

SEWPCC ELECTRICAL SITE PLAN SCALE : 1:500

CABLE SCHEDULE REFER TO INSTALLATION NOTES AND TRENCH DETAIL	
CABLES / CONDUITS	MATERIAL
1 & 2	3C #350 MCM TECK CABLE — 600V, POWER TOTAL RUN: TO: 600V CDP PANEL IN THE NEW UV FACILITY FROM: 600V MCC IN THE EXISTING SEWPCC ELECTRICAL ROOM
3	PULL 2C #16 FAS90 CABLE THROUGH 78mm RIGID PVC CONDUIT USE WITH NEW FIRE ALARM SYSTEM. LEAVE FISHTAPE TOTAL RUN: TO: BPS-U01 IN UV BUILDING FROM: FACP-2 SLC-204
4	3" RIGID PVC CONDUIT, FOR FUTURE USE C/W FISH TAPE SHALL BE RUN UP TO JUNCTION BOX HEIGHT AND CAPPED TOTAL RUN: TO: THE NEW UV FACILITY WALL FROM: THE EXISTING SEWPCC
(5)	50 PAIR #16 ARMOURED INSTRUMENTATION CABLE WITH NUMBERED TWISTED PAIRS. TOTAL RUN: TO: CONTROL JUNCTION BOX IN THE NEW FACILITY FROM: BAILEY CONTROL FIELD DEVICE PANEL FDP—S IN THE SEWPCC
6	12 PAIR #16 ARMOURED INSTRUMENTATION CABLE WITH INDIVIDUALLY SHIELDED NUMBERED, AND TWISTED PAIRS. TOTAL RUN: SAME AS 5
7	CATEGORY 5 CABLE -4 PAIRS, TWISTED, 2 SETS ARMOURED OF CABLES, TOTAL RUN: SAME AS 5
8	RG 62 COAX CABLE — 2 SETS OF ARMOURED CABLES TOTAL RUN: SAME AS 5
9	25 PAIRS ARMOURED TELEPHONE CABLE TOTAL RUN: TO: THE NEW TELEPHONE BOARD IN THE NEW FACILITY FROM: THE EXISTING MAIN TELEPHONE ROOM IN THE BASEMENT OF THE ADMIN. BUILDING
(O)	8 PAIR #12 ARMOURED CONTROL CABLE FOR THE EXISTING PA SYSTEM EXTENSION, TO THE NEW FACILITY. TOTAL RUN: TO: THE NEW FACILITIES SPEAKERS FROM: THE EXISTING SEWPCC PA SYSTEM
(1)	2-BELDEN 9841 ARMOURED CABLES FOR MODBUS PLUS COMMUNICATION TOTAL RUN: TO: THE NEW UV SYSTEM CONTROL PANEL IN THE ELECTRICAL ROOM. FROM: THE EXISTING BAILEY SYSTEM

NOTES: 1. MAINTAINED MIN. 150mm /HORIZONTAL SEPARATION BETWEEN POWER CABLES AND ANY COMMUNICATION CABLES THROUGHOUT RUN BOTH ABOVE AND UNDERGROUND.

IN THE TRENCH, MAINTAINED MIN. 60mm HORIZONTAL SEPARATION BETWEEN 2 POWER CABLES, AND MAINTAIN MIN. 30mm HORIZONTAL SEPARATION AMONG CONTROL COMMUNICATION AND INSTRUMENTATION CABLES.

2. DO NOT SPLICE, CONTROL, COMMUNICATION AND INSTRUMENTATION CABLES. THEY SHALL BE ONE LENGTH, AND BE TERMINATED IN THE PANELS AND/OR JUNCTION BOXES ON BOTH ENDS.

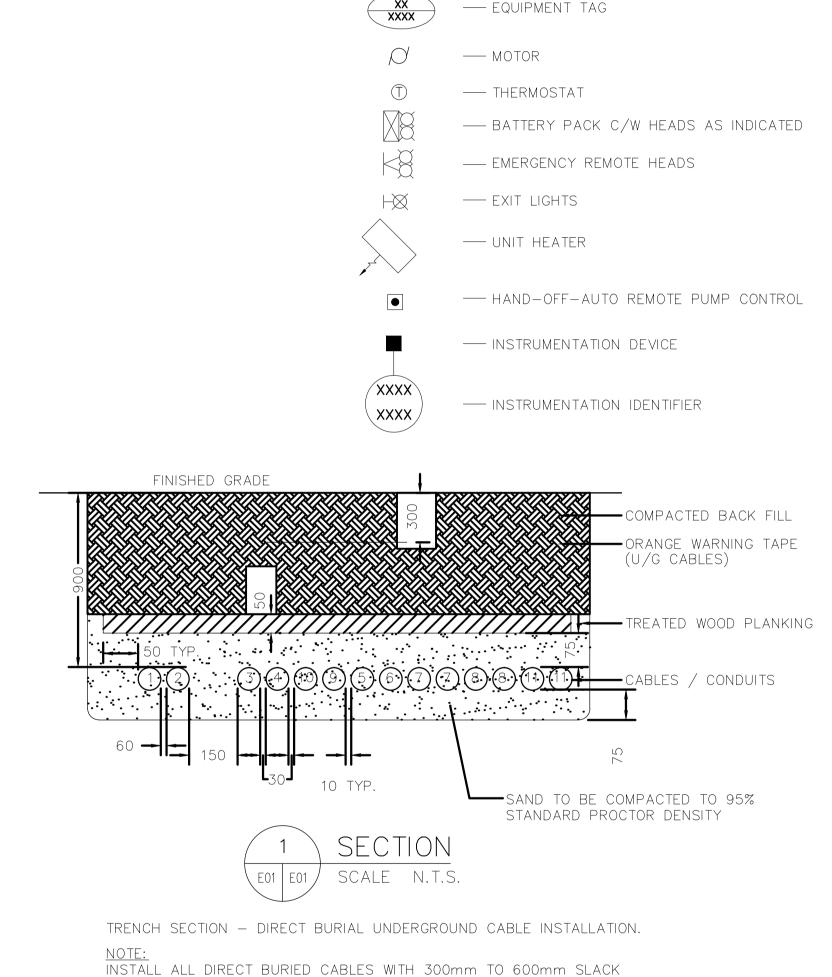
3. PROVIDE ANOTHER PULL BOX IN THE SEWPCC AT ABOUT 200 FT DISTANCE FROM THE EXISTING BAILEY SYSTEM ROOM, FOR CATEGORY 5 CABLES AND COAX CABLES FOR FUTURE DEVICE INSTALLATION SIZE 12"x 12"x 6"

