

**LEGEND**

DC	BARRIER CURB CURB DEPRESSION	---	CENTRELINE OF SWALE
■	HEAVY DUTY ASPHALT	---	SLOPING AT 3:1 UNLESS SPECIFIED
□	CONCRETE SIDEWALK	---	PROPOSED ELEVATION
□	PAVING STONE	---	EXISTING ELEVATION
○	STORM MANHOLE	---	SWALE ELEVATION
○	CATCHBASIN OR DITCH INLET	---	TOP OF WALL ELEVATION
○	LANDSCAPE CATCHBASIN	---	BOTTOM OF WALL ELEVATION
○	SANITARY MANHOLE	---	EMERGENCY OVERLAND FLOW ROUTE
○	PERFORATED PIPE	---	SILT FENCE BARRIER (AS PER OPSD 219.130)
○	WATER VALVE/CHAMBER	---	BUILDING ENTRANCE OVERHEAD DOOR
○	FIRE HYDRANT	---	REMOTE WATER METER
○	CROSSING CONFLICT LOCATION	---	SEDIMENT CONTROL DEVICE
○	LOCATION OF SCUPPER PER ARCHITECTURAL	---	PROPERTY LINE
○	EXTENT OF SEWER/SERVICE INSULATION	---	DOWNSPOUT C/W SPLASH PAD
○	EXTENT OF MUD MAT	---	

**FOR REVIEW ONLY**  
NOT FOR CONSTRUCTION

No.	Revisions	Date
9	ISSUED FOR REVIEW	AUG. 09, 2024
8	ISSUED FOR REVIEW	MAY 22, 2024
7	ISSUED FOR REVIEW	FEB. 16, 2024
6	REVISED WATER SERVICING	FEB. 28, 2022
5	ISSUED FOR PERMIT	FEB. 04, 2022
4	REVISED PER CITY COMMENTS	NOV 24, 2021
3	REVISED PER CITY COMMENTS	JULY 30, 2021
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1	ISSUED FOR REVIEW	NOV. 13, 2020

Check and verify all dimensions before proceeding with the work. Do not scale drawings.

SCALE 1:250

**McINTOSH PERRY**  
egis GROUP

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Stamp:

