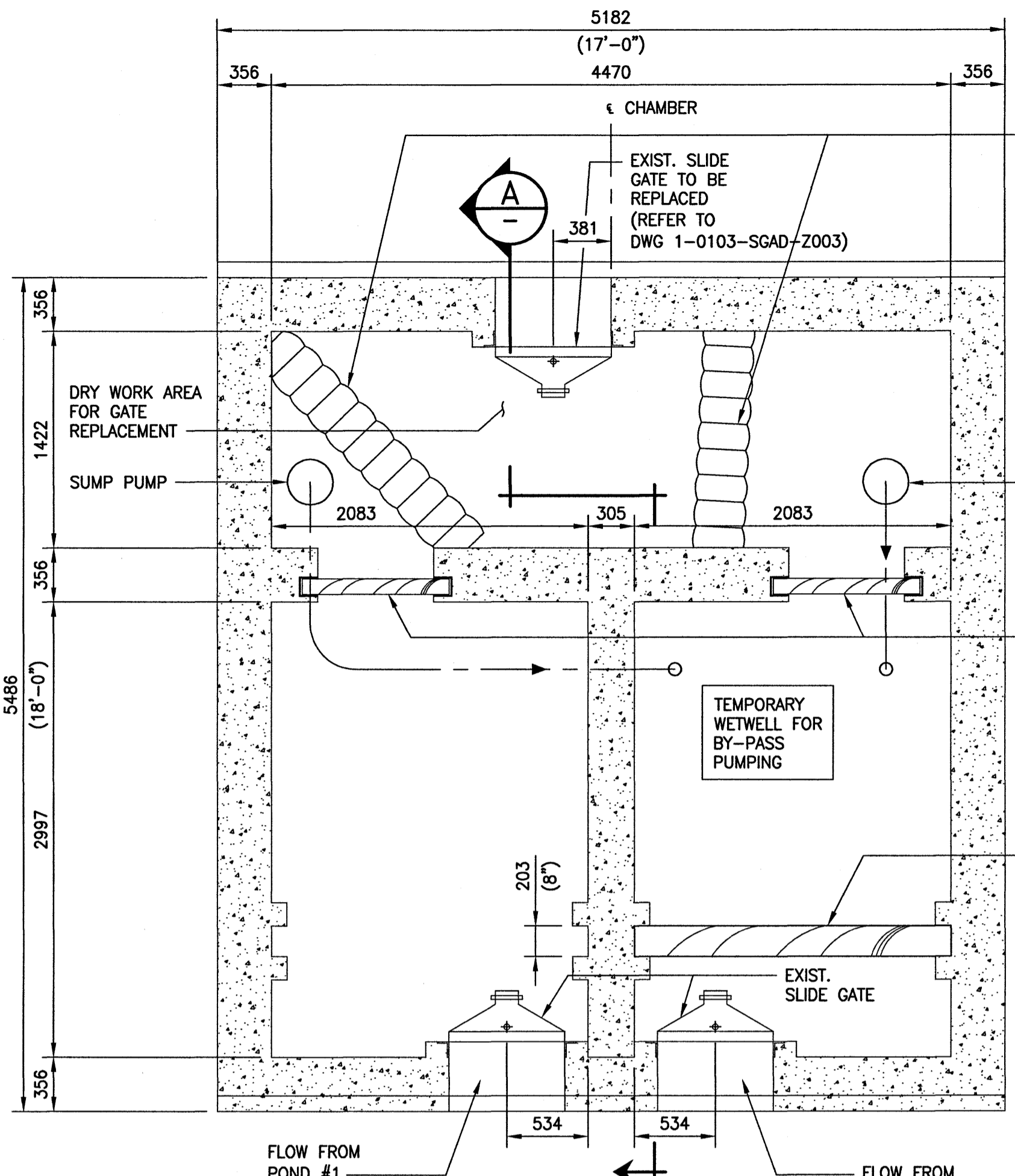


WARNING:
EXIST. GATE CHAMBER BUILDING KNOWN TO CONTAIN ASBESTOS CEMENT BOARD. DO NOT CUT, MODIFY OR DISTURB INTERIOR SHEATHING PANELS.

