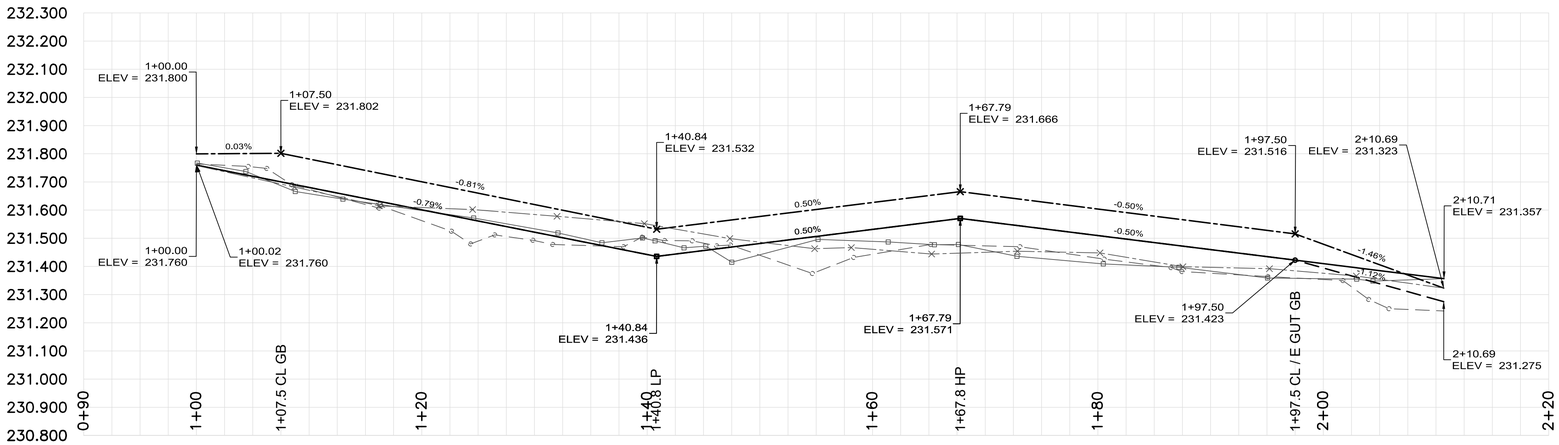
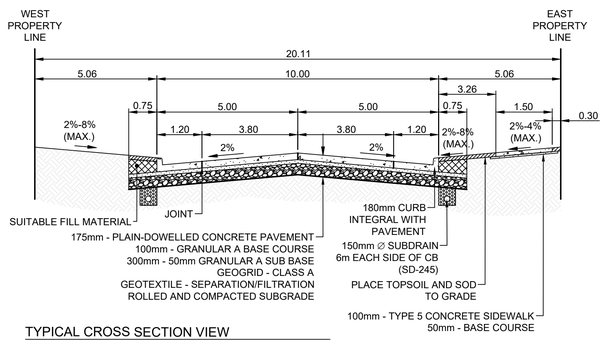




TYPICAL CROSS SECTION VIEW
N.T.S.

WATER AND WASTE DEPARTMENT

A MINIMUM CLEARANCE OF 1.5 METER MUST BE PROVIDED BETWEEN THE UNDERSIDE OF ANY EXISTING WATERMAIN OR SEWERMAIN AND THE TOP OF THE PROPOSED WORKS. THIS INSTALLATION BY TRENCHLESS METHOD ONLY.

