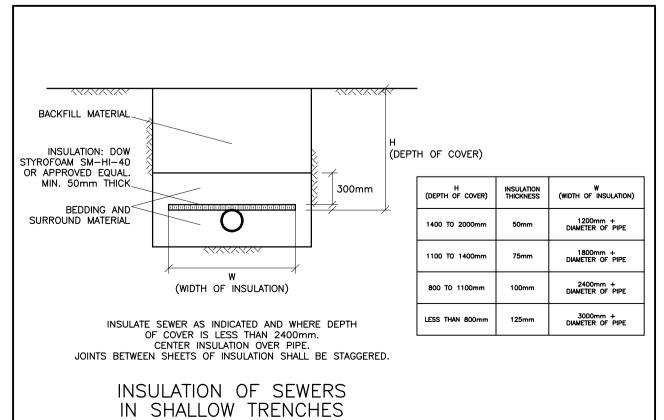
PERMEABLE PAVERS: CONCRETE CURB UNILOCK ECO-PRIORA OR APPROVED EQUAL; SHALL BE INTERLOCKING AND SHALL MEET THE MINIMUM OR DEPRESSED CURB (D.C.) WHERE INDICATED MATERIAL AND PHYSICAL PROPERTIES SET FORTH IN CAN 3-A231.2, STANDARD SPECIFICATION FOR PRECAST (WHERE NO CURB: EDGE GEOTEXTILE JOINT FILLING AGGREGATE CONCRETE PAVERS; RESTRAINT AS RECOMMENDED FABRIC OVER MINIMUM 60 mm PAVER THICKNESS FOR PEDESTRIAN BY PAVER MANUFACTURER) TRI-AXIAL GEOGRID APPLICATIONS: MINIMUM 80 mm PAVER; AND PERMEABLE JOINT WIDTHS SHALL NOT BE GREATER THAN 15 mm. JOINT FILLING AGGREGATE & 25 mm BEDDING COURSE; - SHALL MEET ASTM NO. 8 (5 mm DIA.) CLEAR (OPEN-GRADED) CRUSHED AGGREGATE. BEDDING COURSE GRANULAR BASE: CLEAR CRUSHED 20 mm DIAMETER STONE CONFORMING TO 150mm ASTM C 33 NO 57; AND MINIMUM 150 mm THICKNESS. GRANULAR SUBBASE: - CLEAR (OPEN GRADED) CRUSHED STONE 50 MM DIAMETER STONE GRADED IN ACCORDANCE WITH ASTM D 2940; OR 300mm SUB-BASE OPSS GRANULAR O: AND MINIMUM 450 mm THICKNESS. ALL AGGREGATES SHALL MEET THE FOLLOWING CRITERIA: ` GEOTEXTILE MAXIMUM WASH LOSS OF 0.5%; MINIMUM DURABILITY INDEX OF 35; AND MAXIMUM ABRASION OF 10% FOR 100 REVOLUTIONS AND TRI-AXIAL GEOGRID MAXIMUM OF 50% FOR 500 REVOLUTIONS. OVER GEOTEXTILE EDGE RESTRAINT: TRI-AXIAL GEOGRID - A CONCRETE CURB FOR VEHICLE APPLICATIONS. EVERY 150 mm GEOTEXTILE FABRIC: - WOVEN MONOFILAMENT OR NON-WOVEN NEEDLE PUNCHED SHALL MEET OPSS 1860 FOR CLASS II GEOTEXTILE FABRICS. SUBGRADE: REMOVE ALL MATERIALS TO THE SUB-GRADE LEVEL. REMOVE DO NOT COMPACT. ORGANIC OR UNSUITABLE MATERIAL FROM SUB-GRADE WHERE - SCARIFY SUBGRADE IF THE UNDERLYING SOIL HAS AN ENCOUNTERED. FILL OVER-EXCAVATED SUB-GRADE WITH SUB-BASE INFILTRATION RATE OF LESS THAN 15 mm/hr. MATERIAL. SUB-GRADE TO BE FREE FROM DEBRIS, SNOW, ICE, WATER AND FROZEN GROUND. COMPACT SUB-GRADE TO 95%. PERFORATED SUBDRAIN: - 100 mm DIAMETER, PERFORATED SUB-DRAINS; HDPE C/W FILTER FABRIC SOCK (BOSS 2000 OR APPROVED EQUAL). LOCATE NEAR THE BOTTOM OF THE SUB-BASE LAYER. PERMEABLE PAVERS TRI-AXIAL GEOGRID, UNILOCK DRIVE GRID OR APPROVED EQUAL. - AT SUB-GRADE LEVEL, EVERY 150 mm IN SUB-BASE, BETWEEN BASE AND SUB-BASE LAYER AND TOP OF BASE N.T.S

