

PART A - BRIDGE WORK

CITY OF WPG. DWG. NUMBER	W.E.I. DWG. NUMBER	DWG. DESCRIPTION
B109-11-006	0900070501-DWG-S0001	COVER SHEET
B109-11-007	0900070501-DWG-S0002	DESIGN DATA AND DRAWINGS LIST
B109-11-008	0900070501-DWG-S0003	SITE PLAN - GENERAL LAYOUT
B109-11-009	0900070501-DWG-S0004	GENERAL ARRANGEMENT - PLAN AND ELEVATION
B109-11-010	0900070501-DWG-S0005	DECK PROFILE 1
B109-11-011	0900070501-DWG-S0006	DECK PROFILE 2
B109-11-012	0900070501-DWG-S0007	DECK PROFILE 3
B109-11-013	0900070501-DWG-S0008	GENERAL ARRANGEMENT - CROSS SECTIONS
B109-11-014	0900070501-DWG-S0009	BRIDGE - SCOPE OF WORK
B109-11-015	0900070501-DWG-S0010	CONSTRUCTION STAGING - PHASE 1 & 1A - REMOVAL AND CONSTRUCTION 2011
B109-11-016	0900070501-DWG-S0011	CONSTRUCTION STAGING - PHASE BTW 1 & 2 & 2 REMOVAL 2012
B109-11-017	0900070501-DWG-S0012	CONSTRUCTION STAGING - PHASE 2 & 2A - CONSTRUCTION 2012
B109-11-018	0900070501-DWG-S0013	OVERALL LAYOUT AND BEARING DATA
B109-11-019	0900070501-DWG-S0014	NORTH AND SOUTH ABUTMENTS BEARING DETAILS
B109-11-020	0900070501-DWG-S0015	PIER 1 AND PIER 3 - BEARING DETAILS
B109-11-021	0900070501-DWG-S0016	PIER 2 - BEARING DETAILS
B109-11-022	0900070501-DWG-S0017	NORTH ABUTMENT AND APPROACH SLAB - PHASE 1 REMOVAL
B109-11-023	0900070501-DWG-S0018	NORTH ABUTMENT AND APPROACH SLAB - PHASE 1 REMOVAL
B109-11-024	0900070501-DWG-S0019	NORTH ABUTMENT AND APPROACH SLAB - PHASE 1 CONSTRUCTION
B109-11-025	0900070501-DWG-S0020	NORTH ABUTMENT AND APPROACH SLAB - PHASE 1 CONSTRUCTION
B109-11-026	0900070501-DWG-S0021	NORTH ABUTMENT AND APPROACH SLAB - PHASE 1 CONSTRUCTION
B109-11-027	0900070501-DWG-S0022	NORTH ABUTMENT AND APPROACH SLAB - PHASE 1 REINFORCING
B109-11-028	0900070501-DWG-S0023	NORTH ABUTMENT AND APPROACH SLAB - PHASE 1 REINFORCING
B109-11-029	0900070501-DWG-S0024	NORTH ABUTMENT AND APPROACH SLAB - PHASE 1 REINFORCING
B109-11-030	0900070501-DWG-S0025	NORTH ABUTMENT AND APPROACH SLAB - PHASE 1A REMOVAL
B109-11-031	0900070501-DWG-S0026	NORTH ABUTMENT AND APPROACH SLAB - PHASE 1A CONSTRUCTION
B109-11-032	0900070501-DWG-S0027	NORTH ABUTMENT AND APPROACH SLAB - PHASE 1A REINFORCING
B109-11-033	0900070501-DWG-S0028	NORTH ABUTMENT AND APPROACH SLAB - PHASE 2 REMOVAL
B109-11-034	0900070501-DWG-S0029	NORTH ABUTMENT AND APPROACH SLAB - PHASE 2 REMOVAL
B109-11-035	0900070501-DWG-S0030	NORTH ABUTMENT AND APPROACH SLAB - PHASE 2 CONSTRUCTION
B109-11-036	0900070501-DWG-S0031	NORTH ABUTMENT AND APPROACH SLAB - PHASE 2 CONSTRUCTION
B109-11-037	0900070501-DWG-S0032	NORTH ABUTMENT AND APPROACH SLAB - PHASE 2 REINFORCING
B109-11-038	0900070501-DWG-S0033	NORTH ABUTMENT AND APPROACH SLAB - PHASE 2 REINFORCING
B109-11-039	0900070501-DWG-S0034	NORTH ABUTMENT AND APPROACH SLAB - PHASE 2 REINFORCING
B109-11-040	0900070501-DWG-S0035	NORTH ABUTMENT AND APPROACH SLAB - PHASE 2A CONSTRUCTION
B109-11-041	0900070501-DWG-S0036	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 1 REMOVAL
B109-11-042	0900070501-DWG-S0037	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 1 REMOVAL
B109-11-043	0900070501-DWG-S0038	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 1 CONSTRUCTION
B109-11-044	0900070501-DWG-S0039	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 1 CONSTRUCTION
B109-11-045	0900070501-DWG-S0040	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 1 CONSTRUCTION
B109-11-046	0900070501-DWG-S0041	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 1 REINFORCING
B109-11-047	0900070501-DWG-S0042	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 1 REINFORCING
B109-11-048	0900070501-DWG-S0043	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 1 REINFORCING
B109-11-049	0900070501-DWG-S0044	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 1A REMOVAL
B109-11-050	0900070501-DWG-S0045	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 1A CONSTRUCTION
B109-11-051	0900070501-DWG-S0046	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 1A REINFORCING
B109-11-052	0900070501-DWG-S0047	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 2 REMOVAL
B109-11-053	0900070501-DWG-S0048	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 2 REMOVAL
B109-11-054	0900070501-DWG-S0049	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 2 CONSTRUCTION
B109-11-055	0900070501-DWG-S0050	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 2 CONSTRUCTION
B109-11-056	0900070501-DWG-S0051	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 2 CONSTRUCTION
B109-11-057	0900070501-DWG-S0052	SOUTH ABUTMENT - PHASE 2 REINFORCING
B109-11-058	0900070501-DWG-S0053	SOUTH ABUTMENT - PHASE 2 REINFORCING
B109-11-059	0900070501-DWG-S0054	SOUTH ABUTMENT - PHASE 2 REINFORCING
B109-11-060	0900070501-DWG-S0055	SOUTH ABUTMENT AND APPROACH SLAB - PHASE 2A CONSTRUCTION
B109-11-061	0900070501-DWG-S0056	BRIDGE DECK - PHASE 1 REMOVAL
B109-11-062	0900070501-DWG-S0057	BRIDGE DECK - PHASE 1 REMOVAL
B109-11-063	0900070501-DWG-S0058	POST TENSIONING TENDONS - INSPECTION AND REPAIRS
B109-11-064	0900070501-DWG-S0059	POST TENSIONING TENDONS - INSPECTION AND REPAIRS