EXISTING WATERMAIN OR SEWERMAIN
1 METER MINIMUM
PROPOSED WORKS

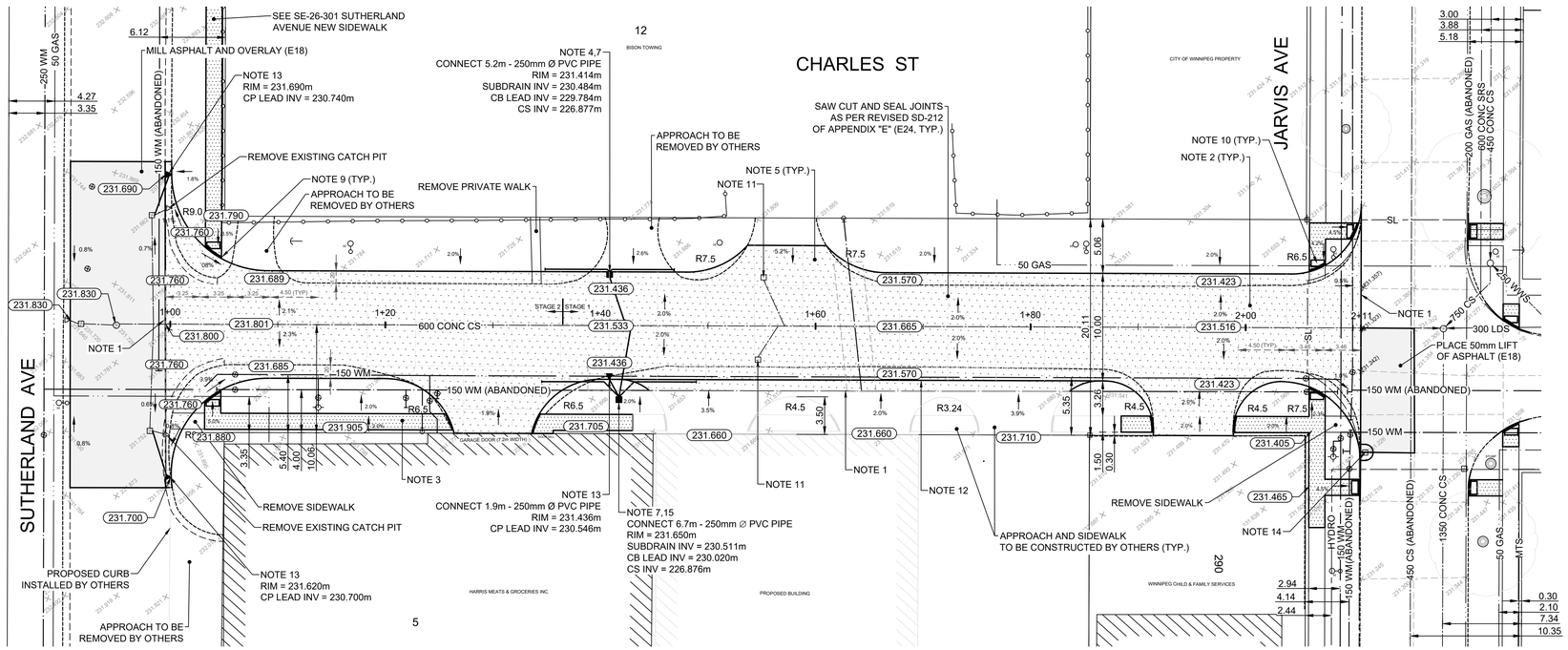
A MINIMUM CLEARANCE OF 0.5 METERS MUST BE PROVIDED BETWEEN THE UNDERSIDE OF THE PROPOSED WORKS AND THE TOP OF ANY EXISTING WATERMAIN OR SEWERMAIN.

PROPOSED WORKS
0.5 METER MINIMUM
EXISTING WATERMAIN OR SEWERMAIN

A MINIMUM LATERAL CLEARANCE OF 1.0 METER MUST BE PROVIDED BETWEEN ANY EXISTING WATERMAIN OR SEWERMAIN PIPE AND THE PROPOSED WORKS, BUT 3.0 METERS IS RECOMMENDED

PROPOSED WORKS
1.0 METER MINIMUM
EXISTING WATERMAIN OR SEWERMAIN

A SHAFT MUST BE EXCAVATED BY SOFT DIG METHODS 4.0 METERS FROM THE CETRELINE OF THE EXISTING WATERMAIN OR SEWERMAIN PIPE TO CONFIRM THE ALIGNMENT AND ELEVATION OF THE DRILLING EQUIPMENT IS ORIENTED OVER OR UNDER THE EXISTING WATERMAIN OR SEWERMAIN PIPE. THIS CONFIRMATION MUST BE WITNESSED BY A CITY REPRESENTATIVE.



