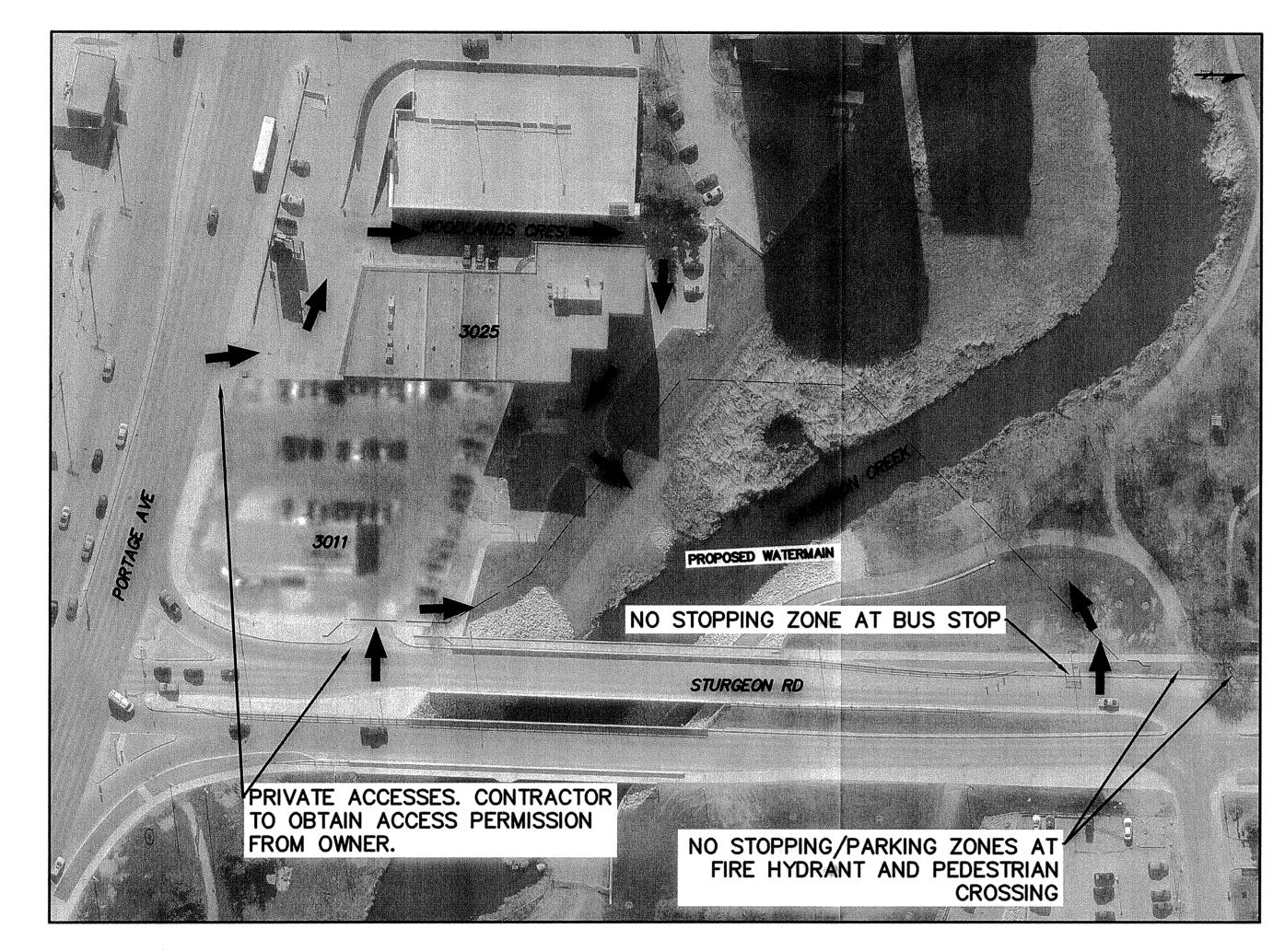
DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	D-13410	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
2	D-13411	STURGEON ROAD - GENERAL PLAN
3	D-13412	STURGEON ROAD - TEST HOLE LOCATIONS, PROFILES AND ROCKFILL SHEAR KEY
4	D-13413	STURGEON ROAD - 34.8m NNL OF PORTAGE AVENUE TO 141.1M NNL OF PORTAGE AVENUE
5	D-13414	STURGEON ROAD - 141.1M NNL OF PORTAGE AVENUE TO 119.1M SSL OF HALLONQUIST DRIVE



ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
PE	PROPERTY LINE
Ē.	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
мн	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
N	NORTH
Ε	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 P

LEGEND

	PLAN VIEW	
DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
FIRE HYDRANT	\(\rightarrow \)	
VALVE	\otimes	⊗
CURB STOP	ď	*
REDUCER		4
COUPLING OR SLIDDER CROSS	χ Φ	X
BEND - 11.25°, 22.5°, 45°, 90°	T H H H H	# H 4 4 .
TEE	 "	l ^{II} I
VERTICAL BEND	Н	н
ANODE	P	
REPAIR MARKER	₩	
PLUG	3	3
SEWER PIPE		appropriate and a second
MANHOLE CATCH BASIN	O	9
CURB INLET	. □	W
	1	▼
JUNCTION		***************************************
€ DITCH	 >>	>>> -
CULVERT	Service admini territori delle	
SURVEY BAR	- -	- 4 -
SURVEY MONUMENT	(A)	
TREE - DECIDUOUS	$\langle \cdot \rangle$	
	N.M	
TREE - CONIFEROUS		
HYDRO		
HYDRO POLE	*H	
LAMP STANDARD	⊕•	
HYDRO POLE W/STREET LIGHTING	H••	
POLE	•	
GUY ANCHOR	(
M.T.S. POLE	• M	
PEDESTAL OR BOX	\boxtimes	
CABINET		
H.E.C. CHAW OF METCH	Managemental	
M.T.S., SHAW, OR VIDEON TRAFFIC SIGNALS		thresh descriptions his a shaped and a supplementary as a supplementary as
TRAFFIC LIGHT STANDARD	ø ->	
GAS	manufacture ()) / manufacture ()) / sectors () / () / sectors () / ()	TOTO CONTRACTOR OF THE ACCUPANT AND ACCUPANT
STEAM		proprietable and a second statement of the second s
FIBRE OPTIC	debalance and constitution and the second se	Obstacles designation of the second of the s
FENCE		очесностического X останования X выполняющий и достанования и выполняющий и достанования и дост
EDGE OF PAVEMENT OR GUTTER		
EDGE UNPAVED OR GRAVEL ROAD	MAY RESULT MINING MINING MINING MINING MINING MINING MAKEN MAY MAY	MAN CHIPS MINER WINES WINES WHEN WHEN SHEET SANDS MANUAL WAS
PL .	**************************************	
PROJECTED &		
LOT LINE	afficient in a commission to company and company as a constant of community scale on the services of	
SIDEWALK - PATHWAY EASEMENT		of Action Process Control of State of State Control
EASEMENT	CONTRACT CON	
EDGE OF BUILDING		
MAILBOX	M	
PARKING METER	P	
TEST HOLE	↔	*
TREE LINE OR BUSH	~~~~	
	PROFILE	
DECODIDATION		DDAD CATT
DESCRIPTION	EXISTING	PROPOSED
WATER PIPE	Authorization of the annual content of the second content of the s	neiskidelikessättävänikkinkinkinkäänissättävistättävat ja kaitaininkinkisseesi E
HYDRANT TOP	. month manua	****
VALVE		
VALVE		
TEE OR CROSS		
COUPLING OR BEND		
REDUCER		
	and the second s	
END OF PIPE	8	8
SEWER PIPE		
UNPAVED GROUND SURFACE		
PAVED GROUND SURFACE - @ PIPE	XX	
GUTTER (NORTH AND WEST)		
GUTTER (SOUTH AND EAST)	······································	
© DITCH (NORTH AND WEST)		
♠ DITCH (SOUTH AND EAST)		

