

GENERAL NOTES

- PROVIDE TOTALLY NEW WIRING AND ACCESSORIES SUCH AS CONNECTORS, CONDUITS, FITTINGS, JUNCTION BOXES, ELBOWS, ETC. FOR NEW AND EXISTING RELOCATED EQUIPMENT.
- NEW CABLES, CONNECTORS, CONDUITS, FITTINGS, JUNCTION BOXES, ELBOWS, ETC. THAT ARE USED IN THE WET WELL AND THE INTERMEDIATE LEVEL SHALL BE APPROVED FOR USE IN EXPLOSION HAZARDOUS AREA CLASS 1, ZONE 1, GROUP IIA AND CORROSION CATEGORY 2. TRANSITION OF THE WIRING FROM INTERMEDIATE LEVEL TO THE MAIN FLOOR SHALL BE AS PER DRAWING 4, DETAIL 2.
- NEW WIRING SHALL BE OF THE SAME CONDUCTOR SIZE, SAME CONFIGURATION (NUMBER OF CONDUCTORS PER CABLE/CONDUIT) AND INSULATION LEVEL AS THE ORIGINAL REMOVED WIRING UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL DETERMINE ON SITE THE SIZE AND THE TYPE OF THE ORIGINAL WIRING THAT IS GOING TO BE REPLACED PRIOR TO REMOVAL.
- THOROUGHLY EXAMINE EXISTING ELECTRICAL EQUIPMENT AND WIRING. REPORT ANY ELECTRICAL CODE ISSUES AND DAMAGE WITH THE WIRING AND THE EXISTING ELECTRICAL EQUIPMENT TO THE CONTRACT ADMINISTRATOR.
- REWIRE NEW OR RELOCATED EQUIPMENT TO THE SAME CIRCUIT OR ELECTRICAL EQUIPMENT AS IN ORIGINAL INSTALLATION.

DRAWING NOTES

- EXTEND EXISTING SALVAGED WIRING AND RE-WIRE EXISTING PUMP AS REQUIRED. SEE DRAWING E4.0.
- REWIRE TO MATCH EXISTING.
- PROVIDE NEW LIGHT FIXTURE. WIRE TO SAME CIRCUIT AS MAIN FLOOR FLUORESCENT LIGHTING.
- PROVIDE NEW TELEPHONE OUTLET. WIRE NEW TELEPHONE OUTLET TO THE EXISTING UNDERGROUND TELEPHONE CABLE.
- PROVIDE NEW UNDERGROUND JUNCTION BOX TO CONNECT RELOCATED TELEPHONE EQUIPMENT (TELEPHONE HANDSET AND OUTLET) TO THE EXISTING UNDERGROUND TELEPHONE WIRING.
- NEW RIGID STEEL CONDUIT FOR TELEPHONE SHALL RISE UP OUTSIDE BUILDING AND ENTER BUILDING ABOVE GROUND. EXACT LOCATION OF ENTRANCE INTO BUILDING TO BE DETERMINED ON SITE.
- RELOCATE EXISTING TELEPHONE HANDSET. WIRE TO THE EXISTING UNDERGROUND TELEPHONE CABLE. PROVIDE NEW WIRING AS REQUIRED.
- PROVIDE NEW WIRING. REFER TO SINGLE LINE DIAGRAM.
- REPLACE EXISTING MAIN DISCONNECT SWITCH WITH NEW SERVICE ENTRANCE RATED FUSIBLE DISCONNECT SWITCH.
- REPLACE EXISTING REMOVED SPLITTER 'SP1' WITH NEW SPLITTER 'SP1'. TEMPORARILY FEED EXISTING SPLITTER 'SP-1' DURING CONSTRUCTION.
- REPLACE EXISTING REMOVED TRANSFORMER 'T-1' WITH NEW TRANSFORMER 'T-1' AND INSTALL ON WALL BESIDE PANEL '2A'.
- ALL ELECTRICAL EQUIPMENT SHOWN IS EXISTING TO BE RELOCATED AT LOCATIONS AS SHOWN ON DRAWING UNLESS OTHERWISE NOTED.
- WIRE TO NEW FLUORESCENT FIXTURE.
- REPLACE EXISTING REMOVED TRANSFORMER 'T-1' DISCONNECT SWITCH WITH NEW FUSED DISCONNECT.
- PROVIDE NEW LIGHT FIXTURE (TYPE PC). PROVIDE NEW 15A-1P BREAKER IN PANEL '2A' FOR MAIN FLOOR LIGHTING.
- SEAL AROUND CONDUIT AND INSIDE TO PREVENT ENTRANCE OF MOISTURE AND VERMIN INTO BUILDING.
- SPACE ELECTRODES MINIMUM 6 METERS APART. EACH ELECTRODE SHALL BE A MINIMUM 6 METERS LONG. TOP END OF THE ELECTRODE SHALL BE APPROXIMATELY 0.3M BELOW GRADE. INSTALL ROD ELECTRODES PERPENDICULAR TO THE SURFACE.
- CONTRACTOR TO ARRANGE AND PAY FOR MANITOBA HYDRO TO INSTALL NEW PRIMARY UNDERGROUND CABLES AND TO RELOCATE EXISTING HYDRO TRANSFORMER ON NEW FIBREGLASS TUB. COORDINATE INSTALLATION OF NEW UNDERGROUND CABLES AND RELOCATION OF EXISTING HYDRO TRANSFORMER WITH MANITOBA HYDRO.
- NEW CONDUITS SHALL RISE UP ABOVE GROUND OUTSIDE BUILDING WALL AND ENTER BUILDING AT HIGH LEVEL. EXPOSED VERTICAL CONDUITS FOR SECONDARY AND GROUNDING CONDUCTORS SHALL BE RIGID STEEL. PROVIDE TRANSITION COUPLING FROM RIGID PVC TO RIGID STEEL AS REQUIRED.
- NEW ELECTRIC HEATING COIL INSTALLED IN DUCTWORK BY DIVISION 15. DIVISION 16 TO WIRE HEATING COIL. REFER TO SINGLE LINE DIAGRAM AND MECHANICAL DRAWINGS. COORDINATE INSTALLATION WITH DIVISION 15.
- PROVIDE NEW BREAKER IN PANEL '2A' OF THE SAME SIZE AND

