## DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
01	D-16299	COVER PAGE
02	D-16300	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
03	D-16308	PALMERSTON AVENUE – 26.0m WWL ARLINGTON STREET TO ARLINGTON STREET
04	D-16309	PALMERSTON AVENUE – ARLINGTON STREET TO 115.0m EEL ARLINGTON STREET
05	D-16310	PALMERSTON AVENUE - 115.0m EEL ARLINGTON STREET TO 3.5m WEL ETHELBERT STREET
06	D-16311	PALMERSTON AVENUE – 3.5m WEL ETHELBERT STREET TO 39.5m SSL WOLSELEY AVENUE
07	D-16312	PALMERSTON AVENUE - 39.5m SSL WOLSELEY AVENUE TO WOLSELEY AVENUE

## HATCH PATTERNS

EXISTING	PROPOSED
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DESCRIPTION
EARTH OR GROUND ABOVE PIPE
SAND OR OTHER FINE MATERIAL
CONCRETE
WASHED STONE OR GRANULAR MATERIAL
INTERLOCKING STONE
METAL

GRAVEL OR STONE

LOCATIC UNDERGRC
UPV. U/G STRUCTUF OMMITTEE
OTE:
LOCATION OF UND SHOWN ARE BASED

### **ABBREVIATIONS**

wws	WASTE WATER SEWER						
CS							
LDS	LAND DRAINAGE SEWER						
£	PROPERTY LINE						
¢ داد	CENTER LINE						
G.I.S.	GEOGRAPHIC INFORMATION SYSTEM						
B.M.	BENCH MARK						
TH	TEST HOLE						
ELEV	ELEVATION						
INV	INVERT						
MIN	MINIMUM						
MAX	MAXIMUM						
SL	STREET LIGHTING						
TS	TRAFFIC SIGNALS						
ABAND	ABANDONED						
BLDG	BUILDING						
HSE	HOUSE						
CRN	CORNER						
OPP	OPPOSITE						
C/S OR S/C	CURB STOP						
MTS	MANITOBA TELEPHONE SYSTEM						
R.O.W.	RIGHT-OF-WAY						
WM	WATERMAIN						
CULV	CULVERT						
MH	MANHOLE						
CB	CATCH BASIN						
CI	CURB INLET						
VERT.	VERTICAL						
HORZ.	HORIZONTAL						
I.B.	IRON BAR						
FIBRE	FIBRE OPTIC						
TYP	TYPICAL						
X—ING	CROSSING						
HYD	HYDRANT						
EXIST	EXISTING						
Ν	NORTH						
E	EAST						
S	SOUTH						
W	WEST						
W/	WITH						
C/W	CONSTRUCTED WITH						
CONC	CONCRETE						
AC	ASBESTOS CEMENT						
VC OR CLAY	VITRIFIED CLAY						
CI	CAST IRON						
DI	DUCTILE IRON						
PVC	POLYVINYL CHLORIDE						
HDPE	HIGH DENSITY POLYETHYLENE						
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE						

