SEWER NOTES

- CONSTRUCT ALL SEWERS AND APPURTENANCES TO CITY STANDARDS (IF AVAILABLE) OR AS PER OPSD STANDARDS.
- SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
- BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL
- SUB-BEDDING, IF REQUIRED SHALL BE AS PER THE DIRECTION OF A GEOTECHNICAL
- 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
- 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 1.5m OF COVER WITH
- THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22. 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
- 10. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS ONSITE, OUTLET CONNECTION TO THE MAIN AND PIPES 150mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO
- 1. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN.

WATERMAIN NOTES

LOCATED WITH 2"x4"x8' LONG MARKER.

FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.

- CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH CITY STANDARDS (IF AVAILABLE) OR AS PER OPSD STANDARDS.
- INDUSTRIAL/COMMERCIAL SERVICE CONNECTIONS TO BE 50mm COPPER PIPING AND SHALL CONFORM TO ASTM B88 TYPE 'K' SOFT.
- WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. OTHERWISE THERMAL INSULATION IS REQUIRED AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
- . 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 FORCES. 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 &

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 OVERELOW UNDER GRATE OR COVER) TO BE IMPLEMENTED DURING CONSTRUCTION ON ALL PROPOSED ROAD CATCHBASINS, REARYARD 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
- 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.
- 4.1. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS
- 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 MFASURF
- 5.2. FOR ALL CONTROL MEASURES, ACCUMULATED SEDIMENT SHALL BE REMOVED AS NECESSARY TO PERFORM MAINTENANCE REPAIRS 5.3. ACCUMULATED SEDIMENT SHALL BE REMOVED PRIOR TO THE REMOVAL OF THE CONTROL MEASURE.
- 5.4. ACCUMULATED SEDIMENT IS TO BE REMOVED AND DISPOSED OF AS PER OPSS
- ALL TEMPORARY FROSION 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 CLEARING AND GRADING. THE USE OF WATER, CALCIUM CHLORIDE FLAKES/SOLUTION OR MAGNESIUM CHLORIDE FLAKES/SOLUTION SHALL BE USED AS DUST SUPPRESSANTS AS PER OPSS 506. THIS IS TO LIMIT WIND FROSION OF SOILS WHICH MAY TRANSPORT SEDIMENTS OFFSITE, WHERE THEY MAY BE WASHED INTO THE RECEIVING WATER BY THE NEXT RAINSTORM.
- ALL 'GREEN AREAS' TO BE TREATED WITH 150mm TOPSOIL AND SOD AS SOON AS FEASIBLE, AS PER OPSS 570.
- TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 10. 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 LITHITED UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. IF CLOSURE OF ANY PERMANENT WATER PASSAGE IS NECESSARY, THE CONTRACTOR SHALL RELEASE ANY STRANDED
- 13. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO OPSS 577

FISH TO THE OPEN PORTION OF THE WATERCOURSE WITHOUT HARM.

- 14. WHERE DEWATERING IS REQUIRED, THE DISCHARGED WATER SHALL BE CONTROLLED IN ACCORDANCE WITH OPSS 518.
- 5. ALL SETTLING/FILTRATION BASINS SHALL BE EQUIPPED WITH TERRAFIX 270R GEOTEXTILE (OR APPROVED EQUIVALENT) AND SHALL BE CLEANED AND REPLACED
- 16. 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	ROOF DRAIN (B1)			
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A-ADJ (FULLY EXPOSED)			
NUMBER OF ROOF DRAINS	2			
	5-YEAR	100-YR		
ROOFTOP STORAGE (m ³)	14.36	26.67		
DEPTH OF FLOW (m)	0.035	0.065		
FLOW PER ROOF DRAIN (L/s)	0.44	0.82		
TOTAL FLOW	0.88	1.64		
ROOF DRAIN (B2)				

TEOWTER ROOT DIVING (E/3)	٠.	0.02			
TOTAL FLOW	0.88	1.64			
ROOF DRAIN (B2)					
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A-ADJ (FULLY EXPOSED)				
NUMBER OF ROOF DRAINS	2				
	5-YEAR	100-YR			
ROOFTOP STORAGE (m³)	4.57	7.61			
DEPTH OF FLOW (m)	0.030	0.050			
FLOW PER ROOF DRAIN (L/s)	0.38	0.63			
TOTAL FLOW	0.76	1.26			
ROOF DRAIN (B3)					