Client: **INVERNESS HOMES**  
38 AURIGA DRIVE, SUITE 200  
OTTAWA, ON K2E8A5

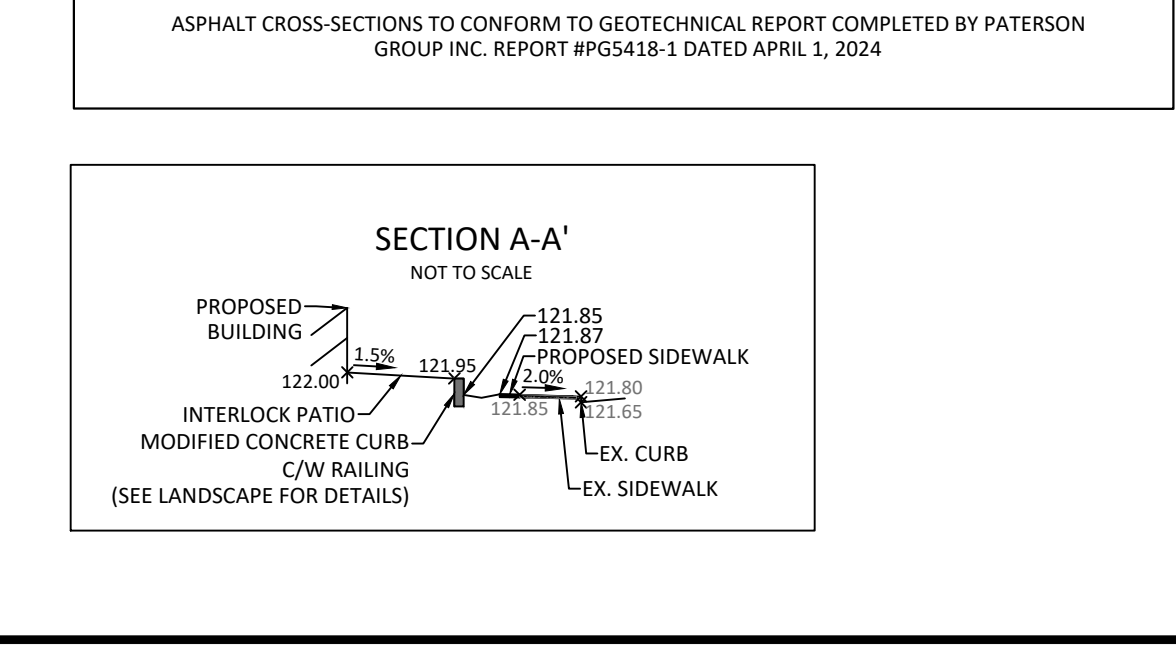
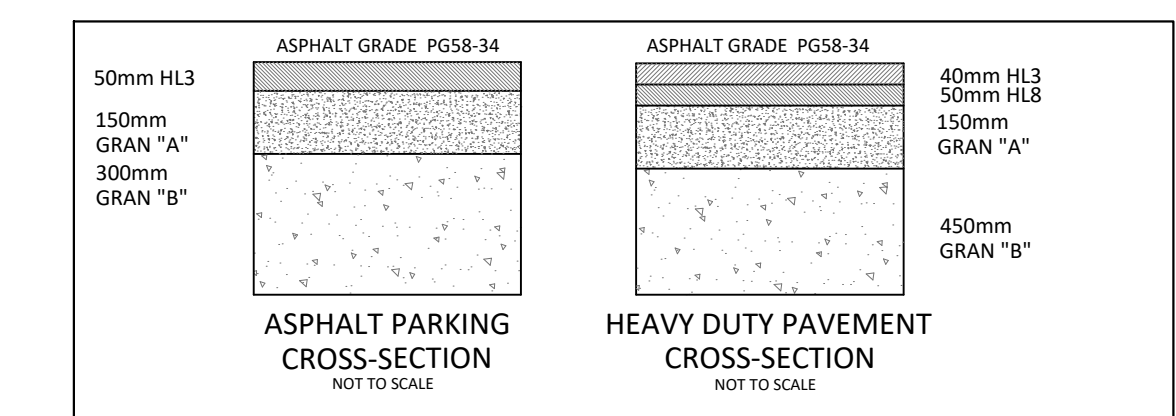
Project: **MIXED USE DEVELOPMENT**  
1518-1526 STITTVILLE MAIN STREET

Drawing Title: **SITE GRADING AND DRAINAGE PLAN**

Scale: 1:250  
Project Number: CP-19-0608  
Drawing Number: C101

- GENERAL NOTES**
- THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
  - THIS PLAN IS NOT A CADASTRAL SURVEY SHOWING LEGAL PROPERTY BOUNDARIES AND EASEMENTS. THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN DERIVED FROM INFORMATION SUPPLIED BY (OR SHOWN ON) FAIRHALL, MOFFATT, WOODLAND LTD. SURVEY PLAN HAA15600 DATED APRIL 16, 2020 AND CANNOT BE RELIED UPON TO BE ACCURATE OR COMPLETE. THE PRECISE LOCATION OF THE CURRENT PROPERTY BOUNDARIES AND EASEMENTS CAN ONLY BE DETERMINED BY AN UP-TO-DATE LAND TITLES SEARCH AND A SUBSEQUENT CADASTRAL SURVEY PERFORMED AND CERTIFIED BY AN ONTARIO LAND SURVEYOR.
  - THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY BEFORE COMMENCING CONSTRUCTION.
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  - RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY AUTHORITIES.
  - EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY THE ENGINEER AND THE CITY.
  - TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
  - ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS.
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  - ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
    - ELECTRICAL SERVICE - HYDRO OTTAWA
    - GAS SERVICE - ENBRIDGE
    - TELEPHONE SERVICE - BELL CANADA
    - TELEVISION SERVICE - ROGERS
  - INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO OTTAWA, BELL AND THE CITY.
  - ALL PROPOSED CURB SHALL BE CONCRETE BARRIER CURB AS PER CITY STANDARD DRAWING SCL1.4 UNLESS OTHERWISE SPECIFIED. SIDEWALK PER CITY STANDARD DRAWING SCL1.4 UNLESS OTHERWISE SPECIFIED.
  - ALL EXISTING REDUNDANT PRIVATE APPROACHES FRONTING THIS DEVELOPMENT MUST BE REMOVED TO THE SATISFACTION OF THE CITY.
  - NO EXCESS DRAINAGE, EITHER DURING OR AFTER CONSTRUCTION, IS TO BE DIRECTED TOWARDS NEIGHBORING PROPERTIES.
  - NO ALTERATION OF EXISTING GRADES AND DRAINAGE PATTERNS ON PROPERTY BOUNDARIES.

