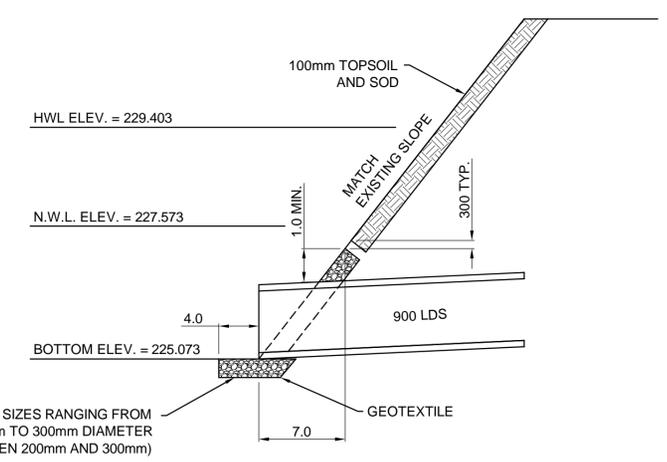


- CONSTRUCTION NOTES:**
- ALL PVC PIPE SHALL HAVE CLASS B-TYPE 3 BEDDING AND ALL CONCRETE PIPE SHALL HAVE CLASS B-SAND BEDDING.
 - BACKFILL UNDER PAVEMENT, IN SIDEWALKS, & WITHIN 1.0 OF PAVEMENT TO BE 6" LIMESTONE FLOOD TAMPED.
 - BACKFILL IN BOULEVARD TO BE CLASS 5.
 - ALL CATCHBASIN LEADS WILL BE 200Ø AND ARE TO BE INSTALLED AT MIN. 1.0% SLOPE OR AS DIRECTED BY CONTRACT ADMINISTRATOR.
 - PIPE INSTALLED IN C.P.R. R.O.W. TO BE INSTALLED USING PIPE JACKING METHOD.
 - NO EXCAVATIONS ARE PERMITTED WITHIN THE C.P.R. R.O.W.
 - PIPE CROSSING IN C.P.R. R.O.W. TO BE CONSTRUCTED, MAINTAINED, AND OPERATED IN ACCORDANCE WITH TCE-10 STANDARDS.
 - WARNING SIGN TO BE INSTALLED NEAR PROPERTY LINES INDICATING BURIED UTILITY

PIPE SPECIFICATIONS	
CARRIER PIPE	O.D. 1118MM W.T. = 102MM
SPEC.	ASTM C76 - CL5 CONC.
DIRECTION OF FLOW	WEST TO EAST
MAX. WORKING PRESSURE	GRAVITY
MATERIAL TO BE CONVEYED	STORM SEWER
INSTALLATION METHOD	JACK/BORE



DISCHARGE PIPE DETAIL
N.T.S.

