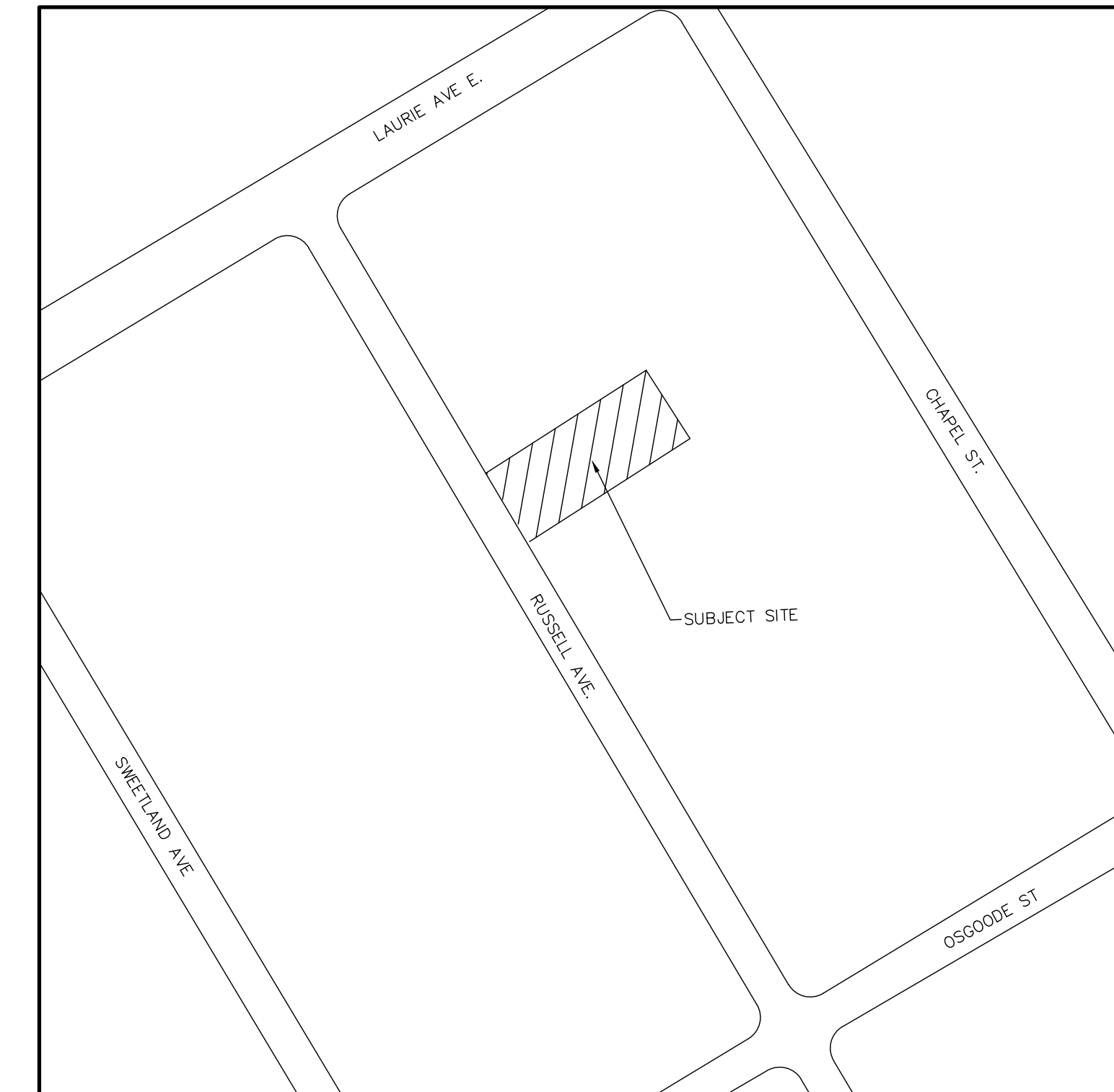


SMART LIVING PROPERTIES
29 RUSSELL AVE,
CITY OF OTTAWA

DRAWING LIST

| | |
|-------|---------------------------------------|
| ND-1 | NOTES AND DETAILS |
| SG-1 | SITE GRADING PLAN |
| STM-1 | PRE-DEVELOPMENT STORM CATCHMENT PLAN |
| STM-2 | POST-DEVELOPMENT STORM CATCHMENT PLAN |
| EP-1 | EROSION AND SEDIMENT CONTROL PLAN |



CITY OF OTTAWA
110 LAURIER AVE W
OTTAWA, ONTARIO
K1P 1J1

SMART LIVING PROPERTIES
226 ARGYLE AVE
OTTAWA, ON
K2P 1B9



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1. DRAWINGS

- A. THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON THE SPECIFIC DETAIL DWGS.
- B. THE STANDARD DRAWINGS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS) AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) CONSTITUTE PART OF THE PLANS OF THIS CONTRACT.
- C. THE STANDARD DRAWINGS INCLUDED WITH THESE PLANS ARE PROVIDED FOR CONVENIENCE ONLY AND ARE NOT TO BE CONSTRUED TO BE A COMPLETE SET FOR THE PURPOSE OF THE CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL RELEVANT STANDARD DRAWINGS AND SPECIFICATIONS AS REQUIRED FOR THIS CONTRACT.

