GEN	IERAL	NOT	ES

- 1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 2. DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
- 3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION. BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
- 5. RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.
- REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- ALL ELEVATIONS ARE GEODETIC. THE SITE BENCHMARKS IS CURRENTLY SET CUT CROSS TOP OF HYDRO TRANSFORMER (ELEV. = 76.57), LOCATED SOUTH WEST OF THE CONCRETE BLOCK PUMP HOUSE. REFER TO FAIRHALL, MOFFAT AND WOODLAND LIMITED TOPOGRAPHIC SURVEY OF PART OF BLOCK 11, REGISTERED PLAN 4M-1096 AND PART OF LOT PLAN OF PART OF LOT 8 CONCESSION 4 GEOGRAPHICAL TOWNSHIP OF MARCH, NOW CITY OF OTTAWA). NOTE THAT AS PART OF THIS PROJECT, THE BENCHMARK WILL BE DESTROYED DURING CONSTRUCTION, A NEW BENCH MARK WILL NEED TO BE SET BY THE SURVEYOR PRIOR TO THE START OF CONSTRUCTION.
- REFER TO GEOTECHNICAL REPORT (No. PG5673-1 REVISION 2 DATED JANUARY 27, 2022 BY PATTERSON GROUP) FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL
- 9. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.
- 10. REFER TO SITE SERVICING AND STORMWATER MANAGEMENT BRIEF (REPORT NO. R-2021-131, DATED APRIL 4, 2022) PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD.
- 11. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
- 12. PROVIDE LINE/PARKING PAINTING.
- 13. ALL MONITORING WELLS SHOULD BE DECOMMISSIONED IN ACCORDANCE WITH ONTARIO REGULATIONS O.REG 903 BY A QUALIFIED LICENSED WELL TECHNICIAN PRIOR TO CONSTRUCTION.
- 14. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, T/WM ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.

	SEWER	NOTES:
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1.	SPECIFICATIONS:		
	ITEM	SPEC. No.	REFERENCE
	CATCHBASIN (600x600mm)	705.010	OPSD
	STORM / SANITARY MANHOLE (1200Ø)	701.010	OPSD
	STORM / SANITARY MANHOLE (1500Ø)	701.011	OPSD
	STORM / SANITARY MANHOLE (2400Ø)	701.013	OPSD
	CB, FRAME & COVER	400.020	OPSD
	STORM/SANITARY MH FRAME	S25	CITY OF OTTAWA
	SANITARY COVER	S24	CITY OF OTTAWA
	STORM COVER (CLOSED)	S24.1	CITY OF OTTAWA
	STORM COVER (OPEN)	S28.1	CITY OF OTTAWA
	SEWER TRENCH	S6 & S7	CITY OF OTTAWA
	LANDSCAPE DRAINS	S30 & S31	CITY OF OTTAWA
	TRENCH DRAIN	SOLENO 300mm FILCOTEN INFRA CHANNEL (OR APPROVED EQUIVALENT)	
	STORM SEWER < 450mmØ	PVC SDR 35 (UNLESS SPECIFIED OTHERWISE)	
	STORM SEWER >= 450mmØ	CONC 65D (UNLESS SPECIFIED OTHERWISE)	
	SANITARY SEWER	PVC DR 35	CITY OF OTTAWA
2.	INSULATE ALL PIPES (SAN/STM) THAT HAVE		ER WITH 50mmX1200mm HI-40 INSULATION. PROVIDE

- 150mm CLEARANCE BETWEEN PIPE AND INSULATION. SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0% (2.0% IS
- PREFERRED). PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
- SEWER SERVICE CONNECTIONS PER CITY OF OTTAWA DETAILS S11 AND S11.1.
- 6. FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.
- THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16. 410.07.16.04 AND 407.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.
- STORM MANHOLES AND CBMHS ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS, 200mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
- 10. ALL CATCHBASINS AND CATCHBASIN MANHOLES TO BE PROVIDED WITH MINIMUM 3 METER LONG PERFORATED SUBDRAINS EXTENDING IN TWO DIRECTIONS AT THE SUBGRADE LEVEL. SUBDRAIN IS TO BE PROVIDED AT THE TRANSITIONS BETWEEN DIFFERENT PAVEMENT COMPOSITIONS. THE SUBGRADE SURFACE SHOULD BE SHAPED TO PROMOTE WATER FLOW TO THE DRAINAGE LINES.

<u>SPEC. No.</u> W17

W25 / W25.2

W22

W24

REFERENCE CITY OF OTTAWA

CITY OF OTTAWA

CITY OF OTTAWA

CITY OF OTTAWA

## WATERMAIN NOTES

- 1. SPECIFICATIONS:
- ITEM WATERMAIN TRENCHING THERMAL INSULATION IN SHALLOW TRENCHES WATERMAIN CROSSING BELOW SEWER / OVER SEWER VALVE BOX WATERMAIN
- PVC DR 18 THE WATERMAIN SHALL BE PVC DR 18 IN ACCORDANCE WITH MATERIAL SPECIFICATION MW-18.1, UNLESS OTHERWISE INDICATED.
- SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMAINS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY FORCES.
- 4. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.
- PROVIDE MINIMUM 0.25m ABOVE, 0.5m IF BELOW, CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS AS PER OTTAWA STANDARDS W25/W25.2.
- WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED

ALLISON HAMLIN MANAGER (A), DEVELOPMENT REVIEW WEST PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT **DEPARTMENT, CITY OF OTTAWA** 

APPROVED By Allison Hamlin at 10:53 pm, Oct 12, 2022



- 1. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER, CITY OF OTTAWA MEASURES INDICATED ON THE PLAN.
- ESTABLISHED AND CONSTRUCTION COMPLETE.
- AUTHORIZATION FROM THE ENGINEER.
- BY THE CONTRACTOR WITHOUT DELAY
- SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

## REQUIRED. **GRADING NOTES**

- PAVED AREAS AS DIRECTED BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER.
- AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF GRANULARS.
- LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
- MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
- POSITIVE DRAINAGE
- 6. MAXIMUM TERRACING GRADE TO BE 2:1
- STANDARDS (SC1.1).
- THE OWNER.
- 9. REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.

