

# PLANS OF PROPOSED P.P.C.C. BRIDGE OVER \_\_\_\_\_ ON \_\_\_\_\_

LENGTH 36 384 OUT TO OUT OF ABUTMENT PRECAST BACKWALL PANELS

SUPERSTRUCTURE THREE SIMPLY SUPPORTED SPANS OF PRECAST PRESTRESSED CONCRETE CHANNEL GIRDERS WITH ASPHALT OVERLAY

SUBSTRUCTURE TWO PRECAST CONCRETE ABUTMENTS AND TWO INTERMEDIATE BENTS WITH STEEL H-PILES

ROADWAY WIDTH 9 600 OUT TO OUT OF GIRDERS

LOCATION IN \_\_\_\_\_  
R.M. OF \_\_\_\_\_

### SHEET LEGEND

1. COVER SHEET
  2. GENERAL ELEVATION
  3. BORING LOGS
  4. SITE AND EROSION CONTROL DETAILS
  5. ICE BREAKER AND CROSS BRACING DETAILS
- STD No. PPCC\_PR\_9.6\_12m\_IB\_AD06 ASSEMBLY DETAILS  
 STD No. PPCC\_PR\_9.6\_12m\_AD03 ASSEMBLY DETAILS  
 STD No. PPCC\_PR\_9.6\_12m\_IB\_SC03 STEEL PILE CAP DETAILS (2 SHEETS)  
 STD No. PPCC\_PR\_9.6\_12m\_IB\_BE03 BEARING AND ERECTION DETAILS  
 STD No. PPCC\_PR\_12m\_RD03 RAILING DETAILS (3 SHEETS)
- APPROACH GUARDRAIL DETAILS (TYP. 3 SHEETS)  USE STD IF APPLICABLE, BY TRAFFIC ENG. H. LARSEN
- ROADWAY DETAILS  WHEN REQUIRED, BY OTHERS, TYPICALLY REGION
- REFERENCE DRAWINGS  
 STD No. PPCC\_PR\_9.6\_12m\_PD01 PRECAST PANEL DETAILS (2 SHEETS)  
 STD No. PPCC\_PR\_9.6\_12m\_GD03 PRECAST PRESTRESSED CHANNEL GIRDER DETAILS (5 SHEETS)

### DESIGN DATA

#### SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications, Seventh Edition, 2014

#### VEHICULAR LIVE LOADING

1. Modified AASHTO HSS-25 Truck
2. AASHTO LRFD "HL-93" Loading

#### STRUCTURAL CONCRETE

CSA A23.1, Exposure Class C-1 Air content category 1

1. PRECAST PRESTRESSED CONCRETE CHANNEL GIRDERS -  $f'c = 45$  MPa at 28 days
2. PRECAST PANELS -  $f'c = 35$  MPa  $f'ci = 35$  MPa at time of de-stressing

#### REINFORCING STEEL

1. PRECAST PRESTRESSED CONCRETE CHANNEL GIRDERS - CAN/CSA-G30.18-M92 Grade 400W black (i.e. no epoxy coating)
2. PRECAST PANELS - CAN/CSA-G30.18-M92 Grade 400W black (i.e. no epoxy coating)

#### STRUCTURAL STEEL


1. All Structural Steel shall conform to CAN/CSA G40.21-M92 Grade 300W
2. HSS Tubing for Bridge Rail shall conform to CAN/CSA- G40.21-M92 Grade 350W

#### PRESTRESSING STRAND

20-13  $\emptyset$  low relaxation strands,  $f_{pu} = 1860$  MPa

#### PILE LOADING

MAXIMUM FACTORED LOAD  
FACTORED BEARING RESISTANCE

END PILE BENTS  


INTERMEDIATE PILE BENTS  


### HYDRAULIC DESIGN DATA

#### DESIGN DISCHARGE

$Q = \dots$  m<sup>3</sup>/s  
 $Q = \dots$  m<sup>3</sup>/s

### SURVEY CONTROL

HORIZONTAL DATUM: NAD83CSRS

VERTICAL DATUM: CGVD28

ELLIPSOID: GRS 1980

GEOID (HT2.0): \_\_\_\_\_


UTM: ZONE \_\_\_\_\_


SCALE FACTOR: \_\_\_\_\_

#### SITE CONTROL POINT DATA

CONTROL POINT #-----	NORTHING: -----	-----
	EASTING: -----	-----
	ELEVATION: -----	-----
	DATE: -----	-----
CONTROL POINT #-----	NORTHING: -----	-----
	EASTING: -----	-----
	ELEVATION: -----	-----
	DATE: -----	-----
CONTROL POINT #-----	NORTHING: -----	-----
	EASTING: -----	-----
	ELEVATION: -----	-----
	DATE: -----	-----



TP. - 

RGE. - 

### LOCATION MAP

Not to Scale

# MANITOBA TRANSPORTATION AND INFRASTRUCTURE

BRIDGES AND HIGHWAY STRUCTURES

### ENVIRONMENTAL APPROVALS

- MANITOBA ENVIRONMENT ACT LICENCE  
DATE : \_\_\_\_\_  
FILE # : \_\_\_\_\_
- FISHERIES AND OCEANS CANADA - AUTHORIZATION OR REVIEW  
DATE : \_\_\_\_\_  
FILE # : \_\_\_\_\_
- TRANSPORT CANADA - NAVIGATION ACT  
DATE : \_\_\_\_\_  
FILE # : \_\_\_\_\_
- MANITOBA INFRASTRUCTURE ENVIRONMENTAL APPROVAL  
DATE : \_\_\_\_\_  
FILE # : \_\_\_\_\_
- ENVIRONMENTAL REVIEW COMPLETED  
DATE : \_\_\_\_\_  
COMPLETED BY (PRINT NAME) : \_\_\_\_\_

ALL DIMENSIONS ARE IN MILLIMETRES (mm) AND ALL ELEVATIONS AND STATIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.

RELEASED FOR CONSTRUCTION BY :

\_\_\_\_\_  
DIRECTOR OF BRIDGES AND HIGHWAY STRUCTURES

DATE \_\_\_\_\_

DRAWN BY:

DATE:

SHEET No. 1

CHECKED BY:

DATE:

SITE No.







