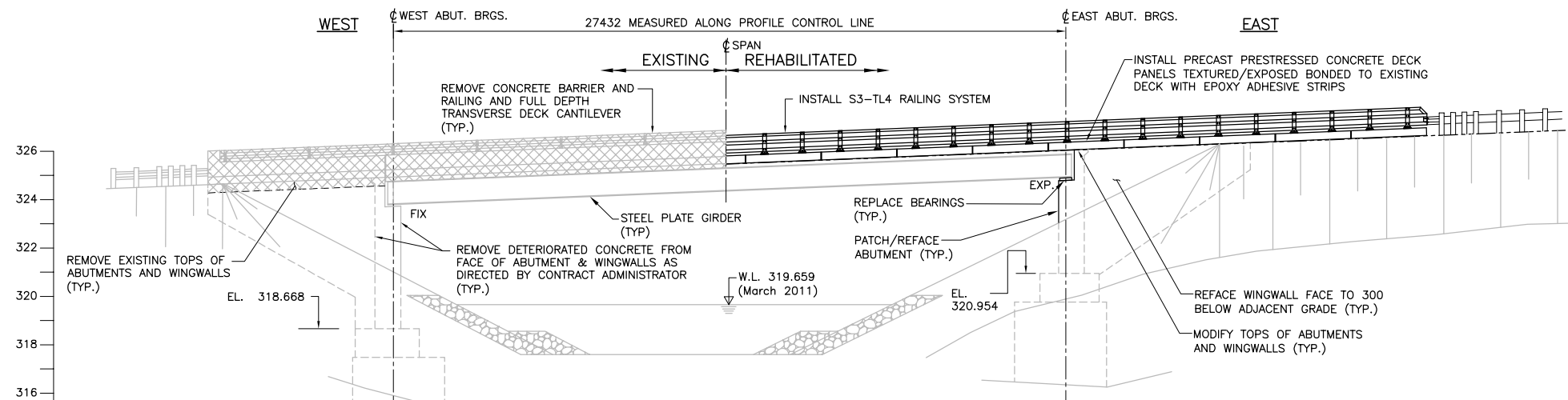
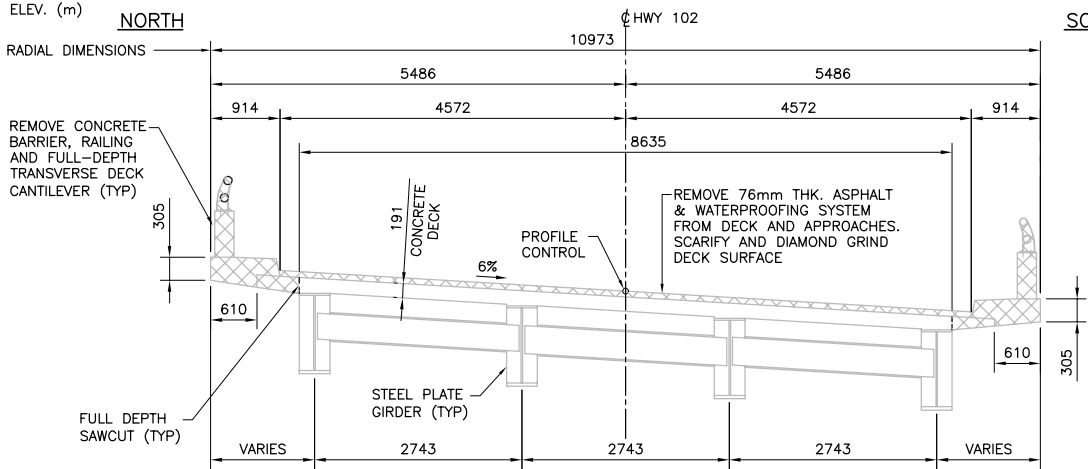


