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NO.	REVISIONS	DATE	INITIAL
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2	ISSUED FOR SITE PLAN APPROVAL	NOV 25/20	JX
1	ISSUED FOR PRELIMINARY DESIGN REVIEW	NOV 23/20	JX

Not Valid Unless Signed And Dated

**Professional Engineers**  
Ontario  
**Limited Licensee**  
Name: J.W.XU  
Number: 100171806  
Category: CIVIL-see limitation  
Limitations:  
This licence is subject to the Limitations as detailed on the certificate.  
Association of Professional Engineers of Ontario

SCALE: 1 : 125

DESIGN: JX

DRAWN: MH

CHECKED: GSC/JX

DATE: OCT 2020

PROPOSED 12 STOREY APARTMENT BUILDING  
20 MOUNTAIN CRESCENT  
CITY OF OTTAWA

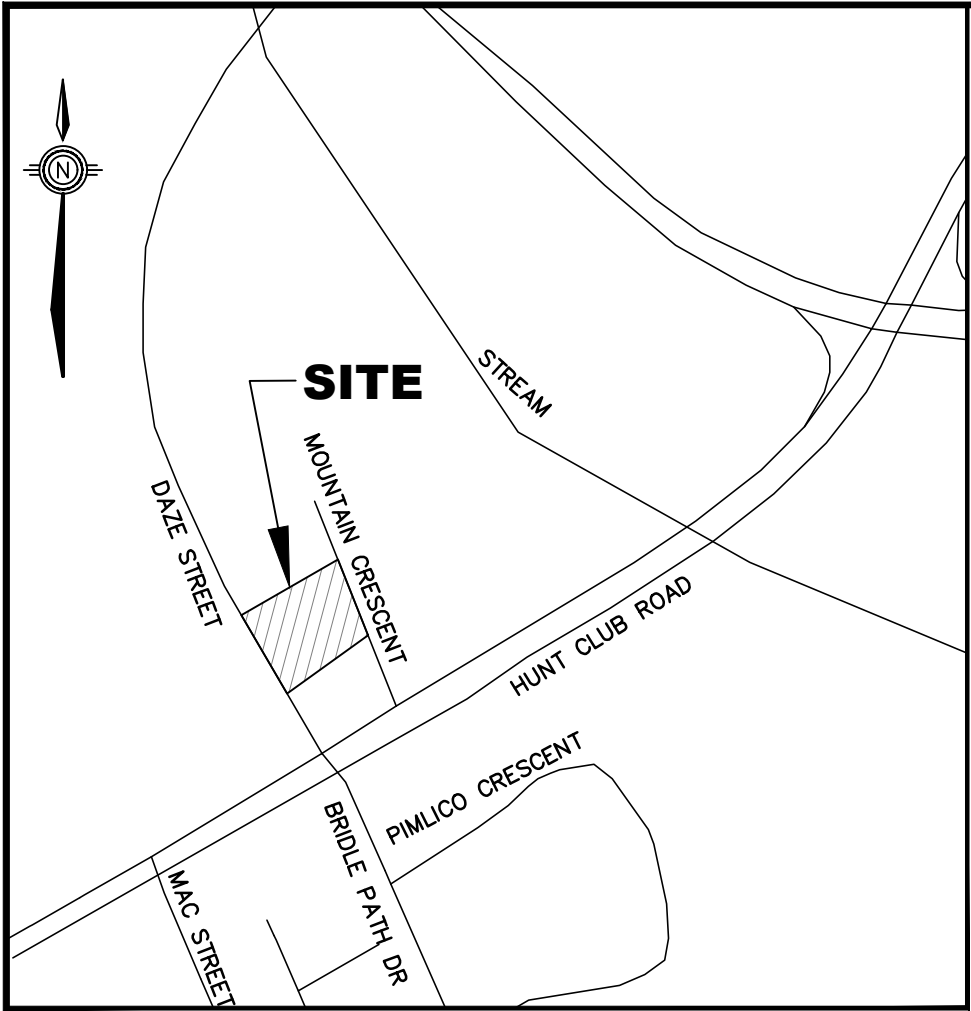
SITE SERVING PLAN

CONTRACT No. 20048 001-20048-S1

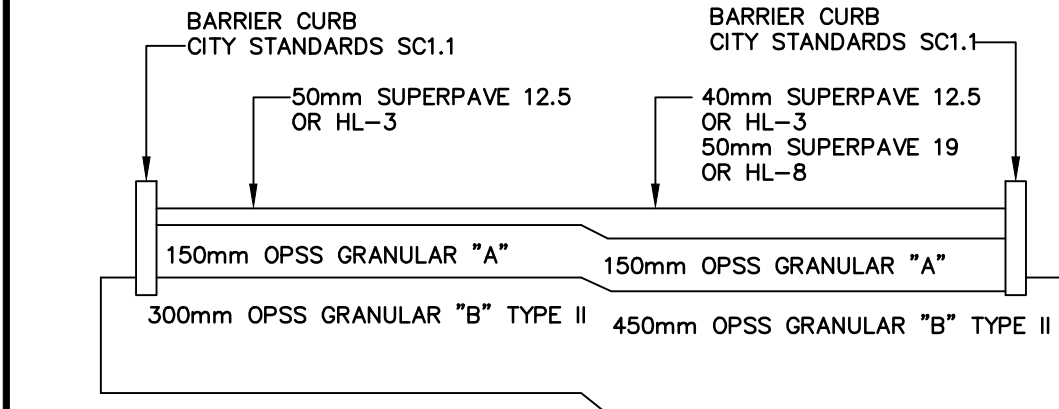
**Ainley GROUP**

CONSULTING  
ENGINEERS  
PLANNERS





KEY MAP  
SCALE: N.T.S.



PARKING AREAS  
(LIGHT DUTY)  
N.T.S.

ACCESS LANES  
(HEAVY DUTY)  
N.T.S.

(REFER TO GEOTECHNICAL INVESTIGATION  
REPORT PREPARED BY PATERSON GROUP  
DATED AUGUST 25, 2020)

