

**CONSTRUCTION NOTES:**

- ALL DIMENSIONS ARE TO BACK OF CURB.
- ISOLATE MISCELLANEOUS ITEMS IN NEW CONCRETE WORKS AS PER SD-228C.
- LEGAL PLAN AND UNDERGROUND INFORMATION FROM CITY OF WINNIPEG LBIS. CONTRACTOR TO VERIFY ALL UNDERGROUNDS IN THE FIELD.
- CONTRACTOR TO TAKE PRECAUTIONARY STEPS TO AVOID DAMAGE FROM CONSTRUCTION ACTIVITIES TO TREES WITHIN THE LIMITS OF CONSTRUCTION.
- LOCATION OF EXISTING SERVICES TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR.
- CB LEADS TO BE INSTALLED AT MIN. 1.0% SLOPE OR AS DIRECTED BY CONTRACT ADMINISTRATOR.
- LIMITS OF SIDEWALK RENEWAL TO BE FINALIZED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
- LIMITS OF BOULEVARD GRADING TO BE FINALIZED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
- ALL EXISTING LONG WATER SERVICES TO BE INSULATED AS PER SD-018 (AS REQUIRED).
- ALL BOULEVARDS TO BE SOD UNLESS OTHERWISE NOTED.
- CONTRACTOR TO TAKE PRECAUTIONARY STEPS TO PROTECT EXISTING TREES WITHIN THE LIMITS OF CONSTRUCTION FROM DAMAGE BY CONSTRUCTION ACTIVITIES AS OUTLINED IN THE SPECIFICATIONS.
- INSTALL 6 m OF 150 mm SUBDRAIN TO CATCH BASINS IN BOTH DIRECTIONS PARALLEL TO ROADWAY AS PER SD-245 AND CATCH ENDS.
- INSTALL 150 mm SUBDRAIN ALONG ROADWAY NEAR RETAINING WALLS THROUGHOUT UNDERPASS AREA.
- MODIFIED BARRIER CURB AT ALL INTERSECTION RADI (SEE SHEETS CT-001 AND CT-002).
- ADJUST MANHOLE FRAMES, CATCH BASIN RIMS AND VALVES TO NEW GRADES, AS REQUIRED.
- CONTRACTOR TO TAKE PRECAUTIONARY STEPS WHEN WORKING IN PROXIMITY TO 200 mm HYDRO GAS LINE, INCLUDING SAFETY WATCH AS REQUIRED.