PLAN - EXISTING

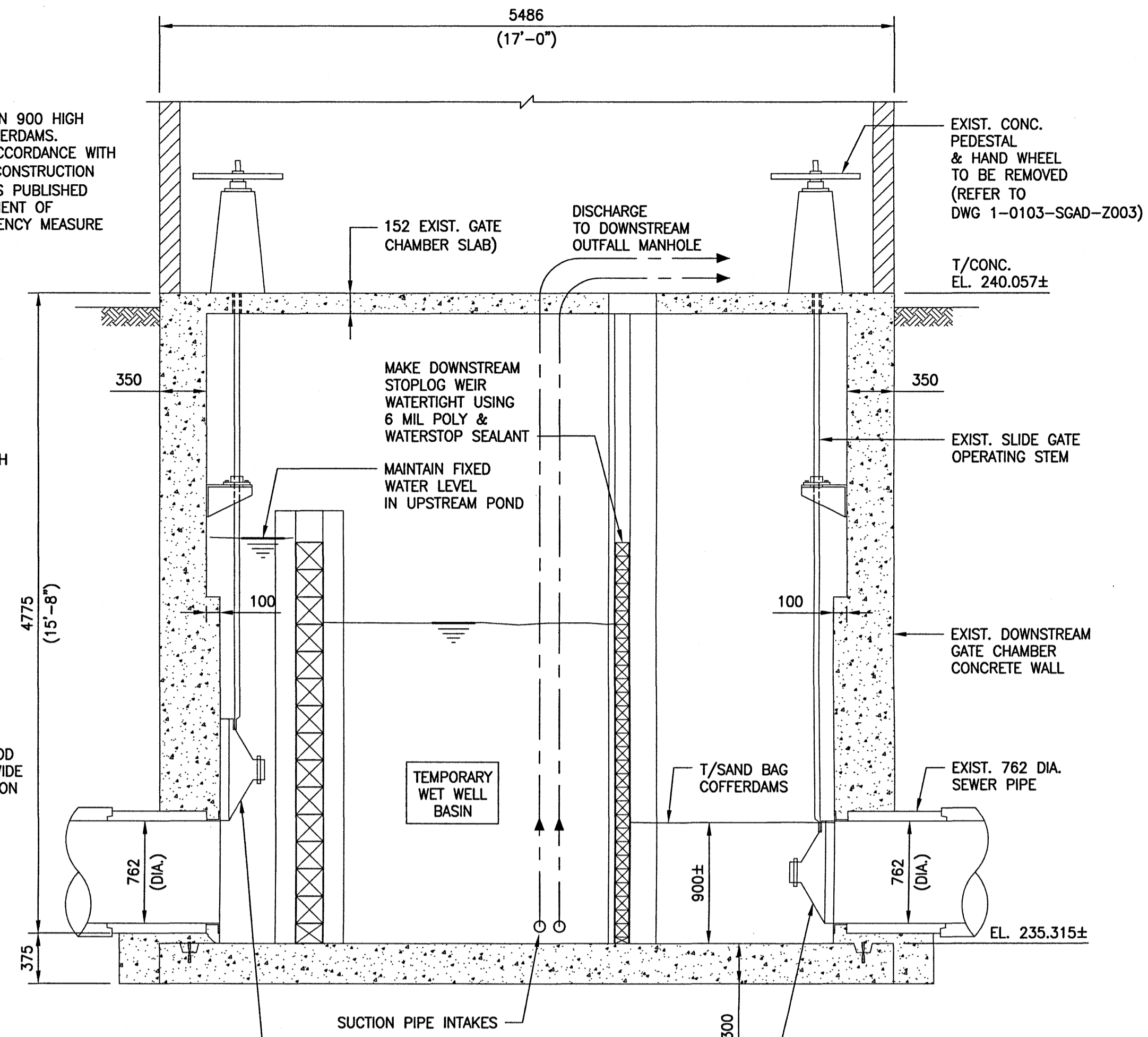
SCALE: 1:30

WARNING:
LOW HANDRAIL CONTRACTOR TO PROVIDE TEMPORARY GUARDS TO 1070 HEIGHT CONSTRUCTED FROM DIMENSIONAL LUMBER.



PLAN - EXISTING

SCALE: 1:30

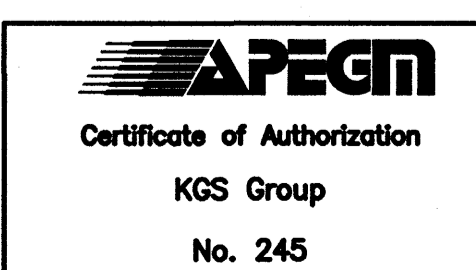
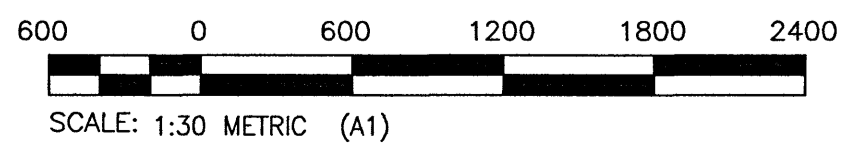


