



THE CITY OF WINNIPEG

PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION

PORTAGE AVENUE TWIN BRIDGES OVER STURGEON CREEK REHABILITATION AND RELATED WORKS

BID OPPORTUNITY NO. 989-2013

LIST OF DRAWINGS:

CITY OF WPG. DWG. NUMBER	DWG. DESCRIPTION
B178-14-001	COVER SHEET, LIST OF DRAWINGS AND DESIGN DATA
B178-14-002	SITE PLAN AND SCOPE OF WORK
B178-14-003	TRAFFIC STAGING - PHASE 1
B178-14-004	TRAFFIC STAGING - PHASE 2
B178-14-005	GENERAL ARRANGEMENT - PLAN
B178-14-006	GENERAL ARRANGEMENT - CROSS SECTIONS
B178-14-007	PHASE 1 REMOVALS - NORTH STRUCTURE PLAN
B178-14-008	PHASE 1 REMOVALS - SECTIONS AND DETAILS
B178-14-009	PHASE 1 REMOVALS - WEST ABUTMENT
B178-14-010	PHASE 1 REMOVALS - EAST ABUTMENT
B178-14-011	PHASE 1 REMOVALS - GIRDER END REMOVAL AND REPAIR
B178-14-012	PHASE 1 CONSTRUCTION - WEST ABUTMENT BACKWALL CONCRETE DETAILS
B178-14-013	PHASE 1 CONSTRUCTION - EAST ABUTMENT BACKWALL CONCRETE DETAILS
B178-14-014	PHASE 1 CONSTRUCTION - EAST AND WEST ABUTMENT BACKWALLS REINFORCING DETAILS
B178-14-015	PHASE 1 CONSTRUCTION - NORTH STRUCTURE PLAN AND SECTIONS
B178-14-016	PHASE 1 CONSTRUCTION - NORTH STRUCTURE SIDEWALK AND MEDIAN REINFORCING
B178-14-017	PHASE 1 CONSTRUCTION - CONCRETE BARRIER LAYOUT
B178-14-018	PHASE 1 CONSTRUCTION - CONCRETE BARRIER DETAILS
B178-14-019	PHASE 1 CONSTRUCTION - EAST AND WEST APPROACH SLABS
B178-14-020	PHASE 1 CONSTRUCTION - WEST APPROACH SLAB SECTIONS
B178-14-021	PHASE 1 CONSTRUCTION - EAST APPROACH SLAB SECTIONS
B178-14-022	PHASE 1 CONSTRUCTION - WEST APPROACH SLAB REINFORCING
B178-14-023	PHASE 1 CONSTRUCTION - WEST APPROACH SLAB REINFORCING
B178-14-024	PHASE 1 CONSTRUCTION - EAST APPROACH SLAB REINFORCING
B178-14-025	PHASE 1 CONSTRUCTION - EAST APPROACH SLAB REINFORCING
B178-14-026	PHASE 1 CONSTRUCTION - ALUMINIUM PEDESTRIAN HANDRAIL LAYOUT
B178-14-027	PHASE 1 CONSTRUCTION - ALUMINIUM PEDESTRIAN HANDRAIL DETAILS
B178-14-028	PHASE 1 CONSTRUCTION - ALUMINIUM PEDESTRIAN HANDRAIL DETAILS
B178-14-029	PHASE 1 CONSTRUCTION - ALUMINIUM PEDESTRIAN HANDRAIL DETAILS
B178-14-030	PHASE 1 CONSTRUCTION - EXPANSION JOINT
B178-14-031	PHASE 1 CONSTRUCTION - EXPANSION JOINT
B178-14-032	PHASE 1 CONSTRUCTION - EXPANSION JOINT
B178-14-033	PHASE 1 CONSTRUCTION - EXPANSION JOINT
B178-14-034	PHASE 1 CONSTRUCTION - EXPANSION JOINT
B178-14-035	PHASE 1 CONSTRUCTION - EXPANSION JOINT
B178-14-036	PHASE 2 REMOVALS - SOUTH STRUCTURE PLAN
B178-14-037	PHASE 2 REMOVALS - SECTIONS AND DETAILS
B178-14-038	PHASE 2 REMOVALS - WEST ABUTMENT
B178-14-039	PHASE 2 REMOVALS - EAST ABUTMENT
B178-14-040	PHASE 2 REMOVALS - GIRDER END REMOVAL AND REPAIR
B178-14-041	PHASE 2 REMOVALS - PHASING 2A & 2B
B178-14-042	PHASE 2 CONSTRUCTION - EXISTING HYDRO CONDUIT PHASING
B178-14-043	PHASE 2 CONSTRUCTION - WEST ABUTMENT BACKWALL CONCRETE DETAILS
B178-14-044	PHASE 2 CONSTRUCTION - EAST AND WEST ABUTMENT BACKWALLS REINFORCING DETAILS
B178-14-045	PHASE 2 CONSTRUCTION - SOUTH STRUCTURE PLAN & SECTIONS
B178-14-046	PHASE 2 CONSTRUCTION - SOUTH STRUCTURE SIDEWALK AND MEDIAN REINFORCING
B178-14-047	PHASE 2 CONSTRUCTION - CONCRETE BARRIER LAYOUT
B178-14-048	PHASE 2 CONSTRUCTION - EAST AND WEST APPROACH SLABS
B178-14-049	PHASE 2 CONSTRUCTION - WEST APPROACH SLAB SECTIONS
B178-14-050	PHASE 2 CONSTRUCTION - EAST APPROACH SLAB SECTIONS
B178-14-051	PHASE 2 CONSTRUCTION - WEST APPROACH SLAB REINFORCING
B178-14-052	PHASE 2 CONSTRUCTION - WEST APPROACH SLAB REINFORCING
B178-14-053	PHASE 2 CONSTRUCTION - EAST APPROACH SLAB REINFORCING
B178-14-054	PHASE 2 CONSTRUCTION - EAST APPROACH SLAB REINFORCING
B178-14-055	PHASE 2 CONSTRUCTION - ALUMINIUM PEDESTRIAN HANDRAIL LAYOUT
B178-14-056	PHASE 2 CONSTRUCTION - EXPANSION JOINT
B178-14-057	PHASE 2 CONSTRUCTION - EXPANSION JOINT
B178-14-058	PHASE 2 CONSTRUCTION - EXPANSION JOINT
B178-14-059	PHASE 2 CONSTRUCTION - EXPANSION JOINT
B178-14-060	PHASE 2 CONSTRUCTION - EXPANSION JOINT
B178-14-061	PHASE 2 CONSTRUCTION - EXPANSION JOINT
B178-14-062	PHASE 1 CONSTRUCTION - REINFORCING SCHEDULE
B178-14-063	PHASE 1 CONSTRUCTION - REINFORCING SCHEDULE
B178-14-064	PHASE 2 CONSTRUCTION - REINFORCING SCHEDULE
B178-14-065	PHASE 2 CONSTRUCTION - REINFORCING SCHEDULE
B178-14-066	ALUMINIUM BALANCED BARRIER - LAYOUT AND ELEVATIONS
B178-14-067	ALUMINIUM BALANCED BARRIER - STANDARD DETAILS
B178-14-068	UNDERBRIDGE LIGHTING DETAILS
B178-14-069	ROADWORKS - STURGEON ROAD TO TWIN BRIDGES
B178-14-070	ROADWORKS - TWIN BRIDGES TO RONALD STREET