f.o.b. = FACE OF BARRIER  
b.o.c. - BACK OF CURB

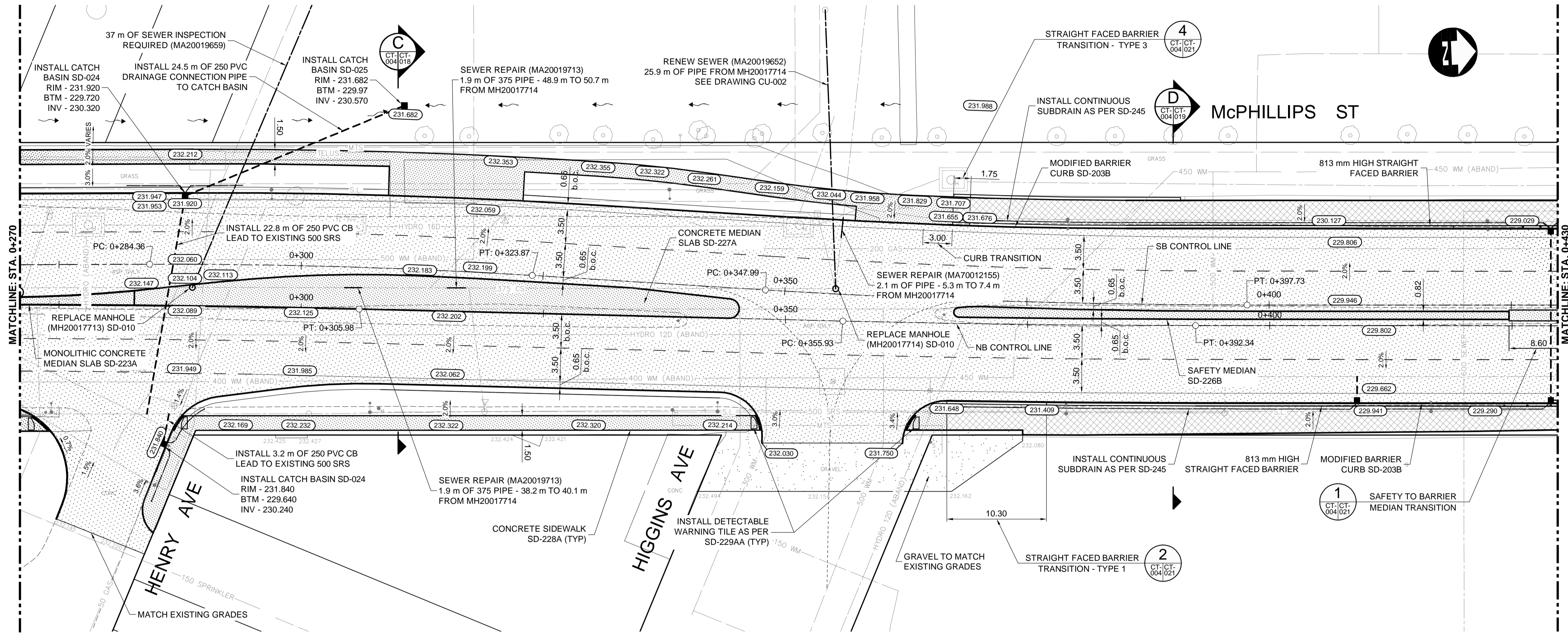
**METRIC**

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:

- NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
- TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.
- OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.