- EROSION AND SEDIMENT CONTROL**
- 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, TEMPORARY SEDIMENT CONTROL, GEOSOCK INSERTS WITH AN OVERFLOW UNDER GRATE OR COVER) TO BE IMPLEMENTED DURING CONSTRUCTION ON ALL PROPOSED ROAD CATCHBASINS, REARWARD CATCHBASINS AND CATCHBASIN MANHOLES AND OTHER SEDIMENT TRAPS. NO RECYCLED GEOSOCK MATERIAL SHALL BE PERMITTED FOR USE ON SITE.
  - AT THE DISCRETION OF THE PROJECT MANAGER OR MUNICIPAL STAFF, ADDITIONAL SILT CONTROL DEVICES SHALL BE INSTALLED AT DESIGNATED LOCATIONS.
  - FOR SILT FENCE BARRIER, USE OPSD 219.110. GEOTEXTILE FOR SILT FENCE AS PER OPSD 1860, TABLE 3.
  - EXCEPT AS PROVIDED IN PARAGRAPHS 4.1. and 4.2. BELOW, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED.
    - WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE.
    - WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.
  - SEDIMENT THAT IS ACCUMULATED BY THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED IN A MANNER THAT AVOIDS ESCAPE OF THE SEDIMENT TO THE DOWNSTREAM SIDE OF THE CONTROL MEASURE AND AVOIDS DAMAGE TO THE CONTROL MEASURE. SEDIMENT SHALL BE REMOVED TO THE LEVEL OF THE GRADE EXISTING AT THE TIME THE CONTROL MEASURE WAS CONSTRUCTED AND BE ACCORDING TO THE FOLLOWING:
    - FOR LIGHT-DUTY SEDIMENT BARRIERS, ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE IT REACHES THE LESSER OF THE FOLLOWING:
      - A DEPTH OF ONE-HALF THE EFFECTIVE HEIGHT OF THE CONTROL MEASURE.
      - A DEPTH OF 300 MM IMMEDIATELY UPSTREAM OF THE CONTROL MEASURE.
    - FOR ALL CONTROL MEASURES, ACCUMULATED SEDIMENT SHALL BE REMOVED AS NECESSARY TO PERFORM MAINTENANCE REPAIRS.
    - ACCUMULATED SEDIMENT SHALL BE REMOVED PRIOR TO THE REMOVAL OF THE CONTROL MEASURE.
    - ACCUMULATED SEDIMENT IS TO BE REMOVED AND DISPOSED OF AS PER OPSD 180.
  - ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MONITORED TO ENSURE THEY ARE IN EFFECTIVE WORKING ORDER. THE CONDITION OF THE CONTROL MEASURES SHALL BE MONITORED PRIOR TO ANY FORECAST STORM EVENT AND FOLLOWING A STORM EVENT.
  - DUST CONTROL MEASURES SHOULD BE CONSIDERED PRIOR TO CLEANING AND GRADING. THE USE OF WATER, CALCIUM CHLORIDE FLAKES/SOLUTION OR MAGNESIUM CHLORIDE FLAKES/SOLUTION SHALL BE USED AS DUST SUPPRESSANTS AS PER OPSD 506. THIS IS TO LIMIT WIND EROSION OF SOILS WHICH MAY TRANSPORT SEDIMENTS OFFSITE, WHERE THEY MAY BE WASHED IN THE RECEIVING WATER BY THE NEXT RAINSTORM.
  - ALL "GREEN AREAS" TO BE TREATED WITH 150mm TOPSOIL AND SOD AS SOON AS FEASIBLE, AS PER OPSD 570.
  - TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
  - ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
  - STOCKPILED MATERIAL IS TO BE STORED AWAY FROM POTENTIAL RECEIVERS (E.G. STORM CATCHBASINS, MANHOLES), AND BE SURROUNDED BY EROSION CONTROL MEASURES WHERE MATERIAL IS LEFT IN PLACE IN EXCESS OF 14 DAYS.
  - IF REQUIRED, DEWATERING/SETTLING BASINS SHALL BE CONSTRUCTED AS PER OPSD 219.240 AND LOCATED ON FLAT GRADE UPSTREAM OF OTHER EXISTING MITIGATION MEASURES. WATERCOURSES SHALL NOT BE DIVERTED, OR BLOCKED, AND TEMPORARY WATERCOURSES CROSSINGS SHALL NOT BE CONSTRUCTED OR UTILIZED, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. IF CLOSURE OF ANY PERMANENT WATER PASSAGE IS NECESSARY, THE CONTRACTOR SHALL RELEASE ANY STRANDED FISH TO THE OPEN PORTION OF THE WATERCOURSE WITHOUT HARM.
  - ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO OPSD 577
  - WHERE DEWATERING IS REQUIRED, THE DISCHARGED WATER SHALL BE CONTROLLED IN ACCORDANCE WITH OPSD 518.
  - ALL SETTLING/FILTRATION BASINS SHALL BE EQUIPPED WITH TERRAFIX 270R GEOTEXTILE (OR APPROVED EQUIVALENT) AND SHALL BE CLEANED AND REPLACED AS REQUIRED.
  - ALL SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY



**ROOF DRAIN (B2A)**

TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A-ADJ (FULLY EXPOSED)		
NUMBER OF ROOF DRAINS	2-YEAR	5-YEAR	100-YR
ROOFTOP STORAGE AVAILABLE (m³)	2.95	2.95	2.95
DEPTH OF FLOW (m)	0.015	0.020	0.040
FLOW PER ROOF DRAIN (L/S)	0.19	0.25	0.50
TOTAL FLOW	0.19	0.25	0.50

**ROOF DRAIN (B2B)**

TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A-ADJ (FULLY EXPOSED)		
NUMBER OF ROOF DRAINS	2-YEAR	5-YEAR	100-YR
ROOFTOP STORAGE AVAILABLE (m³)	15.79	15.79	15.79
DEPTH OF FLOW (m)	0.025	0.035	0.060
FLOW PER ROOF DRAIN (L/S)	0.32	0.44	0.76
TOTAL FLOW	0.32	0.44	0.76

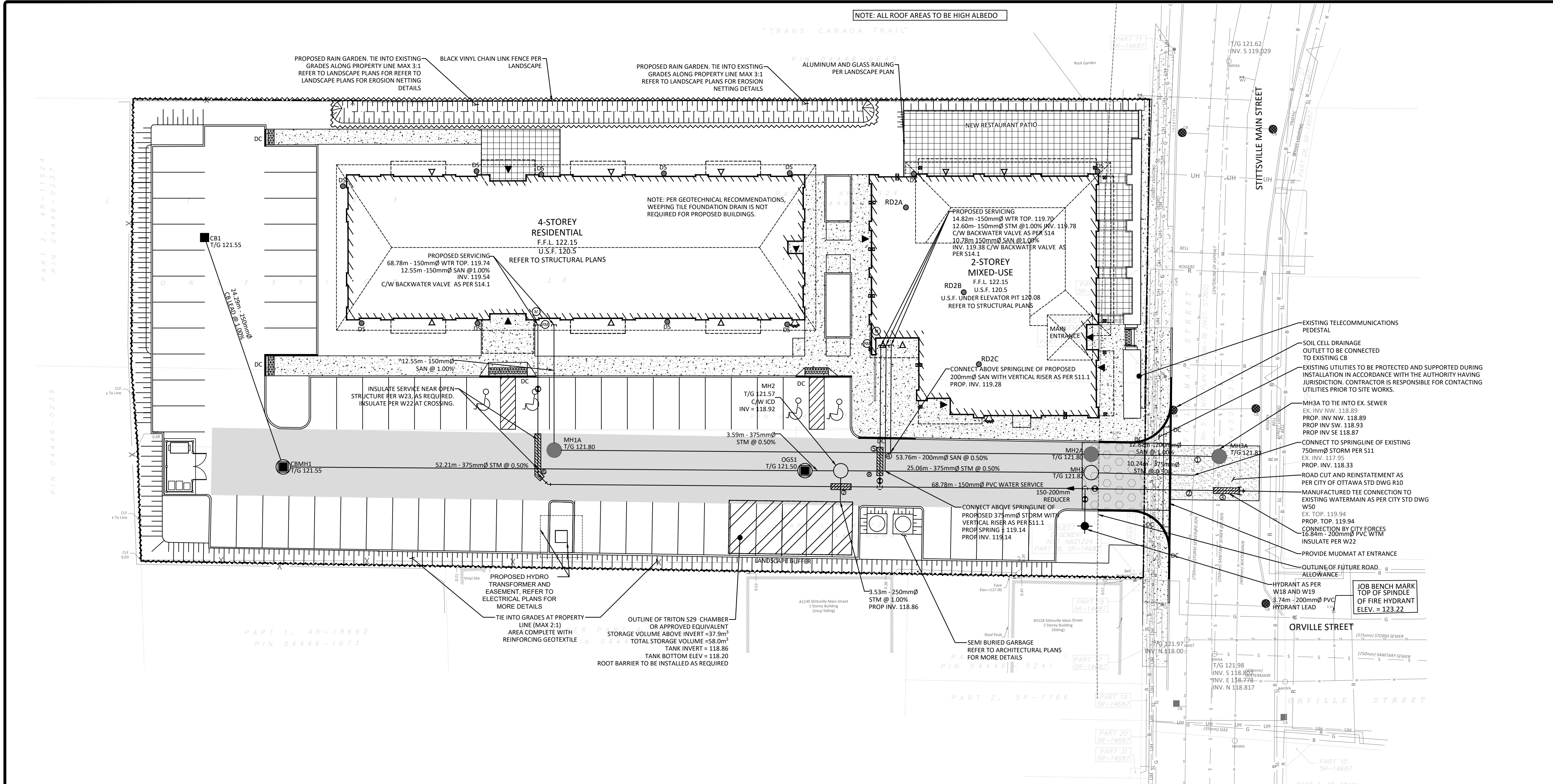
**ROOF DRAIN (B2C)**

TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A-ADJ (FULLY EXPOSED)		
NUMBER OF ROOF DRAINS	2-YEAR	5-YEAR	100-YR
ROOFTOP STORAGE AVAILABLE (m³)	10.78	10.78	10.78
DEPTH OF FLOW (m)	0.025	0.035	0.060
FLOW PER ROOF DRAIN (L/S)	0.32	0.44	0.76
TOTAL FLOW	0.32	0.44	0.76

**ICD TABLE**

STRUCTURE ID	ICD SIZE	STYLE	AREA ID	2-YEAR DESIGN HEAD (m)	2-YEAR DESIGN FLOW (L/S)	5-YEAR DESIGN HEAD (m)	5-YEAR DESIGN FLOW (L/S)	100-YEAR DESIGN HEAD (m)	100-YEAR DESIGN FLOW (L/S)