2. MEASUREMENTS

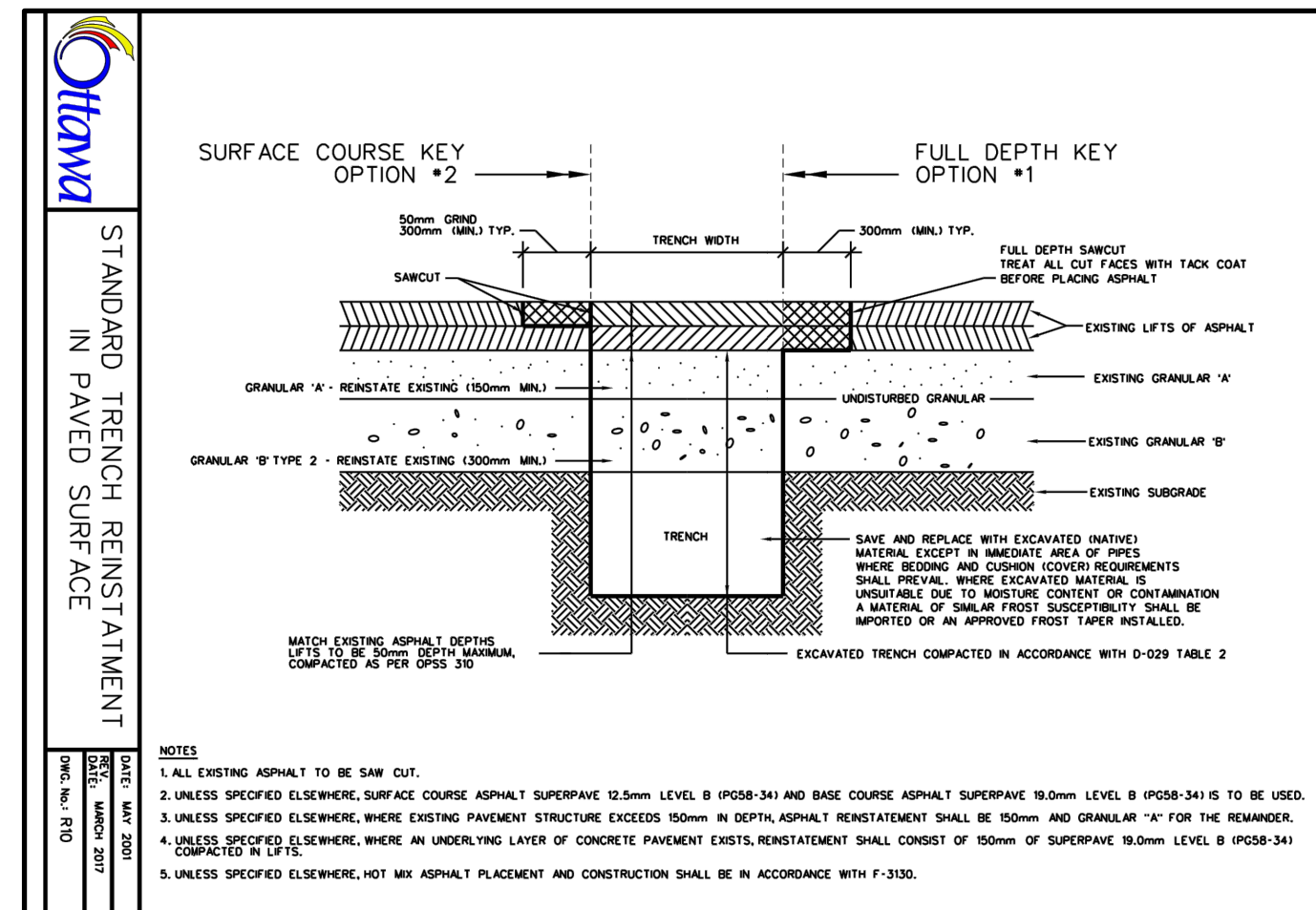
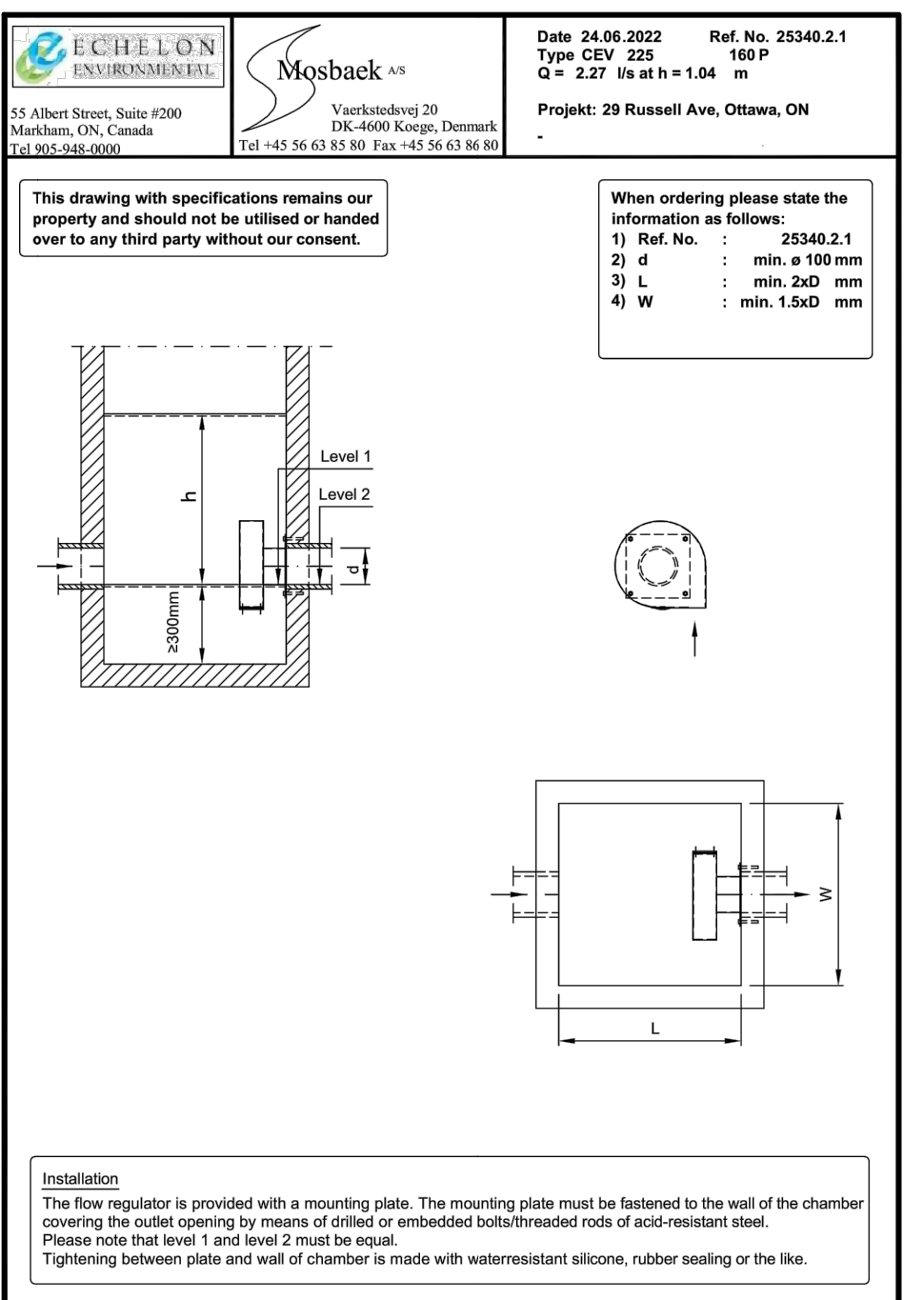
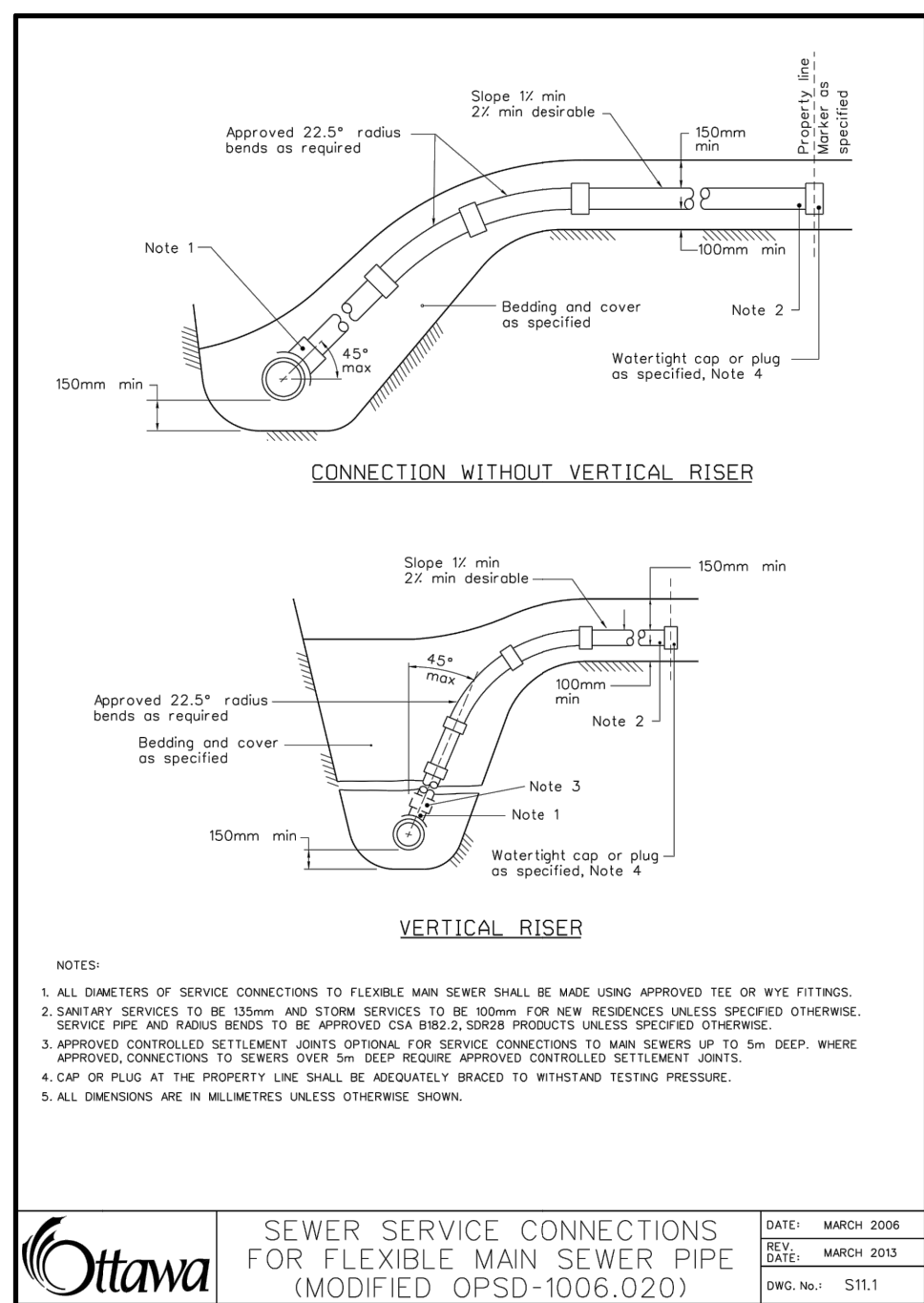
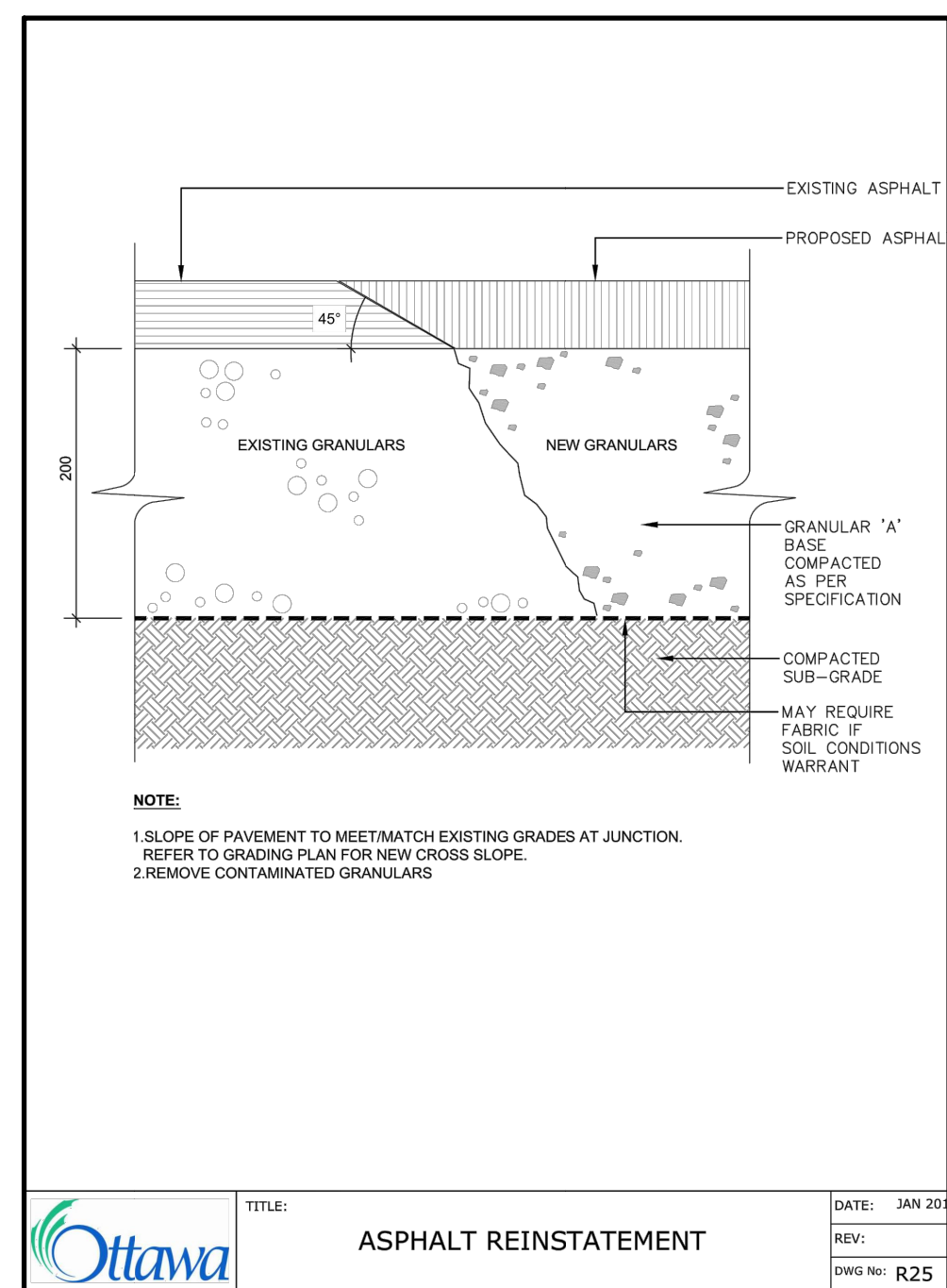
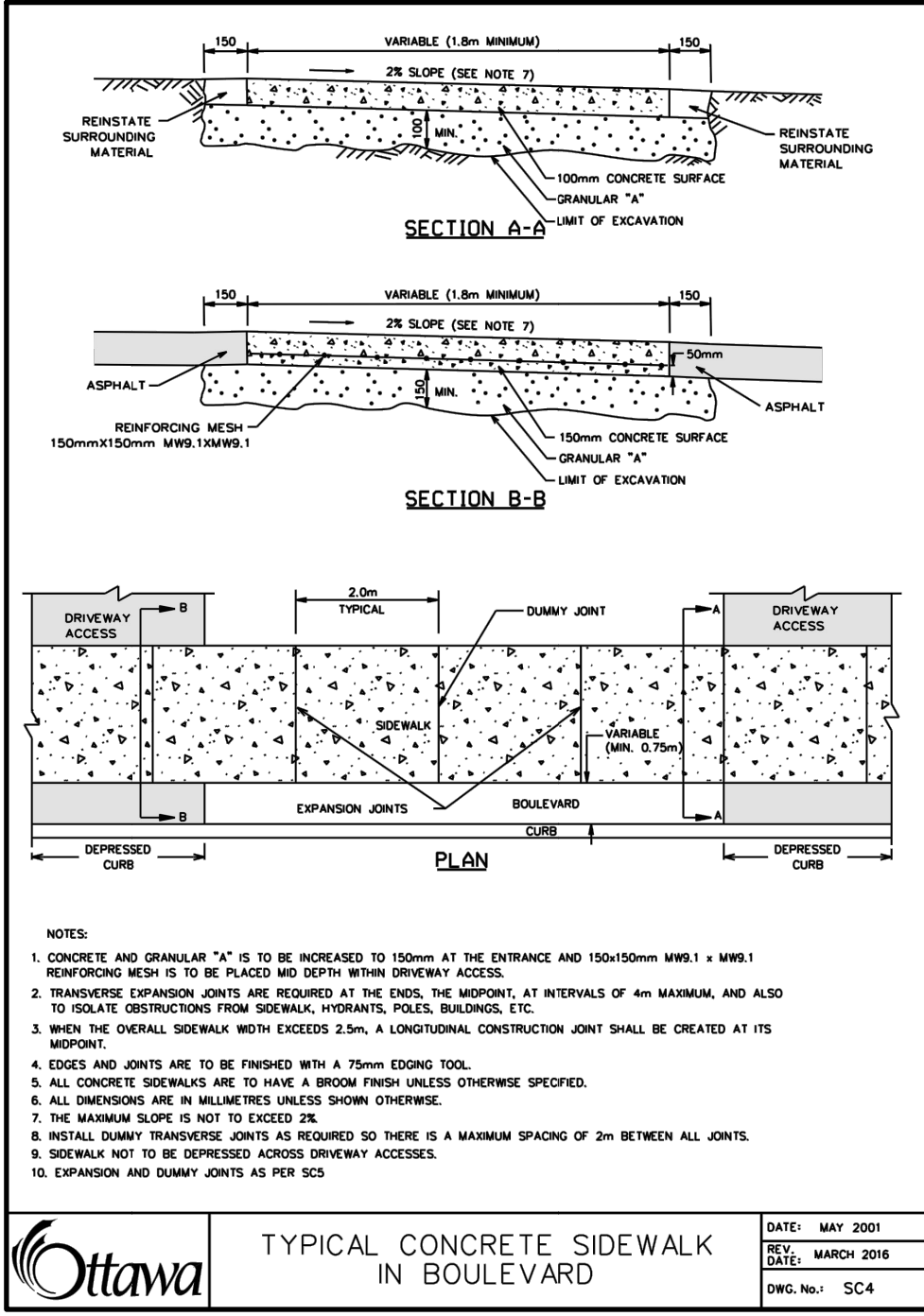
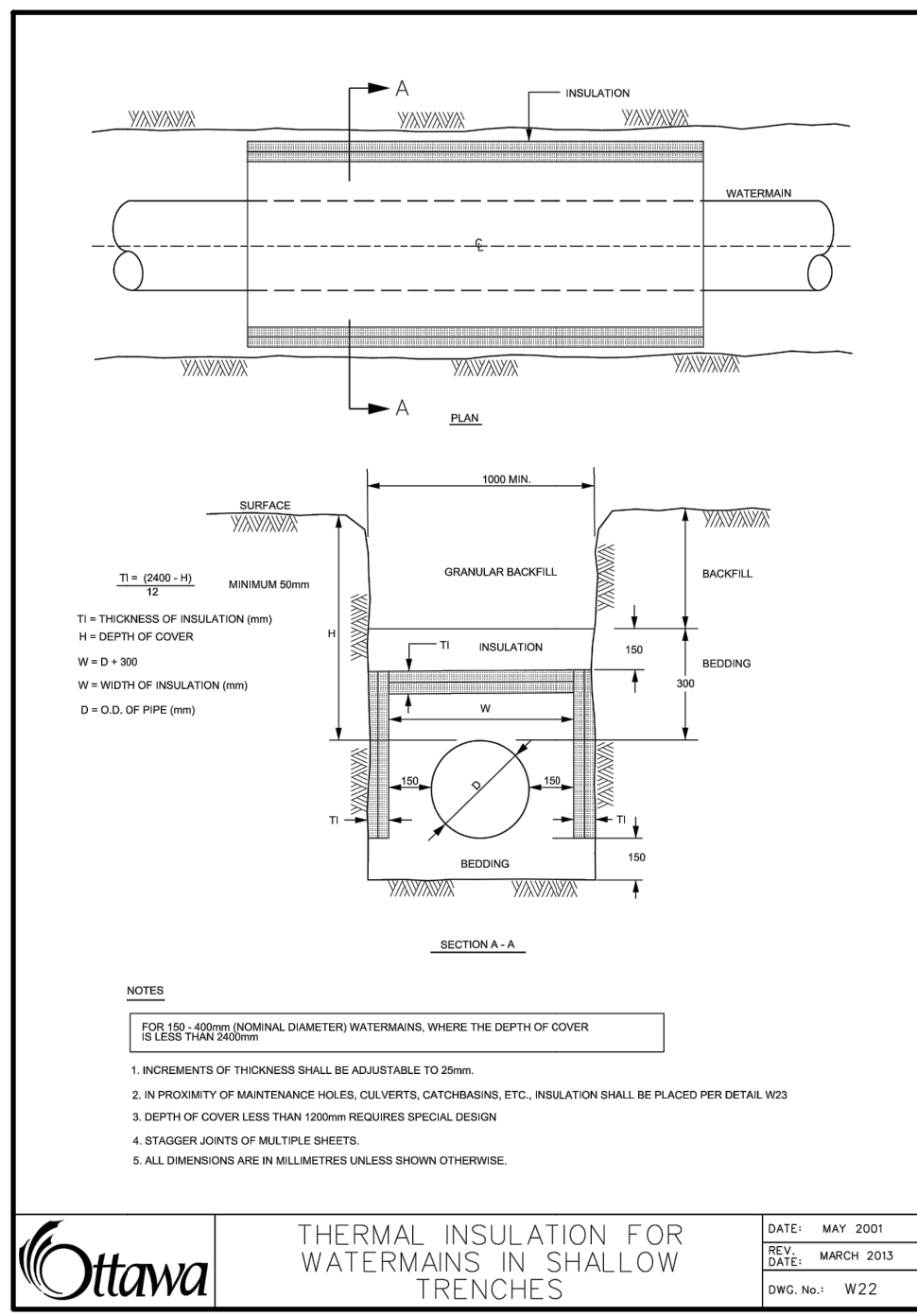
