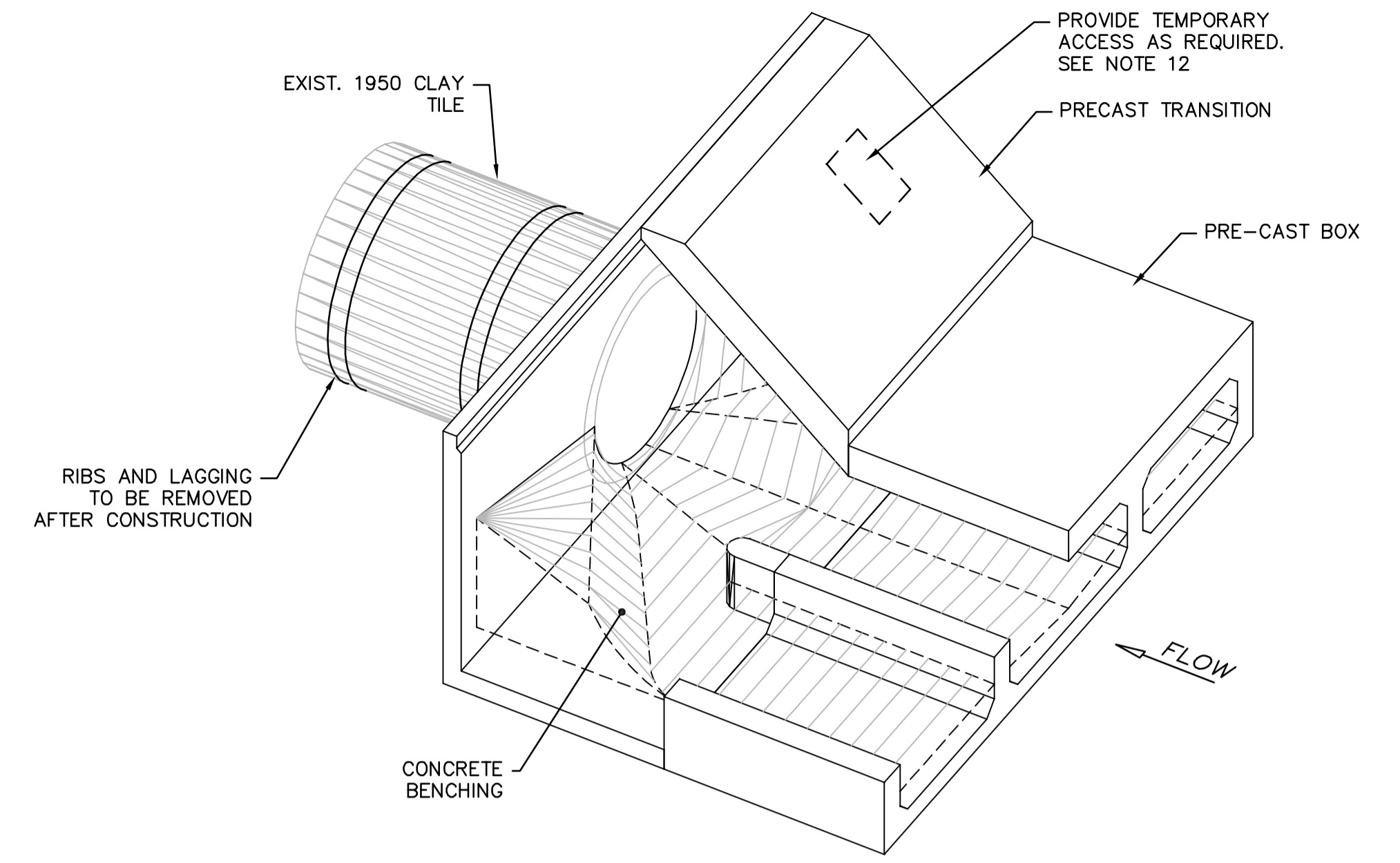


1 PLAN AT EL. 227.0m
1:50

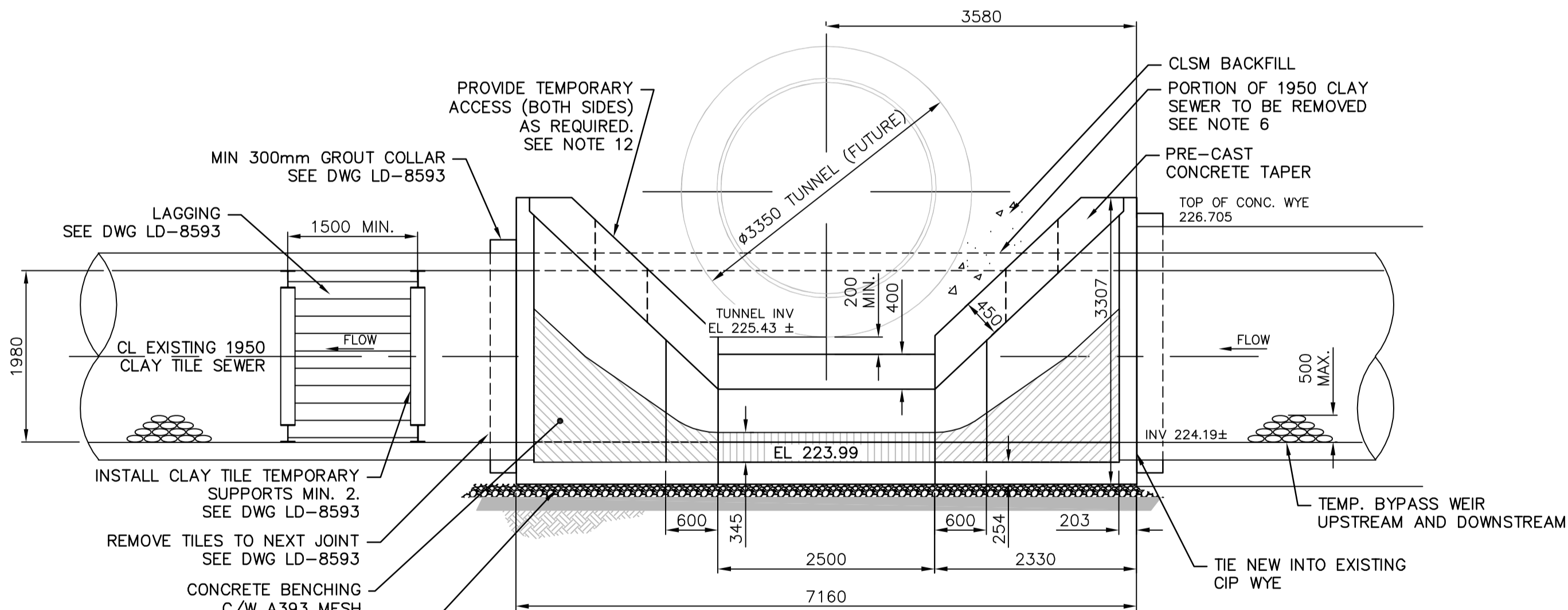


2 ISOMETRIC
NTS

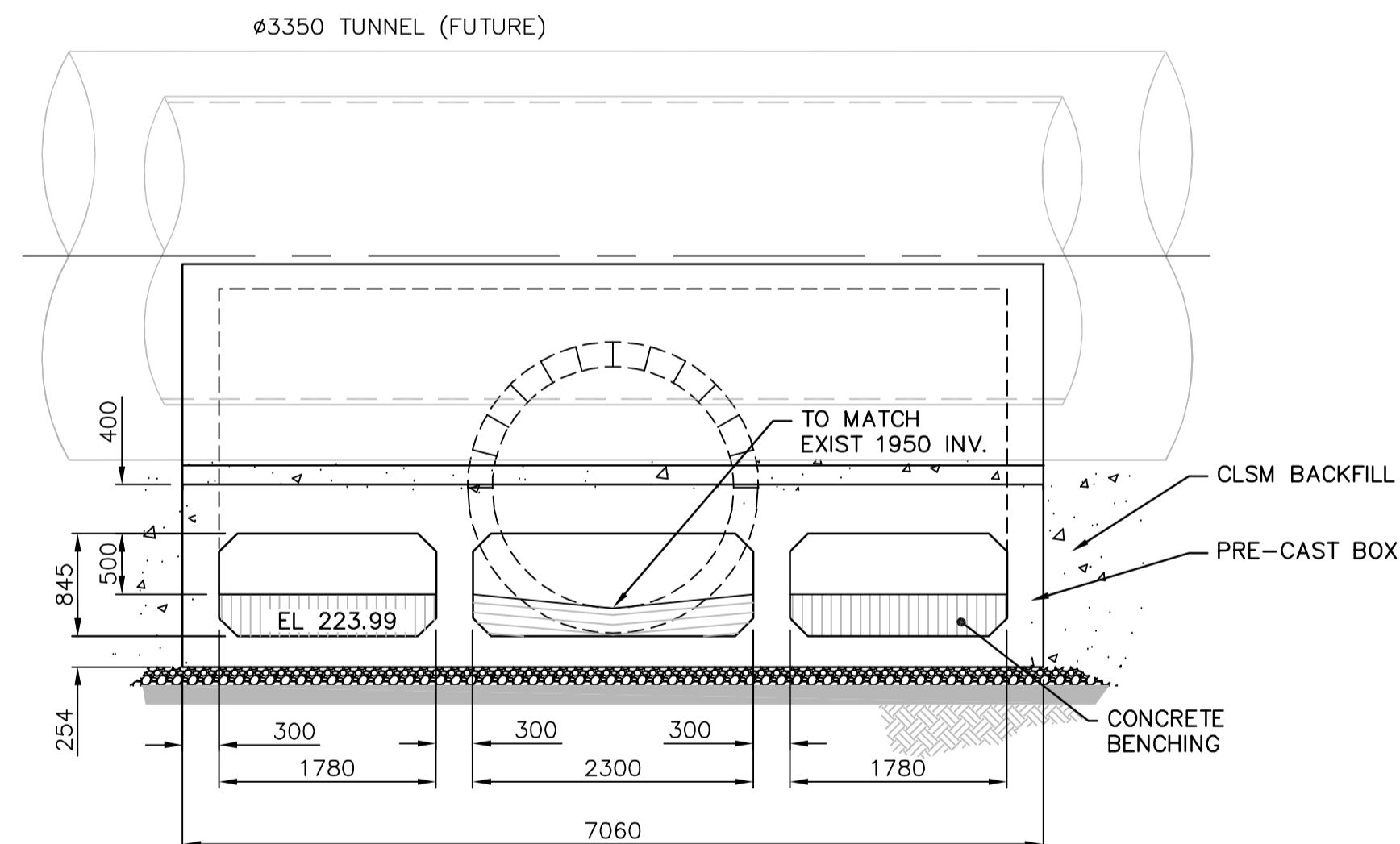
NOTE:
REFER TO DRAWINGS LD-8590 AND LD-8591
FOR DETAILED PROFILE INFORMATION

CONSTRUCTION NOTES:

- SEWER AND WATER SERVICES SHOWN ON DRAWING ARE APPROXIMATE ONLY.
- LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN FIELD.
- DRY WEATHER CONSTRUCTION ONLY.
- TRAFFIC MANAGEMENT PLAN TO BE IMPLEMENTED AS PER SPECIFICATIONS.
- CONTRACTOR TO DESIGN TEMPORARY SHORING WORKS, SEE TRAFFIC RESTRICTIONS WITHIN THE DETAIL SPECIFICATIONS FOR CONSTRAINTS.
- CONTRACTOR TO TEMPORARILY SUPPORT CLAY TILES DURING INSTALLATION.
- CONTRACTOR TO PROVIDE TEMPORARY BYPASS PUMPING.
- PRE-CAST CONCRETE STRUCTURES IN ACCORDANCE WITH B7.
- PRE-CAST UNITS TO BE SEALED WATER TIGHT IN ACCORDANCE WITH PRE-CAST MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR TO ENSURE STRUCTURE HAS BEEN