A SECTION

SCALE: 1:30

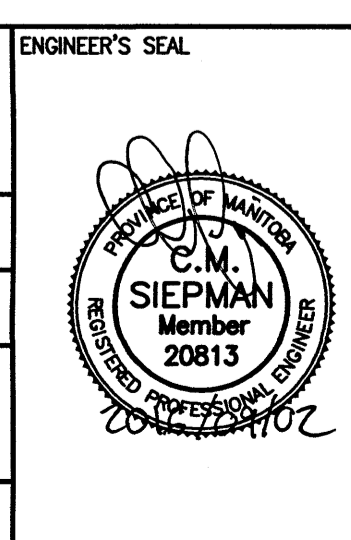
TEMPORARY PUMPING NOTES:

- THE TEMPORARY PUMPING CONFIGURATION DEPICTED IN THIS DRAWING IS CONCEPTUAL ONLY AND IS INTENDED TO REPRESENT GENERAL FLOW CONTROL REQUIREMENTS. FINAL LAYOUT AND CONFIGURATION BY THE CONTRACTOR.
- PROVIDE AND MAINTAIN A FULLY AUTOMATIC BY-PASS PUMPING SYSTEM ALONG WITH A FULLY INDEPENDENT STANDBY SYSTEM. ALL PUMPS ARE TO BE INSTALLED AND CONNECTED TO SUCTION AND DISCHARGE PIPING AND AVAILABLE FOR OPERATION AT ALL TIMES. A THIRD REPLACEMENT PUMP OF EQUAL CAPACITY SHALL BE IMMEDIATELY PROVIDED IF ONE OF THE ORIGINAL TWO PUMPS HAS TO BE REMOVED FROM SITE FOR REPAIRS OR MAINTENANCE.
- BY-PASS FLOWS TO BE DISCHARGED TO MANHOLE #70006409, LOCATED APPROXIMATELY 100m DOWNSTREAM OF THE EXISTING GATE CHAMBER BUILDING AS SHOWN ON DWG 1-0103-CGAD-Z001.
- SUBMIT A FLOW CONTROL PLAN FOR REVIEW AND APPROVAL BY THE CONTRACT ADMINISTRATOR PRIOR TO THE COMMENCEMENT OF ANY WATER CONTROL INSTALLATIONS. FLOW CONTROL PLAN SHALL INCLUDE DETAILED INFORMATION FOR PUMPING EQUIPMENT TO BE USED INCLUDING PUMP CAPACITY, DIMENSIONS, PUMP CONTROLS AND INSTALLATION DETAILS. INCLUDE SUCTION AND DISCHARGE PIPING DETAILS.
- THE TEMPORARY PUMPING SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:
 - INSTALLATION OF UPSTREAM STOPLOGS TO CONTROL POLISHING POND ELEVATION. SUPPLY WOOD STOPLOGS TO FIT WITHIN THE EXISTING CONCRETE GUIDES.
 - KEEP DOWNSTREAM STOPLOGS AT THEIR EXISTING ELEVATION TO CREATE A WETWELL PUMP SUCTION BASIN BETWEEN THE TWO STOPLOG WEIRS. THE DOWNSTREAM STOPLOGS SHALL BE SEALED USING A COMBINATION OF POLYETHYLENE SHEETING, PLYWOOD AND WATERSTOP SEALANT TO ENSURE WATERTIGHTNESS. BYPASS PUMPS SHALL DRAW WATER FROM THE NORTH WETWELL BASIN. THE CONTRACTOR IS ADVISED THAT THE EXISTING DOWNSTREAM STOPLOGS ARE KNOWN TO LEAK AND THAT THE EXISTING SLIDE GATES DO NOT WORK.
 - INSTALL AND MAINTAIN TWO COFFERDAMS TO MAINTAIN A DRY WORK AREA IN FRONT OF THE EXISTING DOWNSTREAM SLIDE GATE. INSTALL AND MAINTAIN SUMP PUMPS UPSTREAM OF EACH COFFERDAM TO DEWATER ANY LEAKAGE THROUGH THE DOWNSTREAM STOPLOGS. DISCHARGE SUMP PUMPS TO THE TEMPORARY WETWELL BASIN IN NORTH CHANNEL. MAINTAIN COFFERDAMS UNTIL INSTALLATION OF THE NEW SLIDE GATE IS COMPLETE.
 - DESIGN FLOW RATE = 30 ML/DAY
 - BYPASS PIPING SHALL BE DIRECTED OUT OF THE EXISTING GATE CHAMBER STRUCTURE THROUGH THE EXISTING DOOR. THE CONTRACTOR SHALL INSTALL A TEMPORARY DOOR WITH PIPE OPENINGS TO MAINTAIN A SUFFICIENT AIR SEAL IN THE BUILDING.