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<table border="1"> <tr> <td>150 WM</td> <td>WATERMAIN</td> <td>150 WM</td> <td>CONCRETE</td> <td>150 WM</td> <td>WATERMAIN</td> <td>150 WM</td> </tr> <tr> <td>Hydrant</td> <td>Hydrant</td> <td>Asphalt</td> <td>Land Drainage Sewer</td> <td>300 LDS</td> <td>Land Drainage Sewer</td> <td>300 LDS</td> </tr> <tr> <td>Valve</td> <td>Valve</td> <td>Planing</td> <td>Waste Water Sewer</td> <td>250 WWS</td> <td>Waste Water Sewer</td> <td>250 WWS</td> </tr> <tr> <td>Manhole</td> <td>Manhole</td> <td>Sidewalk</td> <td>Hydrant</td> <td>Hydrant</td> <td>Hydrant</td> <td>Hydrant</td> </tr> <tr> <td>Catch Basin</td> <td>Catch Basin</td> <td>Paving Stones</td> <td>Valve</td> <td>Valve</td> <td>Valve</td> <td>Valve</td> </tr> <tr> <td>Curb Inlet</td> <td>Curb Inlet</td> <td>Structural Sidewalk</td> <td>Profile</td> <td>Profile</td> <td>Profile</td> <td>Profile</td> </tr> <tr> <td>300 LDS</td> <td>Land Drainage Sewer</td> <td>Property Line</td> <td>North/West Gutter</td> <td>North/West Gutter</td> <td>North/West Gutter</td> <td>North/West Gutter</td> </tr> <tr> <td>250 WWS</td> <td>Waste Water Sewer</td> <td>Drainage Arrow</td> <td>South/East Gutter</td> <td>South/East Gutter</td> <td>South/East Gutter</td> <td>South/East Gutter</td> </tr> <tr> <td>Hydro</td> <td>Hydro</td> <td>Curb Ramp (SD-229C)</td> <td>North/West Ditch</td> <td>North/West Ditch</td> <td>North/West Ditch</td> <td>North/West Ditch</td> </tr> <tr> <td>M.T.S.</td> <td>M.T.S.</td> <td>Detachable Warning Surface Tile (SD-229AA)</td> <td>South/East Ditch</td> <td>South/East Ditch</td> <td>South/East Ditch</td> <td>South/East Ditch</td> </tr> <tr> <td>100 GAS</td> <td>Gas</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EXISTING</td> <td>LEGEND-PLAN</td> <td>PROPOSED</td> <td>EXISTING</td> <td>LEGEND-PLAN</td> <td>PROPOSED</td> <td>EXISTING</td> </tr> </table>	150 WM	WATERMAIN	150 WM	CONCRETE	150 WM	WATERMAIN	150 WM	Hydrant	Hydrant	Asphalt	Land Drainage Sewer	300 LDS	Land Drainage Sewer	300 LDS	Valve	Valve	Planing	Waste Water Sewer	250 WWS	Waste Water Sewer	250 WWS	Manhole	Manhole	Sidewalk	Hydrant	Hydrant	Hydrant	Hydrant	Catch Basin	Catch Basin	Paving Stones	Valve	Valve	Valve	Valve	Curb Inlet	Curb Inlet	Structural Sidewalk	Profile	Profile	Profile	Profile	300 LDS	Land Drainage Sewer	Property Line	North/West Gutter	North/West Gutter	North/West Gutter	North/West Gutter	250 WWS	Waste Water Sewer	Drainage Arrow	South/East Gutter	South/East Gutter	South/East Gutter	South/East Gutter	Hydro	Hydro	Curb Ramp (SD-229C)	North/West Ditch	North/West Ditch	North/West Ditch	North/West Ditch	M.T.S.	M.T.S.	Detachable Warning Surface Tile (SD-229AA)	South/East Ditch	South/East Ditch	South/East Ditch	South/East Ditch	100 GAS	Gas						EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	<p>UNDERGROUND STRUCTURES</p> <p>SUPPLY U/G STRUCTURES DATE</p> <p>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.</p>	<p>B.M. ELEV.</p> <table border="1"> <tr> <td>0</td> <td>ISSUED FOR TENDER</td> <td>18/03/16</td> <td>TJP</td> </tr> <tr> <td>NO.</td> <td>REVISIONS</td> <td>DATE</td> <td>BY</td> </tr> </table>	0	ISSUED FOR TENDER	18/03/16	TJP	NO.	REVISIONS	DATE	BY	<p>DESIGNED BY RTP</p> <p>DRAWN BY TJH</p> <p>CHECKED BY TS</p> <p>APPROVED BY TJP</p> <p>HOR. SCALE 1:250</p> <p>VERTICAL 1:10</p>	<p>RELEASED FOR CONSTRUCTION</p> <p>DATE</p>	<p>ENGINEER'S SEAL</p> <p>PROVINCE OF MANITOBA</p> <p>REGISTERED PROFESSIONAL ENGINEER</p> <p>T.J. PETERS</p> <p>18/03/16</p> <p>Member 22309</p>	<p>THE CITY OF WINNIPEG</p> <p>PUBLIC WORKS DEPARTMENT</p> <p>2018 REGIONAL STREET RENEWAL PROJECT</p> <p>McPHILLIPS STREET RECONSTRUCTION AND UNDERPASS</p> <p>STRUCTURAL IMPROVEMENTS</p> <p>LOGAN AVENUE TO JARVIS AVENUE</p> <p>McPHILLIPS STREET - STA. 0+270 TO 0+430 (PLAN)</p>	<p>CITY DRAWING NUMBER P-3492-2018-CT-004</p> <p>SHEET 004 OF 021</p> <p>CONSULTANT DRAWING NUMBER CT-004</p>
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