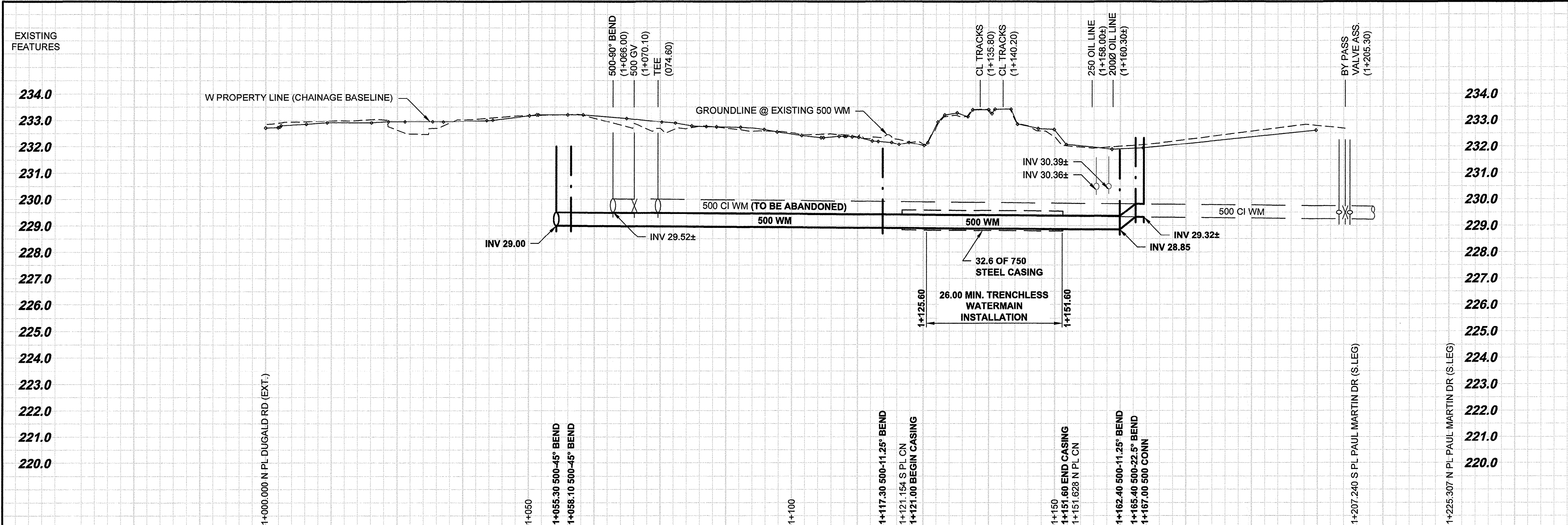


D SIZE 22" x 34" (559mm x 864mm)

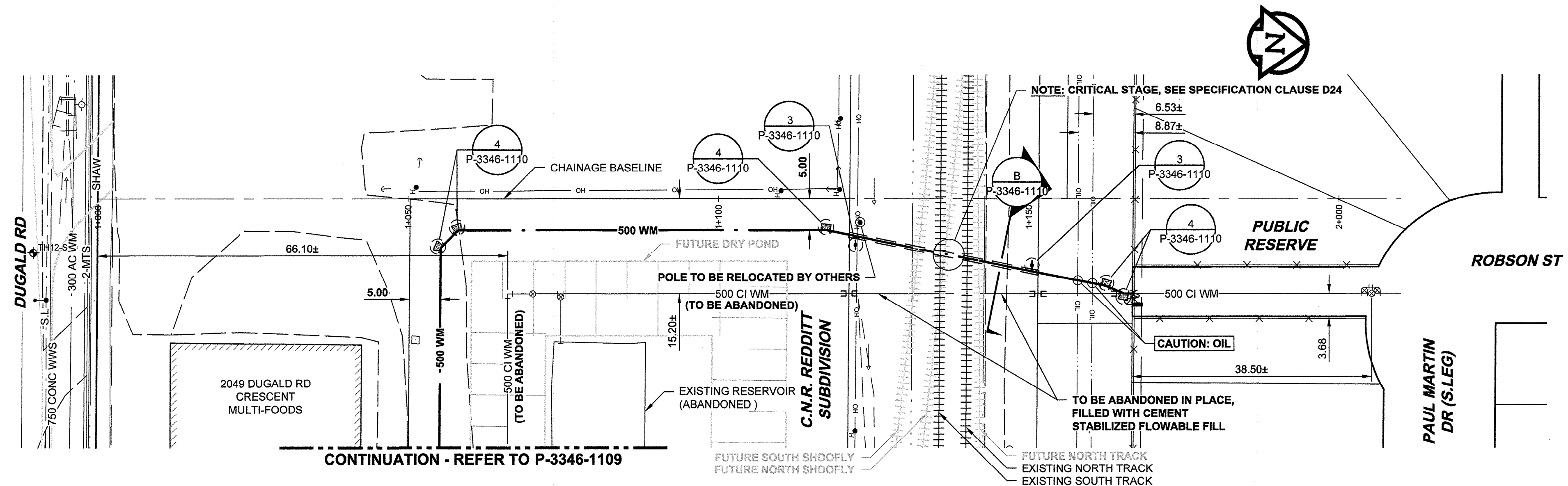
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AECOM REVIEW DRFT CHK  
AECOM FILE NAME: 60273041-SHT-01-Cont1-C-0005.dwg Saved By: leppia



