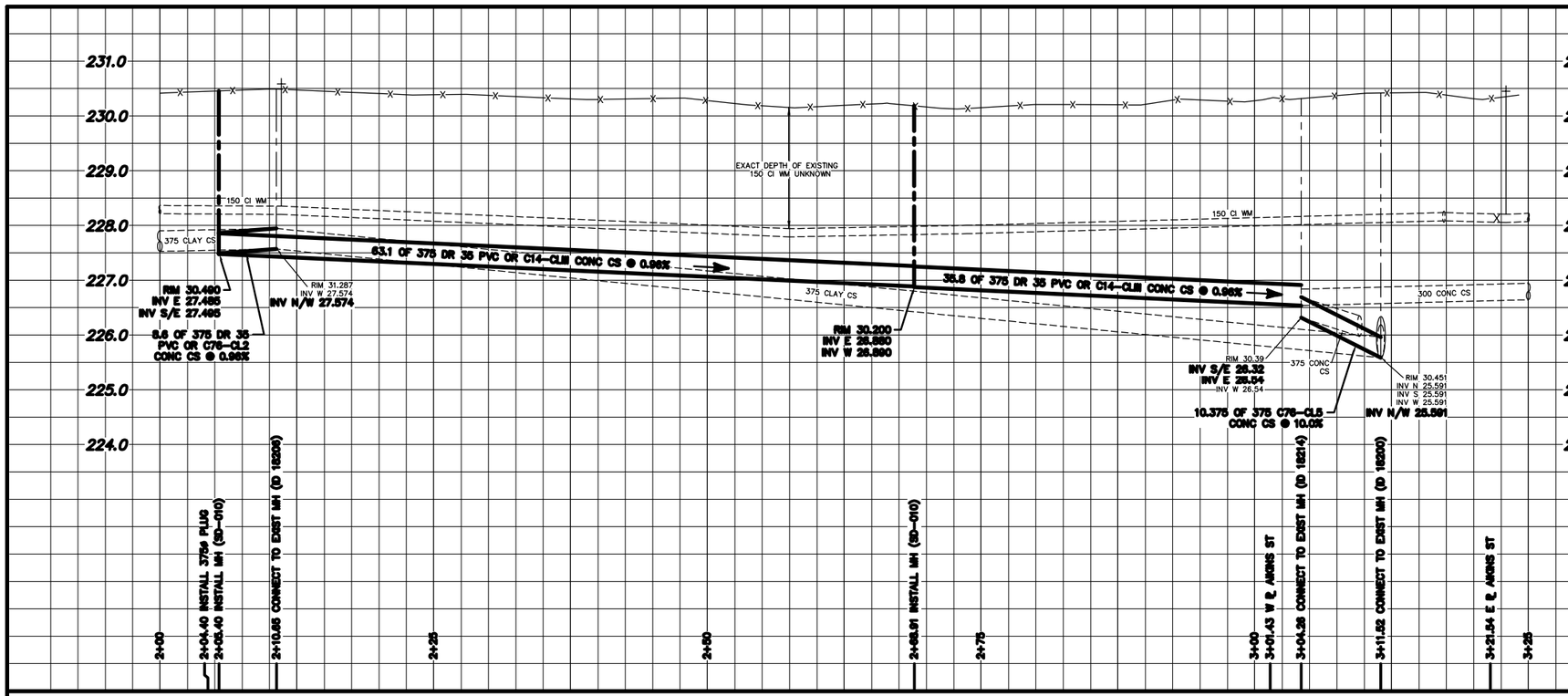