 - DISCHARGE PIPING SHALL BE WEATHER RESISTANT, INSULATE AND HEAT TRACE DISCHARGE PIPES AS REQUIRED TO PREVENT FREEZE-UP. PROTECT DISCHARGE PIPES BY BURIAL OR STRUCTURAL MEANS.
 - THE CONTRACTOR SHALL PROVIDE A 24 HOUR CONTACT PERSON WHO CAN ADDRESS ANY ISSUES WITH THE TEMPORARY PUMPING SYSTEM. CONTRACTOR SHALL CONTINUOUSLY MONITOR THE PUMPING SYSTEM USING REMOTE SENSING RESPONSE TIME UPON FAILURE OF THE PUMPING SYSTEM SHALL BE ONE HOUR OR LESS.
 - THE CONTRACT ADMINISTRATOR MAY ISSUE A STOP WORK ORDER TO THE CONTRACTOR IF TEMPORARY PUMPING IS NOT MAINTAINED TO A LEVEL CONSISTENT WITH THIS DRAWING OR THE CONTRACTOR'S APPROVED TEMPORARY BY-PASS PUMPING PLAN SUBMITTAL.
 - INSTALL AND MAINTAIN A MINIMUM 15 kW GENERATOR TO SUPPLY POWER TO SUMP PUMPS, BUILDING UNIT HEATERS AND COMPRESSOR DURING CONSTRUCTION. NORMAL ELECTRICAL SERVICE TO BE USED WHEN AVAILABLE.
 - BE AWARE THAT UNFORESEEN CONDITIONS SUCH AS LARGE WATERMAIN BREAKS & UNSEASONABLY WARM WEATHER MAY RESULT IN INCREASED FLOWS AT TIMES FROM THE WEWPC POLISHING PONDS DURING CONSTRUCTION. FLOWS ARE TO BE MONITORED ON AN ONGOING BASIS DURING CONSTRUCTION.
 - SEE DIVISION 1 OF THE BID OPPORTUNITY DOCUMENTS FOR ADDITIONAL INFORMATION.
 - FLOW FROM THE PONDS IS CONTINUOUS. CONSTANT PUMPING IS REQUIRED. EACH SEPARATE PUMPING SYSTEM SHALL HAVE ITS OWN LEVEL SENSOR THAT WILL SPEED UP OR SLOW DOWN ITS BYPASS PUMP TO MAINTAIN A FIXED LEVEL IN THE GATE CHAMBER WET WELL. IF ONE PUMP CANNOT KEEP UP OR ITS LEVEL SENSOR HAS FAILED AND THE WET WELL LEVEL RISES ABOVE SETPOINT, THE STANDBY SYSTEM SHALL START IMMEDIATELY AND THE CONTRACTOR AND CITY ADVISED AUTOMATICALLY. THE CONTRACTOR IS FREE TO RUN BOTH SYSTEMS CONCURRENTLY IF THIS PROVIDES FOR A MORE RELIABLE INSTALLATION.
 - SHOULD THE CONTRACTOR WISH TO STOP OUTFLOW FROM THE PONDS FOR A PERIOD OF UP TO 4 HOURS, USING HIS OWN MEANS, APPROVAL FROM THE CONTRACT ADMINISTRATOR WOULD BE REQUIRED FIRST.



B.M. -	ELEV. -				
00	ISSUED FOR CONSTRUCTION	2016/09/02	KRS	CMS	
NO.	REVISIONS	DATE	DESIGN	CHECK	

KGS GROUP CONSULTING ENGINEERS	
DESIGNED BY: K. R. DYCK	CHECKED BY: CMS
DRAWN BY: F. B. VALENCIA	APPROVED BY:
SCALE: AS NOTED	ISSUED FOR CONSTRUCTION
DATE: 2016/06/27	BY:
CONSULTANT NO.: 15-0107-019_C04	



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

WEST END SEWAGE TREATMENT PLANT
EFFLUENT MONITORING STATION
GENERAL ARRANGEMENT DRAWING
CIVIL
TEMPORARY PUMPING

CITY DRAWING NUMBER 1-0103-CGAD-ZT01	SHEET 00	REV. A1	SIZE A1
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