

PLAN
SCALE 1:100

DRAWING NOTES

GENERAL

- DO NOT SCALE DRAWINGS.
- VERIFY ALL DIMENSIONS SHOWN PRIOR TO COMMENCING CONSTRUCTION.
- VERIFY WEIGHT AND LOCATION OF ALL EQUIPMENT ON STRUCTURE AND REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.
- LOCATE UNDERGROUND SERVICES AND PROTECT THEM AT ALL TIMES DURING CONSTRUCTION.
- STRUCTURAL DRAWINGS SHOWING THE COMPLETED STRUCTURE DO NOT INDICATE COMPONENTS WHICH MAY BE NECESSARY FOR SAFETY DURING CONSTRUCTION.

SELECTIVE DEMOLITION

- REMOVE ITEMS AND MATERIALS WHERE SHOWN ON DRAWINGS. REMOVE ONLY MATERIALS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- PROTECT WORK TO REMAIN.
- PROVIDE PROTECTION TO PERSONNEL WORKING IN ADJACENT AREAS.
- CAP OFF AND MAKE SAFE MECHANICAL AND ELECTRICAL SERVICES AS REQUIRED.
- STORE AND PROTECT MATERIALS AND ITEMS TO BE INSTALLED IN RENOVATED AREAS.
- REMOVE FROM SITE ALL MATERIALS NOT REQUIRED.

CAST-IN-PLACE CONCRETE

- ALL CONCRETE TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH LATEST EDITION OF CSA A23.1 AND CSA A23.2.
- CONCRETE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