## GRADES SHOWN ON THE GRADING PLANS.

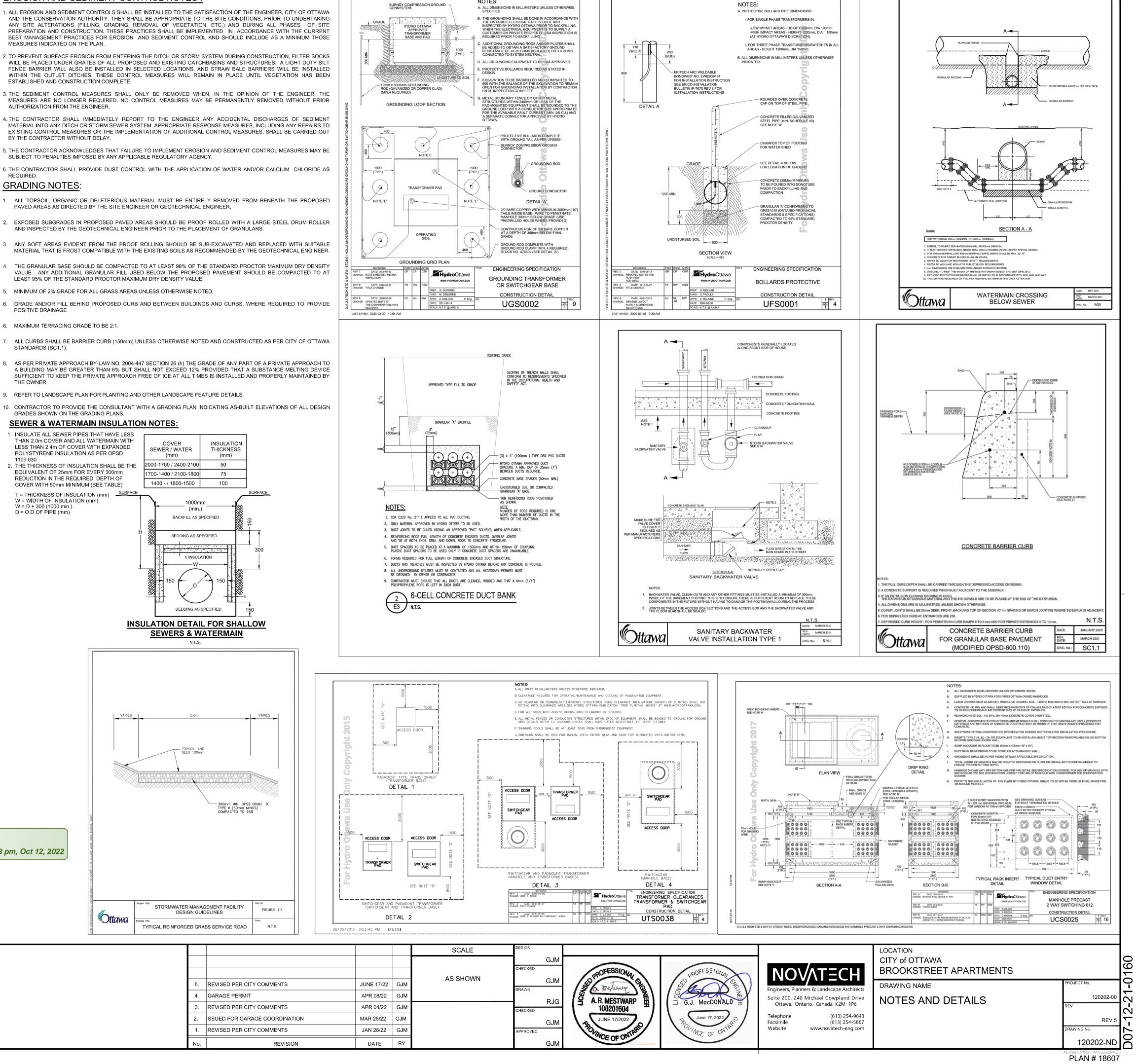
- **SEWER & WATERMAIN INSULATION NOTES:** 1. INSULATE ALL SEWER PIPES THAT HAVE LESS THAN 2.0m COVER AND ALL WATERMAIN WITH
- LESS THAN 2.4m OF COVER WITH EXPANDED POLYSTYRENE INSULATION AS PER OPSD 1109.030. 2. THE THICKNESS OF INSULATION SHALL BE THE EQUIVALENT OF 25mm FOR EVERY 300mm
- REDUCTION IN THE REQUIRED DEPTH OF COVER WITH 50mm MINIMUM (SEE TABLE) T = THICKNESS OF INSULATION (mm) W = WIDTH OF INSULATION (mm)
- W = D + 300 (1000 min.) D = O.D OF PIPE (mm)

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THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR

DAMAGE TO THEM.

Owner: Wesley Clover International c/o Richard Goldstein KRP Propoerties 300-555 Legget Drive, Tower B, Kanata, ON K2K 2X3



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