

GENERAL NOTES

- 1 ALL WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- ALL WORK AND MATERIALS TO CONFORM WITH CURRENT MINISTRY OF THE ENVIRONMENT & ENERGY OF ONTARIO, CITY OF OTTAWA AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS, LOCAL UTILITY STANDARDS AND MINISTRY OF TRANSPORTATION STANDARDS WILL APPLY WHERE REQUIRED.
- 3 THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND COORDINATION WITH ALL OTHER CONTRACTORS AND PREVENT CONSTRUCTION CONFLICTS.
- 4 THE INFORMATION SHOWN FOR EXISTING UTILITIES WAS PROVIDED BY OTHERS, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED AND VERIFIED BY EACH UTILITY PRIOR TO COMMENCEMENT OF WORK, ANY VARIANCE IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER, LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTORS EXPENSE.
- 5 ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL
- 6 THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND TO BEAR THE COST OF SAME INCLUDING WATER PERMIT AND ASSOCIATED COSTS.
- ALL DISTURBED AREAS SHALL BE REINSTATED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION. THE ENGINEER AND THE CITY. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH OPSD 509.010 AND OPSS 310.
- 8 BENCHMARKS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SITE BENCHMARK(S) HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON DRAWING
- 9 THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER 1 (ONE) SET OF AS CONSTRUCTED SITE SERVICING, GRADING, AND SITE
- 10 EXISTING STORM AND SANITARY SERVICE LATERALS TO BE ABANDONED PER \$11.4. EXISTING WATER SERVICE TO BE BLANKED AT

<u>WATERMAINS</u>

THE MAIN.

- 1. ALL WATERMAINS, WATER SERVICES, CONNECTIONS AND APPURTENANCES AS PER CITY OF OTTAWA STANDARDS. THE CONTRACTOR SHALL CO-ORDINATE AND PAY ALL RELATED COSTS INCLUDING THE COST OF CONNECTION, INSPECTION AND DISINFECTION BY CITY OF OTTAWA PERSONNEL. WATERMAIN TRENCH TO BE IN ACCORDANCE WITH CITY OF OTTAWA W17.
- 2. WATER SERVICES ARE TO BE TYPE K SOFT COPPER AS PER CITY OF OTTAWA STANDARD W26 (UNLESS OTHERWISE NOTED). WATER SERVICE TO EXTEND TO 1.0M FROM BUILDING FACE. STAND POST TO BE INSTALLED AT PROPERTY LINE.
- 3. ALL WATERMAINS SHALL HAVE MIN. COVER OF 2.4m. WATERMAINS ARE TO BE INSTALLED TO THE ELEVATIONS SHOWN ON THE APPROVED SITE SERVICING DRAWING. WHERE SPECIFIC WATERMAIN ELEVATIONS ARE NOT SHOWN ON SERVICING DRAWING, A MINIMUM COVER OF 2.4m FROM PROPOSED GRADES, AS SHOWN ON THE GRADING PLAN, MUST BE MAINTAINED AT ALL TIMES. IN PREGRADE AREAS COVER TO BE FROM PREGRADED ELEVATIONS.
- 4. ALL WATERMAIN BENDS, JOINTS, TEES AND PLUGS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
- 5. WATERMAINS MUST COMPLY WITH MINIMUM HORIZONTAL AND VERTICAL CLEARANCES IN ACCORDANCE WITH LOCAL PROVINCIAL GUIDELINES AND THE APPLICABLE BUILDING AND PLUMBING CODE. WHERE HORIZONTAL SEPARATIONS CANNOT BE ACHIEVED, APPROVAL FROM THE ENGINEER MUST BE OBTAINED AND A MINIMUM 500mm VERTICAL SEPARATION MUST BE
- 6. ALL WATERMAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES UNLESS OTHERWISE DIRECTED. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED.
- 7. ALL WATERMAINS SHALL BE BACTERIOLOGICAL TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES. ALL CHLORINATED WATER TO BE DISCHARGED AND PRETREATED TO ACCEPTABLE LEVELS PRIOR TO DISCHARGE. ALL DISCHARGED WATER MUST BE CONTROLLED AND TREATED SO AS NOT TO ADVERSELY EFFECT THE ENVIRONMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MUNICIPAL AND/OR PROVINCIAL REQUIREMENTS ARE FOLLOWED.
- 8. CATHODIC PROTECTION PER CITY OF OTTAWA W40 AND W42.
- 9. EXISTING RESIDENTIAL WATER SERVICES TO BE BLANKED AT THE MAIN BY CITY FORCES.
- STORM AND SANITARY SEWERS
- 1. SEWER TRENCH SHALL CONSIST OF CLASS 'B' BEDDING PER CITY OF OTTAWA STANDARDS S6 AND S7. COMPACTION SHALL BE A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
- 2. FOR CONSTRUCTION DETAILS NOT SHOWN ON PLANS, REFERENCE SHALL BE MADE TO THE ONTARIO PROVINCIAL STANDARDS DRAWINGS AND CITY OF OTTAWA STANDARDS.
- 3. SERVICES TO BUILDINGS TO BE TERMINATED 1.0m FROM THE FACE OF BUILDING UNLESS OTHERWISE NOTED.
- 4. LASER ALIGNMENT CONTROL TO BE UTILIZED ON ALL SEWER INSTALLATIONS.
- 5. FROST PROTECTION PER CITY OF OTTAWA STANDARD DRAWING W22 WHERE THERE IS LESS THAN 1.5m OF COVER ABOVE THE SEWER SERVICES.
- 6. CONTRACTOR SHALL PERFORM LEAKAGE TESTING, IN THE PRESENCE OF THE CONSULTANT, FOR SANITARY SEWERS IN ACCORDANCE WITH OPSS 410 AND OPSS 407. A COPY OF THE INSPECTION REPORT SHALL BE SUBMITTED TO THE CONSULTANT
- 8. STORM AND SANITARY SERVICE CONNECTION AS PER CITY STD S11.