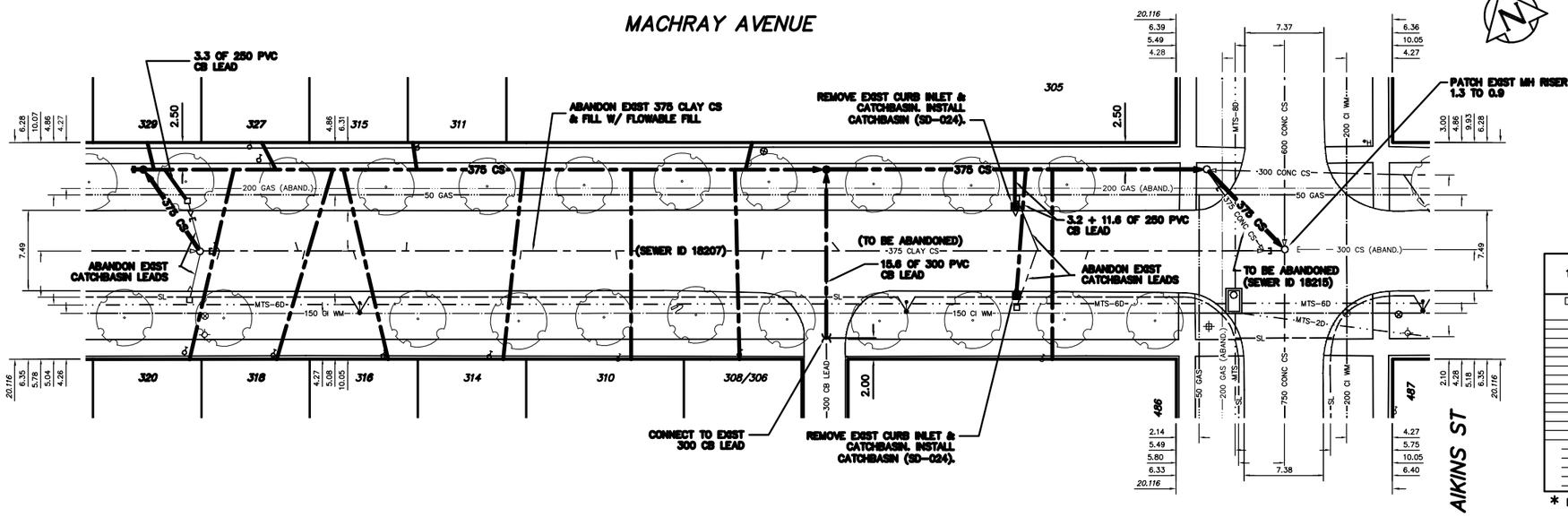