#### NOTES: GENERAL

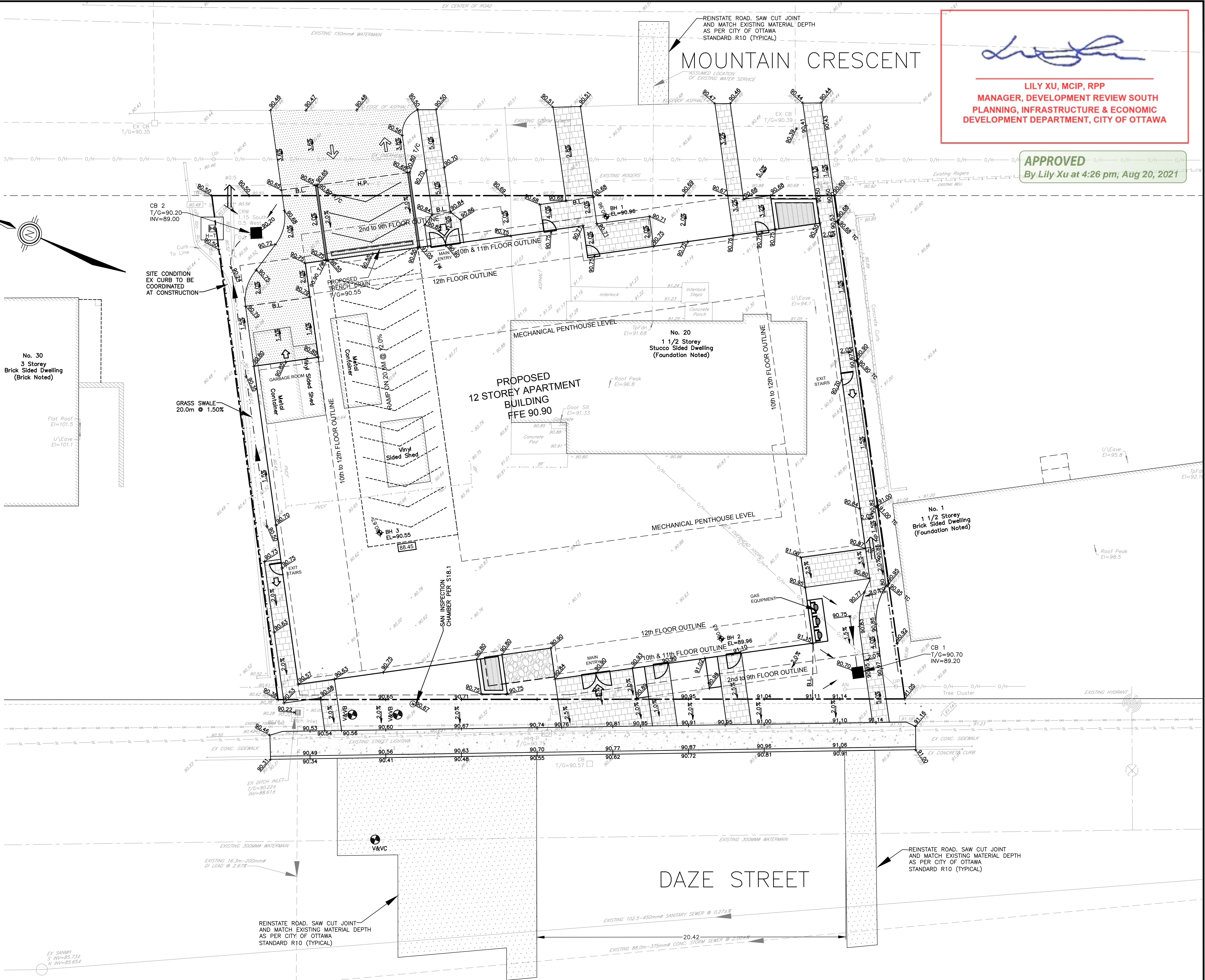
- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION
- ALL ELEVATIONS / DIMENSIONS ARE IN METRIC UNITS.
- JOB BENCH MARK - CONFIRM WITH LEGAL SURVEYOR PRIOR TO UTILIZATION.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCHBASIN OUTLETS ARE PROVIDED.
- ALL DISTURBED AREAS SHALL BE REINSTATED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF THE ENGINEER AND/OR CITY OF OTTAWA.
- ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.
- CURBS TO BE AS PER CITY OF OTTAWA STANDARD SC1.1.
- CONTRACTOR IS TO COMPLY WITH THE CITY OF OTTAWA REQUIREMENTS FOR TRAFFIC CONTROL WHEN WORKING ON PUBLIC ROADS.
- RESTORE PAVEMENT STRUCTURE AND SURFACES ON PUBLIC ROADS TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF THE CITY OF OTTAWA.
- ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. (CONSTRUCTION OPSS 206, 310 & 314 MATERIALS OPSS 1001, 1003 & 1010).
- REFER TO ARCHITECT'S SITE PLAN FOR BUILDING DIMENSIONS AND SITE LAYOUT. DIMENSIONS AND LAYOUT INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING, SUPPORT AND PROTECTION OF EXCAVATIONS.
- REFER TO LANDSCAPE ARCHITECT'S PLAN FOR SIDEWALK, PATHWAYS, CONCRETE MEDIAN, WALLS, FENCES, GATES, PLANTING AND OTHER LANDSCAPE FEATURE MATERIALS AND LOCATIONS.
- ALL CURB TO BE 150mm ABOVE FINISHED ASPHALT GRADE UNLESS OTHERWISE NOTED.
- DESIGN ELEVATIONS AS GIVEN ON THIS PLAN ARE TO BE ADHERED TO WITH NO CHANGES WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.
- U/G CONTRACTOR TO INSTALL AND MAINTAIN A FILTER CLOTH "CATCH" ACROSS ALL MH/CB LIDS TO PREVENT SEDIMENTS AND GRANULARS FROM ENTERING STRUCTURES UNTIL SOD AND PAVING IS COMPLETE. ANY SEDIMENTS/GANULARS ENTERING STRUCTURES AND SEWERS SHALL BE IMMEDIATELY REMOVED.
- U/G CONTRACTOR TO CONFIRM LOCATION(S) AND ELEVATION(S) OF EXISTING SERVICES AND STRUCTURES TO BE CONNECTED TO AND EXISTING SERVICES THAT MAY CAUSE CONFLICTS PRIOR TO CONSTRUCTION OF ANY NEW SEWER, WATER AND/OR STORM WATER WORKS. THE ENGINEER SHALL BE INFORMED IMMEDIATELY OF ANY ERRORS, DISCREPANCIES, CONFLICTS, OMISSIONS etc THAT ARE FOUND.
- THE CONTRACTOR SHALL VERIFY ALL SURFACE AND SUBSURFACE CONDITIONS PRIOR TO COMMENCING CONSTRUCTION BY REVIEWING THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY PATERSON GROUP, DATED AUGUST 25, 2020.