DESIGNED FOR TEMPORARY LOADS FROM TBM AND LONG TERM PERMANENT LOADINGS. CONTRACTOR TO PROVIDE SHOP DRAWINGS SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN MANITOBA.
- MINIMUM FINAL CROSS SECTION FLOW AREA OF 3.0m² WITH FINAL BENCHING IN PLACE.
- DOWNSTREAM MANHOLE LOCATED 72m SOUTH OF INTERSECTION.



A SECTION (STA 2+339.43)
1:50



B SECTION
1:50

RECOMMENDED CONSTRUCTION SEQUENCE

- INSTALL TEMPORARY BYPASS PUMPING FOR SANITARY FLOWS.
- SUPPORT EXISTING TILE SEWER AT EXTENT OF EXCAVATION.
- EXPOSE EXISTING CLAY TILE SEWER AND CONFIRM LOCATION AND DIMENSIONS.
- DEWATER EXCAVATION TO A MIN. 300mm BELOW SUBGRADE.
- EXCAVATE AND REMOVE EXISTING TILE SEWER WITHIN WORKING LIMITS.
- PREPARE SUBGRADE.
- INSTALL PRECAST UNITS AND CAST COLLAR.
- INSTALL BENCHING AND GROUT GAPS WITHIN THE TILES AT THE UP AND DOWNSTREAM LOCATIONS.
- REMOVE TEMPORARY BYPASS PUMPS.
- BACKFILL WITH CLSM TO UNDERSIDE OF ROAD SUBGRADE.
- REINSTATE TAYLOR AVENUE.