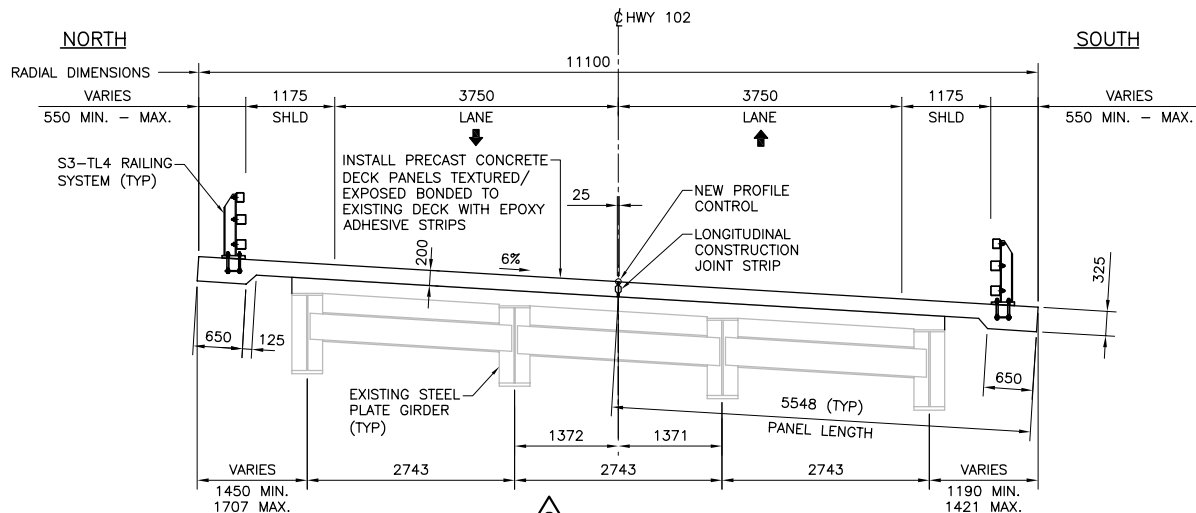
PLAN  
1:250



ELEVATION  
1:250



1  
1:100  
EXISTING



2  
1:100  
REHABILITATED

DRAWING NOT TO BE SCALED  
50mm ON ORIGINAL DRAWING

HWY 102  
CONT. No.  
WP No. 6073-09-01



STRAWBERRY CREEK BRIDGE No. 1

SHEET

GENERAL ARRANGEMENT

S1



MMM GROUP

METRIC

## GENERAL NOTES

### CLASS OF CONCRETE:

ALL PRECAST CONCRETE..... 60 MPa  
REMAINDER U.N.O..... 35 MPa  
UHPC (4 DAY)..... 70 MPa  
UHPC (28 DAY)..... 100 MPa

### CLEAR COVER TO REINFORCING STEEL:

PRECAST CONC. PANEL - TOP..... 50 ± 10  
PRECAST CONC. PANEL - BOTTOM & SIDES..... 35 ± 10  
CAST-IN-PLACE CONCRETE U.N.O..... 70 ± 20

### GLASS FIBRE REINFORCED POLYMER (GFRP) BARS:

GLASS FIBRE REINFORCED POLYMER BAR SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE.

GRADE	BAR DIA.	STRAIGHT BAR		BENT BARS*	
		MIN. SPECIFIED LONG. TENSILE STRENGTH kN	MIN. LONG. MODULUS OF ELASTICITY GPa	MIN. SPECIFIED LONG. TENSILE STRENGTH kN	MIN. LONG. MODULUS OF ELASTICITY GPa
I	15	130	40	130	40
	20	170		153	

\* TENSILE STRENGTH AND MODULUS ARE GIVEN FOR STRAIGHT PORTION OF THE BENT BAR. MINIMUM STRENGTH AT THE BENT SHALL BE AT LEAST 40% OF THE MINIMUM STRENGTH OF THE STRAIGHT PORTION OF THE BENT GFRP BAR.

### CARBON FIBRE REINFORCED POLYMER (CFRP) BARS:

1. PRESTRESSING TENDONS SHALL BE ASLAN 200 #4 (12mm $\phi$ ) CFRP BY HUGHES ASLAN OR V-ROD BY PULTRALL,  $F_{pu}$ =1900 MPa (MINIMUM), OR AS APPROVED

### CONSTRUCTION NOTES:

- CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS PRIOR TO BEGINNING WORK. ANY VARIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL VERIFY THE SIZE AND SHAPE OF ALL PRECAST COMPONENTS PRIOR TO BEGINNING WORK. ANY VARIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR.
- ALL TOP FINISHED CONCRETE SURFACES SHALL HAVE A TOLERANCE SUCH THAT WHEN TESTED WITH A 3m STRAIGHT EDGE IN ANY DIRECTION THE GAP BETWEEN THE EDGE AND THE SURFACE BEING MEASURED SHALL BE NOT MORE THAN 3mm.
- ALL ELEVATIONS ARE TO GEODETIC DATUM.
- THE CONTRACTOR IS ADVISED NOT TO RELY ON THE WATER LEVEL SHOWN. THE WATER LEVEL IS SUBJECT TO VARIATIONS.
- UNLESS OTHERWISE SHOWN, SAWCUTS SHALL BE 25mm DEEP OR TO THE FIRST LAYER OF REINFORCING STEEL, WHICHEVER IS LESS.

### LIST OF ABBREVIATIONS:

UHPC - DENOTES ULTRA HIGH PERFORMANCE CONCRETE  
W.L. - DENOTES WATER LEVEL  
W.P. - DENOTES WORKING POINT  
U.N.O. - DENOTES UNLESS NOTED OTHERWISE

### LIST OF DRAWINGS:

- GENERAL ARRANGEMENT
- BOREHOLE LOCATIONS & SOIL STRATA
- CONSTRUCTION STAGING
- REMOVALS
- REHABILITATION & BEARING REPLACEMENT
- PRECAST DECK PANEL LAYOUT
- PRECAST PANEL DETAILS
- PRECAST PANEL REINFORCING
- PRECAST PANEL INSTALLATION DETAILS
- STEEL BARRIER RAIL
- STEEL BEAM GUIDE RAIL END CONNECTION
- MISCELLANEOUS DETAILS

REVISIONS		DESCRIPTION	
DESIGN	MW	CHK JCS	CODE CHBDC '10
DRAWN	KGP	CHK MW	SITE 48W-1
			STRUCT
			SCHEME
			DWG 1