CONSTRUCTION NOTES:

1. SEWER TO BE RENEWED OFF-LINE BY TRENCHLESS METHODS.
2. CONFIRM THE LOCATION OF ALL SEWER SERVICES.
3. RENEW SEWER SERVICES TO ℄.
4. BACKFILL UNDER PAVEMENT, IN SIDEWALKS, & WITHIN 1.0 m OF PAVEMENT TO BE CLASS 3.
5. BACKFILL IN BOULEVARD TO BE CLASS 5.
6. SEWER SERVICE RISERS TO BE INSTALLED WHEN COMBINED SEWER EXCEEDS 4.25 m IN DEPTH.
7. INSTALL TEE INCLUDING RISERS & PLUG FOR FUTURE SERVICE CONNECTION OF EXISTING WYED SEWER SERVICES AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
8. CATCHBASIN LEADS TO BE INSTALLED AT MINIMUM 1.0% SLOPE OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR.

NOTE: CHAINAGES SHOWN ARE ALONG S. ℄ OF MACHRAY AVE.



SEWER SERVICE INFORMATION			
ADDRESS	SIZE	℄ DIST JUNCTION TIE	
486 AIKINS ST		11.52 W OF EL	
RESIDENTIAL		18.29 W MH ● AIKINS	
487 AIKINS ST		13.0 E OF WL	
COMMERCIAL		18.29 E MH ● AIKINS	
305 MACHRAY AVE		22.66 E OF WL	
COMMERCIAL		41.45 W MH ● AIKINS	
308/306 MACHRAY AVE		5.79 W OF EL	
RESIDENTIAL		48.46 W MH ● AIKINS	
310 MACHRAY AVE		4.90 W OF EL	
RESIDENTIAL		62.21 W MH ● AIKINS	
311 MACHRAY AVE		0.46 E OF WL #311	
RESIDENTIAL		81.69 W MH ● AIKINS	
314 MACHRAY AVE		2.13 W OF EL	
RESIDENTIAL		71.02 W MH ● AIKINS	
315 MACHRAY AVE		0.46 E OF WL #311	
RESIDENTIAL		81.69 W MH ● AIKINS	
316 MACHRAY AVE		2.74 W OF EL	
RESIDENTIAL		86.63 W MH ● AIKINS	
318 MACHRAY AVE		3.05 W OF EL	
RESIDENTIAL		91.14 W MH ● AIKINS	
320 MACHRAY AVE		1.22 W OF EL	
RESIDENTIAL		99.06 W MH ● AIKINS	
327 MACHRAY AVE		4.42 W OF EL	
RESIDENTIAL		91.74 W MH ● AIKINS	
329 MACHRAY AVE		5.04 W OF EL	
RESIDENTIAL		99.07 W MH ● AIKINS	

SEWER JUNCTION INFORMATION
1ST MH E. OF SALTER ST. (2+10.65) TO * MH ● AIKINS ST. (3+11.52)

DISTANCE FROM 1ST MH E. OF SALTER ST. (2+10.65)			
1.40	E	150ø	SOUTH
9.10	E	150ø	NORTH
10.70	E	150ø	SOUTH
19.30	E	150ø	NORTH
20.10	E	150ø	SOUTH
30.10	E	150ø	SOUTH
38.60	E	150ø	SOUTH
39.20	E	150ø	NORTH
52.50	E	150ø	SOUTH
59.30	E	150ø	NORTH
59.60	E	150ø	NORTH
60.10	E	200ø	SOUTH
69.00	E	150ø	NORTH
76.40	E	150ø	SOUTH
77.10	E	150ø	NORTH
82.60	E	150ø	SOUTH
96.50	E	150ø	SOUTH
99.00	E	375ø	NORTH

* INFORMATION FROM SEWER VIDEO INSPECTION

0.0 5.0 10.0 15.0 20.0 25.0

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

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
200 WM	WATERMAIN	200 WM		SL , HYDRO		150 WM	WATERMAIN	150 WM
	HYDRANT			MTS			HYDRANT	
	VALVE			TRAFFIC SIGNALS			VALVE	
525 LDS	LAND DRAINAGE SEWER	525 LDS	50 GAS	GAS	50 GAS	300 LDS	LAND DRAINAGE SEWER	300 LDS
375 WWS	WASTEWATER SEWER	375 WWS		SURVEY BAR		250 WWS	WASTEWATER SEWER	250 WWS
	MANHOLE			FENCE			℄ PROFILE	
	CATCH BASIN			POLE - HYDRO, MTS			GROUND ABOVE PIPE	
	CURB INLET			CURB STOP			℄ DITCH (SOUTH & EAST)	
	JUNCTIONS			GUY ANCHOR			GUTTER (NORTH & WEST)	
	CULVERT			LIGHT STANDARD				
	ANODE			TREE				

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE _____ DATE _____

NOTE:
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.

B.M. ELEV. | FIELD BOOK #:
POSTED TO LBIS

NO.	REVISIONS	DATE	BY

CITY OF WINNIPEG
WATER AND WASTE
ENGINEERING DIVISION

DESIGNED BY	SC	CHECKED BY	TW
DRAWN BY	CJH	APPROVED BY	KZ
HOR. SCALE	1:250	RELEASED FOR CONSTRUCTION	
VERTICAL	1:50		
DATE	2004.08.11	DATE	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
K.R. ZUREK
REGISTERED PROFESSIONAL ENGINEER

BID OPPORTUNITY: 405-2004
FILENAME : full_machray.dwg
PLOT DATE: 2004 08 11

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

2004 COMBINED SEWER RENEWALS AND ASSOCIATED WORKS
MACHRAY AVENUE
80 m E OF E ℄ SALTER STREET TO MH AT AIKINS STREET

SHEET 4 OF 9
CITY DRAWING NUMBER
05515