MH2	TEMPEST LMF 65	VORTEX	83	0.33	2.10	2.58	6.00	2.67	6.10

D07-12-20-0167



### WATER COVER TABLE

LOCATION	STATION	FINISHED GRADE	TOP OF PIPE	COVER
400 X 200 CONNECTION	0+100.00	121.82	119.94	1.88
CROSSING #3 PER W25.2	0+102.17	121.85	119.65	2.20
CROSSING #2 PER W25.2	0+104.65	121.84	119.44	2.40
VALVE	0+114.47	121.85	119.45	2.40
200 X 200 TEE	0+115.46	121.84	119.44	2.40
150-200 REDUCER	0+116.84	121.83	119.43	2.40
150 X 150 TEE	0+136.02	121.65	119.25	2.40
CROSSING #7 PER W25.2	0+139.94	121.60	119.75	1.85
45° BEND	0+169.23	121.83	119.43	2.40
45° BEND	0+170.67	121.83	119.75	2.08
CROSSING #6 PER W25.2	0+171.24	121.82	119.90	1.92
VALVE	0+179.20	121.97	119.57	2.40
BLDG (RESIDENTIAL)	0+185.62	122.14	119.74	2.40
200 X 200 TEE	0+200.00	121.84	119.44	2.40
VALVE	0+201.00	121.87	119.47	2.40
HYDRANT	0+203.74	122.07	119.67	2.40
150 X 150 TEE	0+300.00	121.64	119.24	2.40
VALVE	0+300.60	121.63	119.23	2.40
CROSSING #8 PER W25.2	0+301.59	121.65	119.68	1.97
CROSSING #5 PER W25.2	0+303.43	121.73	119.80	1.93
BLDG (COMMERCIAL)	0+314.82	122.13	119.70	2.43