DEFINION LOW (III)	0.030	0.030
FLOW PER ROOF DRAIN (L/s)	0.38	0.63
TOTAL FLOW	0.76	1.26
ROOF I	DRAIN (B3)	
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A-ADJ (FULLY EXPOSED)	
NUMBER OF ROOF DRAINS	2	
	5-YEAR	100-YR
ROOFTOP STORAGE (m³)	4.51	7.51
DEPTH OF FLOW (m)	0.030	0.050
FLOW PER ROOF DRAIN (L/s)	0.38	0.63
TOTAL FLOW	0.76	1.26
ROOF I	DRAIN (B4)	

TYPE OF CONTROL DEVICE

ROOFTOP STORAGE (m3)

FLOW PER ROOF DRAIN (L/s)

DEPTH OF FLOW (m)

TOTAL FLOW

1" REBAR FOR BAG REMOVAL -

INSTALLATION DETAIL

GENERAL NOTES

DUMP STRAP -

FROM INLET

NUMBER OF ROOF DRAINS

WATTS DRAINAGE RD-100-A-ADJ

100-YR

1.86

0.035

0.44

0.88

2 EACH DUMP STRAPS

INLET SEDIMENT CONTROL DEVICE

N.T.S.

INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY

THIS PLAN IS NOT A CADASTRAL SURVEY SHOWING LEGAL PROPERTY BOUNDARIES AND EASEMENTS. THE

FAIRHALL, MOFFATT, WOODLAND LTD. SURVEY PLAN #8-31326, DATED AUGUST 15, 2018 AND CANNOT BE

BOUNDARIES AND EASEMENTS CAN ONLY BE DETERMINED BY AN UP-TO-DATE LAND TITLES SEARCH AND A

THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY

THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING

RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER

EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF

8. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND

9. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE

12. ALL ROADWAY, PARKING LOT, AND GRADING WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH CITY

CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE,

STANDARDS AND SPECIFICATIONS. THE CONTRACTOR IS TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE

AREAS PRIOR TO PLACEMENT OF ASPHALT AND TOPSOIL. ALL DEFICIENCIES NOTED SHALL BE RECTIFIED TO THE

13. CONTACT THE CITY FOR INSPECTION OF ROUGH GRADING OF PARKING LOTS, ROADWAYS AND LANDSCAPED

14. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY

15. ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE LOCATIONS ARE SUBJECT TO THE INDIVIDUAL AGENCY:

17. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO

19. ALL EXISTING REDUNDANT PRIVATE APPROACHES FRONTING THIS DEVELOPMENT MUST BE REMOVED TO THE

20. NO EXCESS DRAINAGE, EITHER DURING OR AFTER CONSTRUCTION, IS TO BE DIRECTED TOWARDS NEIGHBORING

21. NO ALTERATION OF EXISTING GRADES AND DRAINAGE PATTERNS ON PROPERTY BOUNDARIES.

CITY SATISFACTION PRIOR TO PLACEMENT OF ANY ASPHALT, TOPSOIL, SEED & MULCH AND/OR SOD.

THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY AUTHORITIES.

11. DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE CITY.

THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.

18. ALL PROPOSED CURB SHALL BE CONCRETE BARRIER CURB UNLESS SPECIFIED.

ELECTRICAL SERVICE - HYDRO OTTAWA,

• TELEPHONE SERVICE - BELL CANADA,

• TELEVISION SERVICE - ROGERS.

GAS SERVICE - ENBRIDGE

OTTAWA, BELL AND THE CITY.

SATISFACTION OF THE CITY.

UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME ALL RESPONSIBILITY FOR EXISTING

UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS

RELIED UPON TO BE ACCURATE OR COMPLETE. THE PRECISE LOCATION OF THE CURRENT PROPERTY

SUBSEQUENT CADASTRAL SURVEY PERFORMED AND CERTIFIED BY AN ONTARIO LAND SURVEYOR.

PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN DERIVED INFORMATION SUPPLIED BY (OR SHOWN ON)

THE ORIGINAL TOPOGRAPHY, GROUND FLEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR

OF THE CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.

