



BILL OF ROCK SOCKET CAISSONS CAISSON LENGTH (20.6m±)

No.	PILE TYPE	DESCRIPTION	LOCATION	APPROX. AVERAGE LENGTH (m)	TOTAL (m)
9	1067φ x 20 THK. STEEL CASING	CAISSON	SU.2 - SU.4	10.1±	90.9±
9	914φ CONC. FILLED CAISSON	CAISSON	SU.2 - SU.4	7.0±	63.0±
9	914φ x 20 THK. STEEL CASING	CAISSON	SU.2 - SU.4	3.0	27.0
9	760φ CONC. FILLED ROCK SOCKET	CAISSON	SU.2 - SU.4	3.5	31.5

BILL OF PRECAST CONCRETE PILES

No.	PILE TYPE	DESCRIPTION	LOCATION	LENGTH (m)	TOTAL (m)
36	400 A/F CONC. HEX. PILES	ABUTMENT	SU.1	15	540
16	400 A/F CONC. HEX. PILES	WINGWALL	SU.1	15	240
36	400 A/F CONC. HEX. PILES	ABUTMENT	SU.5	15	540
15	400 A/F CONC. HEX. PILES	WINGWALL	SU.5	15	240
TOTAL LENGTH (m)					1560

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

APEGM
Certificate of Authorization
Stantec Consulting Ltd.
No. 1301 Expiry: April 30, 2006

BILL OF REINFORCING STEEL PER CAISSON (9 TOTAL)

STRAIGHT BARS				RING BARS				BENT BARS								
MARK	QTY	LENGTH (mm)	MASS (kg)	MARK	QTY	TYPE	DIAMETER (mm)	MASS (kg)	MARK	QTY	TYPE	A	B	C	LENGTH (mm)	MASS (kg)
C3502	20	8130	1276.4	C1501	46	B	765	173.8	C3501	20	A	2000	250	125	2250	354.1
C3503	20	12500	1970.4	C1502	20	B	525	51.8								
C3504	20	8000	1256.0													
TOTAL MASS OF REINFORCING STEEL (kg.) = 5882.2																

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE DATE

NOTE:
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. CONTRIBUTION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

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DESIGNED BY: KSA/MJB
DRAWN BY: JMB/JGF
CHECKED BY: GWM
APPROVED BY: MJB
AUTHORIZED BY: R. FINGAS, P. ENG.
DATE: 05.10.26

HOR. SCALE: AS SHOWN
VERTICAL: AS SHOWN
DATE: 05.07.04

ENGINEER'S SEAL
ORIGINAL SEALED BY
M.J. BOISSONNEAULT
P. ENG.
05.10.26

CONSULTANT DRAWING NO.
I3703042-S06

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

KENASTON UNDERPASS
KENASTON BLVD. / CN RIVERS SUB. MILE 5.18
RAILWAY BRIDGE CONSTRUCTION

SHEET **8** OF **21**
CAD FILE DRAWING NUMBER
KU-08-664.dwg
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P-3258-132