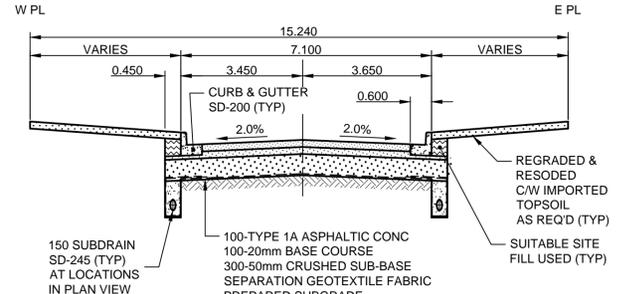
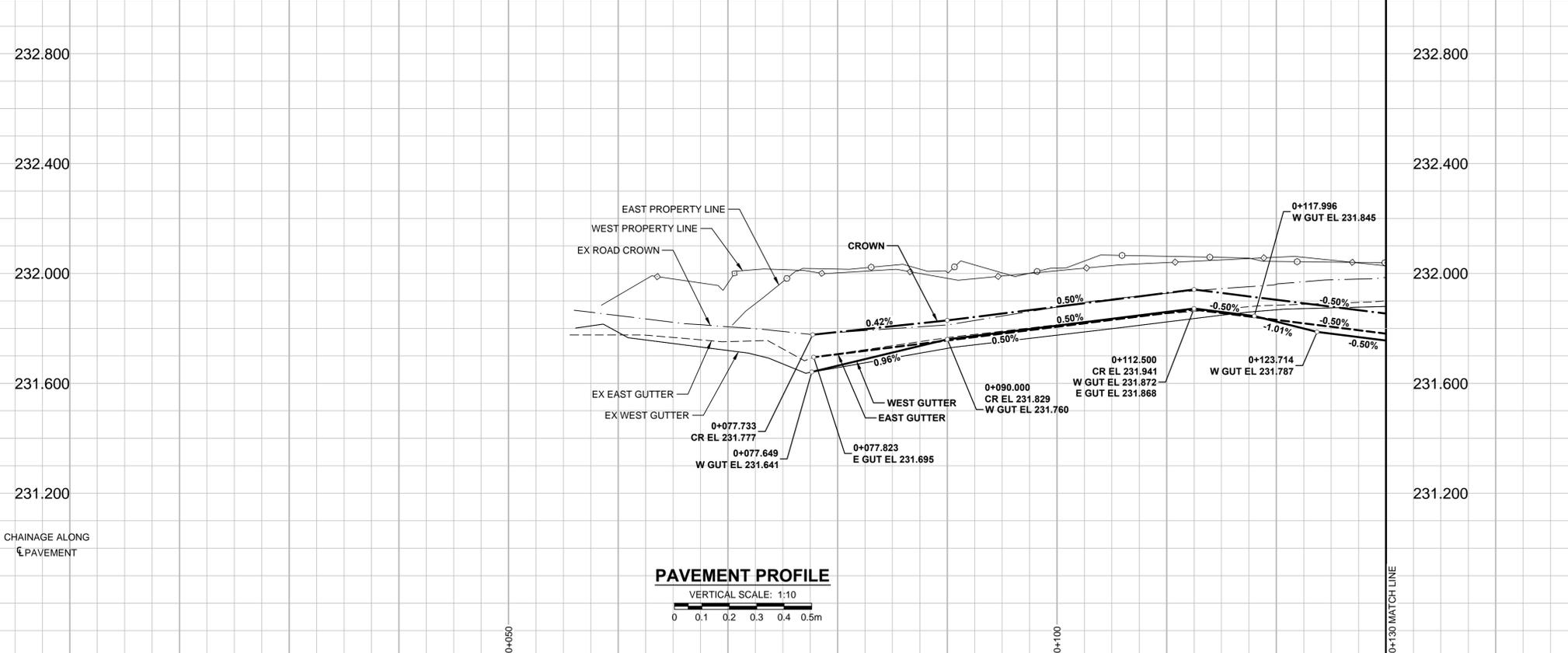


