FOR ALL CONTROL MEASURES, ACCUMULATED SEDIMENT SHALL BE REMOVED AS NECESSARY TO ACCUMULATED SEDIMENT SHALL BE REMOVED PRIOR TO THE REMOVAL OF THE CONTROL MEASURE. ACCUMULATED SEDIMENT IS TO BE REMOVED AND DISPOSED OF AS PER OPSS 180.

7. 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 EROSION OF SOILS WHICH MAY

8. ALL 'GREEN AREAS' TO BE TREATED WITH 150mm TOPSOIL AND SOD AS SOON AS FEASIBLE, AS PER OPSS 570. 9. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS

12. 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.

EQUIVALENT) AND SHALL BE CLEANED AND REPLACED AS REQUIRED.

## **SEWER NOTES**

PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.

5. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR SAND.

BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.

8. INSULATE ALL SEWERS AND/OR SERVICES THAT HAVE LESS THAN 2.0m OF COVER WITH THERMAL INSULATION AS PER OPSD 1109.030.

BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND LOCATED WITH 2"x4"x8' LONG MARKER

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 FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.

11. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO THE

12. ALL CATCHBASIN AND CATCHBASIN MANHOLE LEADS ARE TO BE MINIMUM 200mmØ WITH MINIMUM 1.0% SLOPE UNLESS OTHERWISE NOTED.

. THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR NFORMATION 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 INFORMATION SUPPLIED BY (OR SHOWN ON) FARLEY SMITH & DENIS SURVEYING LTD, DATED NOVEMBER 12, 2020 AND CANNOT BE RELIED UPON TO BE 1" REBAR FOR BAG REMOVAL -ACCURATE OR COMPLETE. THE PRECISE LOCATION OF THE CURRENT PROPERTY BOUNDARIES AND FROM INLET 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. 3. THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OR 5. THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING 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 RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY OR TOWNSHIP 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 OR TOWNSHIP.

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 CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY 11. DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE CITY OR TOWNSHIP.

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

13. CONTACT THE CITY OR TOWNSHIP FOR INSPECTION OF ROUGH GRADING OF PARKING LOTS, ROADWAYS AND LANDSCAPED AREAS PRIOR TO PLACEMENT OF ASPHALT AND TOPSOIL. ALL DEFICIENCIES NOTED SHALL BE RECTIFIED TO THE CITY OR TOWNSHIP SATISFACTION PRIOR TO PLACEMENT OF ANY ASPHALT, TOPSOIL,

14. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.

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

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

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

THIS PLAN MUST BE READ IN CONJUNCTION WITH GEOTECHNICAL REPORT BY PARSONS, DATED NOVEMBER,

THE CONTRACTOR SHALL IMPLEMENT REST 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, REARYARD CATCHBASINS AND CATCHBASIN MANHOLES AND OTHER

2. AT THE DISCRETION OF THE PROJECT MANAGER OR MUNICIPAL STAFF, ADDITIONAL SILT CONTROL DEVICES

3. FOR SILT FENCE BARRIER, USE OPSD 219.110. GEOTEXTILE FOR SILT FENCE AS PER OPSS 1860, TABLE 3. 4. EXCEPT AS PROVIDED IN PARAGRAPHS 4.1., and 4.2. BELOW, STABILIZATION MEASURES SHALL BE INITIATED

WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY EMPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES

4.2. 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

. 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

THE LESSER OF THE FOLLOWING:
A DEPTH OF ONE-HALF THE EFFECTIVE HEIGHT OF THE CONTROL MEASURE.

6. 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.