STRUCTURAL BASES: 30MPa;
SLUMP MAX. 90mm;
AGGREGATE MAX. 20mm;
ENTRAINED AIR 3-5%

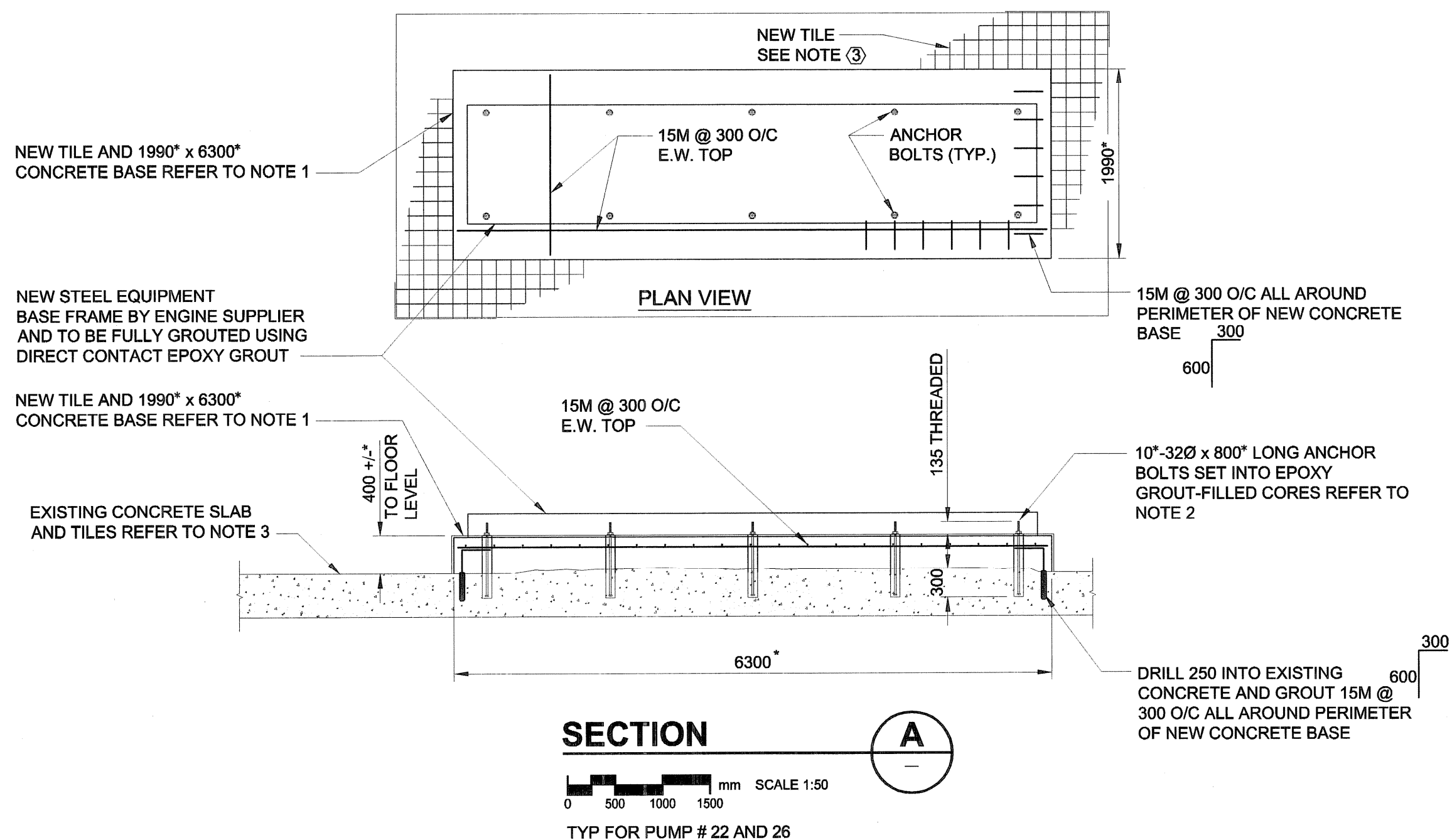
REINFORCING STEEL

- ALL REINFORCING STEEL TO BE CSA G30.18M 92 400MPa DEFORMED BARS EXCEPT STIRRUPS WHICH MAY BE 300 MPa GRADE STEEL. ALL REINFORCING TO BE DETAILED IN ACCORDANCE WITH LATEST EDITION OF ACI DETAILING MANUAL, UNLESS OTHERWISE NOTED.
- REINFORCING STEEL COVER TO CONFORM TO LATEST EDITION OF CSA A23.3 AND AS FOLLOWS:

BASES: 1" (25mm)

GROUT

- GROUT SHALL BE DIRECT CONTACT NON SHRINKING, OIL RESISTANT EPOXY TYPE. UNISORB V100 OR EQUIVALENT, MINIMUM 3 DAY COMPRESSIVE STRENGTH OF 11000 PSI (76 MPa).
- PLACE GROUT ACCORDING TO ENGINE MANUFACTURER AND GROUT MANUFACTURER'S RECOMMENDATIONS.



SECTION
SCALE 1:50
TYP FOR PUMP # 22 AND 26

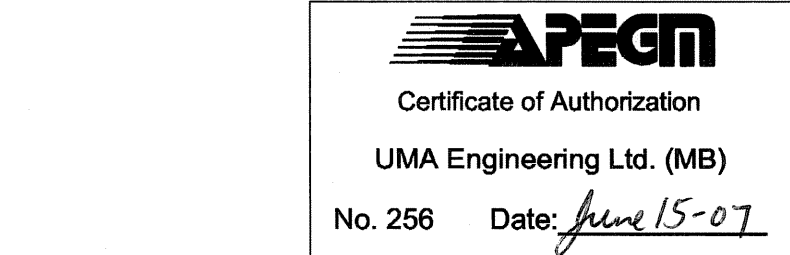
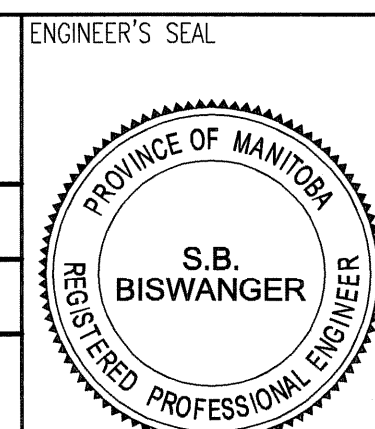
SECTION AND PLAN VIEW NOTES:

- REMOVE EXISTING TILE AND CONCRETE BASE TO FLOOR LEVEL LEAVING SURFACE ROUGH AND CLEAN. REPLACE WITH NEW CONCRETE BASE AND CERAMIC TILE.
- 100Ø SLEEVE THROUGH NEW CONCRETE BASE AND CORE 100Ø HOLE 300 INTO EXISTING CONCRETE SLAB, SLEEVE AND CORE LOCATIONS TO BE DETERMINED ON SITE TO SUIT STEEL BASE FOR NEW ENGINE AND EXISTING PUMP.
- SAWCUT AND REMOVE EXISTING TILE TO GROUT LINE APPROX. 600mm ALL AROUND NEW CONCRETE BASE AND REPLACE WITH NEW TILE, REFER TO SECTION 093013 FOR TILING SPECIFICATION.
- REPAIR/PATCH CERAMIC TILES AS REQUIRED BY OTHER SUPPORT AND EQUIPMENT REMOVALS.
- * FIELD VERIFY OR VERIFY WITH ENGINE MANUFACTURER REGARDING DIMENSIONS AND/OR QUANTITY

DRN	CHK	DES	ENG	IDR
UMA/AECOM REVIEW				

B.M. ELEV.	FIELD BOOK #:
POSTED TO LBIS	
DESIGNED BY	SBB
DRAWN BY	RS
C	ISSUED FOR BID 07/06/15 RS
B	ISSUED FOR 99% REVIEW 07/05/04 RS
A	ISSUED FOR 75% REVIEW 07/03/15 RS
NO.	REVISIONS

UMA AECOM	
DESIGNED BY	SBB
DRAWN BY	RS
CHECKED BY	
APPROVED BY	
DATE	07/03/09
FILENAME:	D265-199-00_01-S-0001_RX.dwg



THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

G. C. MACLEAN PUMPING STATION
Contract No.
Natural Gas Engine Drives Replacement
Structural
ENGINE P-22 AND P-26 CONCRETE BASE

CITY DRAWING NUMBER: 1-0630A-D-S0001
SHEET: 001
REV. C
SIZE D