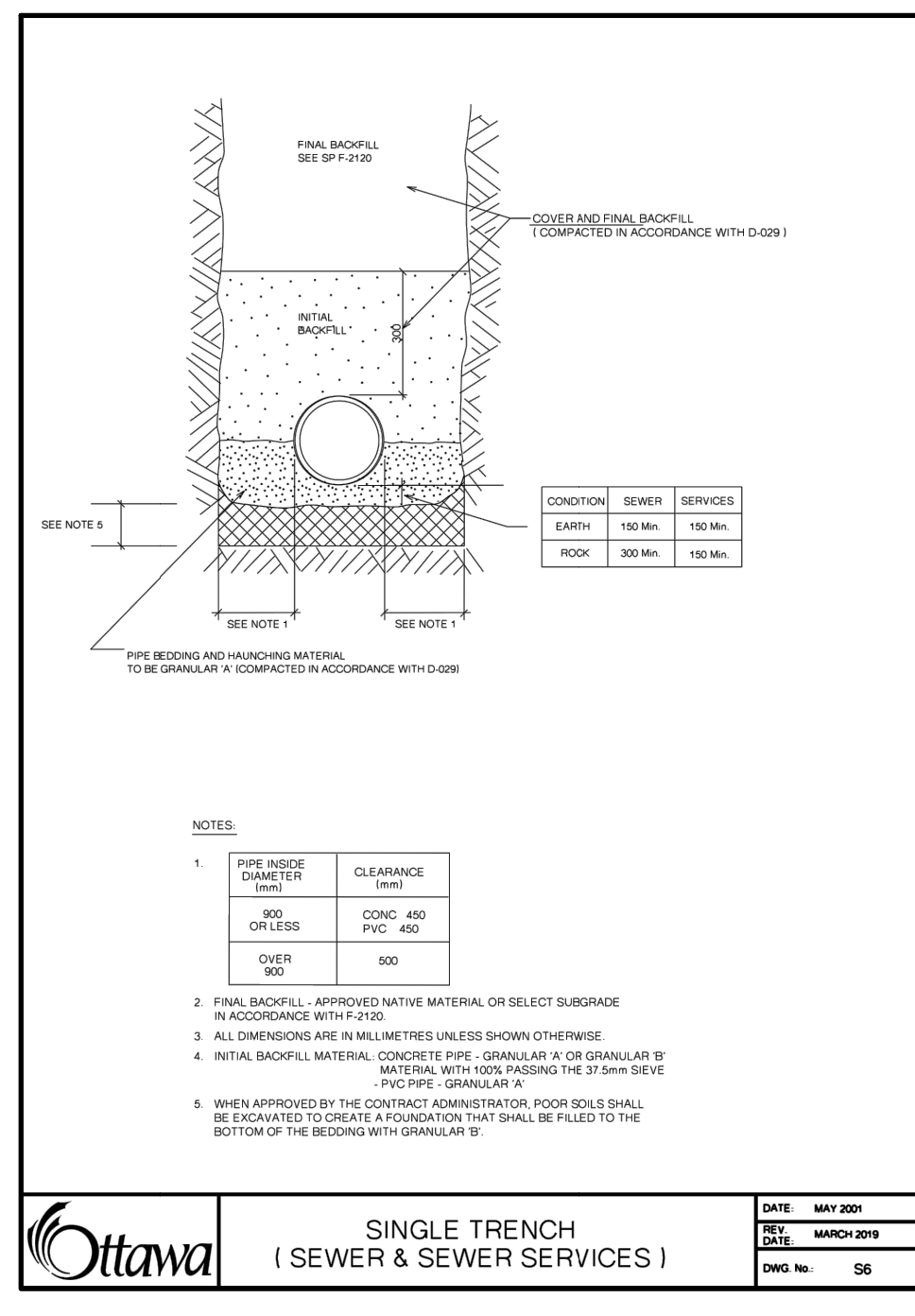
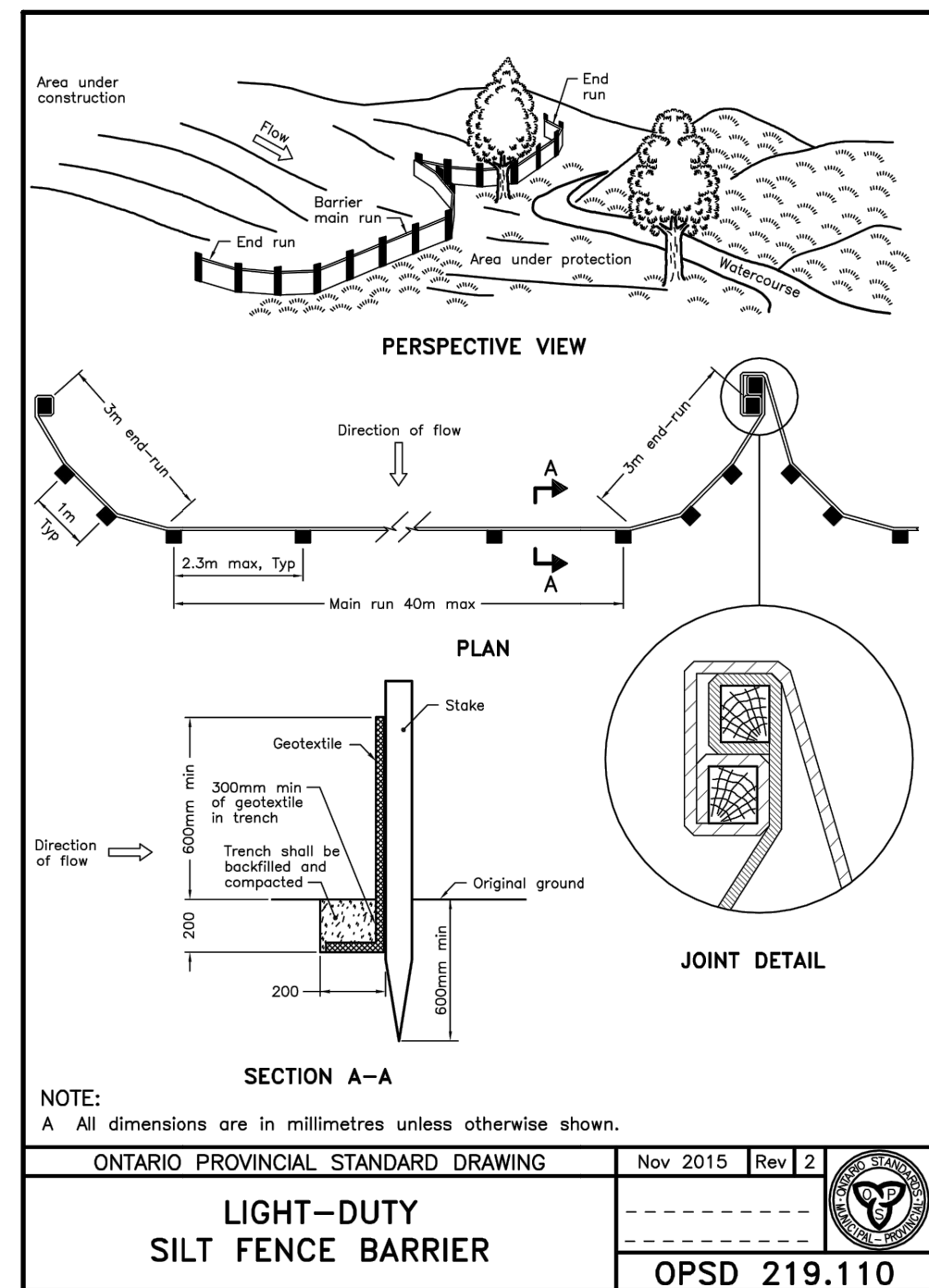
- A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETRES, UNLESS SPECIFIED OTHERWISE.
- B. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION, AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

