

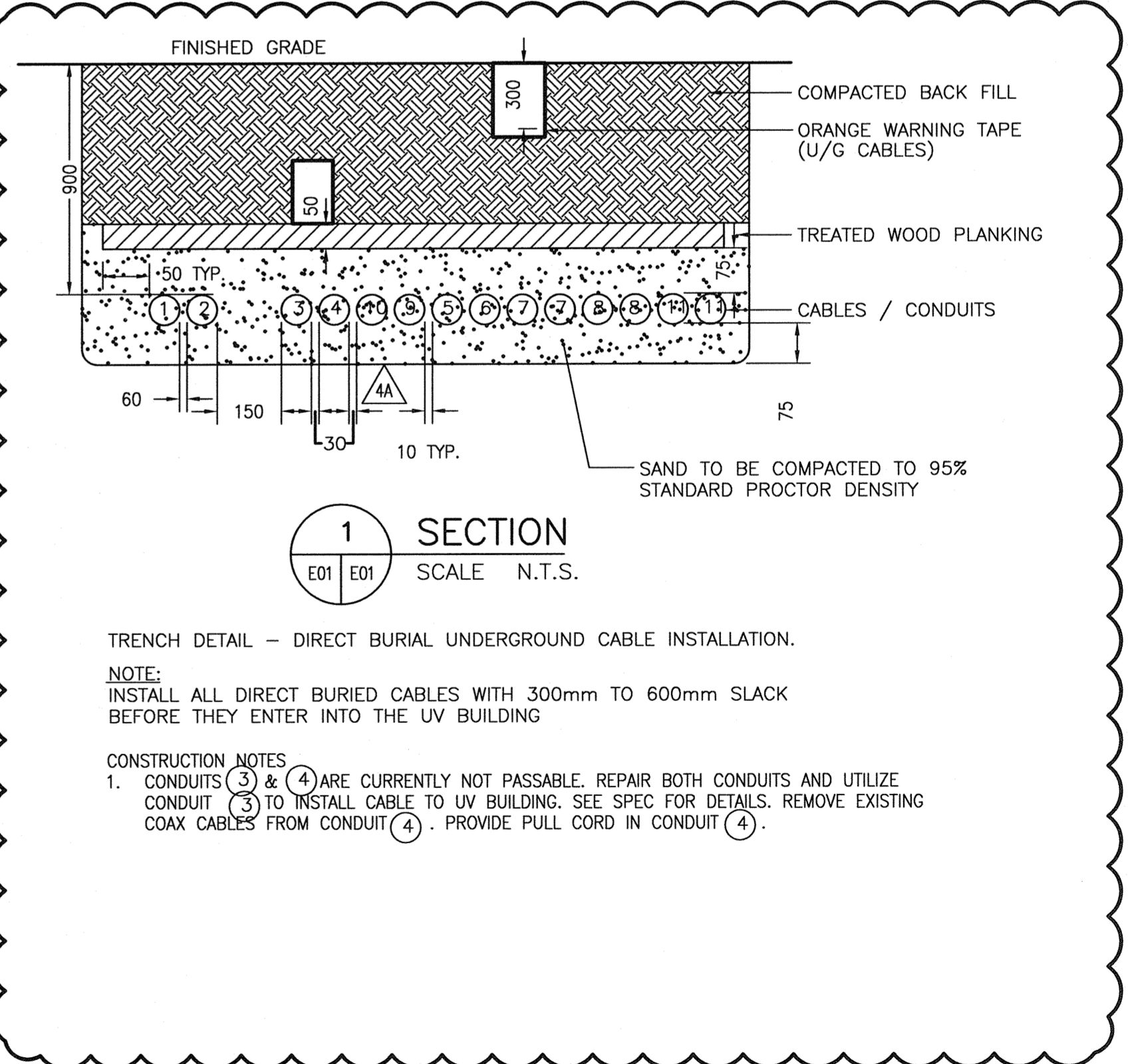
SEWPPC ELECTRICAL SITE PLAN
SCALE : 1:500

