

FUTURE JACKING LOADS

	JACKING Mk.	UNFACTORED PERMANENT LOAD (kN/BEARING)	TOTAL UNFACTORED LOAD (kN/BEARING)	FACTORED PERMANENT LOAD (kN/BEARING)	TOTAL FACTORED LOAD (kN/BEARING)
		[kN]	[kN]	[kN]	[kN]
N-0 & N-5 (Exp)	1	815	1330	1000	2095
	2	490	795	605	1250
N-1 & N-4 (Exp)	1	1290	1960	1595	3015
	2	710	1090	880	1685
N-2 (Exp)	1	1290	1930	1580	2955
	2	710	1075	875	1660
N-3 (Fxd)	1	1290	1930	1580	2955
	2	710	1075	875	1660

NOTES:
* TABLE CONSIDERS SHORT TERM LOAD EFFECTS - NO LONG TERM CREEP AND SHRINKAGE ARE INCLUDED.
** LATERAL LOADS TO BE CALCULATED BASED ON TEMPORARY SUPPORT SYSTEM.

REHABILITATION JACKING NOTES:

- JACKING MUST BE COMPLETED ON ALL GIRDERS ON A SUBSTRUCTURE UNIT CONCURRENTLY.
- JACKING LOADS DURING CONSTRUCTION JACKING SHALL BE DETERMINED BY THE CONTRACTOR BASED ON THE PROPOSED SEQUENCE OF WORK AND ANTICIPATED CONSTRUCTION LOADS. JACKING LOADS AND METHODOLOGY SHALL BE PRESENTED TO THE CONTRACT ADMINISTRATOR FOR APPROVAL PRIOR TO JACKING.
- JACKING IS PERMITTED FROM THE EXISTING GIRDERS ADJACENT TO THE EXISTING BEARINGS PROVIDED THE AREA OF THE JACKING PLATE IS NOT LESS THEN AREA OF THE EXISTING BEARINGS.
- JACKING HEIGHT SHALL CONSIDER THE HEIGHT OF THE PERMANENT BEARINGS. JACKING HEIGHT SHALL BE LIMITED TO ONLY WHAT IS REQUIRED TO REPLACE BEARINGS.
- FOR BEARING REPLACEMENT SEQUENCE OF WORK REFER TO 2215.

FUTURE JACKING NOTES:

- DURING FUTURE JACKING, JACKING SHALL BE DONE FROM THE CENTER OF THE ABUTMENT AND PIER END DIAPHRAGMS, REFER TO SHEET 2220 FOR LOCATIONS.
- JACKING MUST BE COMPLETED ON ALL GIRDERS ON A SUBSTRUCTURE UNIT CONCURRENTLY.
- JACKING OF BRIDGE SHALL BE DONE WITH NO LOAD LOAD ON THE BRIDGE. ONCE BRIDGE IS IN BLOCKED CONDITION, LIVE LOAD IS PERMITTED WITH A SINGLE TRAFFIC LANE IN THE CENTER OF THE BRIDGE.

1 GIRDER LAYOUT

1 : 200

LEGEND

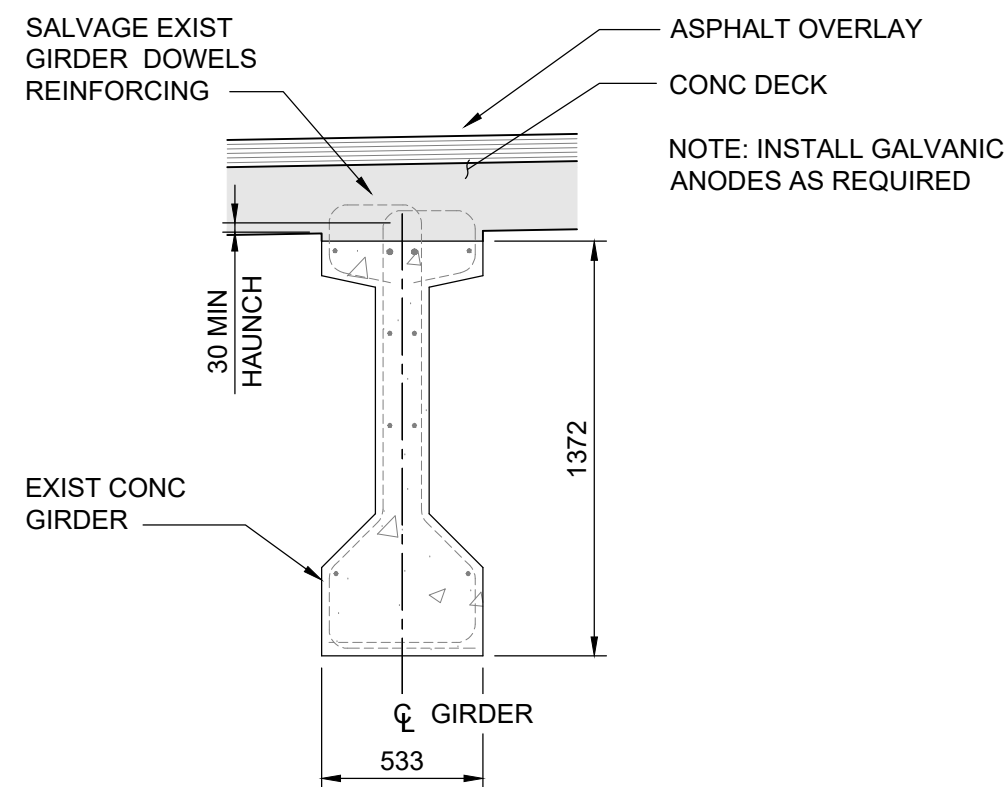
- CRACK
- SCALE
- SCALE WITH EFFLORESCENCE
- SPALL
- DELAMINATION
- GIRDER STRENGTHENING