3. GENERAL

- A. EXISTING SERVICES AND UTILITIES SHOWN ON THESE CONTRACT DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE AND THEIR LOCATIONS ARE NOT GUARANTEED. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE WISHES WITH THE UNDERSTANDING THAT THE OWNER DISCLAIMS ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY. THE CONTRACTOR IS REQUIRED TO NOTIFY THE VARIOUS UTILITY COMPANIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- B. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- C. GRANULAR MATERIAL, USED FOR BACKFILL, SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- D. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE ENGINEER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 200mm OF APPROVED TOPSOIL AND NURSERY SOD UNLESS NOTED OTHERWISE.

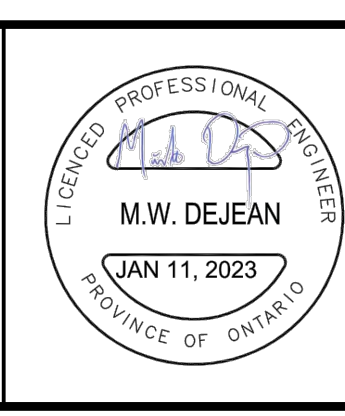
4. STORM SEWERS

- A. STORM SEWERS SHALL BE CONSTRUCTED WITH BEDDING AS PER OPSD-802.010, (GRAN. 'A' EMBEDMENT MATERIAL) FOR FLEXIBLE PIPES AND OPSD-802.030 OR 802.031 CLASS B (GRAN. 'A' BEDDING MATERIAL) FOR RIGID PIPES UNLESS OTHERWISE APPROVED BY THE CITY OF OTTAWA.
- B. PRECAST MANHOLES SHALL BE 1200mm DIAMETER UNLESS OTHERWISE SPECIFIED, AND SHALL BE IN ACCORDANCE WITH OPSD-701.010, FRAME AND COVER SHALL BE IN ACCORDANCE WITH OPSD-401.010.
- C. SINGLE CATCHBASINS TO BE 600mm SQUARE PRECAST CONCRETE TO OPSD-705.010, FRAME AND GRATE TO OPSD-400.020.
- D. PLACE ALL CATCHBASIN LATERALS AT 2% GRADE UNLESS OTHERWISE NOTED PIPE SIZE MINIMUM 250mm DIAMETER SINGLE, 300mm DIAMETER DOUBLE.
- E. FOR ALL PVC PIPES CONNECTING INTO CONCRETE MH'S AND CB'S USE PVC MH ADAPTER COATED WITH SAND.
- F. ALL CONNECTIONS TO THE STORM MAIN SHALL BE MADE WITH A STOM MANHOLE OR APPROVED FACTORY TEE CONNECTION AS PER OPSD-701.10 OR 708.03.
- G. MANHOLE BENCHING SHALL CONFORM WITH OPSD-701.021.
- H. MAINTENANCE HOLE TOPS (FRAMES) AND CATCH BASIN (FRAMES) ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE WHEN THE TOP LIFT OF ASPHALT IS PLACED. ALL ADJUSTMENT WILL BE IN ACCORDANCE WITH OPSD-704.010.
- I. ALL PIPE HANDLING INSTALLATIONS MUST BE IN STRICT COMPLIANCE WITH MANUFACTURERS INSTALLATION GUIDES AND THE O.C.P.A. OR UNIBELL GUIDELINES.
- J. ALL SEWERS WITH LESS THAN 2.0m OF COVER MUST BE INSULATED.
- K. PVC STORM PIPE MATERIAL TO BE PVC CERTIFIED TO C.S.A. STANDARDS 182.2 AND 182.4 LATEST AMENDMENT.
- L. CONCRETE STORM SEWER PIPE TO BE EQUAL TO CSA SPECIFICATION A257.1 (LATEST AMENDMENT)



| NO. | REVISION NOTE | DATE | BY |
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| 01. | AS PER CITY COMMENTS | 01-11-23 | JM |

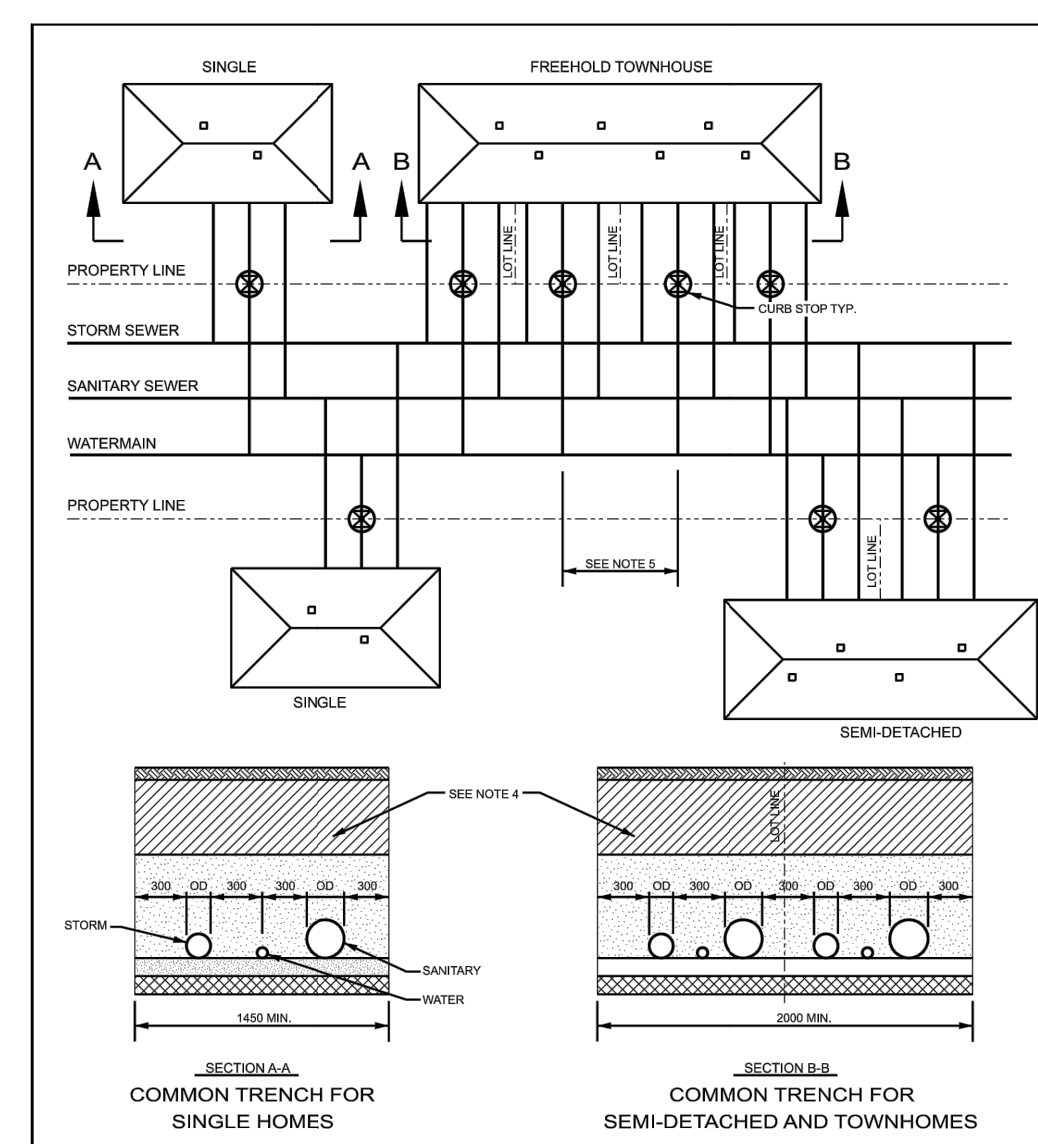
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| 01-11-23 | JM | AS PER CITY COMMENTS |



SMART LIVING PROPERTIES
29 RUSSELL AVE,
CITY OF OTTAWA

NOTES AND DETAILS

| | | | | | |
|-------------|-----|-------------|----------|------------|-------|
| DESIGNED BY | NW | HORIZ SCALE | N/A | PROJECT # | 22030 |
| DRAWN BY | JM | VERT SCALE | N/A | DRAWING # | ND-1 |
| CHECKED BY | MWD | DATE | MAY 2022 | REVISION # | 1 |

