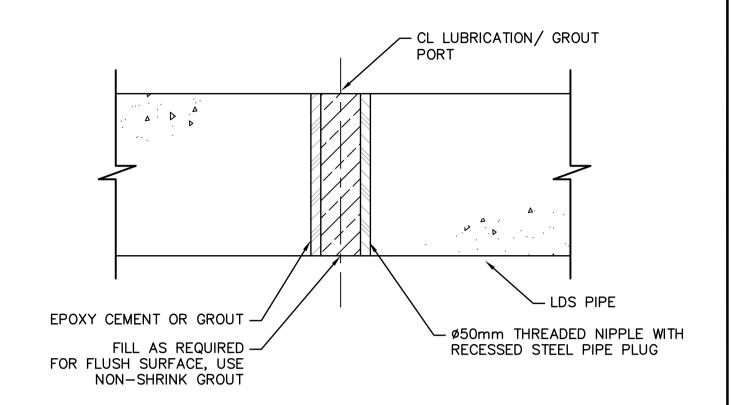


TYPE 204 — - OD TO BE FLUSH WITH OD OF PIPE BARREL SST JOINT SLEEVE ELASTOMERIC GASKET - MORTAR ON END TYP OF 4 ASSEMBLED IN PLANT ν Δ. PACKING -JACKING DIRECTION —

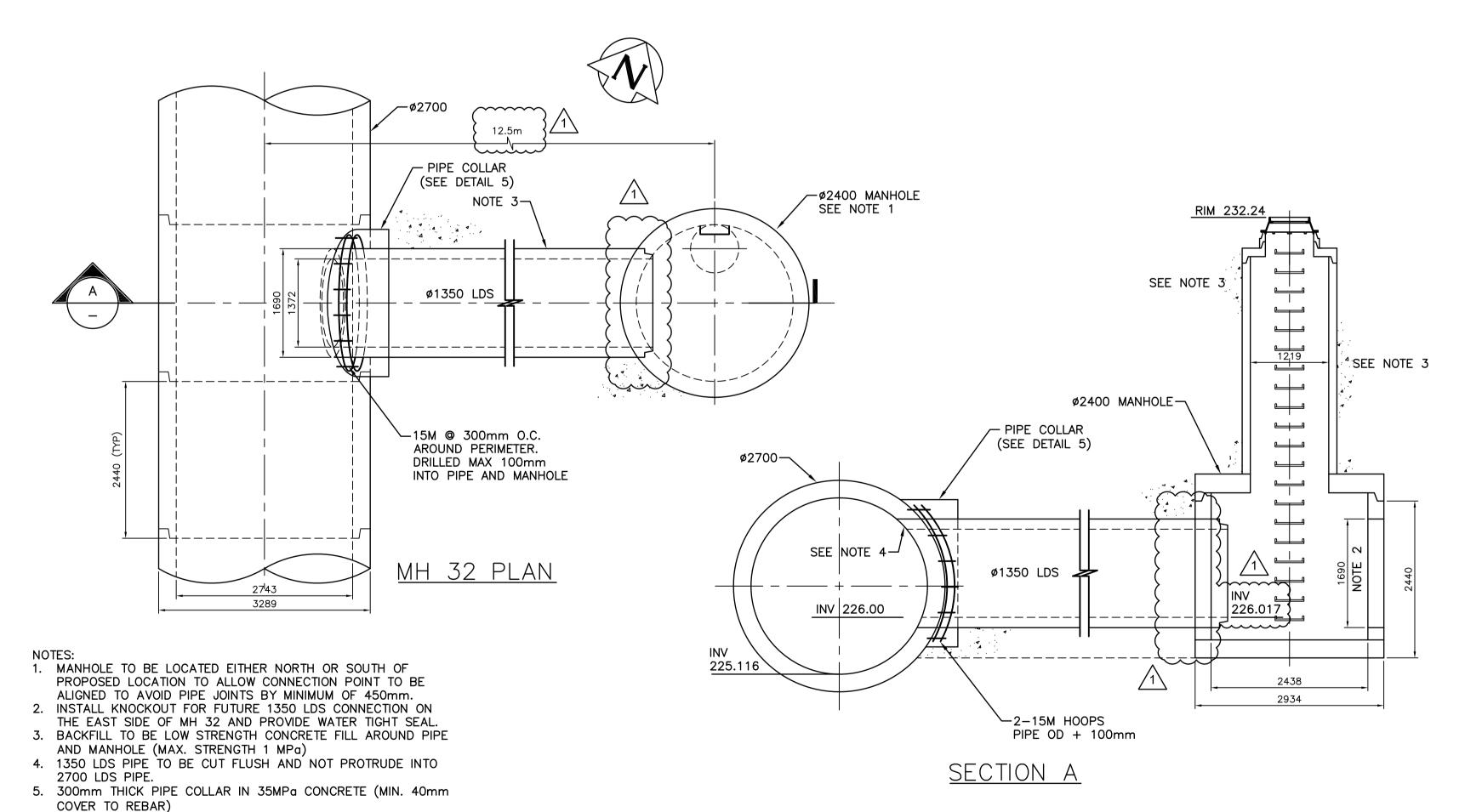
> CONTRACTOR SHALL SELECT APPROPRIATE PIPE JOINT TO BE COMPATIBLE WITH PLANNED TUNNELING OPERATIONS.

