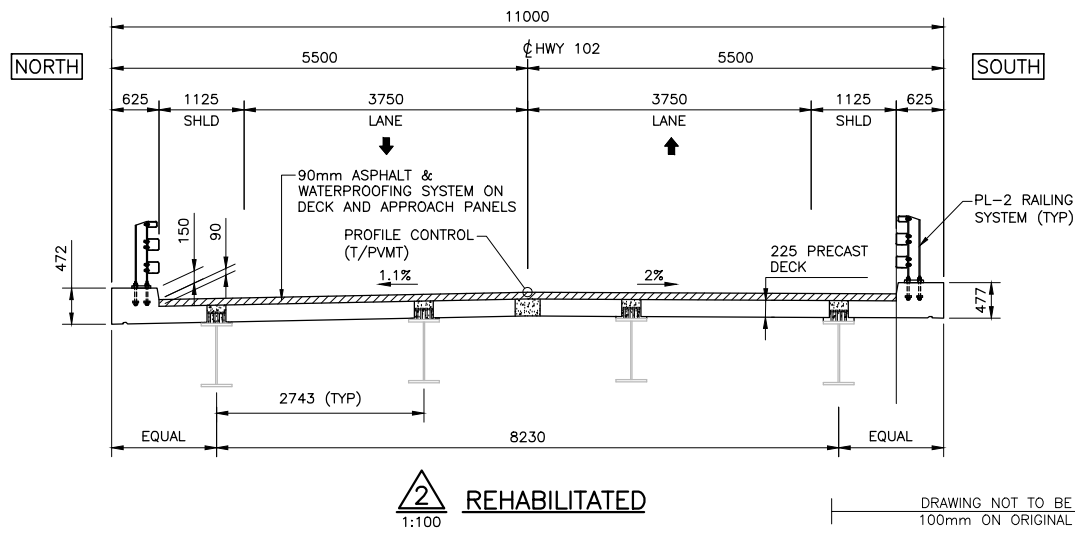
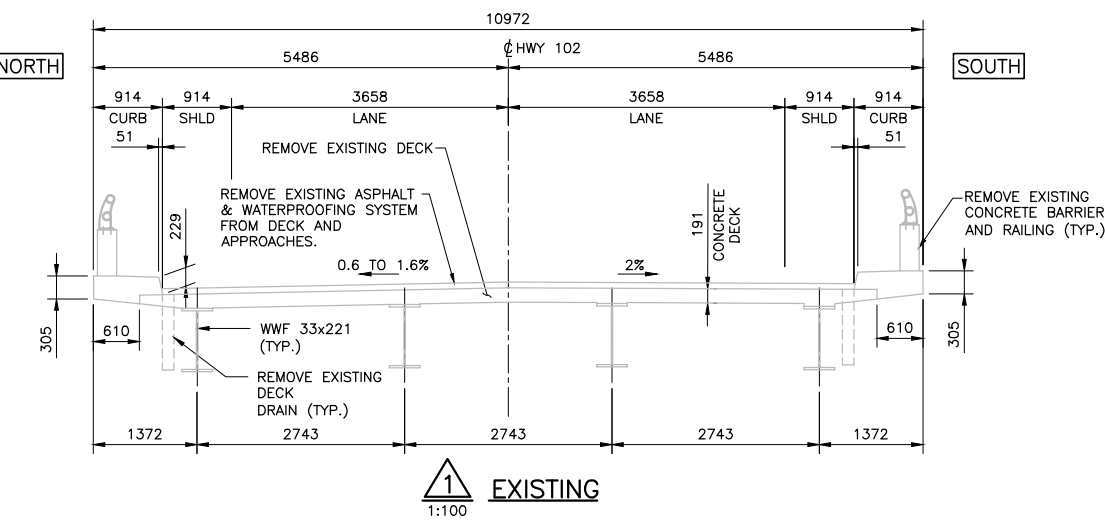