BACKFILL MATERIAL INSULATION: DOW STYROFOAM SM-HI-40 OR APPROVED EQUAL. MIN. 50mm THICK (DEPTH OF COVER MIN. 1200mm) 300mm (WIDTH OF INSULATION) (DEPTH OF COVER) BEDDING AND $^<$ SURROUND MATERIAL 10Òmm 1800 TO 2400mm 1200mm 1500 TO 1800mm 1800mm 1200 TO 1500mm 100mm (WIDTH OF INSULATION) INSULATE WATERMAIN AS INDICATED AND WHERE DEPTH OF COVER IS LESS THAN 2400mm. PROVIDE A MINIMUM 1200mm COVER. JOINTS BETWEEN SHEETS OF INSULATION SHALL BE STAGGERED. INSULATION OF WATERMAINS & WATER SERVICE CONNECTIONS IN SHALLOW TRENCHES N.T.S



N.T.S

WATER SERVICE PROFILE TABLE

MATERIAL: 150mm PVC PRESSURE CLASS 150 DR18

	STATION	DESCRIPTION	GRADE ELEVATION	TOP OF PIPE	DEPTH OF COVER	NOTES
	A+00.0	150mm x 150mm TEE CONNECTION IN 150mm MUNICIPAL WATERMAIN TO CITY OF OTTAWA STANDARDS	±93.15	±90.95	±2.20	START OF 50mm THICK, 1200mm WIDE INSULATION
	A+01.0	11.25° VERTICAL BEND DOWN TO CITY OF OTTAWA STANDARDS	±93.18	±90.95	±2.23	1
	A+02.7	11.25° VERTICAL BEND UP TO CITY OF OTTAWA STANDARDS	±93.16	90.61	2.55	END OF 50mm THICK, 1200mm WIDE INSULATION
	A+07.4	_	±93.01	90.61	2.40	BOTTOM OF CURB
	A+08.0	_	93.08	90.61	2.47	CROSSING 525 ST INV 92.25 WM TOP 90.61 — 1640mm CLEARANCE (MIN. 500mm REQ'D)
	A+11.3	150mm VALVE & VALVE BOX TO CITY OF OTTAWA STANDARDS	93.22	90.61	2.61	ON PROPERTY LINE
	A+11.8 B+00.0	150mm x 150mm TEE (TO FIRE HYDRANT) TO CITY OF OTTAWA STANDARDS	93.25	90.61	2.64	I
	A+13.8		94.21	90.61	3.60	ENTRY INTO BUILDING
	B+00.0 A+11.8	150mm x 150mm TEE (TO FIRE HYDRANT) TO CITY OF OTTAWA STANDARDS	93.23	90.61	2.62	I
	B+3.7	150mm VALVE & VALVE BOX TO CITY OF OTTAWA STANDARDS	93.14	90.61	2.53	_
	B+11.8	FIRE HYDRANT TO CITY OF OTTAWA STANDARDS	93.18	90.61	2.57	_

CATCH BASIN SCHEDULE

(SUBMIT SHOP DRAWINGS OF ALL CATCH BASINS & MANHOLES TO ENGINEER FOR APPROVAL)

TYPE

SIZE

INVERT AT

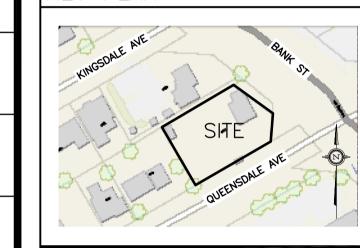
INLET

INVERT AT

OUTLET

							I —
STORM SEWER						Dra	
CB/MH-1	92.32	CDS PMSU2015-4	PRECAST CONCRETE CATCH—BASIN/MANHOLE	_	90.07	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS EXCEPT WITH A DEEP SUMP AS REQUIRED BY CDS — FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010	En
MH-2	92.91	1200mm	PRECAST CONCRETE MANHOLE	89.99(NW)	89.99(NE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS — FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010	

KEY PLAN



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		2	DEC 2-24	RE-ISSUED FOR APPROVAL
		1	APR 26-24	ISSUED FOR APPROVAL
		No.	DATE	REVISION
	•			

D. B. GRAY ENGINEERING INC.

Stormwater Management - Grading & Drainage - Storm & Sanitary Sewers - Watermains

700 Long Point Circle 613-425-8044
Ottawa, Ontario d.gray@dbgrayengineering.com

Project

PROPOSED 4—STOREY
APARTMENT BUILDING
2928 BANK STREET
OTTAWA, ONTARIO

Drawing Title

NOTES

DETAILS & SCHEDULES