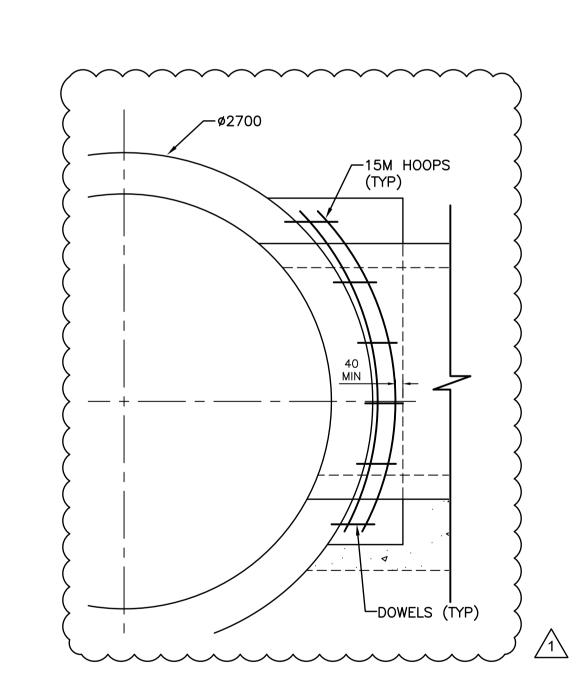
> > SAMPLE JACKING PIPE JOINT DETAIL



AFTER GROUTING. SEAL GROUT HOLE WITH RECESSED PLUG. INSTALL PLUG AND FILL REMAINING VOID FLUSH WITH THE INSIDE OF THE PIPE WITH A MIN. 25mm WITH NON-SHRINK GROUT, IN ACCORDANCE WITH SPECIFICATIONS.

LUBRICATION / GROUT PORT DETAIL





~2−15M HOOPS PIPE OD + 100mm L-15M DOWELS @ 300 O.C.
DRILL AND EPOXY GROUT MIN.
100 INTO PRECAST WALL W/ WITH HILTI HIT-HY 150 MAX/ ADHESIVE.

THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT

TYPICAL COLLAR DETAILS

**Certificate of Authorization** CH2M HILL Canada Ltd.

4	SPARLING	AVENUE	CONNECTION	(MH	32)
	1:50			•	

150_WM	WATER MAIN	<u>150 WM</u>		HYDRO		1 <u>50</u> WM	WATER MAIN	150 WM	LO
<b>-</b>	HYDRANT	+		M.T.S.		_±_,_X_	HYDRANT, VALVE	<u>+</u> ,===	
$\otimes$	VALVE	⊗		CONCRETE		300 LDS	LAND DRAINAGE SEWER	300 LDS	
300_LDS	LAND DRAINAGE SEWER	300 LDS		ASPHALT		<u>250 WWS</u>	WASTE WATER SEWER	250 WWS	SUPV
<u>250 WWS</u>	WASTE WATER SEWER	250 WWS		SIDEWALK		×	CENTRELINE		COM
0	MANHOLE	•		PLANING	7///	·	NORTH/WEST GUTTER		] <sub>NO</sub> -
	CATCH BASIN			PROPERTY LINE		0	SOUTH/EAST GUTTER		LOCATI
$\nabla$	CURB INLET	▼	<del>-</del> <del> </del>	SURVEY BAR		♦, ٥	N/W , S/E R'S		SHOWN
$\vdash$	BEND	$\vdash$		GAS					THAT A
abla	REDUCER	$\square$	<b>√</b> ∘	CURB STOP	<b>\</b>				CONFIR
כ		3	ㅂ	TEE	노				LOCATI OBTAIN
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED	BEFOR

LOCATION APPROVED UNDERGROUND STRUCTURES  SUPV. U/G STRUCTURES COMMITTEE  DATE	B.M ELE				KGS GROUP CONSULTING ENGINEERS	C	<b>h2</b> m
NOTE:					DESIGNED BY	SDG	CHECKED BY M
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.					DRAWN BY	JBC	APPROVED BY
		ISSUED FOR ADDENDUM NO, 2 ISSUED FOR TENDER	01/2017 01/2017			AS NOTED	RELEASED FOR CONSTRUCTION:
		REVISIONS	DATE	BY	DATE		DATE

ENGINEER'S SEAL  2017/01/23  ENGINEER'S SEAL  2017/01/23  ENGINEER'S SEAL  2017/01/23
CONSULTANT DRAWING NO.

Winnipeg
PROJECT TITLE COCKBURN AN SEWER RELIEF

C - 503

PROJECT TITLE COCKBURN AND CALROSSIE COMBINI SEWER RELIEF WORKS - CONTRACT SPARLING AVENUE CONNECTION

AND JACKING PIPE DETAILS

	SHEET OF	_					
ED	12 OF 12						
1 4	COMPUTER FILE NAME C-503.dwg						
	city drawing number LD-7898						

No. 1441