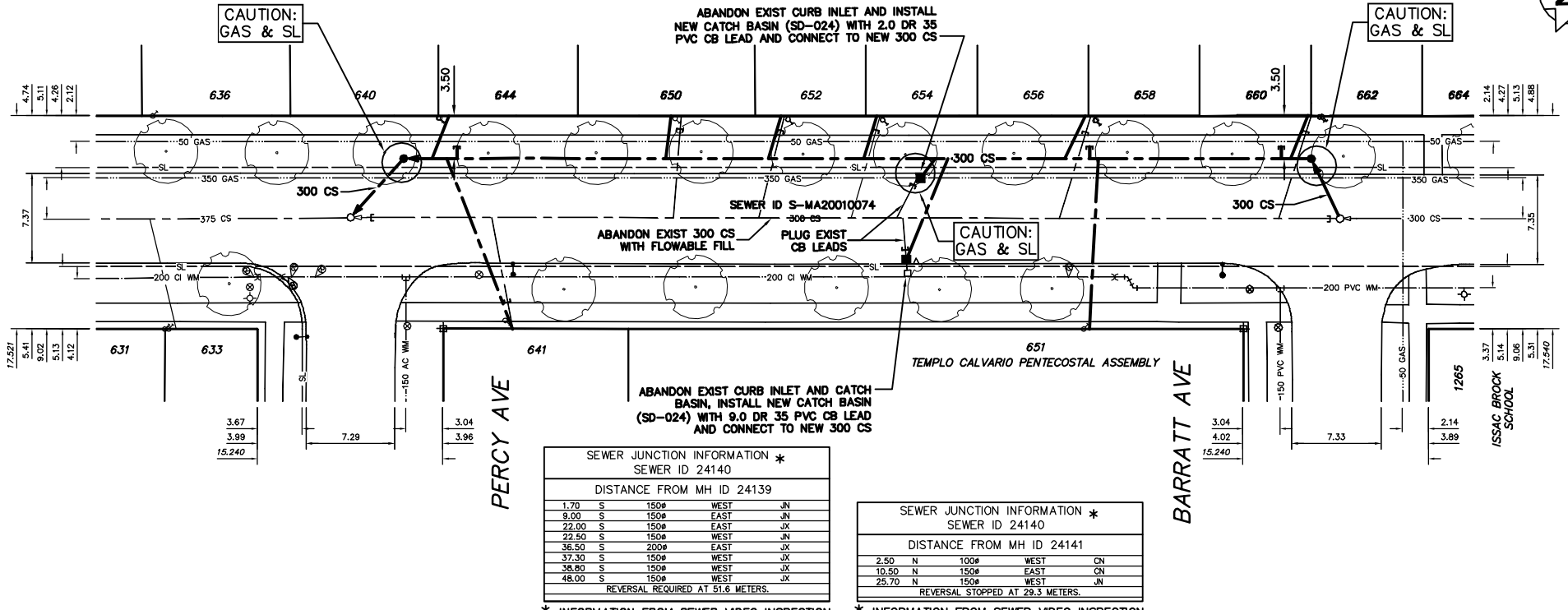


SEWER SERVICE INFORMATION		
ADDRESS	SIZE	R DIST JUNCTION TIE
631 SPRUCE ST RESIDENTIAL	8.53 NS LOTLINE #631	87.06 N MH AT RIDGLE, WYE'S W/#633
633 SPRUCE ST RESIDENTIAL	8.53 NS LOTLINE #631	87.06 N MH AT RIDGLE, WYE'S W/#631
636 SPRUCE ST RESIDENTIAL	-	NO INFO IN HOUSEFILES
640 SPRUCE ST RESIDENTIAL	-	NO INFO IN HOUSEFILES
641 SPRUCE ST RESIDENTIAL	-	NO INFO IN HOUSEFILES
644 SPRUCE ST RESIDENTIAL	11.58 N MH AT PERCY	-
650 SPRUCE ST RESIDENTIAL	6.10 SN LOTLINE	28.52 N MH AT PERCY
651 SPRUCE ST RESIDENTIAL	-	NO INFO IN HOUSEFILES
652 SPRUCE ST RESIDENTIAL	6.71 SN LOTLINE	33.53 N MH AT PERCY
654 SPRUCE ST RESIDENTIAL	-	NO INFO IN HOUSEFILES
656 SPRUCE ST RESIDENTIAL	41.15 N MH AT PERCY	-
658 SPRUCE ST RESIDENTIAL	WYE'S W/#658	58.22 N MH AT PERCY
659 SPRUCE ST RESIDENTIAL	WYE'S W/#659	58.22 N MH AT PERCY
660 SPRUCE ST RESIDENTIAL	WYE'S W/#660	78.94 N OF MH AT PERCY
662 SPRUCE ST RESIDENTIAL	WYE'S W/#662	78.94 N OF MH AT PERCY
664 SPRUCE ST RESIDENTIAL	WYE'S W/#664	14.94 N MH AT BARRATT
1265 BARRATT AVE RESIDENTIAL	2-8" CS JCT 36.73 AND 37.80	S 1ST MH N BARRATT