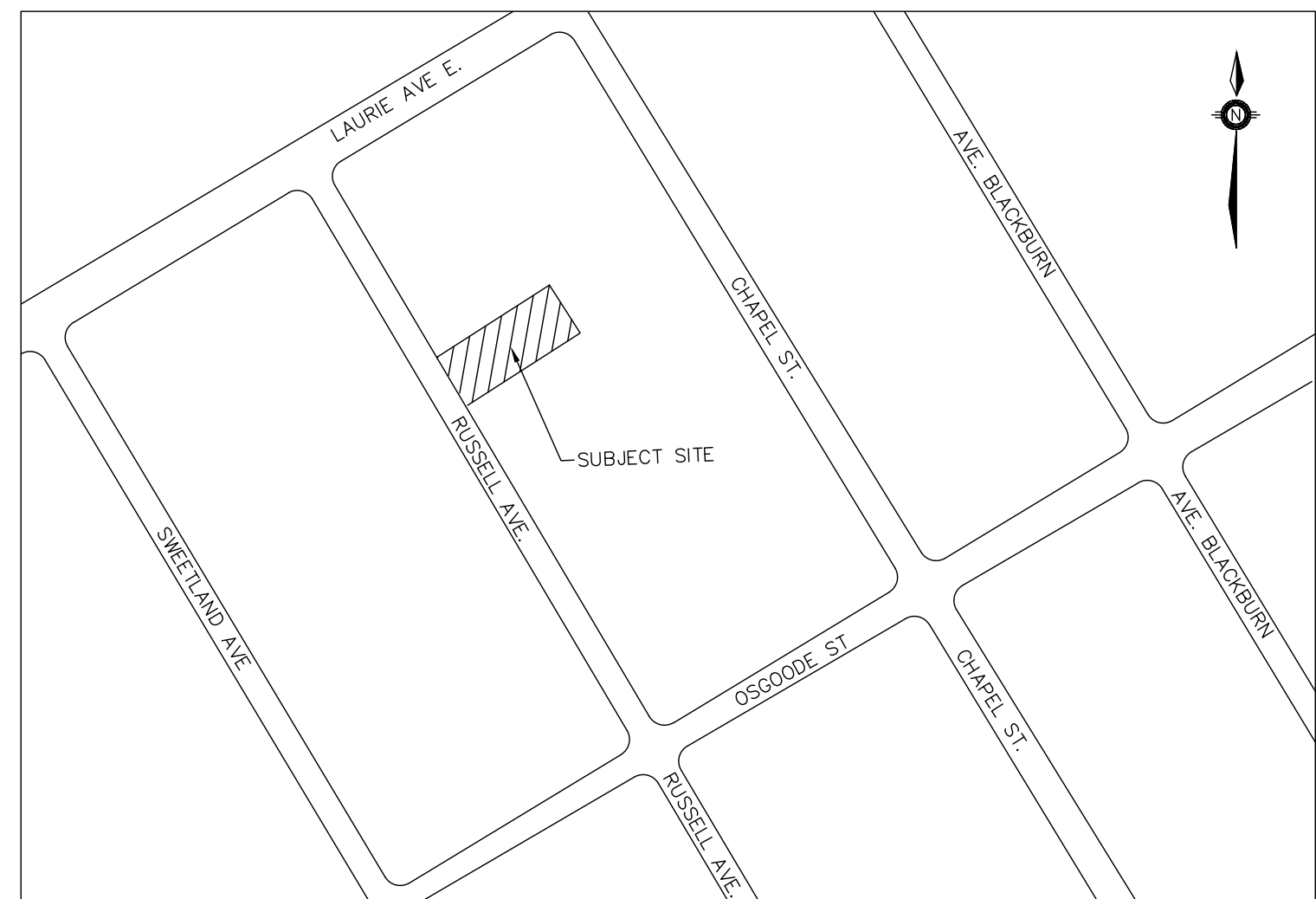
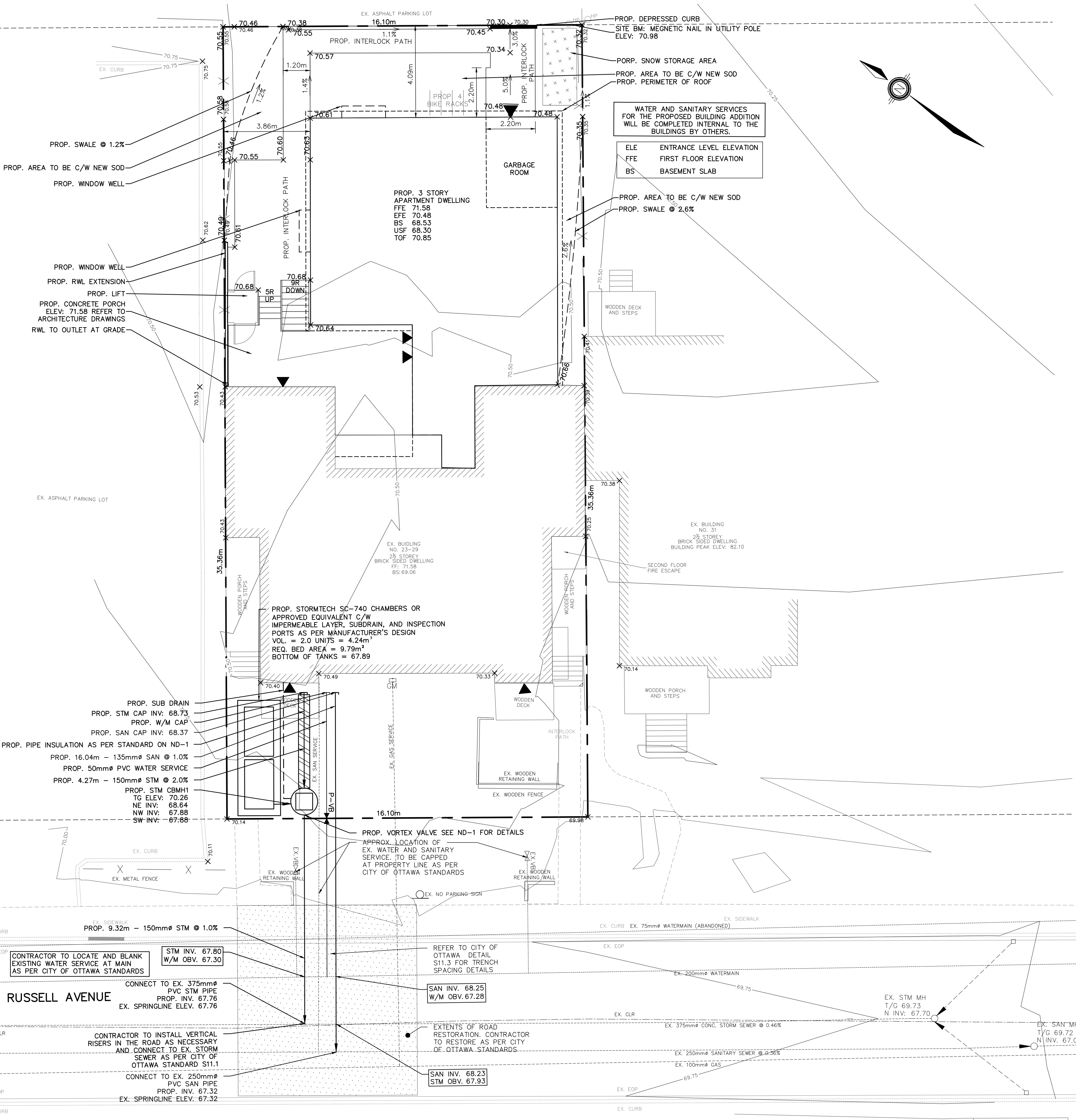


NOTES

- NO HORIZONTAL BENDS IN RIGHT-OF-WAY UNLESS OTHERWISE APPROVED BY THE CITY.
- MINIMUM OF TWO (2) HORIZONTAL BENDS FOR SANITARY AND STORM SERVICES.
- 1% MINIMUM SANITARY AND STORM SERVICE GRADE WITH 2% PREFERRED.
- STORM SERVICE LATERALS SHALL BE LOCATED TO THE LEFT OF SANITARY SERVICE LATERALS.
- WHEN LOOKING AT THE STRUCTURE FROM THE STREET, SERVICE SIZES IN CONFORMANCE WITH S11.1.
- SEE S11 FOR PIPE FOUNDATION, EMBARKMENT AND FINAL BACKFILL REQUIREMENTS.
- MULTIPLE TAPS WITH SADDLES IN PVC WATERMAIN SHALL BE STICAGED AND MINIMUM 600mm APART.
- ELEVATION OF SERVICE WARE TO BE DETERMINED ON GRADIENT AND/OR DEPTH OF COVER.
- ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.

TYPICAL SINGLE, SEMI-DETACHED AND TOWNHOUSE INDIVIDUAL LOT SERVICING

DATE: MARCH 2011
 DATE: MARCH 2019
 DWG. NO.: S11.3



KEY MAP N.T.S.

LEGEND

- CB CATCH BASIN
- DCB DOUBLE CATCH BASIN
- CBM/B CATCH BASIN
- MH STORM MANHOLE
- MH SANITARY MANHOLE
- SERVICE CAP
- HYD. FIRE HYDRANT
- VB WATER VALVE
- CS CURB STOP W/ SERVICE
- 254.63 PROPOSED ELEVATION
- 254.69 EXISTING ELEVATION
- 1.5% PROPOSED DIRECTION AND GRADE
- BACK OF CURB
- EDGE OF PAVEMENT
- CURB CUT LOCATION
- () HIGH POINT
- PROP. ROOF LEADER
- ▼ PEDESTRIAN DOOR
- ▼ OVERHEAD DOOR

SITE GRADING NOTES:

- NO EXCESS DRAINAGE, DURING OR AFTER CONSTRUCTION TO BE DIRECTED TOWARDS NEIGHBORING PROPERTIES.
- EXISTING DRAINAGE PATTERNS TO BE MAINTAINED.
- ENSURE POSITIVE DRAINAGE AWAY FROM FOUNDATION
- LANDSCAPE AREAS TO HAVE MINIMUM 2% MAXIMUM 7% SLOPE UNLESS TERRACED AT 3:1 MAXIMUM.
- NO ALTERATION TO EXISTING GRADES ON PROPERTY LINES.
- USF TO BE MINIMUM 1.5m BELOW FINISHED GRADE OR INSULATION IS REQUIRED.
- TOP TO BE MINIMUM 0.15m ABOVE FINISHED GRADE.
- SUNKEN ENTRANCE DRAIN ANNOT CONNECT DIRECTLY TO WEeping TILE. ANY WATER IN SUNKEN ENTRANCE TO DRAIN DOWN INTO PERMEABLE FILL WHERE IT WILL BE PICKED UP BY WEeping TILE SYSTEM.

SITE SERVICING NOTES:

- OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM CITY OF OTTAWA BEFORE COMMENCING WORK.
- REFER TO CITY OF OTTAWA STANDARD R10 FOR ASPHALT TIE INS.
- BACKWATER VALVES TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD S14, AND S14.1 OR S14.2
- EXISTING SERVICES TO BE BLANKED AT MAIN.
- THERMAL INSULATION TO BE PROVIDED FOR WATER SERVICES LESS THAN 2.4m FROM OPEN STRUCTURES AS PER CITY OF OTTAWA STANDARD W23.
- WATER SERVICE TO HAVE MORE THAN 2.4m OF COVER OR BE INSULATED AS PER CITY OF OTTAWA STANDARD DRAWING W22.
- SUNKEN ENTRANCE DRAIN CANNOT CONNECT DIRECTLY TO WEeping TILE. ANY WATER IN SUNKEN ENTRANCE TO DRAIN DOWN INTO PERMEABLE FILL WHERE IT WILL BE PICKED UP BY WEeping TILE SYSTEM.

