESPONSIBLE FOR IMMEDIATELY NOTIFYING THE CONTRACT ADMINISTRATOR. B. DESIGN BASIS PRIMARY CLARIFIER SECONDARY CLARIFIER ELECTRICAL ROOM STORAGE ROOM (P113) 1. THE SIGNALLING LINE CIRCUITS (SLC) ARE TO BE TYPE DCLC OR DCLB, AS NOTED ON THE DRAWINGS, PER CAN/ULC-S524-06. 2. THE CONVENTIONAL INITIATING DEVICE CIRCUITS ARE TO BE CLASS B. FACP-P1 FACP-S1 3. THE NOTIFICATION APPLIANCE CIRCUITS ARE TO BE CLASS B. 4. THE COMMUNICATION CIRCUITS BETWEEN THE FIRE ALARM CONTROL PANELS (FACP) AND FIRE ALARM ANNUNCIATOR PANEL (FAAP) ARE TO BE TYPE DCLC AS PER CAN/ULC-S524-06. PANEL PANEL COMM COMM C. CONDUIT AND WIRING ALARM 1. ALL CONDUIT TO BE RIGID ALUMINUM, 21MM OR LARGER AS REQUIRED. DISCRETE 2. UTILIZE A MINIMUM WIRE SIZE OF 12 AWG FOR NAC CIRCUITS. OR LARGER AS CONTACTS SHOWN ON THE DRAWINGS OR AS REQUIRED TO ACHIEVE A MAXIMUM OF 10% VOLTAGE DROP ON THE CIRCUIT. ALARM - TO DCS; SEE 3. OBSERVE CABLE CAPACITANCE AND MEET ALL MANUFACTURER'S RECOMMENDATIONS. 4. INSTALL FIRE-STOPPING ON ALL PENETRATIONS OF FIRE SEPARATIONS. \_\_\_\_ 1-0102P-A0041 TROUBLE SERIAL SERIAL 5. USE OF THE EXISTING CONDUIT AND WIRING IS ONLY PERMITTED IF IT MEETS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. IS IN GOOD CONDITION. DOES NOT SIGNIFICANTLY INCREASE THE LENGTH OF THE WIRING RUN, AND APPROVAL IS GRANTED BY THE CONTRACT ADMINISTRATOR. FIELDSERVER COMMUNICATIONS BRIDGE 6. INSTALL CONDUIT MOISTURE SEALS AT ALL LOCATIONS WHERE CONDUIT LEAVES A WARM ROOM AND ENTERS A COOLER ATMOSPHERE AS PER CSA 22.1 SECTION 22-302(2). ALARM PANEL PROTOCOL D. DEVICE INSTALLATION SERIAL ETHERNET ── FUTURE 1. MOUNT SMOKE DETECTORS A MINIMUM OF 450 MM FROM DIFFUSERS. 2. MOUNT PULL-STATIONS AT 1300MM TO THE CENTER OF THE BOX, UNLESS OTHERWISE APPROVED BY THE CONTRACT ADMINISTRATOR. 3. RESTORE THE CONDITION OF ALL SURFACES INCLUDING DRYWALL, CEILING TILES, ETC. TO MATCH THE EXISTING CONDITION OF NEARBY SURFACES. 4. PERMANENTLY LABEL AND IDENTIFY DEVICES, AS INDICATED IN THE SPECIFICATIONS, SUCH THAT THE IDENTIFICATION IS VISIBLE FROM THE FLOOR WITHOUT THE USE OF A LADDER. E. INCLUDED WORK (CF-FACP-P1 CF-FAAP-M1 IN CONDUIT IN CONDUIT 1. UPDATE EXISTING PANELBOARD DIRECTORIES TO REFLECT NEW OR DEMOLISHED ESTIMATED LENGTH: 120m ESTIMATED LENGTH: 275m DEVICES. F. FIRE ALARM DEMOLITION NOTES: 1. DEMOLISH THE EXISTING ADMIN BUILDING FIRE ALARM PANEL AND ASSOCIATED DEVICES AND TURN OVER TO THE CITY. THE EXISTING FIRE ALARM SYSTEM IN THE ADMINISTRATION ADMIN BUILDING IS TO REMAIN IN PLACE AS LONG AS POSSIBLE PRIOR TO BUILDING FOYER INSTALLATION OF THE NEW WORK. SCHEDULE WORK TO MINIMIZE THE TIMEFRAME WHERE NO FIRE ALARM SYSTEM IS ACTIVE. FAAP-M1 2. DEMOLISH THE EXISTING SMOKE DETECTORS IN THE ELECTRICAL AND CONTROL ROOMS, CONNECTED TO THE DCS AFTER THE NEW SYSTEM IS OPERATIONAL. ENSURE THAT THE TIME EACH CONTROL AND ELECTRICAL ROOM IS WITHOUT PANEL APPROPRIATE DETECTION AND ASSOCIATED NOTIFICATION IS LIMITED TO A MAXIMUM COMM OF FIVE WORKING DAYS. FACILITY MAIN ENTRANCE ENGINEER'S SEAL THE CITY OF WINNIPEG SNC-LAVALIN INC. 148 Nature Park Way SNC+LAVALIN
Winnipeg, MB, Canada R3P 0X7
204–786–8080 Winnipeg WATER AND WASTE DEPARTMENT ORIGINAL DRAWING DESIGNED BY: SEALED BY: SOUTH END WATER POLLUTION CONTROL CENTER E. BOHNCKE C. REIMER C. J. REIMER FIRE ALARM UPGRADE DRAWN BY: APPROVED BY: SNC-LAVALIN **APEGIN** PANEL NETWORKING DIAGRAM AND NOTES E. BOHNCKE C. REIMER MEMBER #21968 RELEASED FOR CONSTRUCTION 2011/03/25 Certificate of Authorization BY: N. HARRINGTON REV. 00 SNC-Lavalin Inc. <sup>E:</sup> 2011/03/22 DATE: 2011/03/11 CITY DRAWING NUMBER SHEET REV. SIZE 2011/03/11 EFB CJR CONSULTANT NO.: -0102A-E0001 FIRE ALARM LEGEND AND DETAILS 00 ISSUED FOR TENDER, BID OPP. 209-2011 No. 4489 001 | 00 | A1 112577-0101-47DD-0002 REFERENCE DRAWINGS DATE DESIGN CHECK DRAWING NUMBER NO. | REVISIONS 1-0102A-E0002-001-00.dwg