WATER SERVICE INFORMATION					
ADDRESS	SIZE(mm) & TYPE (STREET)	SIZE(mm) & TYPE (PROP)	SHORT & LONG MEASUREMENT	CORP. LOCATION	REMARKS
631 SPRUCE ST RESIDENTIAL	20 COPPER LEAD	12	0.92>NNL HSE	0.75 N OF S/C	DBL SERV. W/633
633 SPRUCE ST RESIDENTIAL	20 COPPER LEAD	20	0.06 SSL HSE	0.75 N OF S/C	DBL SERV. W/631
636 SPRUCE ST RESIDENTIAL	16 COPPER LEAD	12	1.37 SSL HSE	OPP S/C	DBL SERV. W/632
640 SPRUCE ST RESIDENTIAL	16 COPPER LEAD	12	0.69 SSL HSE	OPP S/C	DBL SERV. W/644
641 SPRUCE ST RESIDENTIAL	20 COPPER LEAD	20	3.51 NSL HSE	0.3 N OF S/C	-
644 SPRUCE ST RESIDENTIAL	16 COPPER LEAD	12	0.89 SSL HSE	OPP S/C	DBL SERV. W/640
650 SPRUCE ST RESIDENTIAL	20 COPPER LEAD	12	4.14 NSL HSE	0.61 S OF S/C	-
651 SPRUCE ST RESIDENTIAL	16 COPPER LEAD	18	9.44 SNL HSE	OPP S/C	-
652 SPRUCE ST RESIDENTIAL	12 COPPER LEAD	20	2.26 NSL HSE	1.22 S OF S/C	-
654 SPRUCE ST RESIDENTIAL	20 COPPER LEAD	20	0.56 NSL HSE	3.96 S OF S/C	-
656 SPRUCE ST RESIDENTIAL	16 COPPER LEAD	20	0.86 NSL HSE	OPP S/C	DBL SERV. W/658
657 SPRUCE ST RESIDENTIAL	20 COPPER LEAD	20	12.07 SSL BARRATT	OPP S/C	DBL SERV. W/656
658 SPRUCE ST RESIDENTIAL	16 COPPER LEAD	12	0.51 SSL HSE	OPP S/C	DBL SERV. W/656
660 SPRUCE ST RESIDENTIAL	20 COPPER LEAD	20	1.04 NSL HSE	9.7 N OF S/C	DBL SERV. W/662
662 SPRUCE ST RESIDENTIAL	20 COPPER LEAD	12	0.69 SSL HSE	9.7 N OF S/C	DBL SERV. W/662
664 SPRUCE ST RESIDENTIAL	20 COPPER LEAD	20	0.87 NSL HSE	0.15 S OF S/C	-
1265 BARRATT AVE COMMERCIAL	150 PVC	150	0.35>NNL BLDG	OPP VALVE	SERV. OFF CLIFTON

NOTE: CHAINAGES SHOWN ARE ALONG E R OF SPRUCE ST.

SPRUCE STREET



- CONSTRUCTION NOTES:
1. ALL PIPE SHALL HAVE CLASS B - TYPE 2 BEDDING
 2. RENEW SEWER BY TRENCHLESS METHODS.
 3. CONFIRM THE LOCATION OF ALL SEWER SERVICES.
 4. BACKFILL UNDER PAVEMENT, IN SIDEWALKS, & WITHIN 1.0 OF PAVEMENT TO BE CLASS 3.
 5. BACKFILL IN BOULEVARD TO BE CLASS 5.
 6. INSTALL CATCH BASIN LEADS AT MINIMUM 1.0% SLOPE OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
 7. RENEW SEWER SERVICES TO R.
 8. SEWER SERVICE RISERS TO BE INSTALLED WHEN COMBINED SEWER EXCEEDS 4.25 m IN DEPTH.
 9. INSTALL TEE, INCLUDING RISERS & PLUG, FOR FUTURE SERVICE CONNECTIONS OF EXISTING WYE'D SERVICES AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR.