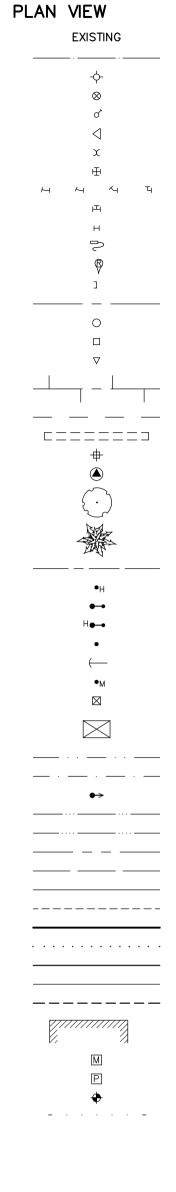
#### CONSTRUCTION NOTES

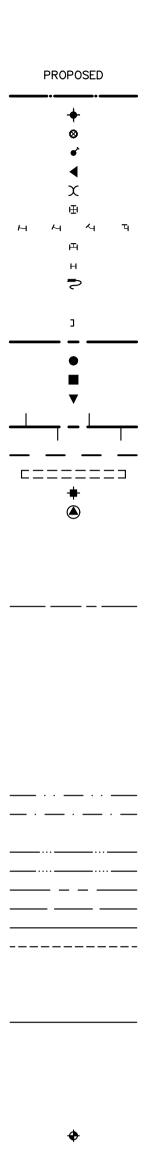
- 1. EXPOSE EXISTING WATERMAIN & CONFIRMED INVERTS PRIOR TO CONSTRUCTION.
- 2. LOCATION OF ALL SERVICES TO BE CONFIRMED IN THE FIELD.
- 3. INSTALL WATERMAIN BY TRENCHLESS METHODS.
- 4. TRENCHES AND EXCAVATIONS WITHIN 1 METRE OF A PAVED AREA INCLUDING SIDEWALKS SHALL BE CLASS 3 BACKFILL.
- 5. ALL MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- 6. MINIMUM COVER TO TOP OF WATERMAIN SHALL BE 2.4 m.
- 7. REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATERMAIN TO P.
- 8. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF WATER SHUTDOWNS OR DISRUPTION OF SERVICE.
- 9. CONTRACTOR TO MAINTAIN MINIMUM 1.0m CLEARANCE FROM TRAFFIC SIGNAL POLES AND CONTROLLERS WHERE POSSIBLE

LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. ELEV.			<b>\\</b> \])		1600 Buffalo Place Winnipeg, Manitoba R3T 6B8 Canada Phone: 204-477-6650		ENGINEER'S SEAL
SUPV. U/G STRUCTURES DATE							wsp.com		
COMMITTEE					DESIGNED BY	K.G.	CHECKED BY	S.M.	
NOTE:									-
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION					DRAWN BY	K.G.	APPROVED BY	S.M.	
AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN		ISSUED FOR TENDER	06/04/22	K.G.	SCALE:	RELEASED FOR		1	
LOCATIONS ARE EXACT. CONFIRMATION OF	В	DETAILED DESIGN SUBMISSION	01/04/22	K.G.	HORIZONTAL	1:250	CONSTRUCTION		CONSULTANT DRAWING NUMBER
EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL	А	PRELIMINARY DESIGN SUBMISSION	01/03/22	K.G.	VERTICAL	1:50			
UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	NO.	REVISIONS	DATE	ΒY	DATE 2022	04 06	DATE		221-01146-00-0
					PLOT DATE:	2022 04 06			BID OPPORTUNITY: 885-2022

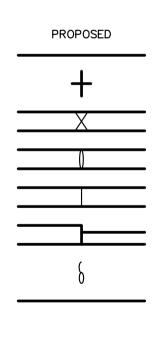
# <u>LEGEND</u>

DESCRIPTION
WATER PIPE
FIRE HYDRANT VALVE
CURB STOP
REDUCER
COUPLING OR SLIDDER
CROSS
BEND – 11.25°, 22.5°, 45°, 90°
TEE VERTICAL BEND
ANODE
REPAIR MARKER
PLUG
SEWER PIPE
MANHOLE CATCH BASIN
CURB INLET
JUNCTION
€ DITCH
CULVERT SURVEY BAR
SURVEY MONUMENT
TREE – DECIDUOUS
TREE - CONIFEROUS
HYDRO POLE LAMP STANDARD
HYDRO POLE W/STREET LIGHTING
POLE
GUY ANCHOR
M.T.S. POLE
PEDESTAL OR BOX
CABINET
M.T.S., SHAW, OR VIDEON
TRAFFIC SIGNALS
TRAFFIC LIGHT STANDARD
GAS STEAM
FIBRE OPTIC
FENCE
EDGE OF PAVEMENT OR GUTTER
EDGE UNPAVED OR GRAVEL ROAD
ዊ PROJECTED ዊ
LOT LINE
SIDEWALK - PATHWAY
EASEMENT
EDGE OF BUILDING
MAILBOX
PARKING METER
TEST HOLE
TREE LINE OR BUSH

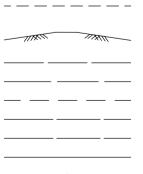




PROFILE DESCRIPTION EXISTING WATER PIPE \_\_\_\_\_ HYDRANT TOP + -----VALVE TEE OR CROSS \_ \_\_ \_\_V\_\_ \_\_ \_ — — — <sub>I</sub>— — — – COUPLING OR BEND \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_\_\_\_ REDUCER \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ END OF PIPE SEWER PIPE \_\_\_\_\_ UNPAVED GROUND SURFACE 1111 PAVED GROUND SURFACE – 🤤 PIPE GUTTER (NORTH AND WEST) GUTTER (SOUTH AND EAST) € DITCH (NORTH AND WEST) STRUCTURE



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MANHOLE OR CATCH BASIN