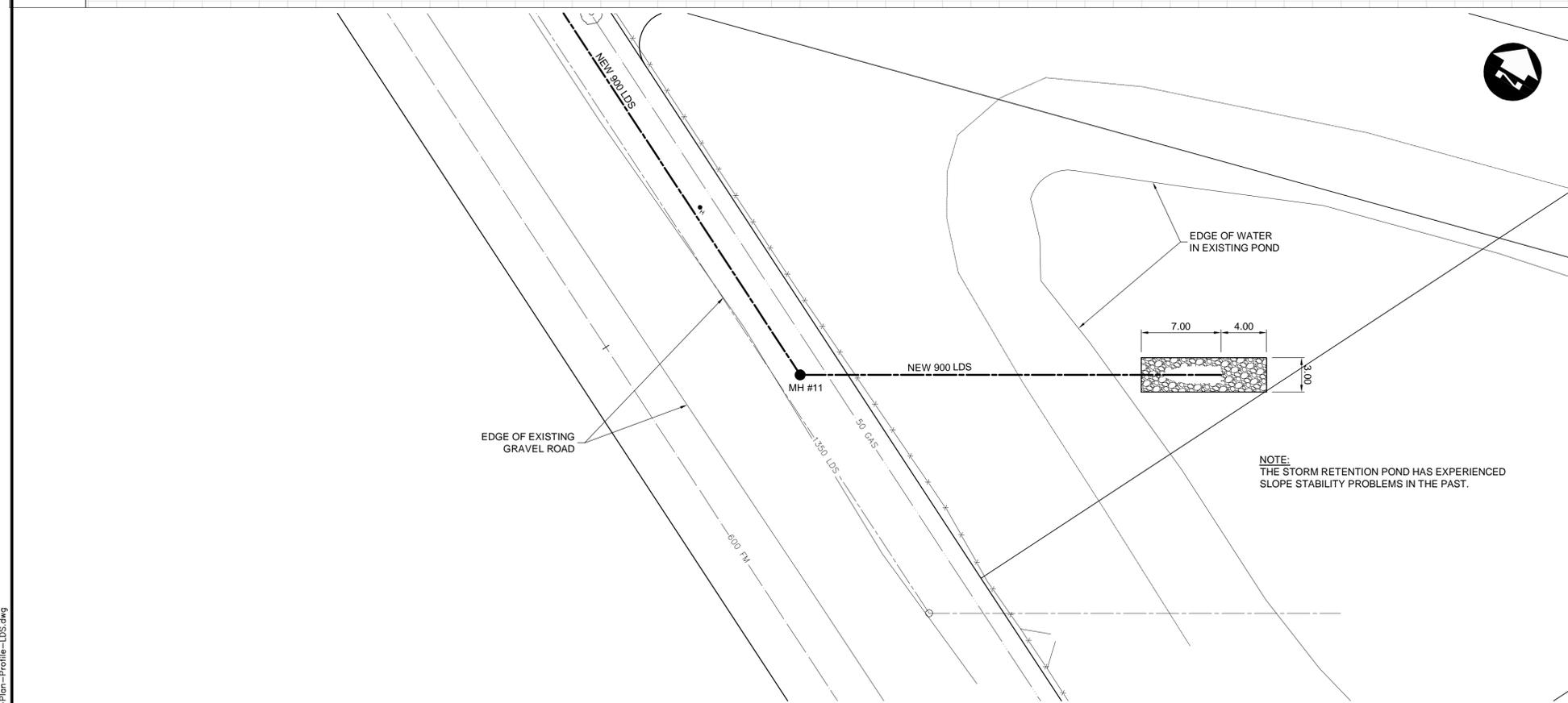
METRIC

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.



EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
150 WM	WATERMAIN	150 WM	HYDRO	HYDRO	HYDRO	150 WM	WATERMAIN	150 WM
HYDRANT	HYDRANT	MTS	M.T.S.	CONCRETE	MTS	HYDRANT	HYDRANT	VALVE
VALVE	VALVE	300 LDS	LAND DRAINAGE SEWER	ASPHALT	300 LDS	LAND DRAINAGE SEWER	LAND DRAINAGE SEWER	300 LDS
250 WWS	WASTE WATER SEWER	250 WWS	PLANING	PLANING	250 WWS	WASTE WATER SEWER	WASTE WATER SEWER	250 WWS
MANHOLE	MANHOLE	SIDEWALK	SIDEWALK	SIDEWALK	MANHOLE	MANHOLE	MANHOLE	MANHOLE
CATCH BASIN	CATCH BASIN	PAVING STONES	PAVING STONES	PAVING STONES	CATCH BASIN	CATCH BASIN	CATCH BASIN	CATCH BASIN
CURB INLET	CURB INLET	PARTIAL DEPTH REPAIR	PARTIAL DEPTH REPAIR	PARTIAL DEPTH REPAIR	CURB INLET	CURB INLET	CURB INLET	CURB INLET
JUNCTIONS	JUNCTIONS	PROPERTY LINE	PROPERTY LINE	PROPERTY LINE	JUNCTIONS	JUNCTIONS	JUNCTIONS	JUNCTIONS
CULVERT	CULVERT	DRAINAGE ARROW	DRAINAGE ARROW	DRAINAGE ARROW	CULVERT	CULVERT	CULVERT	CULVERT
100 GAS	GAS	100 GAS	CURB RAMP	CURB RAMP	100 GAS	GAS	GAS	GAS

UNDERGROUND STRUCTURES		B.M. ELEV.
SUPV. U/G STRUCTURES	DATE	
3	ISSUED FOR TENDER	12/16/13 JNC
2	ISSUED FOR REVIEW	07/22/13 JNC
1	ISSUED FOR REVIEW	06/21/13 JNC
NO.	REVISIONS	DATE BY

DESIGNED BY: WPN
DRAWN BY: TJH
CHECKED BY: JNC
APPROVED BY: DPK

RELEASSED FOR CONSTRUCTION

DATE: 12/16/2013

ENGINEER'S SEAL

PROVINCE OF MANITOBA
REGISTERED PROFESSIONAL ENGINEER
W.P. NAIRN
12/16/2013
Member 34277

CONSULTANT PROJECT NUMBER: 12-7055

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

PANET ROAD/MOLSON STREET
RECONSTRUCTION AND TWINNING

CITY DRAWING NUMBER: P-3350-39
SHEET OF: 39 OF 45
CONSULTANT DRAWING NUMBER

LDS - CALLSBECK (3 OF 3)

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