NOTES:

- CRACK LOCATIONS ARE APPROXIMATE. CRACK WIDTH VARIED
- THIS DRAWING DEPICTS SELECT FINDINGS/AREAS OF CONCERN. ACTUAL REPAIR AREAS MAY BE DIFFERENT AND WILL BE IDENTIFIED ON SITE BY THE CONTRACT ADMINISTRATOR.
- ASSUMED REPAIR AREAS ARE PROVIDED IN TABLE 1.
- REFER TO SHEET 2209 FOR TYPICAL REPAIR DETAILS.

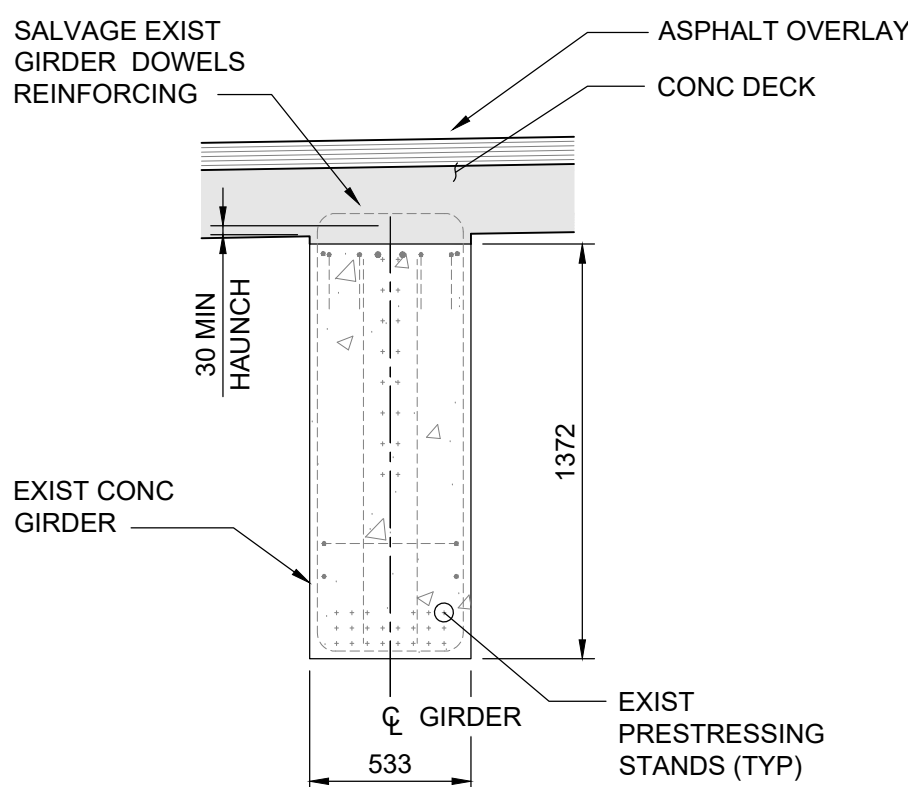
TABLE 1: REPAIR QUANTITIES

APPROX REPAIR UNITS	
NORTHBOUND	6.0 m ²



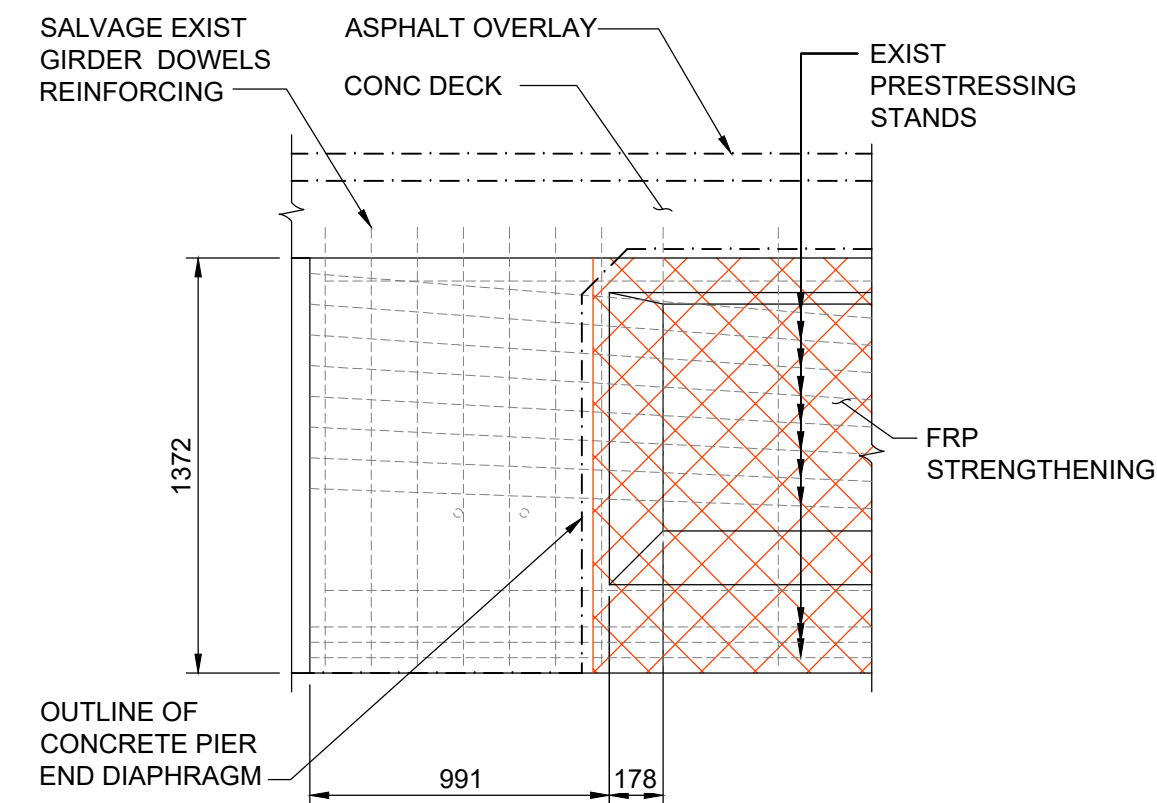
2 TYPICAL GIRDER SECTION

1 : 25



3 TYPICAL GIRDER END

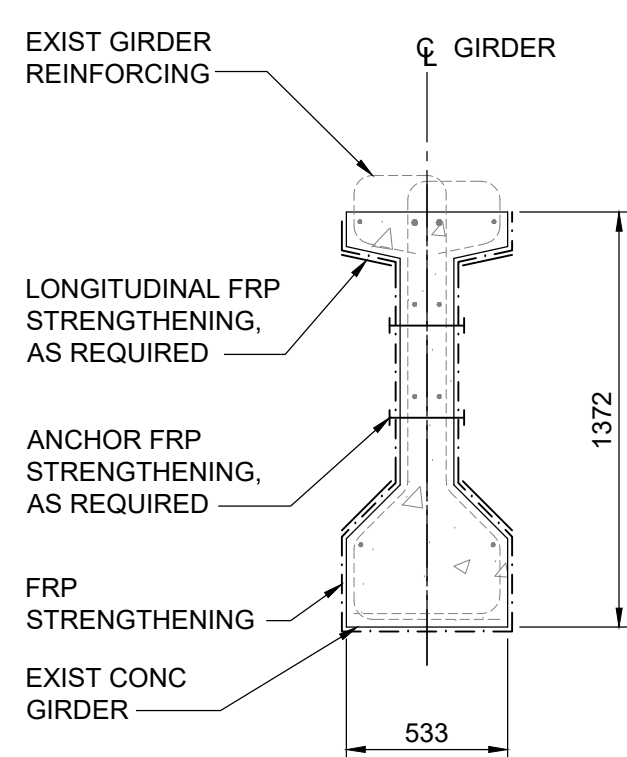
1 : 25



4 GIRDER END ELEVATION AT PIER END

1 : 25

NOTE:
EXISTING GIRDER ENDS HAVE BEEN PREVIOUSLY COATED WITH ACTIVATED ARC SPRAY ZINC.




5 GIRDER STRENGTHENING SECTION

1 : 25

FRP DETAILS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY

NOTE:
REFER TO SHEET 1004 FOR FRP STRENGTHENING NOTES.



B.M. ELEV.				<div>TETRA TECH</div>				
				DESIGNED BY	RL	REVIEWED BY	SA	CONSULTANT DRAWING NO. 704-INF-MBI03007.01-DWG-S2218
				DRAWN BY	EV	APPROVED BY	KA	
				SCALE: AS NOTED		ACCEPTED BY	DATE	
0	ISSUED FOR TENDER		25.08.07	SA	CAM WARD, P.ENG.		25.08.07	
NO.	REVISIONS		DATE	BY	DATE	25.08.07		



THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

LAGIMODIERE TWIN OVERPASSES OVER CPKC KEEWATIN REHABILITATION AND RELATED WORKS	CITY DRAWING NUMBER B123-25-2218
	SHEET 18 OF 48
NORTHBOUND STRUCTURE GIRDER REPAIR AND STRENGTHENING LAYOUT	
2218	