A1 SIZE 894mm x 841mm  
PLOT: 5/14/2014 5:38:46 PM  
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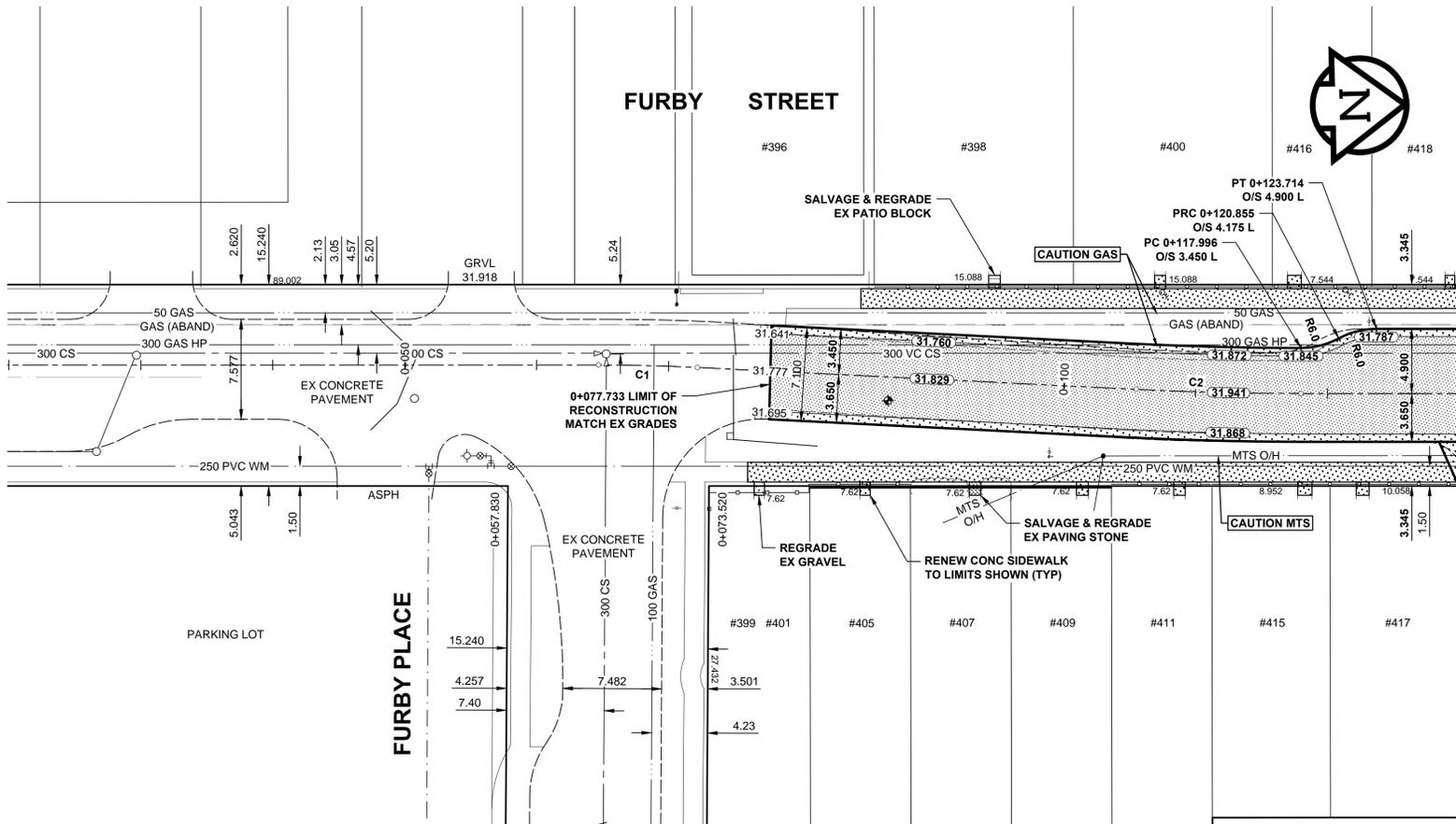
**PAVEMENT SECTION**  
ASPHALT PAVEMENT STRUCTURE  
TYPICAL  
SCALE: N.T.S.

**WORKING IN THE PROXIMITY OF HIGH PRESSURE GAS MAIN**

THE PROPOSED ROAD RECONSTRUCTION OF FURBY STREET CROSSES OVER AN EXISTING 323.9mm HIGH PRESSURE NATURAL GAS MAIN. THE FOLLOWING PARAMETERS SHALL BE FOLLOWED WHEN WORKING IN PROXIMITY TO ALL NATURAL GAS MAINS:

- A MANITOBA HYDRO HIGH PRESSURE SAFETY WATCH IS REQUIRED FOR ALL CONSTRUCTION ACTIVITIES WITHIN 3.0m OF THE HIGH PRESSURE NATURAL GAS MAIN.
- PRIOR TO CONSTRUCTION EXPOSE THE MAIN BY HYDRO-EXCAVATION EVERY 25m AND AT CB LOCATIONS IN ORDER TO CONFIRM ELEVATION OF THE PIPE.
- ALL EXCAVATIONS WITHIN 1.0m OF ANY NATURAL GAS MAIN MUST BE COMPLETED BY HAND OR HYDRO-EXCAVATION.
- A MINIMUM 900mm OF COVER SHALL BE MAINTAINED IN ALL AREAS WHERE EQUIPMENT WILL BE CROSSING, TRAVELING OR COMPACTING OVER THE 323.9mm GAS MAIN. VIBRATORY COMPACTION CANNOT BE USED OVER OR WITHIN 3.0m OF A MAIN WHERE THERE WILL BE LESS THAN 1.0m OF COVER.
- A MINIMUM 600mm COVER SHALL BE MAINTAINED IN ALL AREAS WHERE EQUIPMENT WILL BE CROSSING, TRAVELING OR COMPACTING OVER THE 60.3mm GAS MAIN. VIBRATORY COMPACTION CANNOT BE USED OVER OR WITHIN 3.0m OF A MAIN WHERE THERE WILL BE LESS THAN 1.0m OF COVER.
- IF EQUIPMENT MUST CROSS, TRAVEL OR COMPACT OVER THE GAS MAIN WITH LESS THAN THE MINIMUM DEPTH OF COVER, EARTH BRIDGING OR STEEL PLATES SHALL BE PLACED OVER THE MAIN AND EXTEND A MINIMUM OF 1.0m ON EITHER SIDE AT EACH CROSSING LOCATION.
- CAUTION MUST BE USED TO ENSURE THE INTEGRITY OF THE PIPELINE COATING. ANY DAMAGES TO THE COATING MUST BE REPORTED AND REPAIRED BY MANITOBA HYDRO PRIOR TO BACKFILLING.