BEFORE COMMENCING CONSTRUCTION.

O NOTIFY THE ENGINEER PROMPTLY.

DELINEATORS, MARKERS AND BARRIERS.

4. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT.

SITE AS DIRECTED BY THE ENGINEER AND THE CITY.

COMPACTED TO 95% STANDARD PROCTOR DENSITY.

BAG DETAIL

5-YEAR

1.06

0.020

0.25

0.50

SILT SACK

SAN STRUCTURE TABLE				
ЛE	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
1A	72.80	NW71.630	SE71.630	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010
OTE: ALL COVER FRAMES LOCATED OUTSIDE OF PAVEMENT				

NOTE	: ALL COV	ER FRAMES	LOCATED OU	ITSIDE OF PAVEMENT	_
URFACE	TO BE AN	NCHORED TO	THE TOP OF	THE PRECAST CONCRET	E
	TOP AS	S PER CITY OF	OTTAWA S.	P. NO.F-4070.	

STM STRUCTURE TABLE				
IAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
MH1	72.36	NW71.400	SE71.381	COVER CITY STD S28.1 FRAME CITY STD S25 STRUC. OPSD 701.010
NOTE: ALL COVER FRAMES LOCATED OUTSIDE OF PAVEMENT				
RFACE TO BE ANCHORED TO THE TOP OF THE PRECAST CONCRETE				

TOP AS PER CITY OF OTTAWA S.P. NO.F-4070.