- THE CONTRACTOR SHALL APPRAISE HIS/HER SELF OF ALL SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED AND SHALL CARRY OUT THEIR OWN TEST PITS AS REQUIRED TO MAKE THEIR OWN INDEPENDENT ASSESSMENT OF GROUND CONDITIONS. THE CONTRACTOR SHALL NOT MAKE ANY CLAIM FOR ANY EXTRA COST DUE TO ANY SUCH GROUND CONDITIONS VARYING FROM THOSE ANTICIPATED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE AND PAY FOR ALL CONSTRUCTION RELATED PERMITS, FEES, INSPECTIONS AND APPROVALS REQUIRED BY THE CITY OF OTTAWA.
- IN PREPARATION FOR THE CONSTRUCTION OF THE NEW ASPHALTIC CONCRETE SURFACED ROADWAYS AND PARKING AREAS, ALL TOPSOIL, ORGANIC MATERIAL AND ANY LOOSE/SOFT OR WET SOIL SHOULD BE REMOVED FROM THE PROPOSED SUBGRADE SURFACE AND REPLACED WITH SUITABLE COMPACTED EARTH BORROW OR GRANULAR FILL.
- PRIOR TO PLACING GRANULAR FILL FOR THE ROADWAYS AND PARKING AREAS, THE EXPOSED SUBGRADE SHOULD BE HEAVILY PROOF ROLLED WITH A LARGE (10 TONNE) VIBRATORY STEEL DRUM ROLLER UNDER DRY CONDITIONS. ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUBCAVATED AND REPLACED WITH SUITABLE COMPACTED EARTH BORROW.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND CONSTRUCTION OF ALL SEDIMENT AND EROSION CONTROL MEASURES TO ENSURE THAT SEDIMENT DOES NOT MIGRATE FROM THE CONSTRUCTION SITE. SEDIMENTS SHALL BE CONTAINED AND DISPOSED OF IN A MANNER CONSISTENT WITH THE CITY OF OTTAWA SPECIFICATIONS. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES: LIMITING THE AMOUNT OF EXPOSED SOIL, USING FILTER CLOTH UNDER THE GRATES OF CATCHBASINS AND MANHOLES AND INSTALLING SILT FENCES (PER OPSS 219.110) AND OTHER EFFECTIVE SEDIMENT TRAPS.
- THE CONTRACTOR IS TO PROVIDE "AS-BUILT" INFORMATION (I.e. ASPHALT GRADES, TOP OF CURB GRADES, WATERMAIN OBVERTS, SEWER INVERTS, ETC.) TO THE ENGINEER AND/OR CLIENT.
- ASPHALTIC CONCRETE SHALL NOT BE PLACED UNTIL FINAL CCTV INSPECTION OF THE SEWERS IN ACCORDANCE WITH OPSS 409 HAVE BEEN COMPLETED AND TO THE ENGINEER AND/OR CLIENT.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL RE-CCTV RESULTING FROM DEFICIENCY REPAIRS AS DEEMED NECESSARY BY THE ENGINEER. CCTV INSPECTIONS WILL BE CONDUCTED UNTIL SUCH TIME AS THE RESULTS HAVE BEEN APPROVED BY THE ENGINEER AND/OR CITY OF OTTAWA AT NO ADDITIONAL COST TO THE CLIENT.
- A MUD MAT IS TO BE INSTALLED AT EACH CONSTRUCTION ENTRANCE AND SHALL BE MAINTAINED UNTIL THE PLACEMENT OF THE GRANULAR SUB-BASE. MUD MAT SHALL BE CONSTRUCTED OF 100mm Ø CLEAR STONE, 400mm THICK. MUD MAT SHALL BE OF SUFFICIENT LENGTH TO ENSURE THAT A MINIMUM AMOUNT OF MATERIALS IS TRUCKED OFF SITE ONTO ADJACENT ROADS.