BENCHMARK
 MAGNETIC NAIL IN UTILITY POLE LOCATED AT THE NORTH EAST CORNER OF THE PROPOSED SITE.
 ELEVATION: 70.98



SMART LIVING PROPERTIES
 29 RUSSELL AVE,
 CITY OF OTTAWA

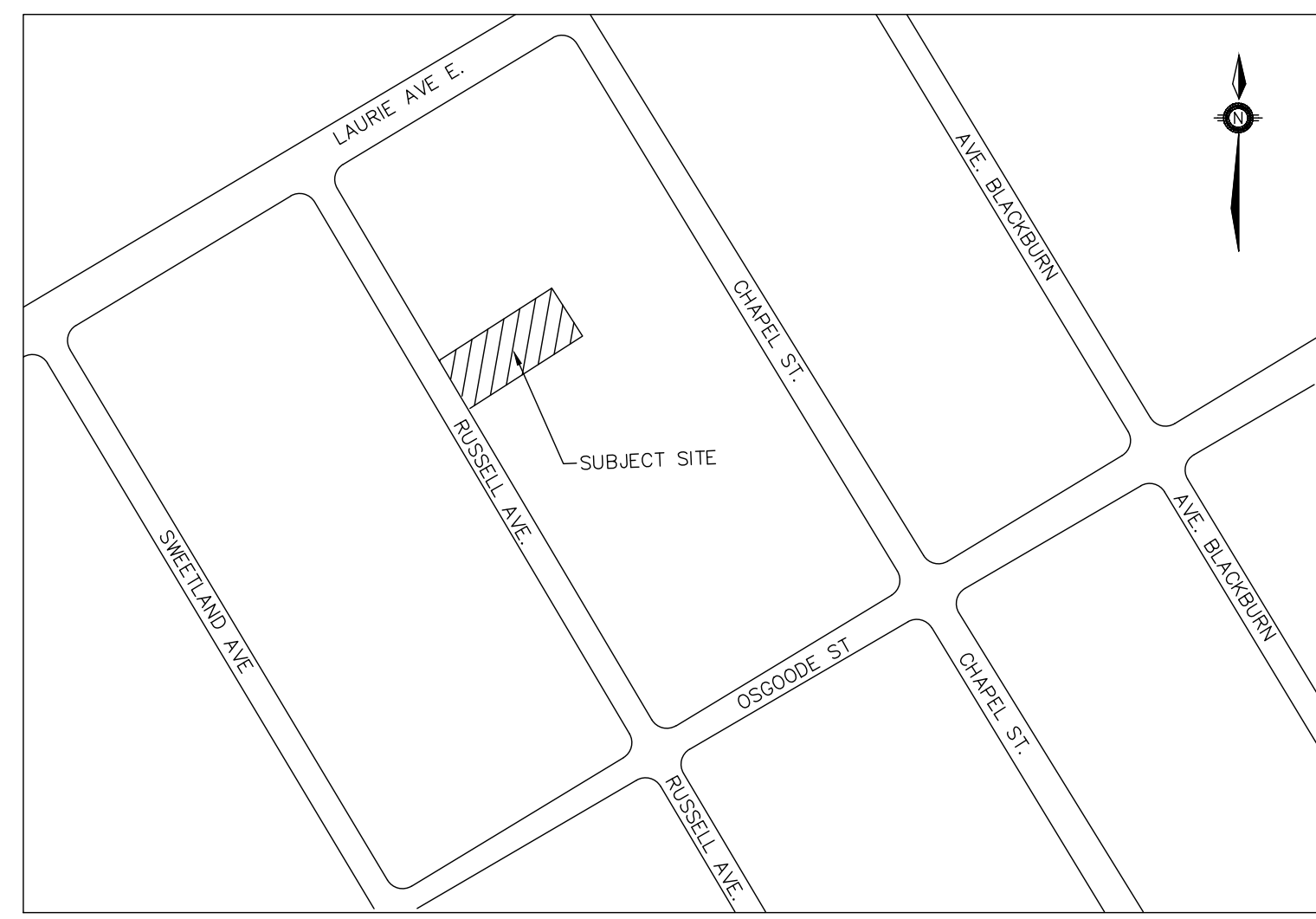
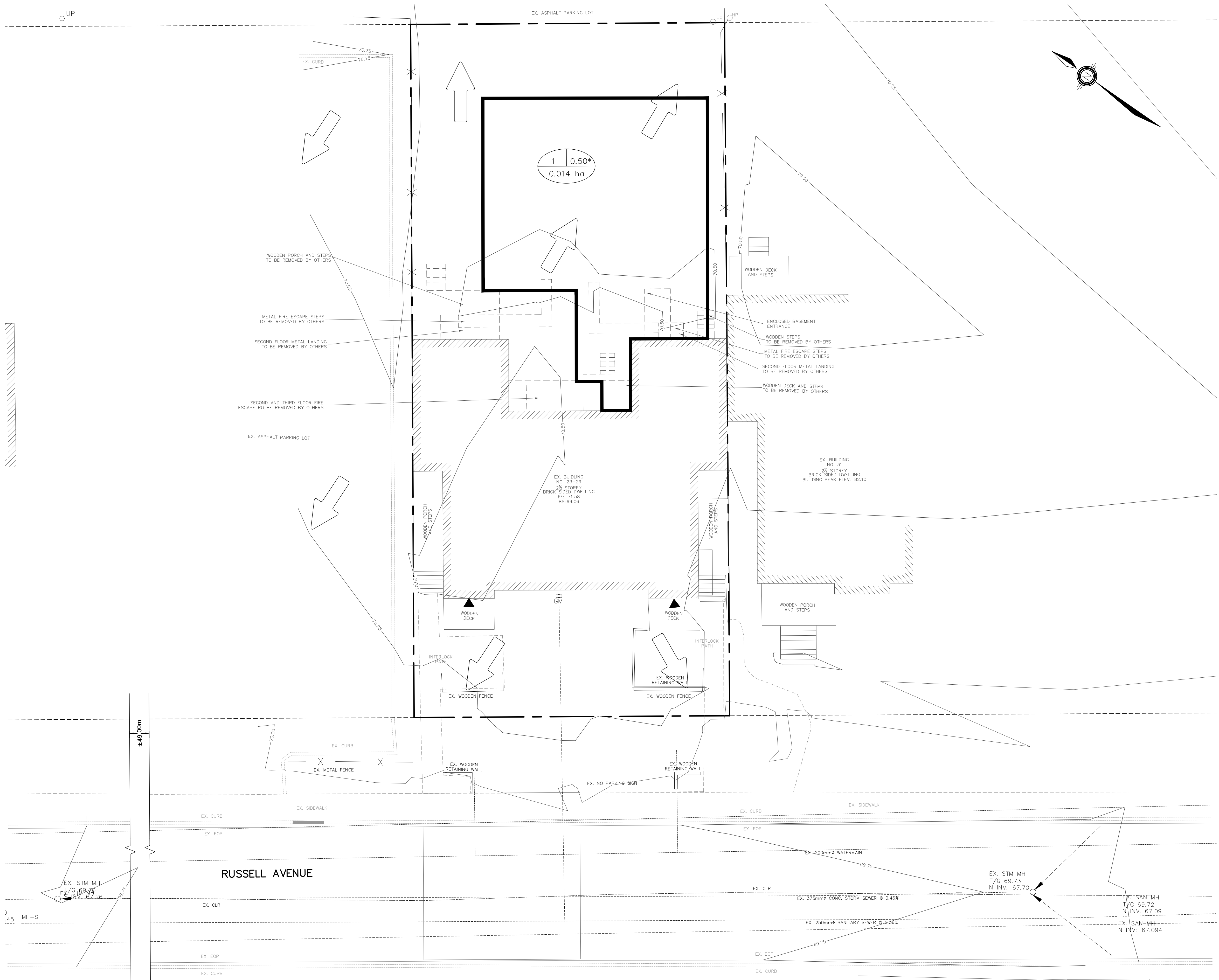
SITE GRADING AND SERVICING
 PLAN



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| DESIGNED BY | NW | HORIZ SCALE | 1:100 | PROJECT # | 22030 |
| DRAWN BY | JM | VERT SCALE | N/A | DRAWING # | SGS-1 |
| CHECKED BY | MWD | DATE | MAY 2022 | REVISION # | 1 |

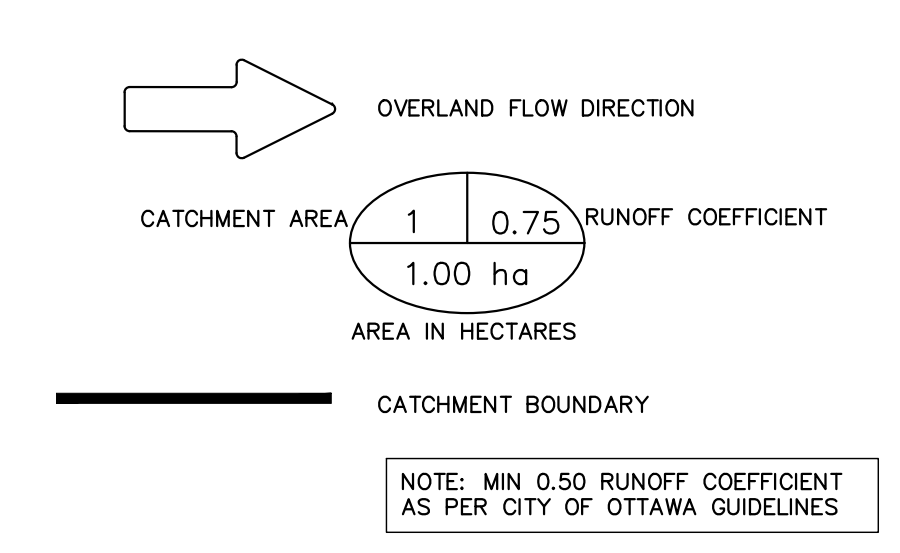
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KEY MAP
N.T.S.

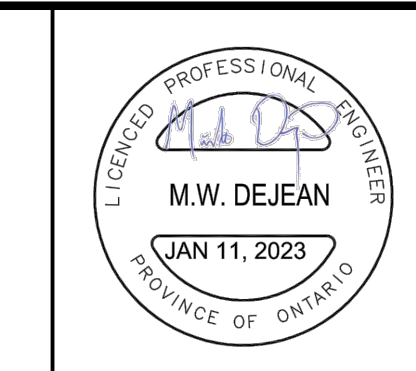
LEGEND



NOTE: MIN 0.50 RUNOFF COEFFICIENT AS PER CITY OF OTTAWA GUIDELINES

RUSSELL AVENUE

BENCHMARK
MAGNETIC NAIL IN UTILITY POLE LOCATED AT THE NORTH EAST CORNER OF THE PROPOSED SITE.
ELEVATION: 70.98



SMART LIVING PROPERTIES
29 RUSSELL AVE,
CITY OF OTTAWA

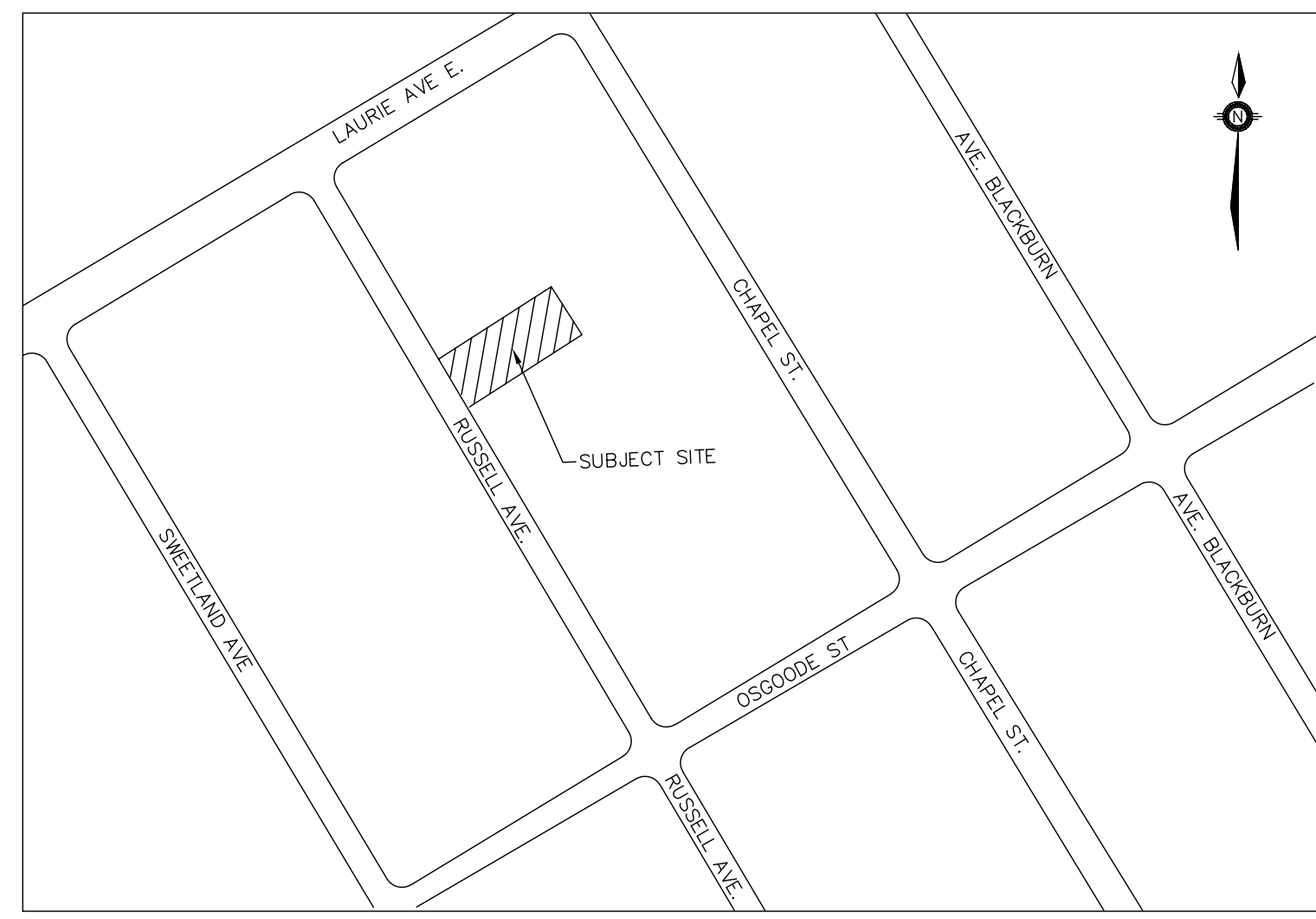
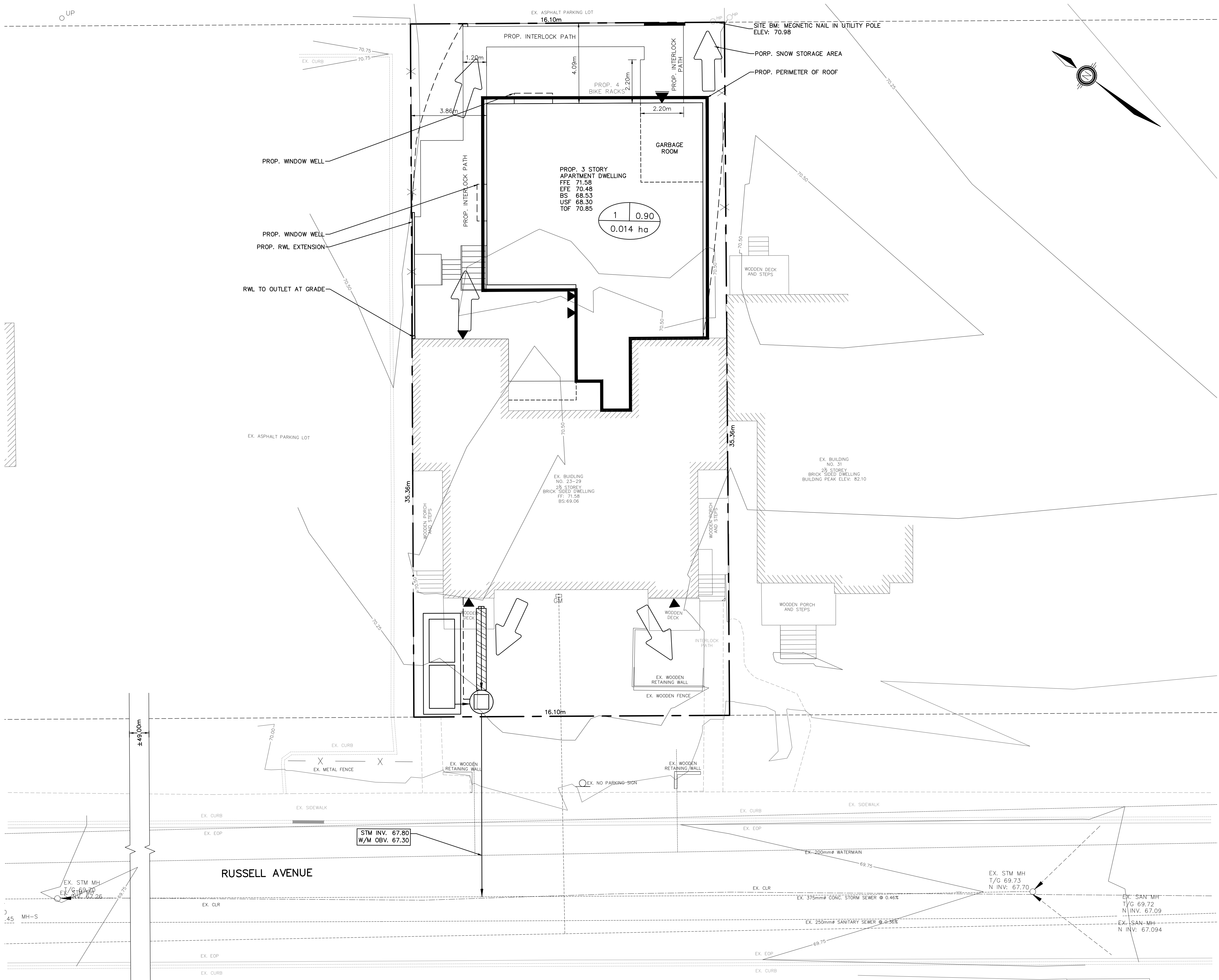
PRE-DEVELOPMENT STORM
CATCHMENT PLAN

