

- EXISTING SERVICES AND UTILITIES SHOWN ON THIS DRAWING WERE TAKEN FROM THE BEST AVAILABLE RECORDS. CONTRACTOR IS REQUESTED TO CHECK IN THE FIELD FOR LOCATION AND ELEVATION OF PIPES AND CHECK WITH AUTHORITIES AND UTILITIES TO HIS SATISFACTION BEFORE DIGGING.
- 2. CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS AS DEEMED NECESSARY.
- PROPOSED SITING DETAILS FOR THIS PROPOSED BUILDING WERE TAKEN FROM THE SITE PLAN PREPARED BY "ROSSMANN ARCHITECTURE".
- 4. EXISTING HORIZONTAL AND VERTICAL SURVEY DATA SHOWN ON THIS PLAN INCLUDING SITE BENCHMARK, ROAD ELEVATIONS AND THE TOPOGRAPHICAL INFORMATION OF THE LOT SHOWN WERE PROVIDED BY 'ANNIS, D'SULLIVAN, VOLLEBEKK LTD" (MARCH 31,2020) AND ARCH-NOVA DESIGN INC. IS NOT RESPONSIBLE FOR THE
- 5. ALL SERVICES INFORMATION WERE PROVIDED BY THE CITY OF OTTAWA AND ARCH-NOVA IS NOT RESPONSIBLE FOR THE ACCURACY OF PLANS AND INFORMATION. CONTRACTOR IS ADVISED TO CHECK ACCURACY ON THE SITE AND CONFIRM WITH THE CITY STAFF BEFORE ANY WORK ON THE SITE. 6. ALL GRADING SHALL BE DONE TO THE SATISFACTION OF THE CITY OF OTTAWA.
- 7. ALL GRADES SHOWN ARE METRIC. EXISTING AND PROPOSED GRADES SHOWN ON THIS DRAWING ARE BASED ON A GEODETIC BENCHMARK PROVIDED BY "'ANNIS, O'SULLIVAN, VOLLEBEKK LTD" (MARCH 31,2020) AS SHOWN ON
- 8. USE SADDLE CONNECTIONS WITH CORP STOPS FOR THE 50 MM WATER SERVICES.
- 9. CONSTRUCT ALL SANITARY PIPES IN ACCORDANCE WITH CITY OF OTTAWA'S LATEST REVISED STANDARDS
- OTHERWISE AS PER OPSS AND OPSD SPECIFICATIONS. 10. ALL WORKS CONSTRUCTED BY THE CONTRACTOR SHALL MEET CITY OF OTTAWA'S CURRENT ENGINEERS'
- STANDARDS AND PER CITY'S REQUIREMENTS.
- 11. THE CONTRACTOR SHALL CONSTRUCT AND ENSURE THAT THE 100 mm WATER SERVICES ON THIS LOT SHALL HAVE A MINIMUM OF 2.4m OF GROUND COVER; OTHERWISE THERMAL INSULATION IS REQUIRED AS PER CITY SPECIFICATIONS W 21, W 22 AND W 23. THE WATER SERVICE INSTALLATION SHALL BE STEEL PIPE AND CONSTRUCTED IN ACCORDANCE WITH STD DWG W26.
- 12. IF WATER SERVICE IS LESS THAN 0.3 m FROM SEWER, MANHOLE OR CATCH BASIN, CONTRACTOR IS REQUESTED TO INSULATE BETWEEN THEM WITH S/M RIGID INSULATION (AS PER CITY DETAIL W-23).
- 13. ALL WATERMAIN SERVICE AND FITTINGS SHALL CONFORM TO APPROVED AWWA AND/OR CSA STANDARDS. 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS TO COMPLETE THE WOPK.
- 15. WATER SERVICES CONNECTION ON MCARTHUR AVENUE SHALL BE DONE BY THE CITY. EXCAVATION,
- BACKFILLING AND REINSTATEMENTS BY CONTRACTOR.
- 16. THE DWNER AND/OR HIS CONTRACTOR SHALL CONTACT ALL THE UTILITY COMPANIES REGARDING RELOCATION REQUIREMENTS FOR ANY EXISTING OVERHEAD UTILITY POLE.
- 17. WATER SERVICE AND WATERMAIN TRENCH DETAILS AS PER CITY W-17 DETAIL 18. PROPOSED SANITARY SERVICES LATERAL SHALL BE PVC-SDR28 OR EQUIVALENT AND CONNECTION TO THE EXISTING SEWER SHALL BE AS PER CITY OF OTTAWA DWG. S11. SEWER TRENCH DETAILS AS PER STD DWG S6
- & S7. CONNECT TO CITY SEWER PIPES USING SADDLE SEWER TRENCH DETAILS AS PERR STD DWG S6 & S7, SADDLE CONNECTIONS (MAX 300 MM), MANUFACTURED "T" CONNECTIONS OR FOR LARGE DIAMETERS NEW
- 19. SANITARY AND STORM SEWER SERVICES BENDS AND RISERS USED MUST BE CONSTRUCTED TO THE CITY'S 20. DETAILS OF THE EXISTING SEWERS AND WATER AIN SHOWN ON MCARTHUR AVENUE PLANS OBTAINED FROM THE CITY MAY NOT BE CURRENT. THE CONTRACTOR SHALL REFER TO THE CITY'S SEWER AND WATERMAIN DRAWINGS FOR DETAILS. CONTRACTOR IS ADVISED TO EXCAVATE AND INVESTIGATE THE SEWER ELEVATIONS IN FRONT
- ACHIEVED USING THE PROPOSEL UNLESSIDE OF CONCRETE FOOTINGS ELEVATIONS, IF 1.5% (MIN.) SLOPE IS NOT POSSIBLE FROM THE HOUSE TO THE SEWER THEN THE CONTRACTOR SHOULD INFORM THE OWNER'S PROJECT MANAGER AND THE CITY ACCORDINGLY FOR FURTHER DIRECTION.