PART A - BRIDGE WORK (CONT'D)

CITY OF WPG. DWG. NUMBER	W.E.I. DWG. NUMBER	DWG. DESCRIPTION
B109-11-065	0900070501-DWG-S0060	BRIDGE DECK - PHASE 1 CONSTRUCTION
B109-11-066	0900070501-DWG-S0061	BRIDGE DECK - PHASE 1 CONSTRUCTION
B109-11-067	0900070501-DWG-S0062	BRIDGE DECK - PHASE 1 CONSTRUCTION
B109-11-068	0900070501-DWG-S0063	BRIDGE DECK - PHASE 1 CONSTRUCTION
B109-11-069	0900070501-DWG-S0064	BRIDGE DECK - PHASE 1 CONSTRUCTION
B109-11-070	0900070501-DWG-S0065	BRIDGE DECK - PHASE 1 REINFORCING
B109-11-071	0900070501-DWG-S0066	BRIDGE DECK - PHASE 1 REINFORCING
B109-11-072	0900070501-DWG-S0067	BRIDGE DECK - PHASE 1 REINFORCING
B109-11-073	0900070501-DWG-S0068	BRIDGE DECK - PHASE 2 REMOVAL
B109-11-074	0900070501-DWG-S0069	BRIDGE DECK - PHASE 2 REMOVAL
B109-11-075	0900070501-DWG-S0070	PIER CAP & INTERMEDIATE DIAPHRAGM - CONCRETE INFILL PLAN
B109-11-076	0900070501-DWG-S0071	PIER CAP & INTERMEDIATE DIAPHRAGM - CONCRETE INFILL DETAILS
B109-11-077	0900070501-DWG-S0072	PIER CAP & INTERMEDIATE DIAPHRAGM - REINFORCING
B109-11-078	0900070501-DWG-S0073	PIER CAP & INTERMEDIATE DIAPHRAGM - REINFORCING
B109-11-079	0900070501-DWG-S0074	BRIDGE DECK - PHASE 2 CONSTRUCTION
B109-11-080	0900070501-DWG-S0075	BRIDGE DECK - PHASE 2 CONSTRUCTION
B109-11-081	0900070501-DWG-S0076	BRIDGE DECK - PHASE 2 CONSTRUCTION
B109-11-082	0900070501-DWG-S0077	BRIDGE DECK - PHASE 2A CONSTRUCTION
B109-11-083	0900070501-DWG-S0078	BRIDGE DECK - PHASE 2 REINFORCING
B109-11-084	0900070501-DWG-S0079	BRIDGE DECK - PHASE 2 REINFORCING
B109-11-085	0900070501-DWG-S0080	BRIDGE DECK - PHASE 2 REINFORCING
B109-11-086	0900070501-DWG-S0081	CONCRETE BARRIER LAYOUT
B109-11-087	0900070501-DWG-S0082	CONCRETE BARRIER - SECTIONS AND DETAILS
B109-11-088	0900070501-DWG-S0083	CONCRETE BARRIER - REINFORCING DETAILS
B109-11-089	0900070501-DWG-S0084	ALUMINUM PEDESTRIAN HANDRAIL LAYOUT
B109-11-090	0900070501-DWG-S0085	ALUMINUM PEDESTRIAN HANDRAIL ELEVATIONS, SECTIONS AND DETAILS
B109-11-091	0900070501-DWG-S0086	ALUMINUM PEDESTRIAN HANDRAIL SECTIONS AND DETAILS
B109-11-092	0900070501-DWG-S0087	ALUMINUM PEDESTRIAN HANDRAIL EXPANSION PANEL DETAILS