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May 03, 2021 C:\Users\jau\Desktop\Working projects\20048-20 Mountain Crescent Design\002-20048-001.dwg

May 03, 2021



**LILY XU, MCIP, RPP**  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
By Lily Xu at 4:26 pm, Aug 20, 2021

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SCALE: 1 : 125  
DESIGN: JX  
DRAWN: MH  
CHECKED: GSC/JX  
DATE: OCT 2020

**PROPOSED 12 STOREY APARTMENT BUILDING**  
**20 MOUNTAIN CRESCENT**  
**CITY OF OTTAWA**

**GRADING AND DRAINAGE PLAN**

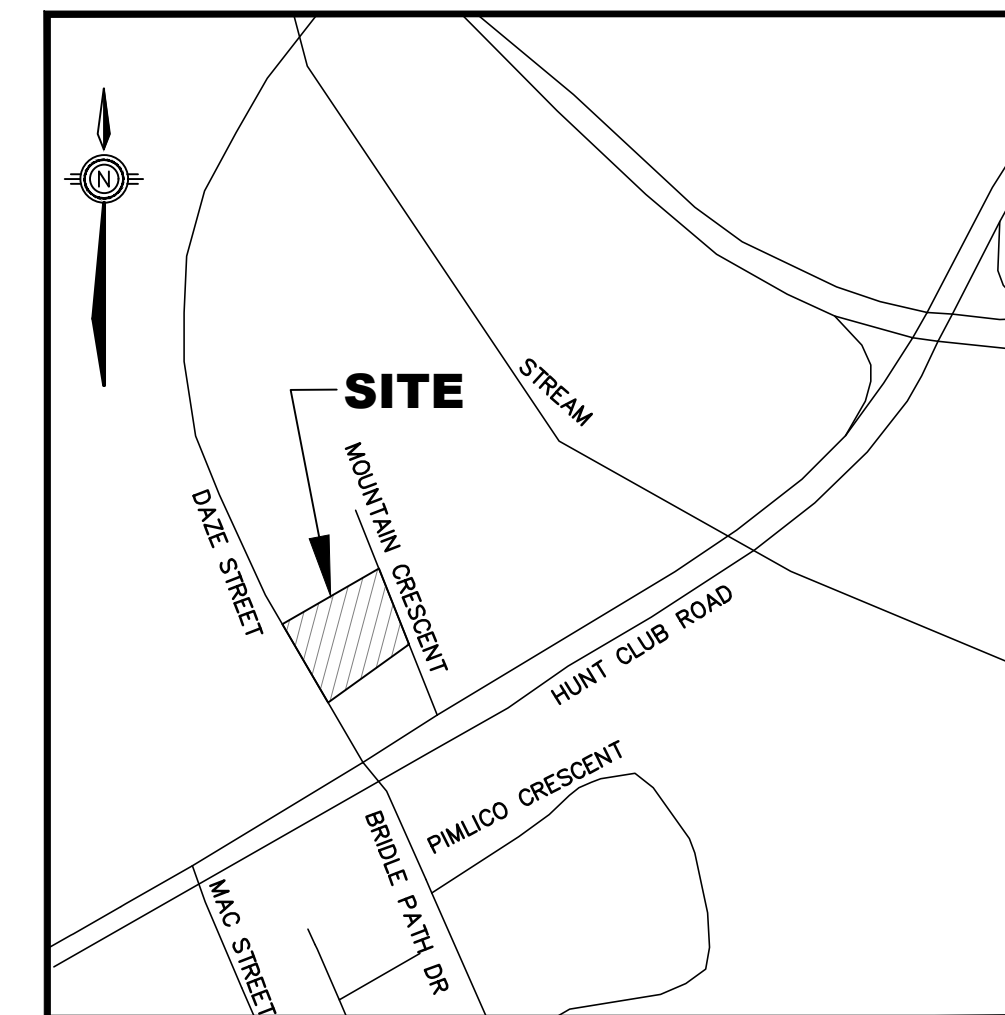
**Anley GROUP**  
CONSULTING  
ENGINEERS  
PLANNERS