DESIGN DATA:

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

LIVE LOADING: CHBDC CL-625 TRUCK AND LANE LOAD

CONCRETE: TYPE 1: MISCELLANEOUS REPAIRS
CLASS C-1, f'c = 35 MPa @ 28 DAYS
TYPE 2: FOR DECK SLAB, SIDEWALK SLAB, TRAFFIC BARRIERS, ABUTMENT MODIFICATIONS AND APPROACH SLABS
CLASS C-1, f'c = 35 MPa @ 28 DAYS, Ri = 0.15,

REINFORCING STEEL: CONCRETE COVER SHALL BE 60mm UNLESS OTHERWISE NOTED
ALL STAINLESS STEEL REINFORCING SHALL BE ASTM A955, 300 SERIES, MINIMUM GRADE 420, UNS S32304, UNS S31653 OR UNS S32205
MINIMUM LAP LENGTH (UNLESS OTHERWISE NOTED):
15M OR 16SS - 600mm
20M OR 19SS - 800mm
25M OR 25SS - 1200mm

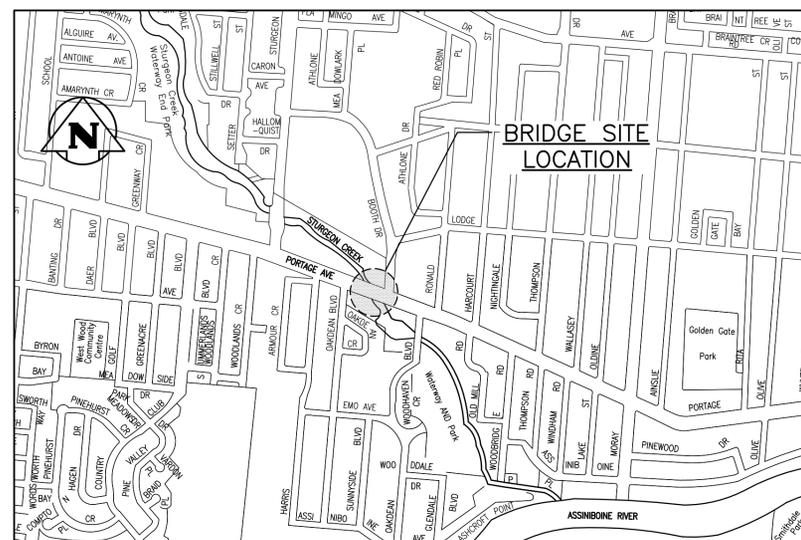
ROADWAY GEOMETRY CONFORM TO REQUIREMENTS OF THE LATEST CITY OF WINNIPEG STREET AND TRANSPORTATION STANDARD MANUAL, TRANSPORTATION ASSOCIATION OF CANADA (TAC) OR AASHTO

REFERENCE DOCUMENTS: - STURGEON CREEK BRIDGE ON PORTAGE AVENUE AS BUILT DRAWINGS B178-80-01 TO B178-80-65

RELEASED FOR CONSTRUCTION BY:

ORIGINAL SIGNED	13.12.09
DARREN BURMEY, P. ENG	DATE
BRIDGE PROJECTS ENGINEER	

CITY DRAWING NUMBER:
B178-14-001



LOCATION PLAN



TETRA TECH
1300070700-DWG-S0001