### CROSSING CONFLICT TABLE

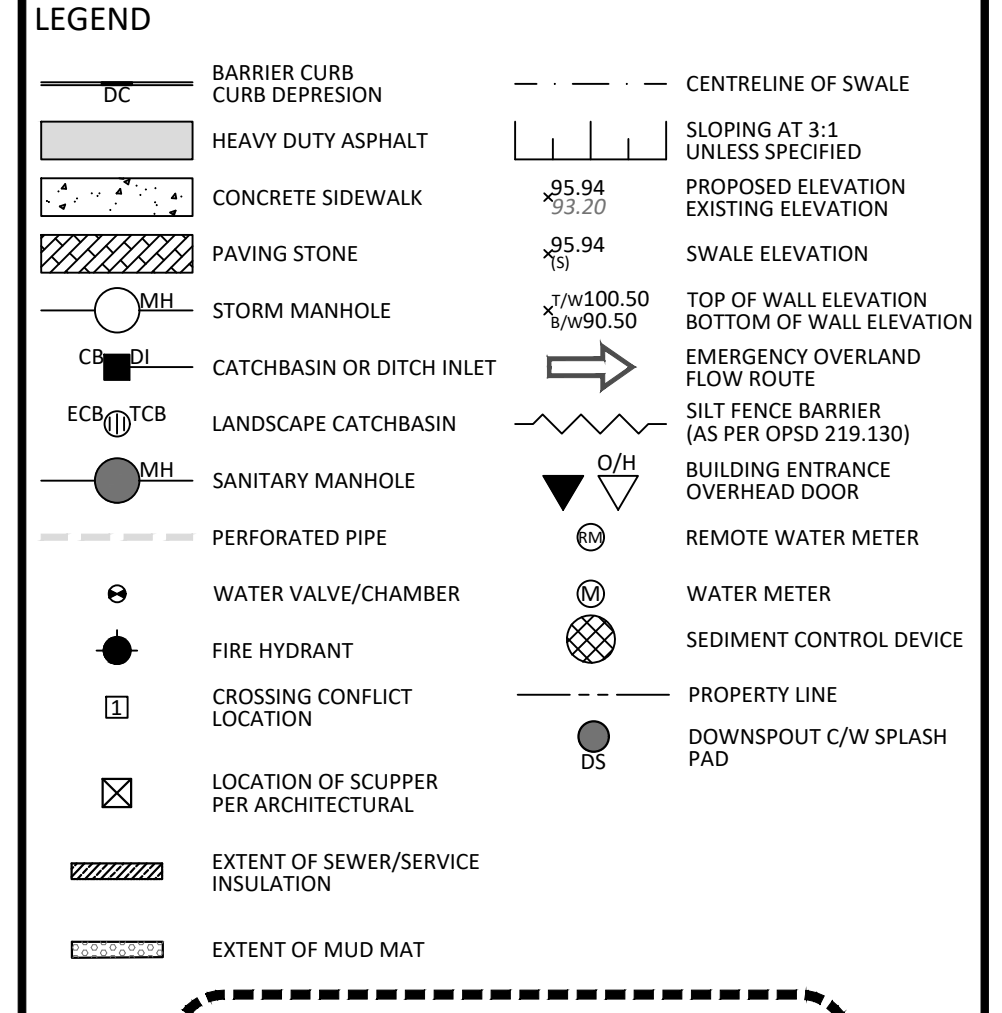
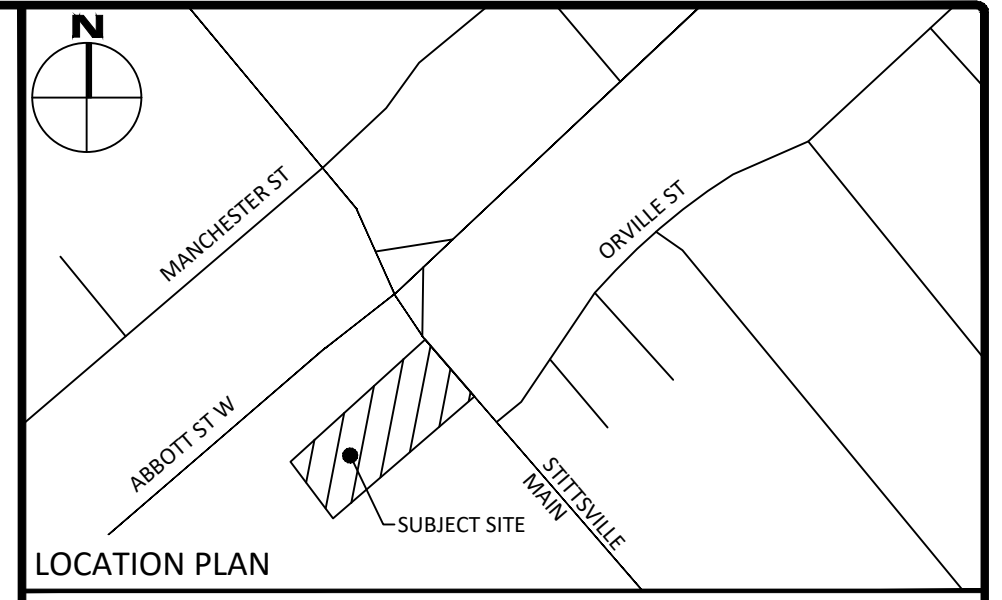
LOCATION	DESCRIPTION	SEPARATION
1	200mm SAN SERVICE INV 118.96 750mm STM SEWER OVB 118.69	0.27
2	200mm WTR SERVICE INV 119.24 750mm STM SEWER OVB 118.71	0.53
3	250mm SAN SEWER OVB 119.14 CROSSING PER W25.2	0.25
4	150mm WTR SERVICE INV 119.65 200mm SAN SEWER OVB 119.37	0.29
5	150mm WTR SERVICE INV 119.65 200mm SAN SEWER OVB 119.39	0.26
6	150mm WTR SERVICE INV 119.75 375mm STM SEWER OVB 119.50	0.25
7	150mm WTR SERVICE INV 119.60 250mm STM SEWER OVB 119.13	0.47
8	375mm STM SEWER OVB 119.27 150mm WTR SERVICE INV 119.53	0.26