CONSTRUCTION NOTES

1. LIMIT OF RECONSTRUCTION
2. REMOVE EXISTING PAVEMENT AND CONSTRUCT 175mm PLAIN DOWELLED CONCRETE PAVEMENT WITH INTEGRAL CURB (SD-204, 180mm HT.)
3. CONSTRUCT NEW 100mm CONCRETE SIDEWALK (SD-228A, E20)
4. INSTALL NEW 1800 CATCH BASIN WITH ARCHED CURB AND GUTTER INLET FRAME (SD-024, E21), AND CONNECT TO EXISTING 600mm COMBINED SEWER WITH 250mm Ø PVC PIPE AS PER CW 2130
5. REMOVE EXISTING APPROACH AND CONSTRUCT NEW 200mm REINFORCED CONCRETE APPROACH (SD-232)
6. CONSTRUCT NEW MODIFIED BARRIER CURB (INTEGRAL) WITH 180mm CURB REVEAL (SD-203B)
7. INSTALL 6.0m - 150mm Ø SUB DRAINS (BOTH SIDES), CONNECT TO CATCH BASIN (SD-245) AND CAP ENDS AS PER CW 3120
8. INSTALL NEW FRAME AND SOLID COVER (AP-006, AP-007) AND ADJUST TO GRADE
9. CONSTRUCT CURB RAMP (SD-200A, SD-229C, SD-229D)
10. INSTALL DETECTABLE WARNING SURFACE TILES (SD-229E)
11. ABANDON EXISTING CURB INLET AND EXISTING CATCH BASIN AS PER CW 2130
12. CONSTRUCT NEW 75mm CONCRETE LIP CURB, INTEGRAL WITH PAVEMENT (SD-202B)
13. INSTALL NEW CATCH PIT WITH ARCHED CURB AND GUTTER INLET FRAME AND COVER (SD-023, E21), AND CONNECT TO CATCH BASIN WITH 250mm Ø PVC PIPE AS PER CW-2130
14. ADJUST FRAME TO GRADE
15. INSTALL NEW 1800 CATCH BASIN WITH MANHOLE FRAME AND SOLID COVER (AP-006, AP-007), AND CONNECT TO EXISTING 600mm COMBINED SEWER WITH 250mm Ø PVC PIPE AS PER CW 2130

GENERAL NOTES

A. PAVEMENT DIMENSIONS ARE TO BACK OF CURB
B. ALL CURB RADII UNDER 15.0m SHALL BE MODIFIED (SD-203B)
C. CURB REPLACEMENT AS DIRECTED BY CONTRACT ADMINISTRATOR
D. CONTRACTOR TO CONFIRM THE LOCATION OF ALL UTILITIES/SERVICES IN THE FIELD PRIOR TO CONSTRUCTION
E. ADJUST ALL EXISTING WATER VALVES AND CURB STOPS TO GRADE
F. PAVEMENT REPAIRS SHOWN ARE A REPRESENTATIVE SAMPLE OF THE TENDER QUANTITIES
G. ALL WATER SERVICES WITHIN THE LIMITS OF THE RECONSTRUCTION SHALL BE INSULATED AS PER SD-018
H. ALL SIDEWALK RENEWALS TO INCLUDE SIDEWALK EXPANSION JOINTS AS PER E20

ISSUED FOR TENDER
NOT TO BE USED FOR CONSTRUCTION

METRIC
WHOLE NUMBERS INDICATE MILLIMETERS
DECIMALIZED NUMBERS INDICATE METERS

⊹	HYDRANT	✦		LDS/WWS			CONCRETE FENCE	
⊗	VALVE	⊖		WATERMAIN			RAMP CURB	
⊙	CURB STOP	⊙		GAS			CONCRETE	
○	MANHOLE	●		TRAFFIC SIGNALS			CONCRETE SIDEWALK	
□	CATCH BASIN	■		HYDRO/STREET LIGHT			ASPHALT	
△	CATCH PIT/CURB INLET	▲		MTS/SHAW			SUB DRAINS	
⊹⊸	HYDRO POLE	●●		BOC/EDGE OF PAVEMENT		EXISTING	LEGEND - PLAN	PROPOSED
⊹⊸	LIGHT STANDARD	●●		PROPERTY LINE			WEST GUTTER	
⊹↪	TRAFFIC SIGNAL POLE	●↪	231.000 & (231.000)	ELEVATIONS	231.000		CENTER LINE	
⊹	SURVEY BAR	✦		TREE/ TREE TRUNK			EAST GUTTER	
EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE	PROPOSED

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPR, 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. IP @ SW CORNER OF JARVIS & CHARLES
ELEV. 231.612m

NO.	REVISIONS	DATE	BY
2.	ISSUE FOR TENDER	26/03/20	A.K.
1.	SUBMIT FOR PLAN APPROVAL	26/03/02	A.K.

ENGINEERING DIVISION
TECHNOLOGY SERVICES BRANCH
106 - 1155 PACIFIC AVE

DESIGNED BY	A.K.	CHECKED BY	G.K., R.W.
DRAWN BY	A.K.	APPROVED BY	R.D.
HOR. SCALE:	1 : 250		
VERTICAL:	1 : 10		
DATE	2026/03/17		

ENGINEER'S SEAL
PROVINCE OF MANITOBA
R. DEWITT
Member 24672
REGISTERED PROFESSIONAL ENGINEER
2026-03-17

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

CHARLES STREET
FROM SUTHERLAND AVENUE TO JARVIS AVENUE
CONCRETE PAVEMENT RECONSTRUCTION
FROM STA. 1+00 TO STA. 2+11

CITY DRAWING NUMBER: SE-26-300
SHEET 1 OF 22
TENDER NO. 12-2026