CONTRACT No. 20048 002-20048-GR1

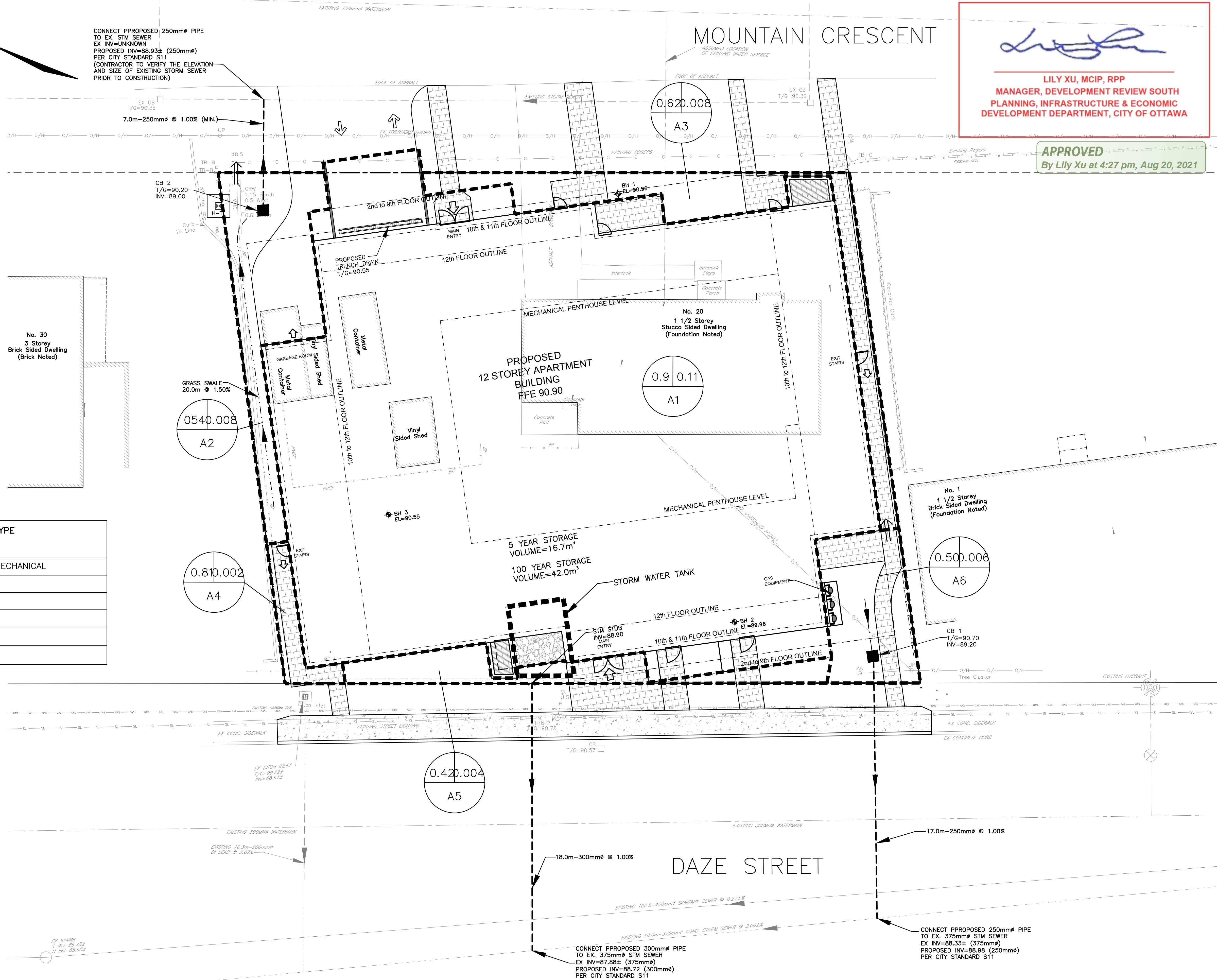
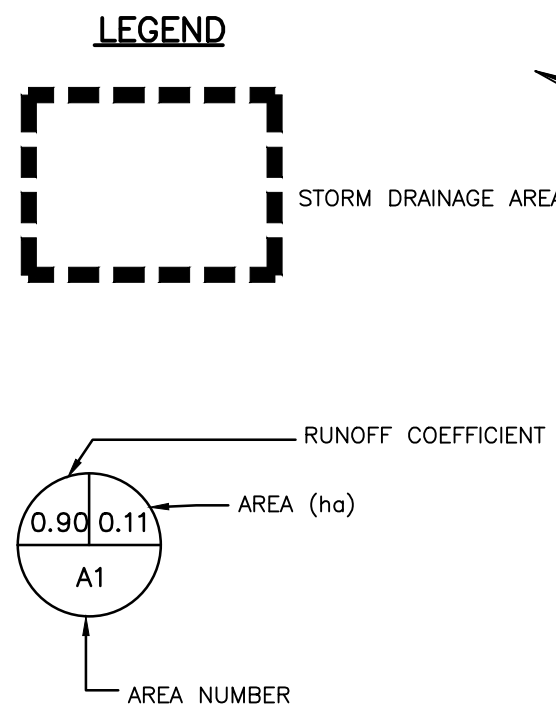


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May 03, 2021



KEY MAP  
SCALE: N.T.S.



**LILY XU, MCIP, RPP**  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
By Lily Xu at 4:27 pm, Aug 20, 2021

100 YEAR PONDING VOLUME, DEPTH & SPILL ELEVATION

AREA NO	100 YEAR STORAGE VOLUME	PONDING DEPTH	SPILL ELEVATION	OUTLET LOCATION	CONTROLLED RELEASE RATE	ORIFICE TYPE
A1	42.0m³	N/A	N/A	BUILDING	5.68 L/S	REFER TO MECHANICAL
A2	0.0m³	N/A	N/A	CB 2	1.30 L/S	FREE FLOW
A3	0.0m³	N/A	N/A	STREET	1.39 L/S	FREE FLOW
A4	0.0m³	N/A	N/A	EX CB	0.52 L/S	FREE FLOW
A5	0.0m³	N/A	N/A	STREET	0.52 L/S	FREE FLOW
A6	0.0m³	N/A	N/A	CB 1	0.79 L/S	FREE FLOW

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**20 MOUNTAIN CRESCENT**  
**CITY OF OTTAWA**