B109-11-093	0900070501-DWG-S0088	ALUMINUM PEDESTRIAN HANDRAIL - ART LAYOUT
B109-11-094	0900070501-DWG-S0089	ALUMINUM PEDESTRIAN HANDRAIL - ART DETAILS
B109-11-095	0900070501-DWG-S0090	ALUMINUM PEDESTRIAN HANDRAIL - ART LAYOUT
B109-11-096	0900070501-DWG-S0091	ALUMINUM PEDESTRIAN HANDRAIL - ART DETAILS
B109-11-097	0900070501-DWG-S0092	EXPANSION JOINT LAYOUT AND SECTIONS
B109-11-098	0900070501-DWG-S0093	NORTH EXPANSION JOINT - PHASE 1 CONSTRUCTION
B109-11-099	0900070501-DWG-S0094	NORTH EXPANSION JOINT - PHASE 1A CONSTRUCTION
B109-11-100	0900070501-DWG-S0095	NORTH EXPANSION JOINT - PHASE 2 CONSTRUCTION
B109-11-101	0900070501-DWG-S0096	NORTH EXPANSION JOINT
B109-11-102	0900070501-DWG-S0097	NORTH EXPANSION JOINT
B109-11-103	0900070501-DWG-S0098	SOUTH EXPANSION JOINT - PHASE 1 CONSTRUCTION
B109-11-104	0900070501-DWG-S0099	SOUTH EXPANSION JOINT - PHASE 1A CONSTRUCTION
B109-11-105	0900070501-DWG-S0100	SOUTH EXPANSION JOINT - PHASE 2 CONSTRUCTION
B109-11-106	0900070501-DWG-S0101	SOUTH EXPANSION JOINT
B109-11-107	0900070501-DWG-S0102	SOUTH EXPANSION JOINT
B109-11-108	0900070501-DWG-S0103	NORTH EXPANSION JOINT - PHASE 1 & PHASE 1A REINFORCING
B109-11-109	0900070501-DWG-S0104	NORTH EXPANSION JOINT - PHASE 2 REINFORCING
B109-11-110	0900070501-DWG-S0105	SOUTH EXPANSION JOINT - PHASE 1 & PHASE 1A REINFORCING
B109-11-111	0900070501-DWG-S0106	SOUTH EXPANSION JOINT - PHASE 2 REINFORCING
B109-11-112	0900070501-DWG-S0107	ACTIVATED ZINC ARC SPRAY DETAILS
B109-11-113	0900070501-DWG-S0108	SLOPE PAVING DETAILS
B109-11-114	0900070501-DWG-S0109	NAVIGATION LIGHTING AND DETAILS
B109-11-115	0900070501-DWG-S0110	REINFORCING SCHEDULE
B109-11-116	0900070501-DWG-S0111	REINFORCING SCHEDULE
B109-11-117	0900070501-DWG-S0112	REINFORCING SCHEDULE
B109-11-118	0900070501-DWG-S0113	BRIDGE LIGHTING AND DETAILS
B109-11-119	0900070501-DWG-S0114	BRIDGE LIGHTING AND DETAILS
B109-11-120	0900070501-DWG-S0115	ELECTRICAL ELEVATION, SECTIONS, AND DETAILS
B109-11-121	0900070501-DWG-S0116	BRIDGE DETAILS AND PANEL SCHEDULE AND LUMINAIRE SCHEDULE