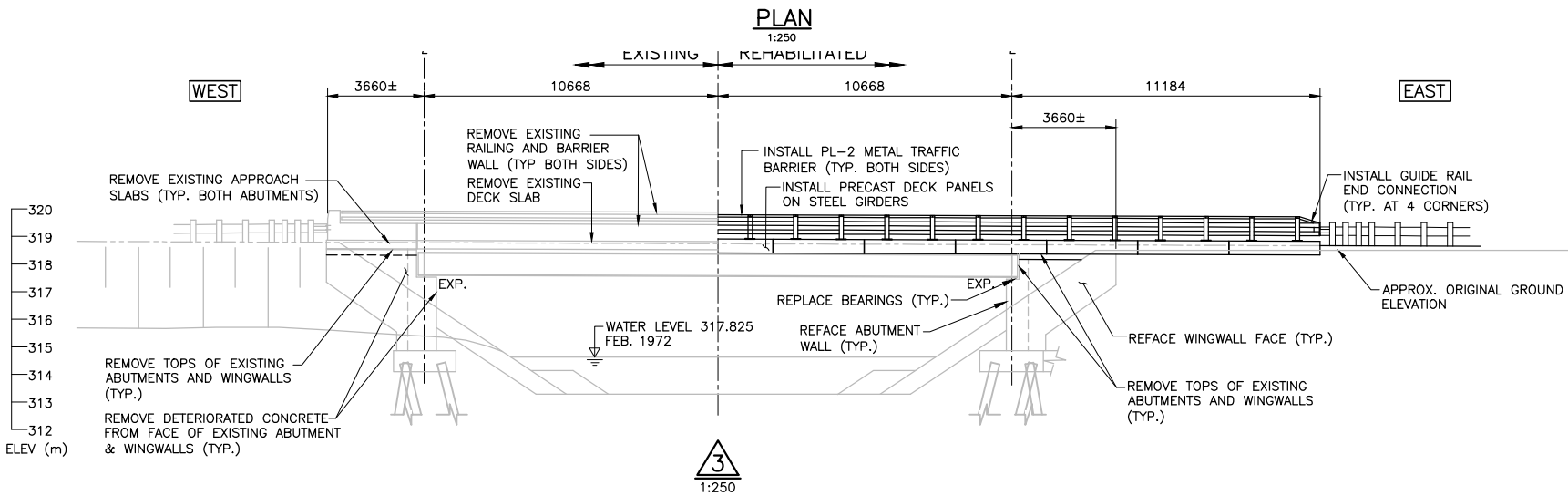
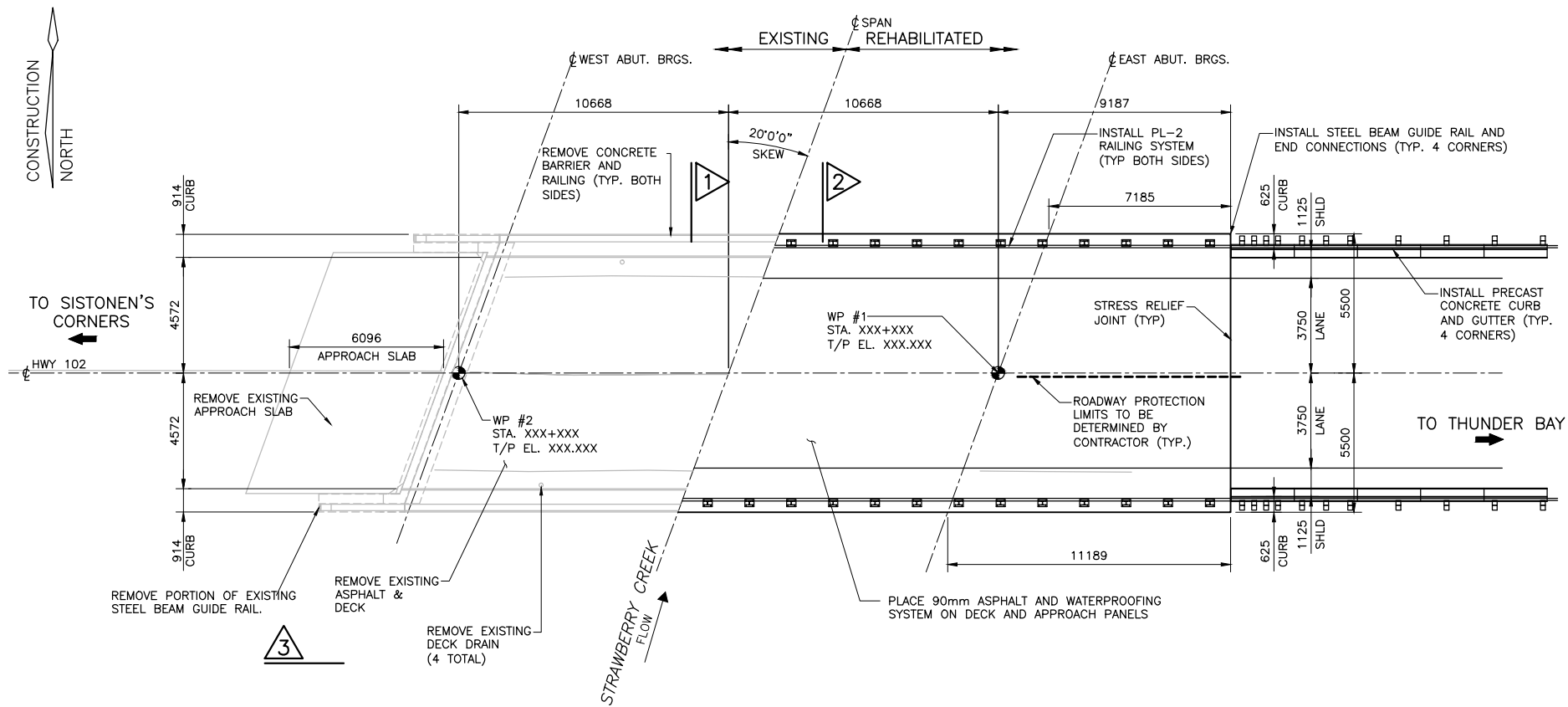