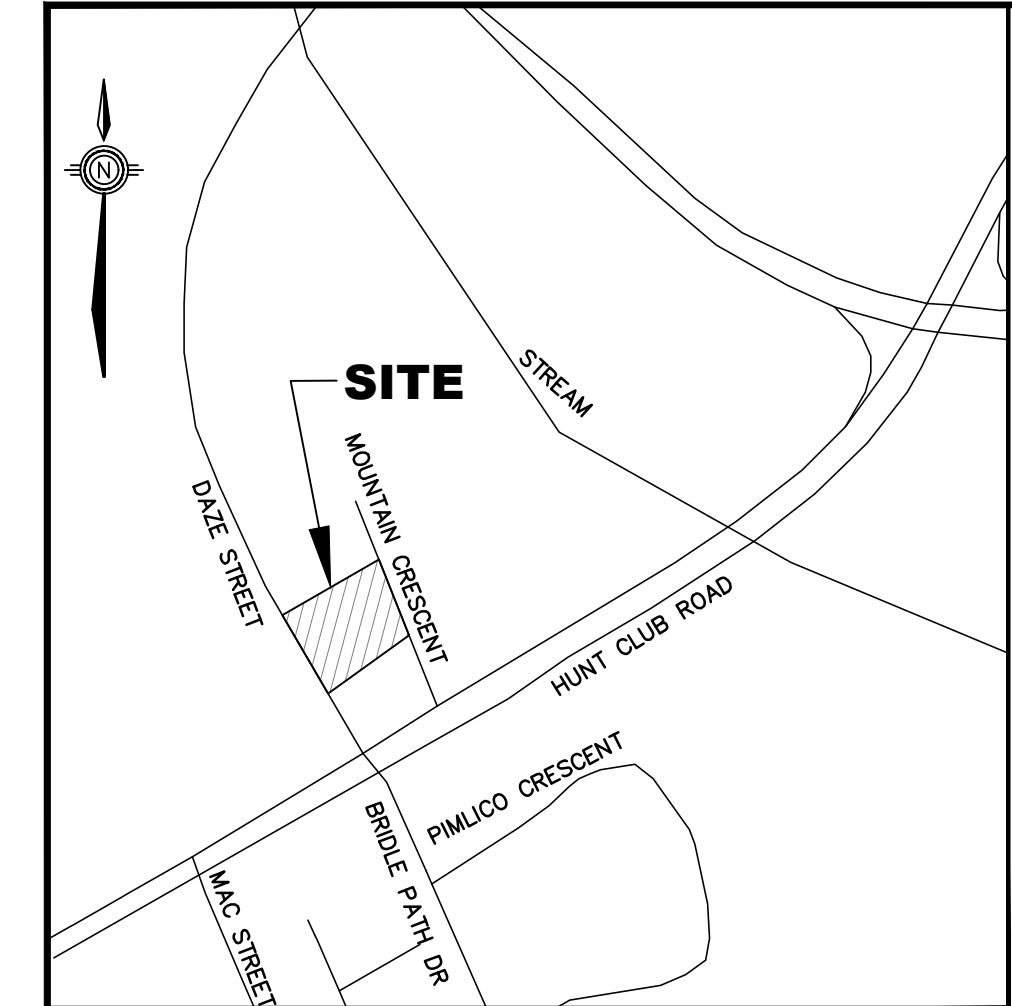
**STORMWATER MANAGEMENT PLAN**

**Anley GROUP** CONSULTING ENGINEERS PLANNERS  
CONTRACT No. 20048 003-20048-SWM1



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May 03, 2021



KEY MAP  
SCALE: N.T.S.

LEGEND

— X — SILT FENCE  
(PER OPSD-219.110)

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND CONSTRUCTION OF ALL SEDIMENT AND EROSION CONTROL MEASURES TO ENSURE THAT SEDIMENT DOES NOT MIGRATE FROM THE CONSTRUCTION SITE. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, USING FILTER CLOTH UNDER THE GRATES OF CATCHBASINS AND MANHOLES (SEE NOTE 2) AND INSTALLING SILT FENCES (PER OPSD 219.110) AND OTHER EFFECTIVE SEDIMENT TRAPS.
2. THE CONTRACTOR IS TO SUPPLY, INSTALL AND MAINTAIN FILTER CLOTH BETWEEN THE FRAME AND COVER ON ALL PLANNED CATCH BASINS AND MANHOLES FOR THE DURATION OF CONSTRUCTION.
3. A MUD MAT IS TO BE INSTALLED AT EACH CONSTRUCTION ENTRANCE AND SHALL BE MAINTAINED UNTIL THE PLACEMENT OF THE GRANULAR SUB-BASE. MUD MAT SHALL BE CONSTRUCTED OF 100mm $\phi$  CLEAR STONE, 400mm THICK. MUD MAT SHALL BE OF SUFFICIENT LENGTH TO ENSURE THAT A MINIMUM AMOUNT OF MATERIALS IS TRUCKED OFF SITE ONTO ADJACENT ROADS.
4. IN ORDER TO AVOID POLLUTANTS FROM BEING DISCHARGED, THE CONTRACTOR MUST MINIMIZE THE GENERATION OF DUST THROUGH APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES.
5. THE CONTRACTOR IS PROHIBITED FROM DISCHARGING GROUND WATER OR ACCUMULATED STORMWATER THAT IS REMOVED FROM EXCAVATIONS, TRENCHES, FOUNDATIONS, ETC. UNLESS SUCH WATERS ARE FIRST EFFECTIVELY TREATED BY APPROPRIATE CONTROLS AS SEDIMENT SOCKS, DEWATERING TANKS, ETC.
6. THE CONTRACTOR MUST INITIATE SOIL STABILIZATION MEASURES IMMEDIATELY WHENEVER EARTH-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE.