LOADING SCENARIOS

- DEAD LOADS: CLSM BACKFILL. LIVE LOADS: TRAFFIC.
- DEAD LOADS: CLSM BACKFILL; LIVE LOADS: TBM* AND TRAFFIC.
- DEAD LOADS: CLSM BACKFILL + PIPE WEIGHT - PIPE VOID. LIVE LOADS: TRAFFIC.
- DEAD LOADS: CLSM BACKFILL + PIPE WEIGHT + FULL PIPE WATER. LIVE LOADS: TRAFFIC.

ALL SCENARIOS SUBJECT TO UPLIFT AND SANITARY SEWER FLOWS

*TBM ASSUMED LOAD 50000 Kg, REFER TO E1.4 FOR ADDITIONAL INFORMATION.



B.M. ELEV.				ENGINEER'S SEAL		THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT
				DESIGNED BY MD		CHECKED BY ES
		DRAWN BY JBC	APPROVED BY RH	ORIGINAL SIGNED BY M.R. DRAPER DATED 8/3/2018	COMPUTER FILE NAME S-505.dwg	
1	RE-ISSUED FOR TENDER	08/2018	JBC	HOR. SCALE: AS NOTED	RELEASED FOR CONSTRUCTION: SC	STRUCTURAL MODIFICATION OF EXISTING 1950 SEWER
0	ISSUED FOR TENDER	08/2018	JBC	VERTICAL: -	DATE 08/07/2018	SHEET 1 OF 2
NO.	REVISIONS	DATE	BY	DATE	DATE	CITY DRAWING NUMBER LD-8592
					CONSULTANT DRAWING NO. S-505	