### STORM STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
CB1	121.55		SE120.050	STRUC. OPSD 705.010 COVER CITY S19
CBM1	121.55	NW119.807	NE119.254	COVER CITY STD S28.1 FRAME CITY STD S25 STRUC. OPSD 701.010
MH2	121.57	SW118.952	NE118.920 SE118.900	COVER CITY STD S28.1 FRAME CITY STD S25 STRUC. OPSD 701.010 NE OUTLET C/W TEMPEST LWF-65 OR APPR. EQV. WATERTIGHT LID PER OPSD 401.030
MH3	121.82	SW118.795	NE118.381	COVER CITY STD S24.1 FRAME CITY STD S25 STRUC. OPSD 701.010 WATERTIGHT LID PER OPSD 401.030
OGS1	121.50	SW118.995	NE118.970	STORMCEPT EF04 OR APPR. EQV.
S-29	121.58	NW118.865		TRITON S-29 OR APPR. EQV.

### SAN STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
MH1A	121.80	NW119.410	NE119.349	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010
MH2A	121.80	SW119.080	NE119.058	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010
MH3A	121.82	SW118.930 NW118.890	SE118.870	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010



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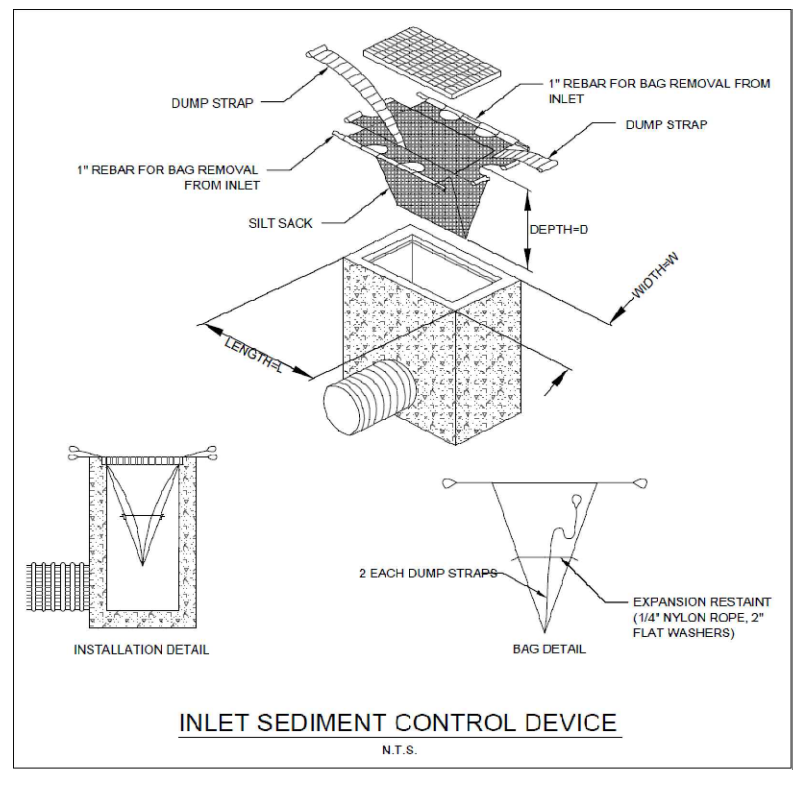
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- ### SEWER NOTES
- CONSTRUCT ALL SEWERS AND APPURTENANCES TO CITY STANDARDS (IF AVAILABLE) OR AS PER OPSD STANDARDS.
  - SEWER TRENCHING AND BEDDING SHALL CONFORM TO CITY STANDARD S6 AND S7 UNLESS NOTED OTHERWISE.
  - BEDDINGS SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
  - SUB-BEDDING, IF REQUIRED SHALL BE AS PER THE DIRECTION OF A GEOTECHNICAL ENGINEER.
  - BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR SAND.
  - TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0m BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
  - SEWERS AND CONNECTIONS 150mm DIAMETER AND SMALLER TO BE PVC SDR 28 OR APPROVED EQUIVALENT. SEWERS AND CONNECTIONS 200mm DIAMETER AND LARGER TO BE PVC SDR 35 OR APPROVED EQUIVALENT.
  - INSULATE ALL SEWERS AND/OR SERVICES THAT HAVE LESS THAN 2.0m OF COVER WITH THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD S35.
  - SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND LOCATED WITH 2" X 4" X 8" LONG MARKER.
  - CONTRACTOR TO TELEVIEW (CCTV) ALL PROPOSED SEWERS ONSITE. OUTLET CONNECTION TO THE MAIN AND PIPES 150mm OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
  - DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN.
  - ALL SANITARY MANHOLES TO BE BENCHED PER OPSD 701.021.
  - PROPOSED SEWER CROSSING EXISTING UTILITIES TO BE PER CITY STANDARD S10.

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  - INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO OTTAWA, BELL AND THE CITY.
  - ALL PROPOSED CURB SHALL BE CONCRETE BARRIER CURB AS PER CITY STANDARD DRAWING SC1.1 UNLESS OTHERWISE SPECIFIED. SIDEWALK PER CITY STANDARD DRAWING SC1.4 UNLESS OTHERWISE SPECIFIED.
  - ALL EXISTING REDUNDANT PRIVATE APPROACHES FRONTING THIS DEVELOPMENT MUST BE REMOVED TO THE SATISFACTION OF THE CITY.
  - NO EXCESS DRAINAGE, EITHER DURING OR AFTER CONSTRUCTION, IS TO BE DIRECTED TOWARDS NEIGHBORING PROPERTIES.
  - NO ALTERATION OF EXISTING GRADES AND DRAINAGE PATTERNS ON PROPERTY BOUNDARIES.

- ### WATERMAIN NOTES
- CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH CITY STANDARDS (IF AVAILABLE) OR AS PER OPSD STANDARDS.
  - ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
  - WATERMANS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. OTHERWISE THERMAL INSULATION IS REQUIRED AS PER CITY STANDARD W22.
  - THERMAL INSULATION OF WATERMANS AT OPEN STRUCTURES AS PER CITY DETAIL W23.
  - IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
  - USE APPROVED SADDLE CONNECTION WITH MAIN (CORPORATION) STOP AS PER CITY OF OTTAWA STANDARD DRAWING W26.
  - CONNECTION TO EXISTING BY CITY FORCE, EXCAVATION, BACKFILLING AND REINSTATEMENT IS TO BE COMPLETED BY THE CONTRACTOR.
  - SWABING, CHLORINATION AND CONTINUITY TESTING FOR PROPOSED WATER SERVICES IS TO FOLLOW CITY OF OTTAWA SPECIAL PROVISIONS #SP-4491 & SP-4494.
  - PROPOSED WATERMAIN CROSSING EXISTING UTILITIES TO BE PER CITY STANDARD S10.



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