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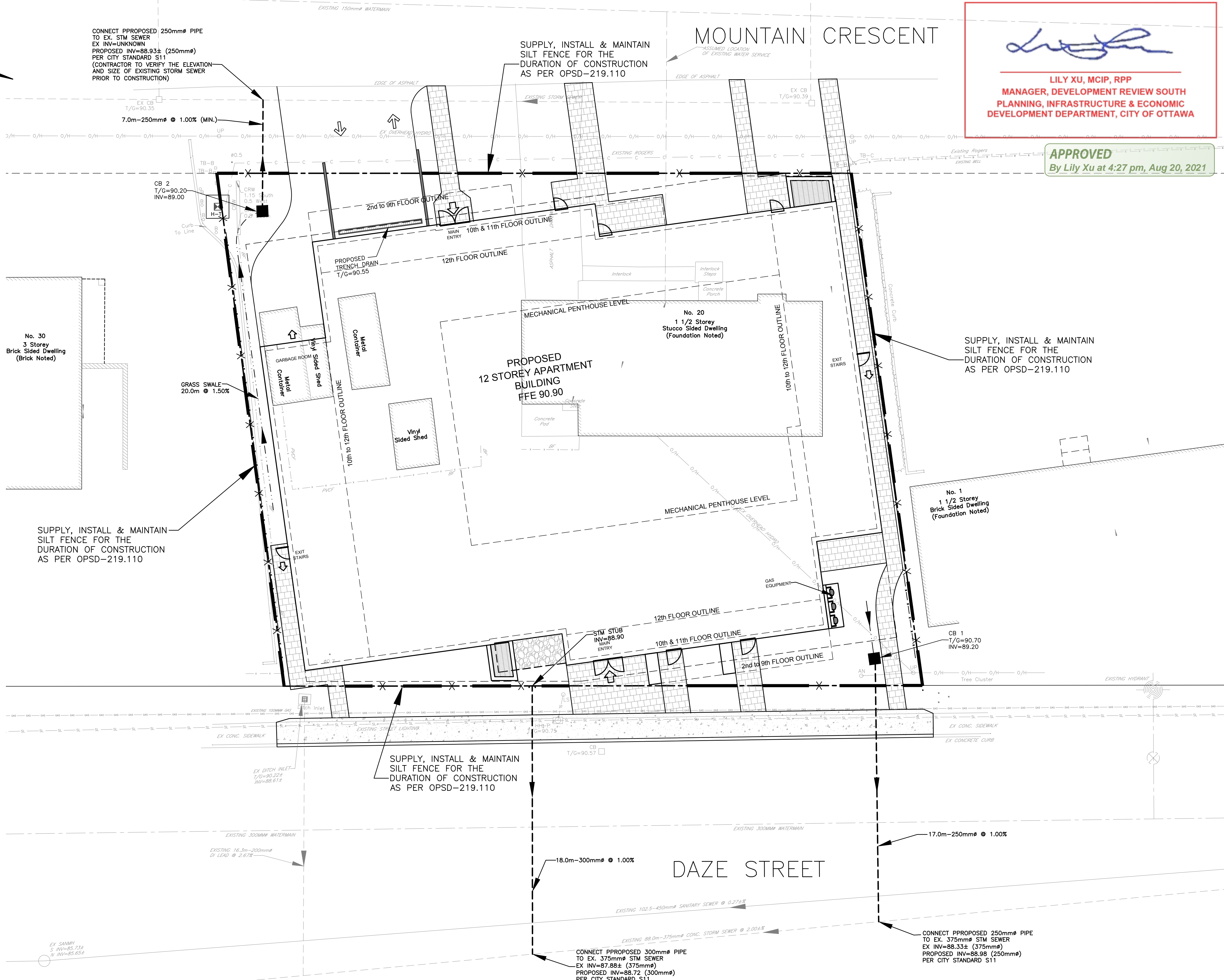
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CITY OF OTTAWA

EROSION AND SEDIMENT CONTROL PLAN

**Anley** GROUP  
CONSULTING  
ENGINEERS  
PLANNERS

CONTRACT No. 20048 004-20048-SCI



*Lily Xu*  
LILY XU, MCIP, RPP  
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DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED  
By Lily Xu at 4:27 pm, Aug 20, 2021

D07-12-20-0166

#18326