PART B - ROADWORKS

CITY OF WPG. DWG. NUMBER	DILLON DWG. NUMBER	DWG. DESCRIPTION
B109-11-122	117	CONTROL LINE GEOMETRY
B109-11-123	118	PAVING & GRADING - STA 0+930 TO 1+075
B109-11-124	119	PAVING & GRADING - STA 1+075 TO 1+245
B109-11-125	120	PAVING & GRADING - STA 1+245 TO 1+345
B109-11-126	121	PAVING & GRADING - STA 1+315 TO 1+485
B109-11-127	122	PAVING & GRADING - STA 1+455 TO 1+580
B109-11-128	123	PAVING & GRADING - STA 1+580 TO 1+ 755
B109-11-129	124	CROSS SECTIONS
B109-11-130	125	DETAILS 1 OF 2
B109-11-131	126	DETAILS 2 OF 2
B109-11-132	127	TRAFFIC STAGING - PHASE 1A
B109-11-133	128	TRAFFIC STAGING - PHASE 1B
B109-11-134	129	TRAFFIC STAGING - PHASE 1C
B109-11-135	130	TRAFFIC STAGING - PHASE 2A
B109-11-136	131	TRAFFIC STAGING - PHASE 2B

DESIGN DATA:

DESIGN SPECIFICATIONS:

LIVE LOADING:

CONCRETE:

CANADIAN HIGHWAY BRIDGE DESIGN CODE CAN/CSA-S6-06

CHBDC CL-625 TRUCK AND LANE LOAD

TYPE 1: FOR MISCELLANEOUS REPAIRS AND SLOPE PAVING  
CLASS C-1, f<sub>c</sub> = 35 MPa @ 28 DAYS

TYPE 2: FOR DECK SLAB, SIDEWALK SLAB, AND ABUTMENT MODIFICATIONS  
CLASS C-1, f<sub>c</sub> = 35 MPa @ 28 DAYS, R<sub>i</sub> = 0.15, AND CORROSION INHIBITOR