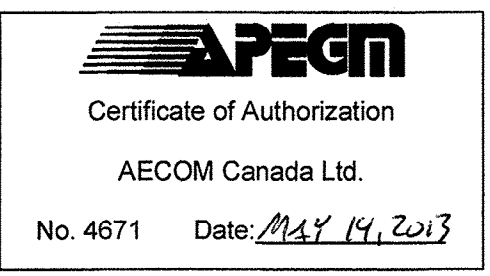
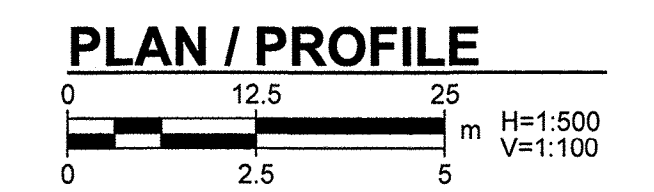
RAIL CROSSING NOTES:

RAILWAY MILEAGE AND SUBDIVISION:	MAIN LINE - REDDITT SUBDIVISION - MILE 246.78
MUNICIPAL DESCRIPTION OF ADJACENT PROPERTIES:	200m WEST OF PLESSIS ROAD (OPPOSITE ROBSON STREET EXTENSION) CITY OF WINNIPEG, WATER AND WASTE DEPARTMENT
NAME OF PIPELINE OWNER:	
CONTENTS TO BE HANDLED:	POTABLE WATER
MAXIMUM OPERATING PRESSURE:	450 KPa (65 psi)
MAXIMUM SURGE AND TEST PRESSURE:	1000 KPa (145 psi)
MAXIMUM OPERATING TEMPERATURE:	20°C
MINIMUM OPERATING TEMPERATURE:	4°C
PIPING MATERIALS:	CARRIER: CASING
NOMINAL DIAMETER:	500 mm 750 mm
OUTSIDE DIAMETER:	549 mm 762 mm
MATERIAL:	PVC STEEL
SPECIFICATION AND GRADE:	AWWA C905 DR18 MIN. YIELD STRENGTH 241 MPa
WALL THICKNESS:	30.5 mm 11.9 mm MIN.
TYPE OF JOINT:	RUBBER GASKET BELL AND SPIGOT WELDED
COATING:	NA NA
LOCATION OF SHUT OFF VALVES:	A.) 53.8m NORTH OF NORTH LIMIT OF R.O.W. B.) 66.0m SOUTH OF SOUTH LIMIT OF R.O.W. 98.0m EAST OF WATERMAIN CROSSING
METHOD OF INSTALLATION:	TRENCHLESS - CASING TO BE JACKED WITH NO SOIL REMOVAL AHEAD OF PIPE
VENTS:	NA NUMBER: NA
SEALS:	HEIGHT ABOVE GROUND: NA BOTH ENDS: YES TYPE: PSI BUNA-N MODEL W
BURY:	BASE OF RAIL TO TOP OF CASING: 4.0 m NOT BENEATH TRACKS: 2.5 m ROADWAY DITCHES: 2.5 m BASE OF RAIL TO BOTTOM OF JACKING/RECEIVING PITS: 5.0 m
EXTENT OF CASING MEASURED PERPENDICULAR TO CENTERLINE OF TRACK:	30.6m
ANGLE OF PIPE / TRACK CROSSING:	79°11'
DIRECTION OF FLOW:	BI-DIRECTIONAL
CENTERLINE OF TRACK TO FACE OF JACKING/RECEIVING PITS:	11.5m NORTH / 14.7m SOUTH
TYPE, SIZE, AND SPACING OF INSULATORS OR SUPPORTS:	PSI RANGER II MEDI SPACERS WITH 75mm RUNNER HEIGHT 1.8m O.C.
CATHODIC PROTECTION:	NA
GEOTECHNICAL BOREHOLES:	NA
SOIL TYPE:	NA
BASE OF RAIL TO GROUND WATER:	NA
TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH TC E-10	