CAD FILE LOCATION AND NAME: \\Vcr-fier1a\project\Bridge Group (30-82)\Mississauga-MTO Work\Rehabs\S3210195-340 - STRAWBERRY CREEK BRIDGE No. 2 Drawings\S3210195-340-001GA.dwg  
MODIFIED: 8/29/2014 11:22:02 AM BY: KOIUCHIK  
DATE PLOTTED: 9/2/2014 10:24:25 AM BY: GARY LEE

PR-D-707 86-05  
MINISTRY OF TRANSPORTATION, ONTARIO



### LIST OF DRAWINGS:

1. GENERAL ARRANGEMENT
2. BOREHOLE LOCATIONS & SOIL STRATA
3. CONSTRUCTION STAGING
4. REMOVALS
5. BEARING REPLACEMENT
6. ABUTMENT MODIFICATIONS
7. PRECAST DECK PANEL LAYOUT & DETAILS
8. CONTROL ELEVATIONS
9. PRECAST DECK PANEL DETAILS 1 OF 2
10. PRECAST DECK PANEL DETAILS 2 OF 2
11. PRECAST DECK PANEL - MISCELLANEOUS DETAILS
12. PRECAST CURB AND GUTTER LAYOUT
13. PRECAST CURB AND GUTTER REINFORCEMENT
14. PL-2 METAL TRAFFIC BARRIER RAIL - LAYOUT
15. PL-2 METAL TRAFFIC BARRIER RAIL - DETAILS
16. PL-2 TRAFFIC BARRIER END CONNECTION DETAILS
17. MISCELLANEOUS DETAILS

HWY 102  
CONT. No.  
WP No. 48-W-002

HWY 11 & 17  
STRAWBERRY CREEK BRIDGE NO. 2

GENERAL ARRANGEMENT

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 REINFORCEMENT:

PRECAST CONC. PANEL - TOP & SIDES	50 ± 10
PRECAST CONC. PANEL - BOTTOM	40 ± 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.

ALL GFRP REINFORCEMENT IS GRADE I UNLESS NOTED OTHERWISE ON THE DRAWINGS.

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	
III	15	200	60	200	50
	20	280		252	

\* 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:

1. CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS PRIOR TO BEGINNING WORK. ANY VARIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR.
2. THE CONTRACTOR SHALL VERIFY THE SIZE AND SHAPE OF ALL EXISTING COMPONENTS PRIOR TO BEGINNING WORK. ANY VARIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR.
3. THE TEMPORARY ROADWAY PROTECTION SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF PERFORMANCE LEVEL 2.
4. 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.
5. ALL ELEVATIONS ARE TO GEODETIC DATUM.
6. THE CONTRACTOR IS ADVISED NOT TO RELY ON THE WATER LEVEL SHOWN. THE WATER LEVEL IS SUBJECT TO VARIATIONS.

#### LIST OF ABBREVIATIONS:

ABUT.	- DENOTES ABUTMENT
APPROX.	- DENOTES APPROXIMATELY
BRGS.	- DENOTES BEARINGS
EL.	- DENOTES ELEVATION
PL-2	- DENOTES PERFORMANCE LEVEL 2
SHLD	- DENOTES SHOULDER
T/PC	- DENOTES TOP OF PRECAST
T/P	- DENOTES TOP OF PAVEMENT
TYP.	- DENOTES TYPICAL
UHPC	- DENOTES ULTRA HIGH PERFORMANCE CONCRETE
U.N.O.	- DENOTES UNLESS NOTED OTHERWISE
W.L.	- DENOTES WATER LEVEL
WP	- DENOTES WORKING POINT

REVISIONS		DESCRIPTION	
DESIGN	BHJ	CHK	JD
DRAWN	GL	CHK	SV
CODE	CHBDC	10	LOAD CL-625-ONT
SITE	48W-2	STRUCT	SCHEME
DATE	AUG/14	DWG	1

#### PROFILE OF HIGHWAY 102

DRAWING NOT TO BE SCALED  
100mm ON ORIGINAL DRAWING