OF THIS PROPERTY FIRST TO ENSIJE THAT 1.5% (MIN.) PIPE SLOPE OF THE SANITARY LATERAL CAN BE

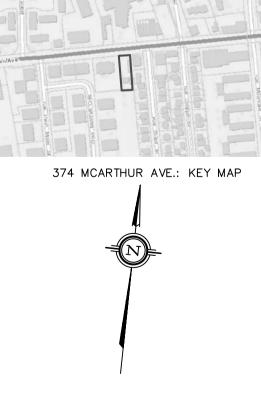
21. FOR DEVELOPMENT OF THIS LOT, THE CONTRACTOR MUST CONSTRUCT THE UNDERGROUND SANITARY AND WATER

- SERVICES FROM SEWER AND WATERMAIN TO THE PROPERTY FIRSTLY, PRIOR TO HOUSE CONCRETE FOUNDATION 22. IF THE DEPTH FROM UNDERSIDE OF HOUSE CONCRETE FOOTING TO PROPOSED FINISHED GROUND ELVATION IS LESS THAN 1.8 M IT IS RECOMMENDED THAT INSULATION (500 mm TICK) MINIMUM BE INSTALLED AT THE BUILDING'S FOOTING AND FOUNDATION OF THE HOUSE TO PROVIDE SUFFICIENT FROST COVER FOR THE FOUNDATION STRUCTURES. THE FOOTINGS WILL NEED TO BE REVIEWED FOR INSULATION BY THE OWNER'S
- SDILS ENGINEER. EXACT INSULATION REQUIREMENTS SHALL BE AS PER ARCHITECT'S INSULATION DETAILS AS SHOWN ON THEIR ARCHITECTURAL DRAWINGS AND CONFIRMED BY THE OWNER'S SITE SOILS ENGINEER. 23. WATER SERVICE LINES AS PER STD.DWG W26.
- 24. BLANK WATER SERVICES AT CITY WATERMAIN BY THE CITY CREW. 25. EXISTING SEWERS TO BE CAPPED AT THE PROPERTY LINE TO THE SATISFACTION OF CITY'S SEWER
- OPERATIONS

BICYCLE LINE.

- 26. BACKWATER VALVES WILL BE USED ON SERVICES PER SC14, SC14.1 AND SC14.2 27. ASPHALT AND GRAVEL SURFACES TO BE CLEARED AND REPLACED WITH SOFT LANDSCAPING AS SHOWN ON
- ARCHITECTURAL AND LANDSCAPING PLANS. 28 ALL SERVICE LATERALS UNDER THE BUILDING FOOTINGS TO BE SLEEVED IF THE PIPE IS LESS THAN 0.3 M
- BELOW THE FOOTING. 29. PROPOSED SANITARY AND STORMWATER SERVICES LATERALS SHALL BE PVC-SDR28 OR EQUIVALENT AND
- CONNECTIONS TO THE EXISTING CITY SYSTEM SHALL BE AS PER CITY OF OTTAWA DWG.S11. SEWER TRENCH DETAILS AS PER STD DWG S6 & S7.
- 30. ALL PROPOSED STORM PIPES WITH OBVERT LESS THAN 2.0 M BELOW THE SURFACE ARE TO BE INSULATED FOR FROST PROTECTION.
- 31. ROOF DRAINS TO BE MANUFACTURED OR SELECTED BY CONTRACTOR AND PRESENTED TO ENGINEER FOR ACCEPTANCE, ROOF DRAINS SHOULD PROVIDE REQUIRED OUTFLOW FROM THE ROOF STORAGE, SEE DETAIL 2. 32. A ROOF TYPE DRAIN TO BE INSTALLED AT REAR OF THE BUILDING INTO THE CEILING OF THE UNDERGROUND GARAGE. THE LATERAL TO BE INSTALLED UNDER THE CEILING OF THE GARAGE TOWARD THE FRONT AND
- CONNECT TO THE STORMWATER LATERAL. 33. EXISTING REMOVABLE BICYCLE CURB TO BE RELOCATED IN ACCORDANCE WITH THE CITY'S PLANS FOR THE

LEGEND 56.63 PROPOSED ELEVATION 57.87 EXISTING ELEVATION U/S FOOTING PROPOSED UNDERSIDE OF CONCRETE FOOTING ELEVATION PROPOSED 50mmø WATER SERVICES COPPER TYPE "K" PROPOSED 150mmø PVC SANITARY LATERAL SERVICES @ 1% (MIN.) SLOPE PROPOSED 200mmø PVC STORM SEWER - P - EXISTING UNDERGORUND POWER LINE/CONDUIT EXISTING CATCH BASIN EXISTING STORM MANHOLE EXISTING SANITARY MANHOLE EXISTING WATER VALVE EXISTING FIRE HYDRANT EXISTING UTILITY POLE PROPOSED CURB STOP & SERVICE POST PROPOSED METER & REMOTE METER ROOF DRAIN PROPERTY LINE D4



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Approved by Z.M. Rev 1 Date		Description		Servicing & Grading Plan			0000
			Location	374 McARTHUR AVENUE,	OTTAWA, ON		000
Rev 2	Date	Description Owner CASTLE HEIGHTS RESIDENCES			ENCES	Q PROFESSIONAL OF	D000000
Rev 3	Date	Description	Project No	CW-01-20		Z. MRDJA EA	File No:
			Date	December 2020		2 testing.	Ottawa
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