APPROXIMATE NEW LOCATION OF RELOCATED HYDRO TRANSFORMER. INSTALLED ON FIBREGLASS TUB.

NEW FIBREGLASS TUB BY MANITOBA HYDRO

NEW UNDERGROUND SECONDARY CABLE BY DIVISION 16. (RW90 IN RIGID PVC CONDUIT)

NEW GROUNDING ELECTRODE (TYPICAL)

BARE STRANDED COPPER CONDUCTOR (TYPICAL)

NEW RIGID STEEL CONDUIT (TYPICAL)

NEW MAIN FUSED DISCONNECT SWITCH 200A/600V/3P (FUSES 200A)

NEW UTILITY METER C/W 7 JAW METER SOCKET (METER SUPPLIED AND INSTALLED BY HYDRO)

NEW RELIEF AIR DUCT. REFER TO MECHANICAL

DISCONNECT SWITCHES FOR PUMP 1 AND 2 600V/30A/3P EACH

PUMP #3 CONTROLLER

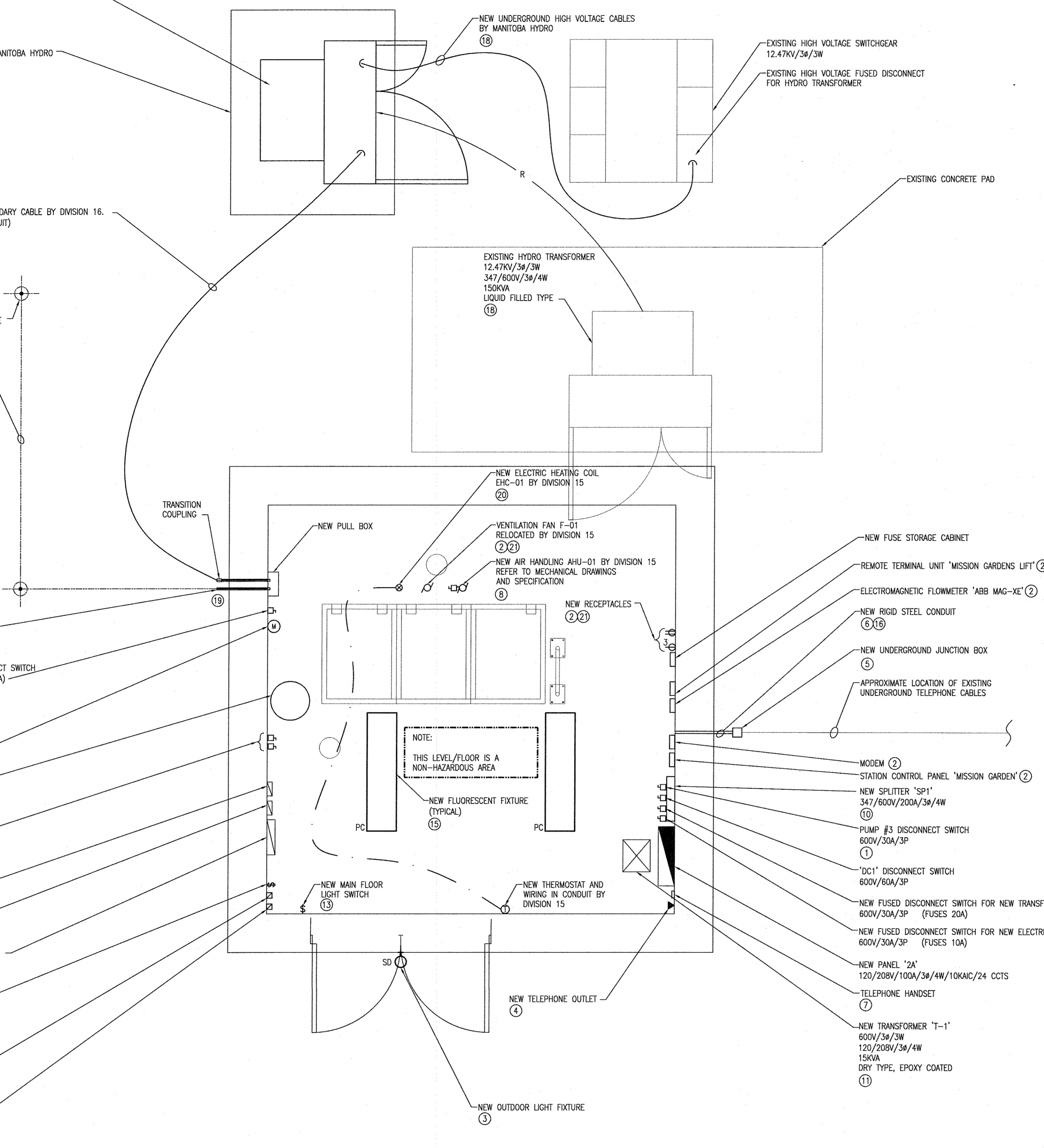
LEVEL CONTROLLER

DUPLEX PUMP CONTROLLER 'DC1'

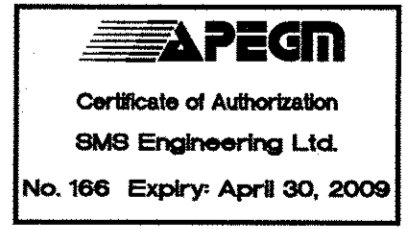
NEW WET WELL AND INTERMEDIATE LEVEL LIGHTING SWITCHES

NEW MANUAL STARTER FOR AIR HANDLING UNIT AHU-01 BY DIVISION 16.

MANUAL STARTER FOR VENTILATION FAN F-01. RELOCATED BY DIVISION 16.



NOTE:
SITE SERVICES SHOWN ARE FOR INFORMATION PURPOSES ONLY. THE SERVICES SHOWN ARE APPROXIMATE AND MAY NOT BE ACCURATE. CONTRACTOR TO VERIFY ON SITE ALL LOCATIONS THAT MAY AFFECT SCOPE OF WORK. USE 'SOFT-DIG' TECHNIQUES WHEN WORKING AROUND EXISTING SERVICES TO MITIGATE THE POSSIBILITY OF DAMAGE. REPLACE ANY EXISTING SERVICES THAT THIS CONTRACTOR DAMAGES.



1 MAIN FLOOR PLAN - NEW CONSTRUCTION (12)
E3.0 SCALE: 1:25

No.	REVISIONS	DATE	BY	DATE	DATE	DATE
3	ISSUED FOR BID OPPORTUNITY (REV)	31.03.09	SB			
2	ISSUED FOR BID OPPORTUNITY	27.03.09	SB			
1	ISSUED FOR 99% OWNER REVIEW	24.02.09	SB			

DESIGNED BY	SB	CHECKED BY	SB
DRAWN BY	IN	APPROVED BY	BDL
HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION	SIGNED BY: K.ZUREK
VERT. SCALE	AS NOTED	DATE	MARCH 27, 2009

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07-213-01

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
Winnipeg

REHABILITATION OF BOURNAIS WASTEWATER PUMPING STATION
MAIN FLOOR PLAN ELECTRICAL
NEW CONSTRUCTION

CONSULTANT ACAD DWG. No.:	E3.0
SHEET	9 OF 14
CITY DWG. NO.	8754