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| DESIGNED BY | NW | HORIZ SCALE | 1:100 | PROJECT # | 22030 |
| DRAWN BY | JM | VERT SCALE | N/A | DRAWING # | STM-1 |
| CHECKED BY | MWD | DATE | MAY 2022 | REVISION # | 1 |

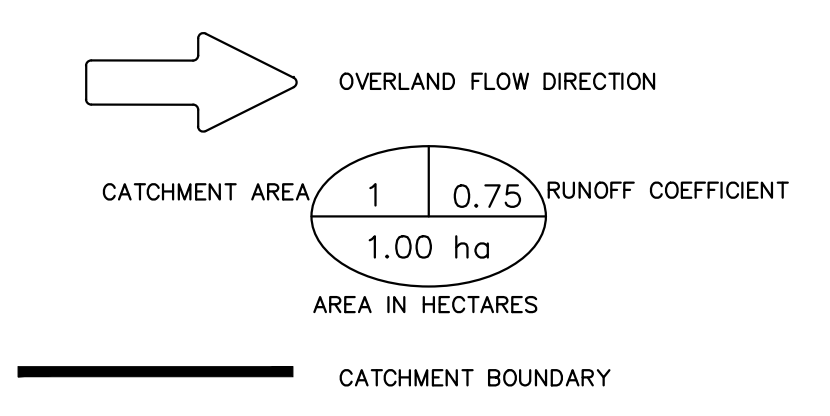
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| 01. | AS PER CITY COMMENTS | 01-11-23 | JM |

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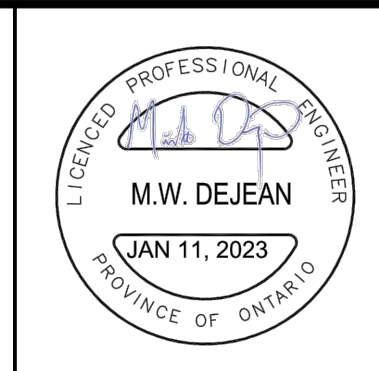
KEY MAP
N.T.S.

LEGEND



| NO. | REVISION NOTE | DATE | BY |
|-----|----------------------|----------|----|
| 01. | AS PER CITY COMMENTS | 01-11-23 | JM |

