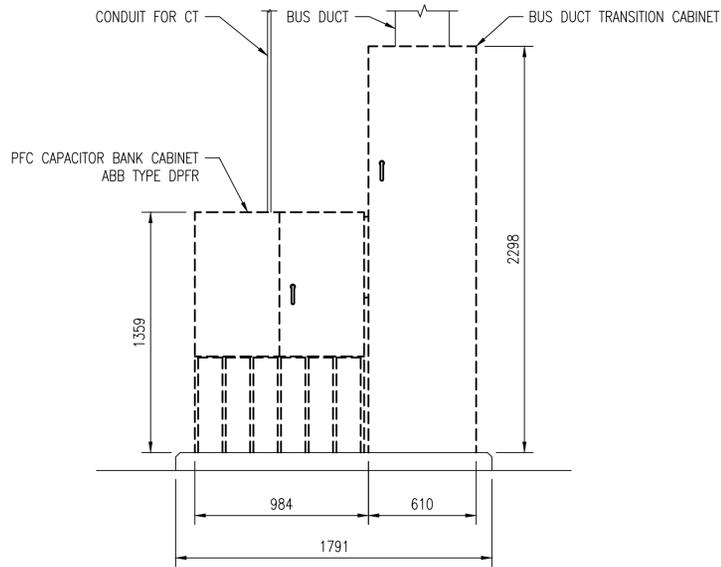
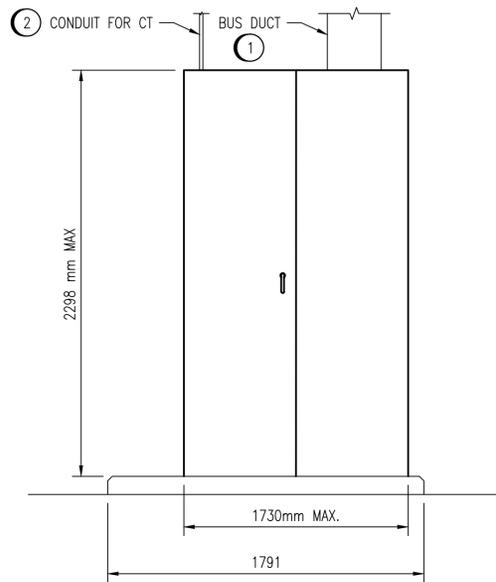


| PFC DETAILS TABLE | |
|--------------------------------------|--------------------------|
| NOMINAL SYSTEM VOLTAGE AND FREQUENCY | 600 V, 3Ø, 60 Hz |
| SYSTEM SHORT CIRCUIT LEVEL | MINIMUM 85 kA |
| MANUFACTURER | |
| MAKE AND MODEL | |
| NUMBER OF STAGES | 5 |
| NOMINAL POWER PER STAGE | 1x50 kVAR, 4x100 kVAR |
| MAINTAINED POWER FACTOR | 0.95 |
| CABLE ENTRY | TOP |
| MAIN PROTECTIVE DEVICE | N/A |
| LUGS | COMPRESSION |
| HARMONIC MITIGATION | DETUNED REACTORS |
| STAGE TUNING FREQUENCY | 245 Hz |
| ENCLOSURE TYPE | NEMA 1 |



1 SECTION - EXISTING EQUIPMENT (TYPICAL OF 2)
 SCALE: 1 : 20



2 SECTION - NEW EQUIPMENT (TYPICAL OF 2)
 SCALE: 1 : 20



CONSTRUCTION NOTES

- RE-USE EXISTING BUS DUCT TO CONNECT NEW PFC CABINETS. PROVIDE MODIFICATIONS AS REQUIRED TO INTEGRATE WITH NEW PFC CABINETS. ALL MODIFICATIONS TO THE NEW PFC UNITS SHALL BE PERFORMED AT THE FACTORY.
- MODIFY CONDUIT AS REQUIRED. REPLACE CT WIRING WITH 10 AWG RW90 CONDUCTORS FROM PFC UNITS TO CT SHORTING TERMINALS IN SWITCHGEAR CONTROL CABINET.
- PROVIDE APPROPRIATE BONDING OF EACH CAPACITOR BANK.



A DETAIL - EXISTING BUS BAR
 SCALE: NTS



| NO. | REVISIONS | DATE | DESIGN | CHECK |
|-----|--------------------------------------|------------|--------|-------|
| 00 | ISSUED FOR TENDER (BID OP. 419-2013) | 2013/06/26 | TMC | CJR |

| | | |
|---|--|-----------------|
| SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080 | | ENGINEER'S SEAL |
| DESIGNED BY: T. CHURCH | CHECKED BY: C. REIMER | |
| DRAWN BY: S. FUNK | APPROVED BY: C. REIMER | |
| SCALE: 1:20 | RELEASED FOR CONSTRUCTION BY: M. PAETKAU | |
| DATE: 2013/03/19 | DATE: 2013/06/26 | |
| CONSULTANT NO.: | | |

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 WEST END WATER POLLUTION CONTROL CENTRE
 POWER FACTOR CORRECTION
 SECTIONS & DETAILS
 PFC-U703 & PFC-U704

| | | | |
|---------------------|-------|------|------|
| CITY DRAWING NUMBER | SHEET | REV. | SIZE |
| 1-0103V-E0030 | 001 | 00 | A1 |

| | |
|----------------|--------------------|
| DRAWING NUMBER | REFERENCE DRAWINGS |
|----------------|--------------------|