- SYMBOL LEGEND**
- 100W HPS WALLMOUNT OUTDOOR FIXTURE
 - FIXTURE TYPE TAG (TYPICAL) REFER TO SCHEDULE
 - PANEL-CIRCUIT NUMBER (TYPICAL)
 - 150W HPS FIXTURES (INDOOR)
 - 3x32W-T8 ELECTRONIC BALLAST FLUORESCENT FIXTURE
 - ELECTRICAL EQUIPMENT
 - DUPLEX RECEPTACLE
 - PUBLIC ADDRESS DOUBLE HORN
 - PUBLIC ADDRESS SINGLE HORN
 - TELEPHONE OUTLET
 - TELEPHONE BUZZER
 - MANUAL MOTOR STARTER
 - MOTOR RATED SWITCH
 - THREE-WAY SWITCH
 - EQUIPMENT TAG
 - MOTOR
 - THERMOSTAT
 - BATTERY PACK C/W HEADS AS INDICATED
 - EMERGENCY REMOTE HEADS
 - EXIT LIGHTS
 - UNIT HEATER
 - HAND-OFF-AUTO REMOTE PUMP CONTROL
 - INSTRUMENTATION DEVICE
 - INSTRUMENTATION IDENTIFIER

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 GDP PANEL IN THE NEW UV FACILITY FROM: 600V MCC IN THE EXISTING SEWPPC ELECTRICAL ROOM
3	PULL 2C #16 FAS90 CABLE THROUGH 78mm RIGID PVC CONDUIT USE WITH NEW FIRE ALARM SYSTEM. LEAVE FISH TAPE 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 SEWPPC
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 SEWPPC
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
10	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 SEWPPC PA SYSTEM
11	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. MAINTAIN 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 SEWPPC 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 INCLUDED: MECHANICAL SUPPORT AREAS FOR SECONDARY CLARIFIERS No 1,2, AND 3, SECONDARY CLARIFIER 3, AND THE NEW EFFLUENT DISINFECTION BUILDING.

- DEMOLITION NOTES**
1. EXISTING CABLE TRENCH JBS, WIRING, FITTINGS, ETC., SHALL BE REMOVED ONCE NEW CABLE TRENCH AND INTERIOR CABLING WORK HAS BEEN COMPLETED. GROUT SEAL ALL BUILDING OPENING NO LONGER USED.
 2. CONTRACTOR SHALL COORDINATE CHANGEOVER WORK TO NEW CABLE TRENCH WITH THE CONTRACT ADMINISTRATOR.



LOCATION APPROVED UNDERGROUND STRUCTURES

SUPPL. U/S STRUCTURES COMMITTEE	DATE

NOTE: [REDACTED]

NO.	REVISIONS	DATE	BY
5	ISSUED FOR TENDER	2014/06/23	KO
4	AS-BUILT, BID OPP. 209-2011	2012/05/01	TMC
3	ADDED FIRE ALARM CABLE	2011/03/11	EFB
2	RECORD DRAWING	99/09/12	LLI
1	ISSUED FOR PCN #5	98/12/12	MRU
0	ISSUED FOR TENDER	98/07/24	CPG

Crowther Consulting Engineering Worldwide

DESIGNED BY: CPG/MV	CHECKED BY: PS
DRAWN BY: CPG	APPROVED BY: [Signature]
HOR. SCALE: AS NOTED	RELEASED FOR CONSTRUCTION BY: [Signature]
DATE: 98/05/27	DATE: [Blank]

PROVINCE OF MANITOBA
D. E. BECKER
Member 23646
REGISTERED PROFESSIONAL ENGINEER

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
EFFLUENT DISINFECTION FACILITY

ELECTRICAL SITE PLAN (DEMOLITION)

CITY DRAWING NUMBER: SEP-2436
SHEET: 07

REV-5