BENCHMARK
MAGNETIC NAIL IN UTILITY POLE LOCATED AT THE NORTH EAST CORNER OF THE PROPOSED SITE.
ELEVATION: 70.98

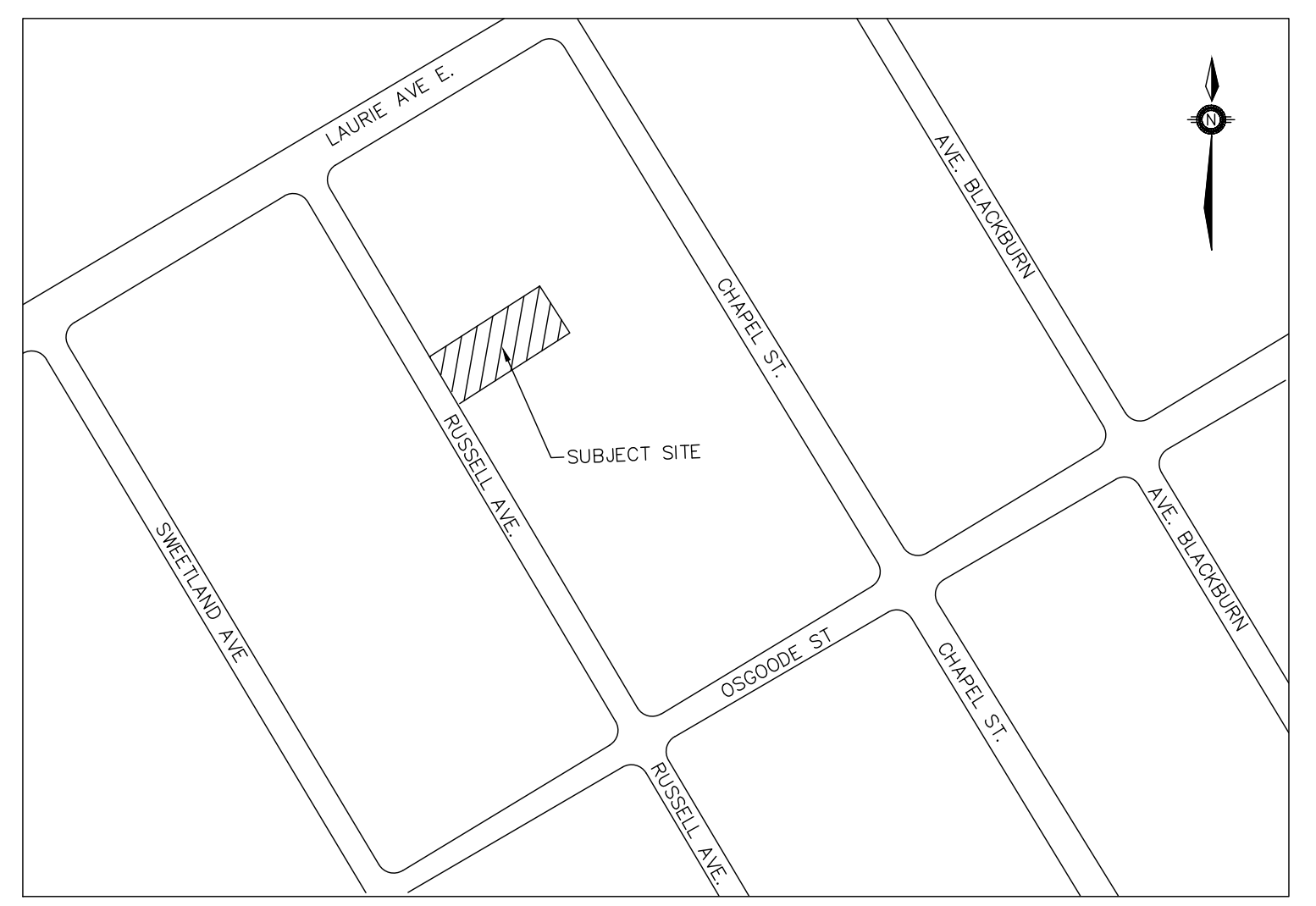
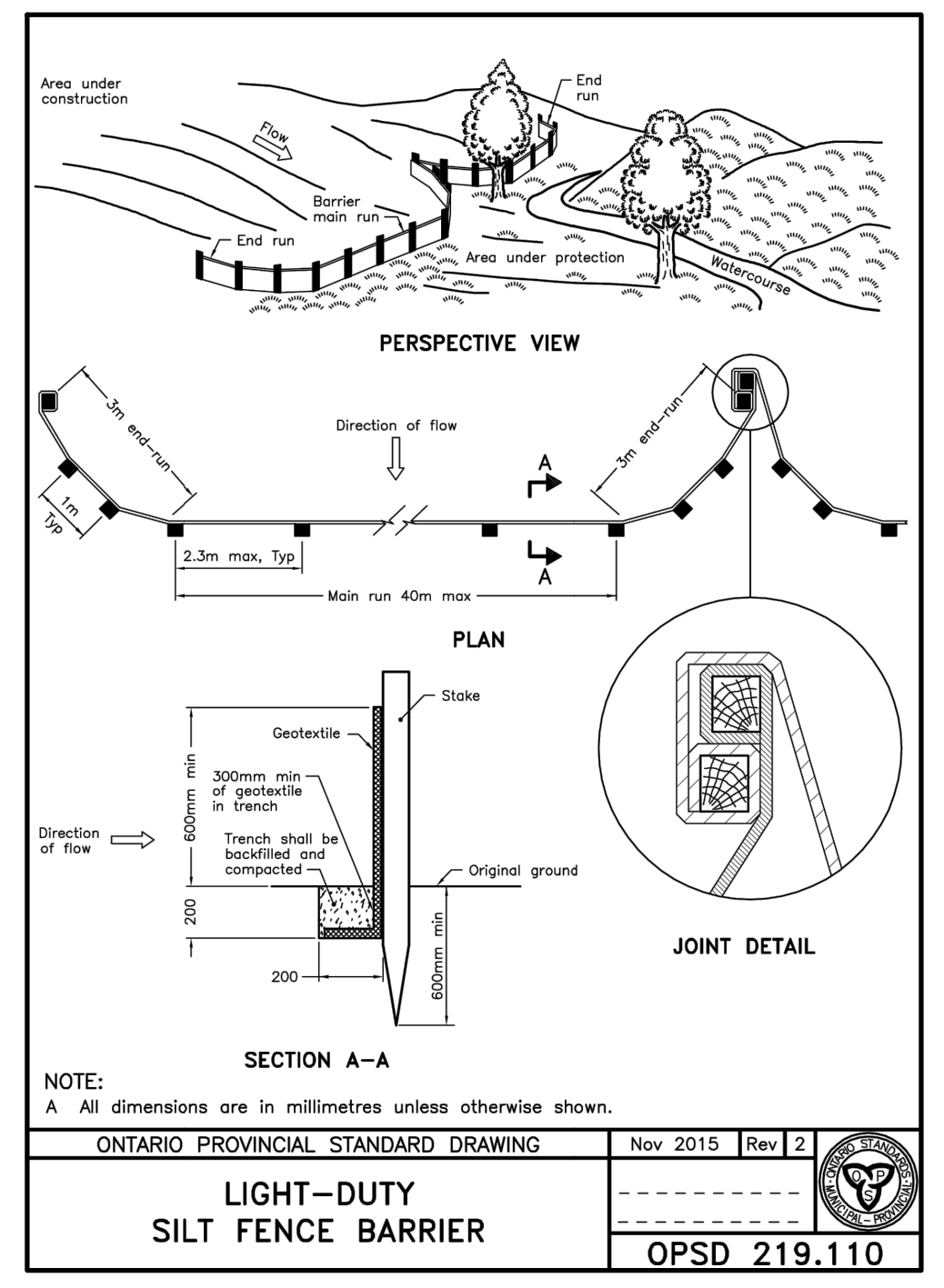
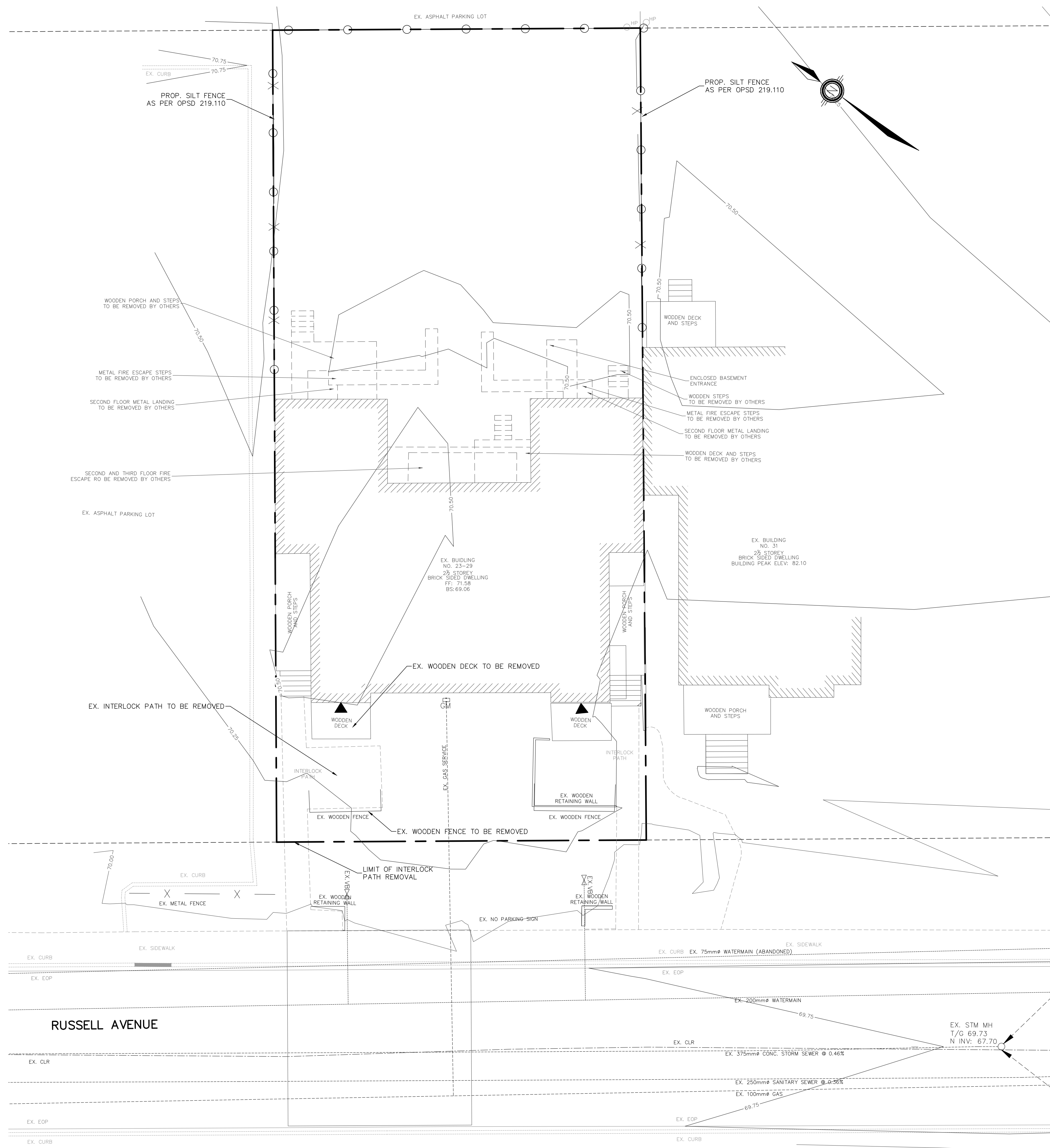


SMART LIVING PROPERTIES
29 RUSSELL AVE,
CITY OF OTTAWA

POST-DEVELOPMENT STORM
CATCHMENT PLAN

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| DRAWN BY | JM | VERT SCALE | N/A | DRAWING # | STM-2 |
| CHECKED BY | MWD | DATE | MAY 2022 | REVISION # | 1 |



KEY MAP
N.T.S.

- LEGEND**
- ○ ○ ○ ○ SILT FENCE
 - EX. WATERMAIN
 - EX. SANITARY MAIN
 - EX. STORM MAIN
 - PROP. ROOF LEADER
 - ▼ PEDESTRIAN DOOR

SEQUENCE OF CONSTRUCTION

1. ENGINEER TO BE NOTIFIED PRIOR TO INITIATION OF ANY ON SITE WORKS.
2. SILT FENCE AS PER DETAILS.
3. VEGETATION REMOVAL MAY COMMENCE AFTER ALL SILT FENCE IS INSTALLED AND APPROVED BY THE ENGINEER.
4. COMMENCE WITH EARTH WORKS AND SITE SERVICING.
5. INSTALLATION OF PROPOSED INFILTRATION FACILITIES TO THE TIME OF LANDSCAPING WORKS.
6. EROSION CONTROL MEASURES TO BE MAINTAINED AS DIRECTED BY THE ENGINEER DURING THE CONSTRUCTION PERIOD. ADDITIONAL CONTROL MEASURES MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
7. ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH SEED, SOD, MULCH OR OTHER ADEQUATE COVERING, AS INSTRUCTED BY THE ENGINEER.

NOTES FOR SEDIMENT & EROSION CONTROL

1. DISTURBED AREAS THAT HAVE FAILED TO HAVE STABLE GROUND COVER ESTABLISHED BY OCTOBER 30TH SHALL BE PROTECTED WITH A SILTATION CONTROL FENCE OR STRAW MULCH ETC. AND MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION BECOMES ESTABLISHED IN THE SUBSEQUENT GROWING SEASON.
2. ANY DEWATERING WASTE SHALL BE DISCHARGED TO A VEGETATED AREA AT LEAST 30m FROM ANY WATERCOURSE AND FILTERED. FILTERING METHODS MUST BE APPROVED BY THE SITE ADMINISTRATOR.
3. SILT FENCE SHALL BE PUT IN PLACE PRIOR TO AND MAINTAINED DURING ALL GRADING. SILT FENCE TO BE INSPECTED PRIOR TO COMMENCEMENT OF EARTH GRADING ACTIVITIES. SILT FENCE TO BE INSPECTED AND REPAIRED OR REPLACED IF DAMAGED AS DIRECTED BY THE SITE ADMINISTRATOR. SILT CONTROLS TO BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY RAIN EVENT. INSTALLATION SHALL BE TO THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS.
4. THE CONTRACTOR SHALL BE PREPARED FOR UNEXPECTED CONDITIONS AND ACCORDINGLY HAVE STOCKPILED MATERIALS ON SITE FOR NECESSARY REPAIRS AS A RESULT OF FAILED OR INADEQUATE CONTROL MEASURES. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK, AND AFTER EVERY RAINFALL EVENT.
5. CONTRACTOR SHALL OBTAIN A CURRENT COPY AND BECOME FAMILIAR WITH OPS 577, CONSTRUCTION SPECIFICATION FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS WELL AS ALL APPLICABLE MUNICIPAL STANDARDS.
6. THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES. SUCH MEASURES SHOULD BE PRESENTED IN WRITING FOR APPROVAL OF THE SITE ADMINISTRATOR AND MUST BE APPROVED IN WRITING BY THE MUNICIPALITY AND CONSERVATION AUTHORITY.
7. THE TOPS OF ALL FILTER FABRIC MUST BE A MINIMUM OF 1.0 METRES ABOVE THE GROUND LEVEL AND ATTACHED TO THE FENCE WITH A CONTINUOUS STEEL WIRE. ALTERNATIVELY, THE FILTER FABRIC MUST BE FOLDED OVER THE TOP OF THE FENCE AND ATTACHED TO THE FENCE WITH WIRE LOOPED THROUGH THE FABRIC ON BOTH SIDES OF THE FENCE. FILTER FABRIC IS TO BE TERRAFIX 270R OR EQUIVALENT.
8. ALL DISTURBED GROUND LEFT FOR MORE THAN 30 DAYS SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING, OR COVERING OR OTHER EQUIVALENT CONTROL MEASURES. THIS PERIOD OF INACTIVITY SHALL BE AT THE DISCRETION OF THE CITY OF OTTAWA BUT SHALL NOT EXCEED THIRTY DAYS OR SUCH LONGER PERIOD DEEMED ADVISABLE BY THE CITY OF OTTAWA'S PLANNING, INFRASTRUCTURE AND ECONOMIC DEVELOPMENT DEPARTMENT.
9. CONTRACTOR RESPONSIBLE FOR MUD TRACKING, PREVENTION, AND MAINTENANCE ON RUSSELL AVE.
10. ROADS TO BE LEFT IN A BROOM SWEEP CONDITION AT THE END OF EACH WORK DAY.
11. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

BENCHMARK
MAGNETIC NAIL IN UTILITY POLE LOCATED AT THE NORTH EAST CORNER OF THE PROPOSED SITE.
ELEVATION: 70.98

| NO. | REVISION NOTE | DATE | BY |
|-----|----------------------|----------|----|
| 01. | AS PER CITY COMMENTS | 01-11-23 | JM |



SMART LIVING PROPERTIES
29 RUSSELL AVE,
CITY OF OTTAWA

EROSION PROTECTION AND
REMOVALS PLAN

PEARSON ENGINEERING
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| DESIGNED BY | NW | HORIZ SCALE | 1:100 | PROJECT # | 22030 |
| DRAWN BY | JM | VERT SCALE | N/A | DRAWING # | EPR-1 |
| CHECKED BY | MWD | DATE | MAY 2022 | REVISION # | 1 |

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