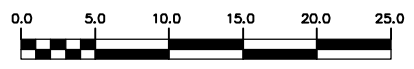
SEWER JUNCTION INFORMATION * SEWER ID 24140		
DISTANCE FROM MH ID 24139		
1.70 S	150#	WEST JN
9.00 S	150#	EAST JN
22.00 S	150#	EAST JX
22.50 S	150#	WEST JN
36.50 S	200#	EAST JX
37.30 S	150#	WEST JX
38.80 S	150#	WEST JX
48.00 S	150#	WEST JX

SEWER JUNCTION INFORMATION * SEWER ID 24140		
DISTANCE FROM MH ID 24141		
2.50 N	100#	WEST CN
10.50 N	150#	EAST CN
25.70 N	150#	WEST JN

* INFORMATION FROM SEWER VIDEO INSPECTION

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

WARNING
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 210/72 FOR DETAILS



<table border="1"> <tr><td>200 WM</td><td>WATERMAIN</td><td>200 WM</td><td>SL, HYDRO</td><td>150 WM</td><td>WATERMAIN</td><td>150 WM</td></tr> <tr><td>525 LDS</td><td>LAND DRAINAGE SEWER</td><td>525 LDS</td><td>50 GAS</td><td>300 LDS</td><td>LAND DRAINAGE SEWER</td><td>300 LDS</td></tr> <tr><td>375 WWS</td><td>WASTEWATER SEWER</td><td>375 WWS</td><td>300 CS</td><td>250 WWS</td><td>WASTEWATER SEWER</td><td>250 WWS</td></tr> </table>	200 WM	WATERMAIN	200 WM	SL, HYDRO	150 WM	WATERMAIN	150 WM	525 LDS	LAND DRAINAGE SEWER	525 LDS	50 GAS	300 LDS	LAND DRAINAGE SEWER	300 LDS	375 WWS	WASTEWATER SEWER	375 WWS	300 CS	250 WWS	WASTEWATER SEWER	250 WWS	<table border="1"> <tr><td>525 LDS</td><td>LAND DRAINAGE SEWER</td><td>525 LDS</td><td>50 GAS</td><td>300 LDS</td><td>LAND DRAINAGE SEWER</td><td>300 LDS</td></tr> <tr><td>375 WWS</td><td>WASTEWATER SEWER</td><td>375 WWS</td><td>300 CS</td><td>250 WWS</td><td>WASTEWATER SEWER</td><td>250 WWS</td></tr> </table>	525 LDS	LAND DRAINAGE SEWER	525 LDS	50 GAS	300 LDS	LAND DRAINAGE SEWER	300 LDS	375 WWS	WASTEWATER SEWER	375 WWS	300 CS	250 WWS	WASTEWATER SEWER	250 WWS	<table border="1"> <tr><td>SL, HYDRO</td><td>TRAFFIC SIGNALS</td><td>GAS</td><td>SURVEY BAR</td><td>FENCE</td><td>POLE - HYDRO, MTS</td><td>CURB STOP</td><td>GUY ANCHOR</td><td>LIGHT STANDARD</td><td>TREE</td></tr> </table>	SL, HYDRO	TRAFFIC SIGNALS	GAS	SURVEY BAR	FENCE	POLE - HYDRO, MTS	CURB STOP	GUY ANCHOR	LIGHT STANDARD	TREE	<table border="1"> <tr><td>150 WM</td><td>WATERMAIN</td><td>150 WM</td><td>SL, HYDRO</td><td>150 WM</td><td>WATERMAIN</td><td>150 WM</td></tr> <tr><td>525 LDS</td><td>LAND DRAINAGE SEWER</td><td>525 LDS</td><td>50 GAS</td><td>300 LDS</td><td>LAND DRAINAGE SEWER</td><td>300 LDS</td></tr> <tr><td>375 WWS</td><td>WASTEWATER SEWER</td><td>375 WWS</td><td>300 CS</td><td>250 WWS</td><td>WASTEWATER SEWER</td><td>250 WWS</td></tr> </table>	150 WM	WATERMAIN	150 WM	SL, HYDRO	150 WM	WATERMAIN	150 WM	525 LDS	LAND DRAINAGE SEWER	525 LDS	50 GAS	300 LDS	LAND DRAINAGE SEWER	300 LDS	375 WWS	WASTEWATER SEWER	375 WWS	300 CS	250 WWS	WASTEWATER SEWER	250 WWS	<p>LOCATION APPROVED UNDERGROUND STRUCTURES</p> <p>DATE: _____</p>	<p>B.M. ELEV. _____</p> <p>FIELD BOOK # _____</p>	<p>CITY OF WINNIPEG WATER AND WASTE ENGINEERING DIVISION</p>	<p>ENGINEER'S SEAL</p> <p>ORIGINAL SIGNED BY S.R.J. COUNROYER 06/01/27</p>	<p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT</p> <p>2005 COMBINED SEWER RENEWALS AND SEWER REPAIRS SPRUCE STREET MH AT BARRATT AVENUE TO MH AT PERCY AVENUE</p>	<p>SHEET 4 OF 14</p> <p>CITY DRAWING NUMBER 05740</p>
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