RANSPORT SEDIMENTS OFFSITE. WHERE THEY MAY BE WASHED INTO THE RECEIVING WATER BY THE NEXT

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

11. 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

13. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO OPSS 577

14. WHERE DEWATERING IS REQUIRED, THE DISCHARGED WATER SHALL BE CONTROLLED IN ACCORDANCE WITH

15. ALL SETTLING/FILTRATION BASINS SHALL BE EQUIPPED WITH TERRAFIX 270R GEOTEXTILE (OR APPROVED

16. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS FOR THE

1. CONSTRUCT ALL SEWERS AND APPURTENANCES TO CITY OR TOWNSHIP STANDARDS (IF AVAILABLE) OR AS

2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED

3. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 95% STANDARD

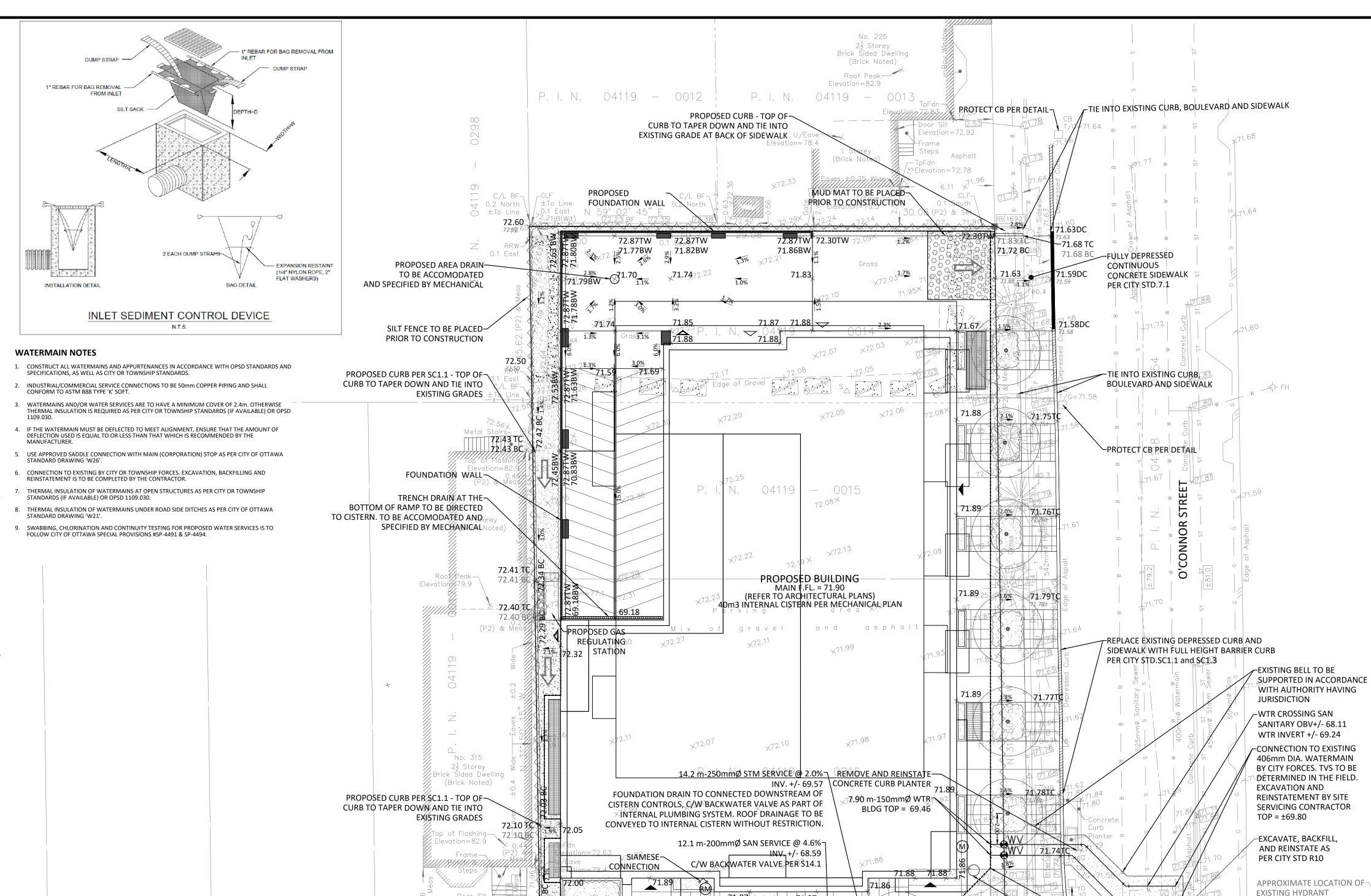
4. SUB-BEDDING, IF REQUIRED SHALL BE AS PER THE DIRECTION OF A GEOTECHNICAL ENGINEER.

6. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0m

7. 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

9. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF

13. ALL CATCHBASINS EXCLUDING LANDSCAPE CATCHBASINS ARE TO HAVE 150 mmØ PERFORATED PIPE FOR 3.0m ON ALL AVAILABLE SIDES AS PER CITY OF OTTAWA STANDARD DRAWING 'R1'



SIAMESE CONNECTION Interlock REPLACE EXISTING DEPRESSED OURB AND SIDEWALK WITH FULL HEIGHT BARRIER CURB PER CITY STD.SC1.1 and SC1.3 -PROTECT CB PER DETAIL-WTR CROSSING SAN SANITARY OBV+/- 68:1/3 WTR INVERT +/- 69.20 —EXISTING HYDRO TO BE SUPPORTED −EXTENT OF w ----IN ACCORDANCE WITH AUTHORITY -GARAGE BELOW HAVING JURISDICTION SOMERSET STREET WEST SAN CROSSING WTR-SANITARY OBV+/- 68.46 -MAINTAIN 0.5m SEPARATION T/G = 71.68-CISTERN ACCESS AND 71 84 EX. WTR INVERT +/- 68.95  $\ln vN(City) = \pm 67.6$ AT WATER CROSSING OVERFLOW, EX. WATER TOP +/- 68.93 FRAME AND COVER

EXCAVATE, STORM INVERT +/- 69.43 BACKFILL, AND -CONNECT TO EXISTING REINSTATE AS PER 600mmØ STM WITH VERTICAL RISER PER CITY 600mmø Storm Sewer @ 0.15% STD.S11.1 EX.INV. +/- 68.80 ±&X.SPRING LINE;±/769:10 \_ +PROPOSED INV., 69,10 CONNECT TO EXISTING-Edge of Aspalt (CONNECTION TO BE AT OR 450mmØ SAN ABOVE SPRINGLINE)

Door Sill→

71.88 T

Elevation=72.7

EX. INV. +/- 67.80 EX. SPRING LINE +/- 68.03 PROPOSED INV. 68.03 (CONNECTION TO BE AT OR ABOVE SPRINGLINE)

APPROXIMATELY 44m TO

PER S26.1

 $\sqrt{\text{Inv(City)}} = \pm 67.7$ 

 $Inv(City)=\pm 68.7$ 

T/G=71.67

√nvN(City)=±67.8  $lnvE(City) = \pm 68.6$  .ocatiòn plan

epressed Curb CURB

EXISTING DEPRESSED

BARRIER CURB

EASEMENT

**CURB DEPRESSION** 

MOUNTABLE CURB

**HEAVY DUTY ASPHALT** 

CONCRETE SIDEWALK

PAVING STONE

STORM MANHOLE

CB6 ■ CATCHBASIN OR DITCH INLET

PERFORATED PIPE IN SWALES

FIRE HYDRANT

SLOPING AT 3:1

WATER VALVE/CHAMBER

CENTRELINE OF SWALE

(UNLESS SPECIFIED)

PROPOSED ELEVATION

**EXISTING ELEVATION** 

BOTTOM OF WALL ELEVATION

EMERGENCY OVERLAND

ISSUED FOR MUNICIPAL REVIEW

ISSUED FOR SITE PLAN CONTROL

ISSUED FOR COORDINATION

ISSUED FOR COORDINATION

ISSUED FOR COORDINATION

Check and verify all dimensions

before proceeding with the work

SCALE 1:150

Tel: 613-836-2184

Revisions

McINTOSH PERRY

115 Walgreen Road, RR3, Carp, ON KOA 1L0

www.mcintoshperry.com

SWALE ELEVATION T/W100.50 TOP OF WALL ELEVATION

FLOW ROUTE

³B/w90.50

ECB4€ = ■ LANDSCAPE CATCHBASIN

—MH7A SANITARY MANHOLE

EXTENT OF GARAGE

STRAW BALE CHECK DAM

(AS PER OPSD 219.180)

**BUILDING ENTRANCES** 

ROOF DOWNSPOUT

(MAIN, SIDE, OVERHEAD)

WATER COVER TABLE POIN

CROSSING CONFLICT TABLE

AUG. 12, 202

FEB. 19, 2021

FEB. 18, 2021

DEC. 12, 2020

NOV. 27, 2020

Date

Do not scale drawings

Fax: 613-836-3742

100163197

SILT FENCE (AS PER OPSD 219.130)

LOCATION

LOCATION

METER

MUD MAT

REMOTE METER

\_\_\_\_\_

LEGEND

GEMSTONE CORPORATION 252 ARGYLE AVENUE OTTAWA ON, K2P 1B9 (613) 248-8999

18 STOREY APARTMENT BUILDING 311 SOMERSET STREET WEST

SITE GRADING, DRAINAGE, SERVICING, EROSION, AND SEDIMENT CONTROL PLAN

			$\cong$
	1:150	Project Number:	1-(
Ву:	C.M.K.	CCO-21-2341	1-21
d By:	R.D.F.	Drawing Number:	1-0
ed By:	C.M.K.	C101	D0