SITE ACCESS PLAN SCALE 1750

HATCH PATTERNS

EXISTING	PROPOSED	DESCRIPTION				
		EARTH OR GROUND ABOVE PIPE				
		SAND OR OTHER FINE MATERIAL				
D D		CONCRETE				
		WASHED STONE OR GRANULAR MATERIAL				
		INTERLOCKING STONE				
		NOTE: ALL MALV				

METAL

GRAVEL OR STONE

NOTE: ALL VALVES TO BE INSTALLED COUNTERCLOCKWISE TO CLOSE



CONSTRUCTION NOTES

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING SURFACE AND UNDERGROUND STRUCTURES THAT MAY AFFECT THE WORK AND MAY BE DAMAGED DURING CONSTRUCTION.

 2. ALL EXISTING SURFACE AND UNDERGROUND STRUCTURES MAY NOT BE SHOWN IN THE DRAWINGS.

 3. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND CONFIRM THE ELEVATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION

 4. INSTALL WATERMAIN BY TRENCHLESS METHODS.

 5. TRENCHES AND EXCAVATIONS WITHIN 1 0mg OF A PRAVED APEA INCLUDING SIDEWALKS SHALL BE
- 5. TRENCHES AND EXCAVATIONS WITHIN 1.0m OF A PAVED AREA, INCLUDING SIDEWALKS, SHALL BE CLASS 3 BACKFILL.
- 6. MINIMUM COVER TO TOP OF WATERMAIN SHALL BE 2.4m OR AS INDICATED ON THE DRAWINGS.
 7. CONTRACTOR TO MAINTAIN AND REPAIR ACCESS TRAIL THROUGHOUT CONSTRUCTION AND RESTORE
- TRAIL AND ACCESSES TO PRE—CONSTRUCTION CONDITION AT THE COMPLETION OF THE PROJECT.

 8. CONTRACTOR TO PROVIDE TRAFFIC CONTROL AS REQUIRED WHEN ENTERING OF LEAVING CONSTRUCTION SITE TO AND FROM PORTAGE AVE OR STURGEON ROAD.

 9. CONTRACTOR TO NOTIFY ALL AFFECTED OF SEPACE
- AND WATER SHUTDOWN OR DISRUPTION OF SERVICE.

 10. ALL MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION
- 11. REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATERMAIN TO P.

LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. CWBM 39-044 ELEV. 233.848 CONSTRUCTION COMPLETION DATE: YYYY MM DD				We	1600 BUFFALO PLACE WINNIPEG, MB, R3T 6B8 PHONE: 204-477-6650	
						IWI	FAX:	E: 204-477-6650 204-474-2864
SUPV. U/G STRUCTURES DATE							WWW	WSPGROUP.COM
COMMITTEE		······································			DESIGNED BY	K.G.	CHECKED BY	S.M.
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.					DRAWN BY K.G.		APPROVED BY	I.McK.
		BID OPPORTUNITY 781-2016	08/2016	R.H.	SCALE: HORIZONTAL 1: 250 VERTICAL 1: 50		RELEASED FOR CONSTRUCTION	
		BID OPPORTUNITY 152-2016	02/2016	K.G.				
		DESIGN REVIEW BY W&W	02/2015	K.G.				
		REVISIONS	DATE	BY	DATE 20	16 08 30	DATE	
					PLOT DATE:	2016 08 30		

ENGINEER'S SEAL

Winnipeg

€ DITCH (SOUTH AND EAST)

STRUCTURE

MANHOLE OR CATCH BASIN

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION

2015 WATER RENEWALS

INDEX PAGE

CITY DRAWING NUMBER D-13410SHEET 1 OF 5 FILE PATH: L:\Projects\2015\151-00351-00 Watermain Renewals - Contract 8\03 DWGS\05 Civil\02 Working Dwgs\STURGEON\FILE NAME: INDEX_STURGEON.dwg

BID OPPORTUNITY: 441-2015 CONTRACT NUMBER: 8B

151-00351-00-01

CONSULTANT DRAWING NUMBER