- NOTES**
- ADJUST MH AND CB RIMS TO NEW GRADES.
  - LAMP STANDARDS, HYDRO POLES, AND ANCHORS THAT REQUIRE TEMPORARY SUPPORT, REMOVAL, OR REPLACEMENT, TO BE DONE SO AT THE EXPENSE OF THE CONTRACTOR AS NECESSARY.
  - CONTRACTOR TO REGRADE/RENEW EXISTING PRIVATE SIDEWALKS TO LIMITS AS SHOWN. SIDEWALKS TO BE RENEWED WITH CONCRETE UNLESS NOTED OTHERWISE.
  - CONTRACTOR TO TAKE PRECAUTIONARY STEPS TO PROTECT EXISTING TREES WITHIN THE LIMITS OF CONSTRUCTION FROM DAMAGE FROM CONSTRUCTION ACTIVITIES AS OUTLINED IN THE SPECIFICATIONS.
  - MODIFIED BARRIER CURB TO BE USED AT ALL INTERSECTION RADII, BACK LANE RADII AND BULLNOSES.
  - CONTRACTOR TO CONFIRM THE LOCATION OF ALL UTILITIES/SERVICES IN THE FIELD PRIOR TO CONSTRUCTION.
  - ADD 200.000m TO ABBREVIATED ELEVATIONS TO OBTAIN GEODETIC ELEVATIONS.
  - CB OFFSETS ARE DIMENSIONED TO BOC.
  - SCALE FACTOR OF 1.000040936 APPLIED TO LBSIS.



CIRCULAR CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	150.000	7.492	2°51'42"	3.747
C2	250.000	12.486	2°51'42"	6.244

CENTERLINE-GEOMETRIC CONTROL POINT COORDINATES		
POINT/STATION	NORTHING	EASTING
POT 0+020.000	9720.111	9996.833
PC 0+064.702	9764.802	9997.823
PT 0+072.193	9772.284	9998.176
PC 0+105.509	9805.514	10000.576
PT 0+117.996	9817.985	10001.165



BID OPPORTUNITY No. 209-2014

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMAL NUMBERS INDICATE METRES

EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	
	GAS		MANHOLE		CONCRETE PAVEMENT		LOCATION APPROVED		GAS
	MTS		CATCH BASIN / CATCH PIT		CONC SIDEWALK / MEDIAN		UNDERGROUND STRUCTURES		HYDRO
	CATV / FIBRE OPTIC		TREE		ASPHALT PAVEMENT		DATE		TRAFFIC SIGNALS / PIT
	LAND DRAINAGE SEWER		TEST HOLE		PAVING STONE		PROPERTY LINE		SURVEY BAR
	SANITARY/COMBINED SEWER		FENCE		GRAVEL		BOC / EDGE OF PAVEMENT		ELEVATION
	SEWER SERV/DRAINAGE CONN		TRAFFIC SIGN		RAMP CURB		PLANING / REMOVAL		DITCH
	WATERMAIN								
	SUBDRAIN								
	DITCH								

**LOCATION APPROVED**  
UNDERGROUND STRUCTURES

DATE COMMITTEE

**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.

GBM 37-029	ELEV 232.536m
0	ISSUED FOR CONSTRUCTION
14/05/14	RPB
No.	REVISIONS
YYMMDD	BY

**MORRISON HERSHFIELD**

DESIGNED BY RPB  
DRAWN BY DID, DML  
HOR. SCALE 1:250  
VERT. SCALE 1:10  
DATE 13/10/28

CHECKED BY WRJ  
APPROVED BY BWB  
RELEASED FOR CONSTRUCTION  
DATE 05/14/14

PROFESSIONAL'S SEAL

PROVINCE OF MANITOBA  
REGISTERED PROFESSIONAL ENGINEER  
R.P. BRUCE  
CONSULTANT DRAWING No. W130028-T-007\_RX.dwg

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

2014 LOCAL STREETS PACKAGE  
**FURBY STREET**  
FURBY PLACE TO ELLICE AVENUE  
ASPHALT RECONSTRUCTION  
HORIZONTAL AND VERTICAL ALIGNMENT  
STA 0+020 TO STA 0+130

CITY DRAWING NUMBER N/A  
SHEET 7 OF 34  
DRAWING No. 7  
REV 0