TYPE 3: FOR NORTH ABUTMENT SLAB, TRAFFIC AND MEDIAN BARRIERS, AND APPROACH SLABS  
CLASS C-1, f<sub>c</sub> = 35 MPa @ 28 DAYS, R<sub>i</sub> = 0.15

TYPE 4: FOR PIER CAP MODIFICATIONS  
CLASS C-1, f<sub>c</sub> = 35 MPa @ 28 DAYS, R<sub>i</sub> = 0.15, AND SELF COMPACTING CONCRETE

TYPE 5: FOR HIGH PERFORMANCE CONCRETE (HPC) OVERLAY  
CLASS C-XL, f<sub>c</sub> = 50 MPa @ 56 DAYS, R<sub>i</sub> = 0.15, AND MINIMUM OF 28 MPa PRIOR TO OPENING THE BRIDGE TO NORMAL TRAFFIC

TYPE 6: SIDEWALK WEARING SURFACE OVERLAY  
CLASS C-1, f<sub>c</sub> = 32 MPa @ 28 DAYS, COLOURED

REINFORCING STEEL:

CONCRETE COVER SHALL BE 60mm UNLESS OTHERWISE NOTED

ALL REINFORCING TO BE ASTM A955, 300 SERIES, MINIMUM GRADE 420, UNS S24100, UNS S31653 OR UNS S31803

EXCEPT SLOPE PAVING - CSA G30.18, GRADE 400W

MINIMUM LAP LENGTH (UNLESS OTHERWISE NOTED):  
15M OR 16SS - 600mm  
20M OR 19SS - 800mm  
25M OR 25SS - 1200mm

ROADWAY GEOMETRY

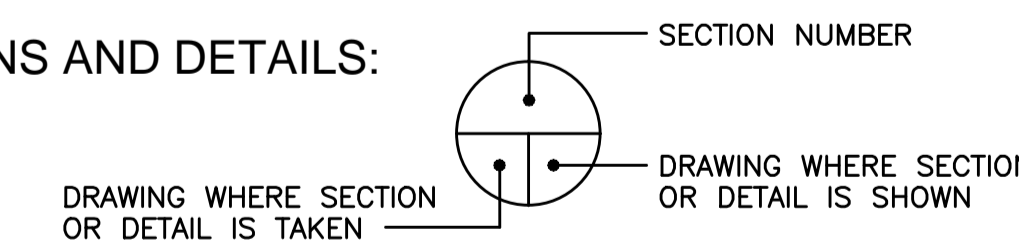
CONFORM TO REQUIREMENTS OF THE LATEST CITY OF WINNIPEG STREET AND TRANSPORTATION STANDARD MANUAL, TRANSPORTATION ASSOCIATION OF CANADA (TAC) OR AASHTO

REFERENCE DOCUMENTS:

-DRAWINGS FOR OSBORNE STREET BRIDGE REPLACEMENT ACROSS THE ASSINIBOINE RIVER (CONTRACT No. P.D. 75-197)

-DRAWINGS FOR 2007 BRIDGE MAINTENANCE, OSBORNE STREET BRIDGE AT ASSINIBOINE RIVER.

SECTIONS AND DETAILS:



B.M. ELEV.		F.B.						OSBORNE STREET BRIDGE REHABILITATION & RELATED WORKS	CITY DRAWING NUMBER B109-11-007
DESIGNED BY S.Y.		CHECKED BY V.B.						REHABILITATION & RELATED WORKS	SHEET 2 OF 131
DRAWN BY B.M.		APPROVED BY R.H.W.		HOR. SCALE: AS NOTED		RELEASED FOR CONSTRUCTION DATE 11.02.16	CONSULTANT DRAWING NO. 0900070502-DWG-S0002	DESIGN DATA AND DRAWING LIST	
00 ISSUED FOR TENDER		11.02.18		VERTICAL: AS NOTED		DATE 10.10.13			2
NO. REVISIONS		DATE							