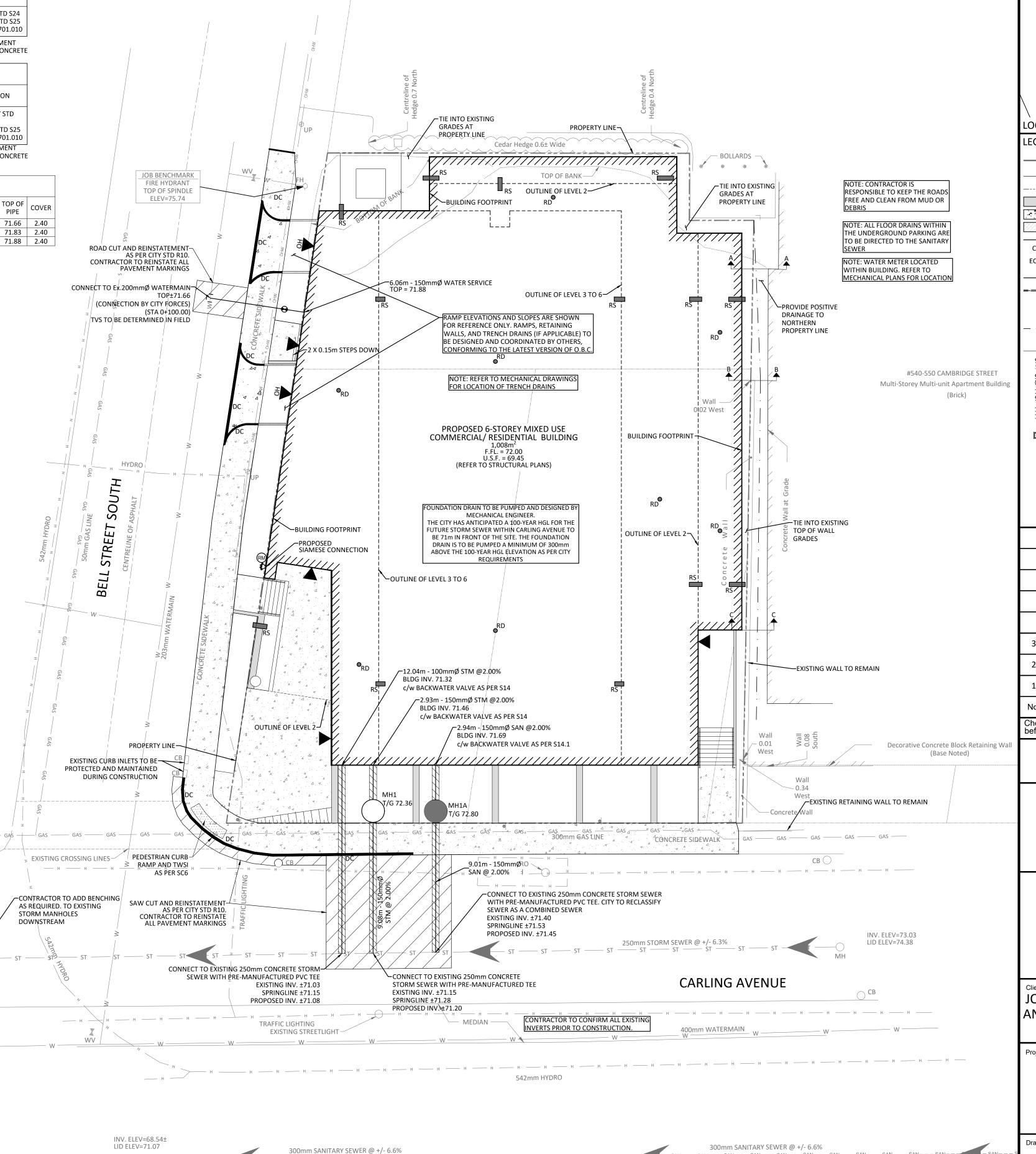
1" REBAR FOR BAG REMOVAL FROM

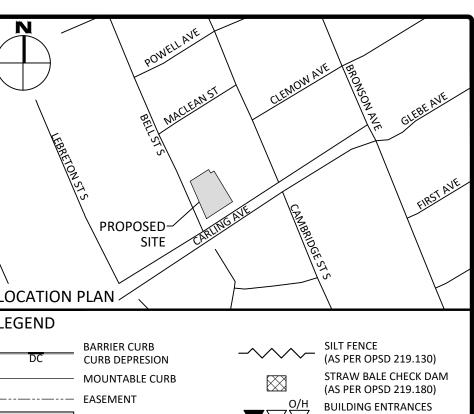
- EXPANSION RESTAINT

(1/4" NYLON ROPE, 2"

FLAT WASHERS)

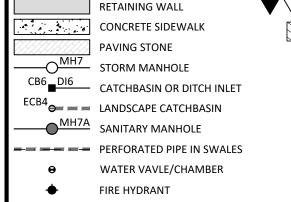
WATER COVER TABLE				
LOCATION	STATION	FINISHED GRADE	TOP OF PIPE	COVER
A - 200 X 150 TEE	0+100.00	74.06	71.66	2.40
VALVE	0+104.78	74.23	71.83	2.40
BULDING	0+106.06	74.28	71.88	2.40





(MAIN, SIDE, OVERHEAD)

INSULATION (PER W22)



CENTRELINE OF SWALE

SLOPING AT 3:1 (UNLESS SPECIFIED) PROPOSED ELEVATION EXISTING ELEVATION SWALE ELEVATION 100.50 T/W TOP OF WALL ELEVATION

90.50 B/W BOTTOM OF WALL ELEVATION 100.50 T/C TOP OF CURB ELEVATION 100.35 B/C BOTTOM OF CURB ELEVATION EMERGENCY OVERLAND FLOW ROUTE

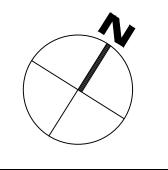


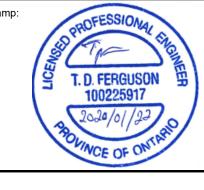
3	REVISED AS PER CITY COMMENTS	JAN. 22,	202
2	UPDATED AS PER CITY COMMENTS	NOV. 01,	, 201
1	ISSUED FOR SITE PLAN CONTROL	AUG. 16,	, 201
No.	Revisions	Date	е
Check before	and verify all dimensions proceeding with the work	not scale dra	wing

SCALE 1:150

McINTOSH PERRY

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JOHN HOWARD SOCIETY c/o PBC DEVELOPMENT AND CONSTRUCTION MANAGEMENT GROUP INC. 485 BANK STREET, SUITE 205 OTTAWA, ON K2P 1Z2

Checked By:

NEW MIXED USE OFFICE & APARTMENT BUILDING 289 CARLING AVENUE OTTAWA, ON K1S 4K5

SITE SERVICING AND SEDIMENT &

EROSION CONTROL PLAN Project Number 1:150 Drawn By

CP-19-0007 N.B.V. Drawing Number T.D.F. Designed By: N.B.V.