SEWER AND WATERMAIN CROSSING TABLE								
CROSSING	COMB. INV	СОМВ. ОВУ	WTR TOP	WTR BTM	NOTES			
1	65.79	66.09	68.09	68.04				

CONTRACTOR TO VERIFY EXISTING SEWER ELEVATIONS PRIOR TO INSTALLATION OF SERVICES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONTINUING WITH CONSTRUCTION.

SCHEDULE OF ROOF RELEASE RATES						
BUILDING	DRAIN TYPE	# DRAINS	100YR Head (m)	100YR RELEASE RATE (L/s)		
BLDG	WATTS ACCUFLOW	1	0.15	0.93		



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Legend	
	PROPOSED WATERMAIN
M	PROPOSED VALVE AND VALVE BOX
M	PROPOSED WATER METER
RM	PROPOSED REMOTE WATER METER
	PROPOSED SANITARY SEWER
— — —	PROPOSED STORM SEWER
	PROPOSED CATCHBASIN
	existing watermain
	EXISTING VALVE CHAMBER
-	EXISTING FIRE HYDRANT
	EXISTING COMBINED SEWER
	EXISTING CATCHBASIN
—— OHW ——— OHW ——	EXISTING OVERHEAD WIRE
G	existing gas underground
——— в ———	EXISTING BELL UNDERGROUND

EXISTING STORM AND SANITARY SERVICES TO BE ABANDONED AS PER \$11.4 IF NOT PART OF DEMOLITION CONTRACT.

EXISTING ROGERS UNDERGROUND

- EXISTING WATER SERVICES TO BE BLANKED AT MAIN IF NOT PART OF DEMOLITION
- SERVICE CONNECTION TO EXISTING WATERMAIN TO BE COMPLETED BY CITY FORCES, EXCAVATION, BACKFILL AND RE-INSTATEMENT BY CONTRACTOR.
- TOPOGRAPHICAL PLAN OF SURVEY, LOT 9 AND 11, REGISTERED PLAN 47389, CITY OF OTTAWA AND BENCHMARK COMPLETED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. DATED
- SITE PLAN PREPARED BY SUSAN D. SMITH ARCHITECT DATED FEBRUARY 11, 2019.
- GEOTECHNICAL REPORT PREPARED BY GEMTEC DATED JANUARY 23, 2019.

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Permit-Seal				

Client/Project

Project No.

ART CONSTRUCTION 2472 Wyndale Crescent

3 STOREY APARTMENT 13 MONK STREET OTTAWA, ONTARIO

SITE SERVICING PLAN

Drawing No.

ORIGINAL SHEET - ARCH D

CUT ARROW

INTERLOCK

2 STOREY

WOOD SIDED ADDITION

2 1/2 STORFY BRICK SEMI-DETACHED DWELLING

COVERED PORCH

EX. 64.87m - 300mmØ (CLAY) COMBINED SEWER @ $2.0\% \pm$

MONK STREET

APPROXIMATE C/L OF ROAD

2.2m-200mmØ STORM CONNECTION @ 1.0% MIN. \vdash

TO INTERNAL PLUMBING C/W FULL PORT

50mm insulation as

1.7m-375mmØ BOSS 2000 HDPE PIPE — @ 0.10% c/w WATERTIGHT FITTINGS

SUBJECT TO A 2.13

100YR RELEASE RATE=1.38L/s

INV @ CONNECTION = 65.77

TOP OF FOUNDATION ELEVATION = 71.34

E INV = 68.80

W INV = 68.75

9.4m-200mmØ STM @ 1.0% MIN |-

ROAD CUT AS PER CITY OF -Ottawa Standard Detail R10.

EX. 300mm COMB.

SPRINGLINE=65.87

EX. 300mm COMB. —

INV.=65.72

RIGHT-OF-WAY AS

IN INST. CR550977

PER CITY STD W22

E INV = 68.82

BACKWATER VALVE

INTERLOCK

N INV=68.91

S INV=68.93

CONCRETE ,

EXTENT OF —

GRASS

CONTRACTOR TO LOCATE EXISTING SERVICES AND ANY

TOP OF FIRE HYDRANT SPINDLE

EELVATION=71.63

CONFLICTS WITH EXISTING SERVICING MUST BE REPORTED TO THE ENGINEER PRIOR TO CONTINUING WITH CONSTRUCTION.

BALCONY ABOVE.

13 MONK ST.

3 STOREY APARTMENT BUILDING

FFE=72.28

TOF=71.92

USF=68.80

10.8m-100mmØ STM

VALVE AS PER S14 INV @ BLDG =68.30

T/W @ BLDG=68.32

M INV. @ CONNECTION=65.95

SERVICE @ 1.00% MIN.

(FOR FOUNDATION DRAIN)

C/W FULL PORT BACKWATER

INV @ CONNECTION =65.93

TVS CONNECTION TO EXISTING 150mmØ

WATERMAIN. CONNECTION BY CITY

15.0m-50mmØ PEX WATER SERVICE.

CONNECTION TOP OF MAIN=±68.05

10.8m-150mmØ SAN SERVICE @ 1.00% MIN. C/W FULL PORT BACKWATER VALVE AS PER S14.1

EXTENT OF CANOPY

— EX. 300mm COMB

SPRINGLINE=65.9

SEWERS CONNECT TO MAIN AS PER CITY STANDARD S11.

INV.=65.80

FORCES, EXCAVATION, BACKFILL, AND

ENCLOSURE

(AOG)

7//////

'ATION = 70.69'

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BALCONY