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STANDARDS

B-5 M	1/3/2000
B-71 M	6/13/1997
BR1-97M	8/6/1998
C-1M	1/3/2000
D-2M	6/13/1997
D-4M	6/13/1997
D-6M	6/13/1997
D-9M	6/13/1997
D-15M	6/13/1997
D-16M	6/13/1997
E-100M	6/13/1997
E-101M	6/13/1997
E-102AM	6/13/1997
E-102M	6/13/1997
E-106M	6/13/1997
E-107AM	6/13/1997
E-107M	6/13/1997
E-108M	6/13/1997
E-110M	6/13/1997
E-121M	6/13/1997
E-123M	6/13/1997
E-134M	6/13/1997
E-136AM	6/13/1997
E-136BM	6/13/1997
E-138M	6/13/1997
E-140M	6/13/1997
E-142M	6/13/1997
E-143M	6/13/1997
E-152M	6/13/1997
E-160M	6/13/1997
E-162M	6/13/1997
E-170M	11/4/1999
E-171AM	6/13/1997
E-171BM	6/13/1997
E-172M	6/13/1997
E-173M	6/13/1997
E-175M	6/13/1997
G-1M	1/3/2000
G-1dM	1/3/2000
T-1M	6/13/1997
T-2M	6/13/1997

FINAL HYDRAULIC REPORT

DESIGN CRITERIA

1. DESIGN LIVE LOAD AASHTO	MS 22.5
2. DESIGN SPAN	40 METERS CENTERLINE TO CENTERLINE OF BEARING
3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL ON LEDGE	192 kPa
4. ALLOWABLE LOAD FOR PILING	N/A
TYPE	N/A
ESTIMATED LENGTH	N/A
5. STRUCTURAL STEEL AASHTO GRADE	M270M GR 345 W
6. REINFORCING STEEL GRADE	420 Mpa
7. CONCRETE CLASS A (HPC-A)	f'c : 30 Mpa
CONCRETE CLASS B (HPC-B)	f'c : 25 Mpa
CONCRETE CLASS D	f'c : 20 Mpa
8. SOIL UNIT WEIGHT	22.00 kN/m ³
9. DESIGN LOAD FOR SPREAD FOOTINGS ON SOIL	(SEE MSE WALL NOTES)

TRAFFIC MAINTENANCE

1. IS TRAFFIC TO BE MAINTAINED?	YES
IF YES, ON EXISTING STRUCTURE	YES
OR ON TEMPORARY BRIDGE	NO
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OF TWO WAY	N/A
TRAFFIC CONTROL SIGNALS REQUIRED	YES
MINIMUM CLEAR SPAN (NORMAL TO STREAM):	N/A
WATERWAY OF FULL OPENING:	N/A
VERTICAL CLEARANCE ABOVE STREAMBED:	N/A
ARE SIDEWALKS REQUIRED?	NO
IF SO, ON WHAT SIDE?	N/A
STRUCTURE TYPE:	N/A

LFD LOAD RATING (TONS)

LOADING LEVELS	TRUCK						
	H	HS	3S2	6 AXLE	3A STR.	4A STR.	SA SEM
INVENTORY	39	41					
POSTED	55	57	63		57	57	60
OPERATING		69	75	84	68	68	

COMMENTS: Servicing Governs Load Rating

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2000	950	130	50	4	70
2020	1290	180	50	3	70

20 year ESAL for flexible pavement 2000 to 2020 : 834,000
 40 year ESAL for flexible pavement 2000 to 2040 : 2,07,000
 Design Speed : 80 km/h

PROJECT NAME: **Barton**
 PROJECT NUMBER: **STP 0113 (58)s**

FILE NAME: **sc116pi.xls** PLOT DATE: **11/20/01**
 PROJECT LEADER: **C.P. Williams** DRAWN BY: **P.G. Jarvis**
 DESIGNED BY: **W.B. Symonds** CHECKED BY: **W.B. Symonds**
 PRELIMINARY INFORMATION SHEET SHEET **2** OF **120**