4. MAKE ALL CONNECTIONS AS PER OTHER DRAWINGS AND SPECIFICATION FOR A COMPLETE WORKING SYSTEM, FOR THE FOLLOWING CABLES: (1) (2) (5) (6) (9) (10) & (11)

5. LEAVE MIN. 15' CABLE LENGTH COILED IN PULL BOXES, FOR THE FOLLOWING CABLES: (7) & (8)

6. ALL CABLES SHALL BE SUITABLE FOR DIRECT BURIAL.

7. EXTEND EXISTING PLANT P.A. SYSTEM AS SPECIFIED SECTION 16015-2.2.1.10 THE P.A. SYSTEM EXTENSION SHALL INCLUED: MECHANICAL SUPPORT AREAS FOR SECONDARY CLARIFIERS No 1,2, AND 3, SECONDARY CLARIFIER 3, AND THE NEW EFFLUENT DISINFECTION BUILDING.



SYMBOL LEGEND

100W HPS WALLMOUNT OUTDOOR FIXTURE

- PANEL-CIRCUIT NUMBER (TYPICAL)

- 150W HPS FIXTURES (INDOOR)

- 3x32W-T8 ELECTRONIC BALLAST

--- PUBLIC ADDRESS DOUBLE HORN

--- PUBLIC ADDRESS SINGLE HORN

FLUORESCENT FIXTURE

--- ELECTRICAL EQUIPMENT

--- DUPLEX RECEPTACLE

--- TELEPHONE OUTLET

--- TELEPHONE BUZZER

--- MOTOR RATED SWITCH

HO 3 — THREE-WAY SWITCH

--- MANUAL MOTOR STARTER

⟨B⟩ ← FIXTURE TYPE TAG (TYPICAL)

REFER TO SCHEDULE

Winnipea, Manitoba SNC-LAVALIN Canada R3P 0X7 E. BOHNCKE C. REIMER 2011/03/11 C. REIMER PROJECT No. SUBDIV. SUBJECT SERIAL REV. 112577 | 0101 | 47 DD | 0073 | 3

SNC-LAVALIN INC. 148 Nature Park Way

APEGIN Certificate of Authorization SNC-Lavalin Inc. No. 4489

LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES DATE COMMITTEE LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

Crowther DESIGNED CPG/MV DRAWN DED FIRE ALARM CABLE CPG

DATE

BY

HOR. SCALE:

98/05/27

VERTICAL:

DATE

CORD DRAWING

REVISIONS

SUED FOR TENDER

Consulting Engineering Worldwide CHECKED BY **APPROVED** RELEASED FOR CONSTRUCTION BY: AS NOTED CONSULTANT DRAWING NO.

DATE

ENGINEER'S SEAL ORIGINAL DRAWING SEALED BY: C. J. REIMER SNC-LAVALIN MEMBER #21968 2011/03/25 REV. 03 CHANGES ONLY

61786.01 E01

BEFORE THEY ENTER INTO THE UV BUILDING

CORD IN CONDUIT (4).

HE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

TRENCH DETAIL — DIRECT BURIAL UNDERGROUND

1. CONDUITS (3) & (4) ARE CURRENTLY NOT PASSABLE. REPAIR BOTH CONDUITS AND UTILIZE CONDUIT (3) TO INSTALL CABLE TO UV BUILDING. SEE SPEC FOR DETAILS. REMOVE EXISTING COAX CABLES FROM CONDUIT (4). PROVIDE PULL

CABLE INSTALLATION.

CITY DRAWING NUMBER SOUTH END WATER POLLUTION CONTROL CENTRE SEP-2436 EFFLUENT DISINFECTION FACILITY SHEET OF ELECTRICAL SITE REV-3PLAN