**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 140/92 FOR DETAILS

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES



BID OPPORTUNITY NO. 342-2013

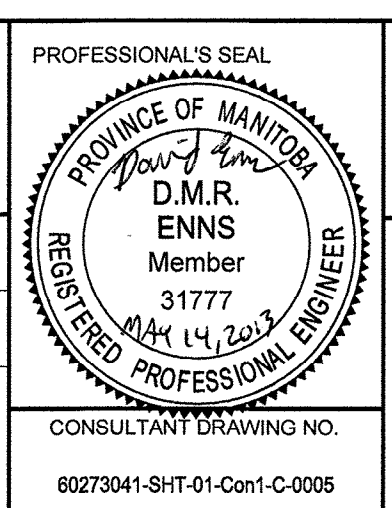
150 WM	WATERMAIN	150 WM	CURB STOP	150 WM	WATERMAIN	150 WM
HYDRANT	REDUCER	REDUCER	HYDRANT	HYDRANT	HYDRANT	HYDRANT
VALVE	COUPLING	COUPLING	VALVE	VALVE	VALVE	VALVE
300 LDS	LAND DRAINAGE SEWER	300 LDS	ANODE	LAND DRAINAGE SEWER	300 LDS	LAND DRAINAGE SEWER
250 WWS	WASTE WATER SEWER	250 WWS	HYDRO	WASTE WATER SEWER	250 WWS	WASTE WATER SEWER
MANHOLE	MANHOLE	MANHOLE	MTS	PAVEMENT CROWN	PAVEMENT CROWN	PAVEMENT CROWN
CATCH BASIN	CATCH BASIN	CATCH BASIN	GAS	N/W PROPERTY LINE	N/W PROPERTY LINE	N/W PROPERTY LINE
CURB INLET	CURB INLET	CURB INLET	TESTHOLE	S/E PROPERTY LINE	S/E PROPERTY LINE	S/E PROPERTY LINE
CULVERT	CULVERT	CULVERT	LAMP STANDARD	N/W GUTTER	N/W GUTTER	N/W GUTTER
PIPE ABANDONMENTS	PIPE ABANDONMENTS	PIPE ABANDONMENTS	TREE	S/E GUTTER	S/E GUTTER	S/E GUTTER
SURVEY BAR	SURVEY BAR	SURVEY BAR				
EXISTING	LEGEND - PLAN	NEW	LEGEND - PLAN	NEW	EXISTING	LEGEND - PROFILE

**LOCATION APPROVED**  
UNDERGROUND STRUCTURES  
SUPR. UIG 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.

0	ISSUED FOR TENDER	13/05/14	ADL
NO.	REVISIONS	YYMMDD	BY

**AECOM**

DESIGNED BY	JAT	CHECKED BY	[Signature]
DRAWN BY	ADL	APPROVED BY	[Signature]
HOR. SCALE	1:500	RELEASED FOR CONSTRUCTION	[Signature]
VERT. SCALE	1:100	DATE	



**THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT**

**PLESSIS ROAD TWINNING AND GRADE SEPARATION AT CN REDDITT SUBDIVISION CONTRACT 1**

**EXISTING 500 WATERMAIN RENEWAL**  
200m WEST OF PLESSIS ROAD  
DUGALD ROAD TO PAUL MARTIN DR (S. LEG) R.O.W.

CITY DRAWING NUMBER	P-3346-1108
SHEET	24 OF 27
CONSULTANT DWG No.	C-0005
REV	0